# HPSIM SAMPLE DATABASES

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# HPSim sample databases

The SQLite databases provided with this HPSim distribution represent the LANSCE injector and linear accelerator that supports the H- ion beam. They contain information about the layout (i.e. placement of components along the accelerator), geometric quantities (e.g. element length, aperture, design beta) cavity field and related beam dynamics quantities (e.g. rf field frequency, design phase and amplitude, transit-time factors as constants or polynomials) magnetic element descriptions (e.g. quadrupole gradient vs excitation current, dipole magnet bend and edge angles, field integrals) and EPICS channel names associated with various devices

Considering the major portions of the linac, the 800-MeV LANSCE proton accelerator consists of two 750-keV injectors, a drift tube linac (DTL), an intermediate beam transport region and a coupled cavity linac (CCL). Overall, the four databases represent the accelerator beginning with the 750-keV low-energy beam transport up through the end of the CCL. The 750-keV low-energy beam transport (LEBT) is found in the "tbtd" database. The 100-MeV DTL is found in the "dtl" database. The 100-MeV beam transport is found in the "trst" database. The 800-MeV CCL is found in "ccl" datatbase.

## tbtd.db

The initial stage of the accelerator comprises separate H+ and H- Cockcroft-Walton based injectors that produce 750-keV beams for injection into the 100-MeV DTL. Each low energy beam transport (LEBT) contains magnetic quadrupoles for transverse focusing, a single-gap 201.25-MHz buncher cavity for initial bunching of the beam, and a beam deflector for "gating" beam into the linac. The H- LEBT also contains a 16.77-MHz buncher for producing high-charge, individual micropulses and a slow-wave beam chopper for intensity modulating the H- beams. The H+ and H- beams are merged in a common LEBT that contains one single-gap 201.25-MHz buncher cavity, aka main buncher (MB) that performs the majority of the bunching for the standard linac beams, and quadrupole magnets to achieve the final match into the linac. The injector section describing the beam transport for the H- beam is stored in the database file "tbtd.db" and is configured to describe the nominal 201-MHz bunched beam created for most of the H- user facilities.

## dtl.db

The next section of the linac is the room temperature DTL which is an Alvarez-style 201.25-MHz linac comprised of four independently powered tanks. Each tank has a separate control for field phase and amplitude. There is also a delay control, which either sets the cavity field to zero ("delayed") or nominal ("in-time") in the model, mimicking the effect of this control on the actual DTL. The tanks contain magnetic quadrupoles in a FODO lattice. Small collections of these magnets are driven by single power supplies. However, each magnet also has a shunt to reduce the current, i.e. field, to achieve the proper focusing strength. The description of the DTL is contained in "dtl.db" database file.

### trst.db

Following the DTL is a 100-MeV beam transport, aka the Transition Region (TR), which allows for independent matching, steering and phasing of the $H^+$ and $H^-$ beams into the next linac section. It comprises two magnetic chicanes, one for each beam species. The section that is used to transport $H^-$ beam from the DTL to the CCL is described in the "trst.db" file.

### ccl.db

Following the TR is the room temperature 805-MHz coupled-cavity linac (CCL) that accelerates beams up to 800 MeV. It consists of 44 independently powered modules, which have either two or four tanks. Each tank consists of a large number of identical accelerating and side mounted coupling cells. The magnetic quadrupole doublets, which are located between tanks, are arrayed in a FDO lattice. Each CCL module has separate phase and amplitude controls as well as the RF delay feature. There is also a master reference phase control that enables one to shift the phase of all the CCL modules in unison, with respect to the DTL reference phase.

### Miscellaneous

The database files may be viewed using SQLite3 or some variant, or a viewer like "tksqlite.tcl" or "DB Browser for SQLite". The database files may be exported to an .sql file, which is human readable and can be edited. The file can then be imported back to an SQLite db file using a command, e.g. on linux:

```
sqlite3  filename.db   <filename.sql
```

The databases were populated using a combination of data extracted from PARMILA design files and TRACE-2D, TRACE-3D, CCL design and ΔT data files that have been used to described the LANSCE accelerator. See the HPSim User Guide for details about the description of the various beam line elements.

The databases also contain "trigger" code that is used to update model dependent parameters when various EPICS channels are changed. The logic behind the trigger code maybe accelerator facility dependent, but those used in these databases should provide a good starting place.

A note about the LANSCE device designations. LANSCE uses a simple naming convention for data system channel assignments to devices, which goes as follows:

AADDnnnUmm

Where: "AA" is a two-character designator for the area the device is located in,
"DD" is the two-character designator for the device type,
"nnn" is the three digit number representing which device,
"U" is the quantity being associated with the channel, and
"mm" is the two-digit number representing which quantity.

For example, "TDDB01" represents the first "DB" or "drift buncher" located in transport D, "TD". Most of the names in the database representing beamline devices use the area, device name, and a two-digit number designator. The EPICS channels follow the more strict naming convention since these names are used to access those channels through the LANSCE control system. For example, "TBQL006V04" represents a voltage measurement of a precision current shunt for quadrupole magnet #4 in quadruplet #6 in transport B. This value is then converted to a magnetic field gradient using an excitation curve store in the db.

SQL "readable" versions of the four database files are provided below. General information regarding beamline elements represented in the databases can be found in the HPSim User Guide.

## Appendixes

The following appendixes contain the sql or text readable versions of each of the four sample database files.

### A. tbtd.db.sql

```sql
BEGIN TRANSACTION;
CREATE TABLE steerer(
   id integer primary key,
   name text unique,
   view_index double precision unique,
   bl_h_model double precision not null default 0.0,
   bl_v_model double precision not null default 0.0,
   channel integer references epics_channel(id)
          on delete restrict,
   model_index integer unique,
   model_type text not null default 'steerer'
);
INSERT INTO `steerer` VALUES (1,'TBSM01X',7.6,0.0,0.0,NULL,8,'steerer');
INSERT INTO `steerer` VALUES (2,'TBSM01Y',7.7,0.0,0.0,NULL,9,'steerer');
INSERT INTO `steerer` VALUES (3,'TBSM02X',20.6,0.0,0.0,NULL,24,'steerer');
INSERT INTO `steerer` VALUES (4,'TBSM02Y',20.7,0.0,0.0,NULL,25,'steerer');
INSERT INTO `steerer` VALUES (5,'TBSM03X',36.6,0.0,0.0,NULL,43,'steerer');
INSERT INTO `steerer` VALUES (6,'TBSM03Y',36.7,0.0,0.0,NULL,44,'steerer');
INSERT INTO `steerer` VALUES (7,'TBSM04X',47.6,0.0,0.0,NULL,57,'steerer');
INSERT INTO `steerer` VALUES (8,'TBSM04Y',47.7,0.0,0.0,NULL,58,'steerer');
INSERT INTO `steerer` VALUES (9,'TBSM05X',54.6,0.0,0.0,NULL,66,'steerer');
INSERT INTO `steerer` VALUES (10,'TBSM05Y',54.7,0.0,0.0,NULL,67,'steerer');
INSERT INTO `steerer` VALUES (11,'TBSM06X',68.6,0.0,0.0,NULL,82,'steerer');
INSERT INTO `steerer` VALUES (12,'TBSM06Y',68.7,0.0,0.0,NULL,83,'steerer');
INSERT INTO `steerer` VALUES (13,'TBSM07X',83.6,0.0,0.0,'',100,'steerer');
INSERT INTO `steerer` VALUES (14,'TBSM07Y',83.7,0.0,0.0,'',101,'steerer');
INSERT INTO `steerer` VALUES (15,'TDSM01X',94.6,0.0,0.0,NULL,113,'steerer');
INSERT INTO `steerer` VALUES (16,'TDSM01Y',94.7,0.0,0.0,NULL,114,'steerer');
CREATE TABLE spch_comp(
   id integer primary key,
   name text,
   view_index double precision unique,
   fraction_model double precision not null default 1.0,
   model_index integer unique,
   model_type text not null default 'spch_comp'
);
INSERT INTO `spch_comp` VALUES (1,'spch_comp_1',0.5,0.6,0,'spch_comp');
INSERT INTO `spch_comp` VALUES (2,'spch_comp_2',9.2,0.74,12,'spch_comp');
INSERT INTO `spch_comp` VALUES (3,'spch_comp_3',29.2,0.15,35,'spch_comp');
INSERT INTO `spch_comp` VALUES (4,'spch_comp_4',46.2,0.26,55,'spch_comp');
INSERT INTO `spch_comp` VALUES (5,'spch_comp_5',70.2,0.4,86,'spch_comp');
INSERT INTO `spch_comp` VALUES (6,'spch_comp_6',96.2,0.4,117,'spch_comp');
INSERT INTO `spch_comp` VALUES (7,'spch_comp_7',109.0,1.0,129,'spch_comp');
CREATE TABLE rotation(
   id integer primary key,
   name text,
   view_index double precision unique,
   angle_model double precision not null default 0.0,
   model_index integer unique,
   model_type text not null default 'rotation'
);
CREATE TABLE raperture(
   id integer primary key,
   name text,
   view_index double precision unique,
   aperture_xl_model double precision not null default 0.0,
   aperture_xr_model double precision not null default 0.0,
   aperture_yt_model double precision not null default 0.0,
   aperture_yb_model double precision not null default 0.0,
   in_out_model integer not null default 1,
   model_index integer unique,
   model_type text not null default 'raperture'
);
INSERT INTO `raperture` VALUES (1,'TBFJ01',40.0,0.0,0.0,0.0,0.0,0,48,'raperture');
INSERT INTO `raperture` VALUES (2,'TBFJ02',66.0,0.0,0.0,0.0,0.0,0,79,'raperture');
INSERT INTO `raperture` VALUES (3,'TBFJ03',78.0,0.00147477110418,0.00147477110418,0.00431303729257,0.00431303729257,0,94,'raperture');
CREATE TABLE quad_family(
   id integer primary key,
   name text,
   l_eff_cal double precision check(l_eff_cal > 0.0),-- effective magnet length
   a0_cal double precision not null default 0.0,
   a1_cal double precision not null default 0.0,
   a2_cal double precision not null default 0.0,
   a3_cal double precision not null default 0.0,
   a4_cal double precision not null default 0.0,
   a6_cal double precision not null default 0.0,
```

```
    a8_cal double precision not null default 0.0,
    unique(name, l_eff_cal, a0_cal, a1_cal, a2_cal, a3_cal, a4_cal, a6_cal, a8_cal)
);
INSERT INTO `quad_family` VALUES (1,'TBQL01V1',1.0,0.0,14.772,-0.008595,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (2,'TBQL01V2',1.0,0.0,14.647,-0.00617,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (3,'TBQL01V3',1.0,0.0,14.423,-0.002663,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (4,'TBQL02V1',1.0,0.0,14.888,-0.008325,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (5,'TBQL02V2',1.0,0.0,14.857,-0.00855,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (6,'TBQL02V3',1.0,0.0,14.831,-0.00802,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (7,'TBQL03V1',1.0,0.0,14.831,-0.00802,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (8,'TBQL03V2',1.0,0.0,14.831,-0.00802,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (9,'TBQL04V1',1.0,0.0,8.9151,-0.003034,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (10,'TBQL04V2',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (11,'TBQL05V1',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (12,'TBQL05V2',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (13,'TBQL05V3',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (14,'TBQL05V4',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (15,'TBQL06V1',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (16,'TBQL06V2',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (17,'TBQL06V3',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (18,'TBQL06V4',1.0,0.0,8.9151,-0.003024,0.0,0.0,0.0,0.0);
INSERT INTO `quad_family` VALUES (19,'TDQL01V1',1.0,2.7,8.0285,0.000576,0.0,0.0,-8.294e-12,0.0);
INSERT INTO `quad_family` VALUES (20,'TDQL01V2',1.0,2.6,8.0414,0.000662,0.0,0.0,-1.0271e-11,0.0);
INSERT INTO `quad_family` VALUES (21,'TDQL01V3',1.0,2.6,8.0419,0.000549,0.0,0.0,-9.184e-12,0.0);
INSERT INTO `quad_family` VALUES (22,'TDQL01V4',1.0,2.7,8.093,-7.2e-05,0.0,0.0,-4.224e-12,0.0);
CREATE TABLE quad(
    id integer primary key,
    name text unique,
    view_index double precision unique,
    monitor integer not null default 0,
    gradient_model double precision default 0.0,
    length_model double precision,
    aperture_model double precision,
    family_cal  integer references quad_family(id)
            on delete restrict,
    shunt_cal double precision,
    polarity_design integer not null default 1.0,
    channel integer references epics_channel(id)
            on delete restrict,
    model_index integer unique,
    model_type text not null default 'quad'
);
INSERT INTO `quad` VALUES (1,'TBQL01V1',2.0,0,1.2116696080242,0.1022,0.0254,1,0.0,1,1,2,'quad');
INSERT INTO `quad` VALUES (2,'TBQL01V2',4.0,0,-3.6325072643175,0.1022,0.0254,2,0.0,-1,2,4,'quad');
INSERT INTO `quad` VALUES (3,'TBQL01V3',6.0,0,2.96055295675425,0.1022,0.0254,3,0.0,1,3,6,'quad');
INSERT INTO `quad` VALUES (4,'TBQL02V1',11.0,0,-3.669389878668,0.1034,0.0254,4,0.0,-1,4,14,'quad');
INSERT INTO `quad` VALUES (5,'TBQL02V2',13.0,0,5.360978402762,0.1034,0.0254,5,0.0,1,5,16,'quad');
INSERT INTO `quad` VALUES (6,'TBQL02V3',15.0,0,-2.8841954214528,0.1034,0.0254,6,0.0,-1,6,18,'quad');
INSERT INTO `quad` VALUES (7,'TBQL03V1',31.0,0,-0.4450951699128,0.1034,0.0254,7,0.0,-1,7,37,'quad');
INSERT INTO `quad` VALUES (8,'TBQL03V2',33.0,0,0.2436048805728,0.1034,0.0254,8,0.0,1,8,39,'quad');
INSERT INTO `quad` VALUES (9,'TBQL04V1',42.0,0,-0.05722243694424,0.1034,0.0254,9,0.0,-1,9,50,'quad');
INSERT INTO `quad` VALUES (10,'TBQL04V2',44.0,0,0.0,0.1034,0.0254,10,0.0,1,10,52,'quad');
INSERT INTO `quad` VALUES (11,'TBQL05V1',58.0,0,0.208002709716,0.1034,0.0254,11,0.0,1,11,71,'quad');
INSERT INTO `quad` VALUES (12,'TBQL05V2',60.0,0,-2.92456430035584,0.1034,0.0254,12,0.0,-1,12,73,'quad');
INSERT INTO `quad` VALUES (13,'TBQL05V3',62.0,0,4.85421897275136,0.1034,0.0254,13,0.0,1,13,75,'quad');
INSERT INTO `quad` VALUES (14,'TBQL05V4',64.0,0,-2.45354012550864,0.1034,0.0254,14,0.0,-1,14,77,'quad');
INSERT INTO `quad` VALUES (15,'TBQL06V1',72.0,0,0.878745552096,0.1034,0.0254,15,0.0,1,15,88,'quad');
INSERT INTO `quad` VALUES (16,'TBQL06V2',74.0,0,-2.98868619386496,0.1034,0.0254,16,0.0,-1,16,90,'quad');
INSERT INTO `quad` VALUES (17,'TBQL06V3',80.0,0,3.79220538715536,0.1034,0.0254,17,0.0,1,17,96,'quad');
INSERT INTO `quad` VALUES (18,'TBQL06V4',82.0,0,-1.833786641556,0.1034,0.0254,18,0.0,-1,18,98,'quad');
INSERT INTO `quad` VALUES (19,'TDQL01V1',98.0,0,-2.50565511698528,0.1028,0.0254,19,0.0,-1,19,119,'quad');
INSERT INTO `quad` VALUES (20,'TDQL01V2',100.0,0,4.65965900699259,0.10278,0.0254,20,0.0,1,20,121,'quad');
INSERT INTO `quad` VALUES (21,'TDQL01V3',102.0,0,-5.94156896619775,0.1028,0.0254,21,0.0,-1,21,123,'quad');
INSERT INTO `quad` VALUES (22,'TDQL01V4',104.0,0,5.27735624624285,0.1028,0.0254,22,0.0,1,22,125,'quad');
CREATE TABLE epics_channel(
    id integer primary key,
    lcs_name text unique,
    value_type text,  -- current or voltage
    value double precision default 0.0,
    thresh double precision default 0.0,
    value_txt text default 'NA',
    update_time date --default datetime('now')
);
INSERT INTO `epics_channel` VALUES (1,'TBQL001V01','DVM',8.242,0.05,'NA','2013-04-24 11:51:16');
INSERT INTO `epics_channel` VALUES (2,'TBQL001V02','DVM',-25.065,0.05,'NA','2013-04-24 11:51:23');
INSERT INTO `epics_channel` VALUES (3,'TBQL001V03','DVM',20.605,0.05,'NA','2013-04-24 11:51:29');
INSERT INTO `epics_channel` VALUES (4,'TBQL002V01','DVM',-24.996,0.05,'NA','2013-04-24 11:51:36');
INSERT INTO `epics_channel` VALUES (5,'TBQL002V02','DVM',36.866,0.05,'NA','2013-04-24 11:51:39');
INSERT INTO `epics_channel` VALUES (6,'TBQL002V03','DVM',-19.656,0.05,'NA','2013-04-24 11:51:43');
INSERT INTO `epics_channel` VALUES (7,'TBQL003V01','DVM',-3.006,0.05,'NA','2013-04-24 11:51:49');
INSERT INTO `epics_channel` VALUES (8,'TBQL003V02','DVM',1.644,0.05,'NA','2013-04-24 11:51:52');
INSERT INTO `epics_channel` VALUES (9,'TBQL004V01','DVM',-0.642,0.05,'NA','2013-04-24 11:51:58');
INSERT INTO `epics_channel` VALUES (10,'TBQL004V02','DVM',0.0,0.05,'NA','2013-04-24 11:52:10');
INSERT INTO `epics_channel` VALUES (11,'TBQL005V01','DVM',2.335,0.05,'NA','2013-04-24 11:52:22');
INSERT INTO `epics_channel` VALUES (12,'TBQL005V02','DVM',-33.178,0.05,'NA','2013-04-24 11:52:27');
INSERT INTO `epics_channel` VALUES (13,'TBQL005V03','DVM',55.494,0.05,'NA','2013-04-24 11:52:32');
```

```
INSERT INTO `epics_channel` VALUES (14,'TBQL005V04','DVM',-27.783,0.05,'NA','2013-04-24 11:52:38');
INSERT INTO `epics_channel` VALUES (15,'TBQL006V01','DVM',9.89,0.05,'NA','2013-04-24 11:52:46');
INSERT INTO `epics_channel` VALUES (16,'TBQL006V02','DVM',-33.914,0.05,'NA','2013-04-24 11:52:52');
INSERT INTO `epics_channel` VALUES (17,'TBQL006V03','DVM',43.169,0.05,'NA','2013-04-24 11:52:57');
INSERT INTO `epics_channel` VALUES (18,'TBQL006V04','DVM',-20.715,0.05,'NA','2013-04-24 11:53:03');
INSERT INTO `epics_channel` VALUES (19,'TDQL001V01','DVM',-30.806,0.05,'NA','2013-04-24 11:53:14');
INSERT INTO `epics_channel` VALUES (20,'TDQL001V02','DVM',57.397,0.05,'NA','2013-04-24 11:53:19');
INSERT INTO `epics_channel` VALUES (21,'TDQL001V03','DVM',-73.37,0.05,'NA','2013-04-24 11:53:23');
INSERT INTO `epics_channel` VALUES (22,'TDQL001V04','DVM',64.952,0.05,'NA','2013-04-24 11:53:30');
INSERT INTO `epics_channel` VALUES (23,'TBDB002E04','buncher_amp',40.7,0.0,'NA','2016-03-29 10:42:00');
INSERT INTO `epics_channel` VALUES (24,'TBDB002E02','buncher_ph',270.0,0.0,'NA','2016-03-29 10:42:00');
INSERT INTO `epics_channel` VALUES (25,'TBDB002L03','buncher_on_off',0.0,0.0,'ON','2017-01-27 09:22:04');
INSERT INTO `epics_channel` VALUES (26,'TDDB001E04','buncher_amp',34.9,0.0,'NA','2017-01-27 14:19:08');
INSERT INTO `epics_channel` VALUES (27,'TDDB001E02','buncher_ph',227.2,0.0,'NA','2016-03-29 10:42:00');
INSERT INTO `epics_channel` VALUES (28,'TDDB001L03','buncher_on_off',0.0,0.0,'ON','2016-06-21 10:01:45');
INSERT INTO `epics_channel` VALUES (29,'TBDB001E01','buncher_amp',0.0,0.0,'NA','2017-01-27 09:21:52');
INSERT INTO `epics_channel` VALUES (30,'TBDB001E02','buncher_ph',0.0,0.0,'NA','2016-05-26 08:32:38');
INSERT INTO `epics_channel` VALUES (31,'TBDB001L03','buncher_on_off',1.0,0.0,'OFF','2017-01-27 09:21:43');
CREATE TABLE drift(
    id integer primary key,
    name text unique,
    view_index double precision unique,
    length_model double precision,
    aperture_model double precision,
    model_index integer unique,
    model_type text not null default 'drift'
);
INSERT INTO `drift` VALUES (1,'TBDR01',1.0,0.0524,0.0254,1,'drift');
INSERT INTO `drift` VALUES (2,'TBDR02',3.0,0.05695,0.0254,3,'drift');
INSERT INTO `drift` VALUES (3,'TBDR03',5.0,0.05695,0.0254,5,'drift');
INSERT INTO `drift` VALUES (4,'TBDR04',7.0,0.11621,0.0254,7,'drift');
INSERT INTO `drift` VALUES (5,'TBDR05',8.0,0.08201,0.0254,10,'drift');
INSERT INTO `drift` VALUES (7,'TBDR06',10.0,0.05903,0.0254,13,'drift');
INSERT INTO `drift` VALUES (8,'TBDR07',12.0,0.07273,0.0254,15,'drift');
INSERT INTO `drift` VALUES (9,'TBDR08',14.0,0.07273,0.0254,17,'drift');
INSERT INTO `drift` VALUES (10,'TBDR09',16.0,0.0421,0.0254,19,'drift');
INSERT INTO `drift` VALUES (12,'TBDR10',18.0,0.06253,0.0254,21,'drift');
INSERT INTO `drift` VALUES (13,'TBDR11',20.0,0.46278,0.0254,23,'drift');
INSERT INTO `drift` VALUES (14,'TBDR12',21.0,0.05575,0.0254,26,'drift');
INSERT INTO `drift` VALUES (15,'TBDR13',22.0,0.025,0.0254,27,'drift');
INSERT INTO `drift` VALUES (16,'TBDR14',23.0,0.025,0.0254,28,'drift');
INSERT INTO `drift` VALUES (17,'TBDR15',24.0,0.025,0.0254,29,'drift');
INSERT INTO `drift` VALUES (18,'TBDR16',25.0,0.025,0.0254,30,'drift');
INSERT INTO `drift` VALUES (19,'TBDR17',26.0,0.51985,0.0254,31,'drift');
INSERT INTO `drift` VALUES (20,'TBDR18',28.0,0.05868,0.0254,33,'drift');
INSERT INTO `drift` VALUES (22,'TBDR19',30.0,0.04748,0.0254,36,'drift');
INSERT INTO `drift` VALUES (23,'TBDR20',32.0,0.07273,0.0254,38,'drift');
INSERT INTO `drift` VALUES (24,'TBDR21',34.0,0.0421,0.0254,40,'drift');
INSERT INTO `drift` VALUES (26,'TBDR22',36.0,0.08471,0.0254,42,'drift');
INSERT INTO `drift` VALUES (27,'TBDR23',37.0,0.1853,0.0254,45,'drift');
INSERT INTO `drift` VALUES (28,'TBDR24',39.0,0.19858,0.0254,47,'drift');
INSERT INTO `drift` VALUES (29,'TBDR25',41.0,0.06018,0.0254,49,'drift');
INSERT INTO `drift` VALUES (30,'TBDR26',43.0,0.07273,0.0254,51,'drift');
INSERT INTO `drift` VALUES (31,'TBDR27',45.0,0.07288,0.0254,53,'drift');
INSERT INTO `drift` VALUES (33,'TBDR28',47.0,0.06861,0.0254,56,'drift');
INSERT INTO `drift` VALUES (34,'TBDR29',48.0,0.3493,0.0254,59,'drift');
INSERT INTO `drift` VALUES (35,'TBDR30',50.0,0.4082,0.0254,61,'drift');
INSERT INTO `drift` VALUES (36,'TBDR31',52.0,0.20557,0.0254,63,'drift');
INSERT INTO `drift` VALUES (38,'TBDR32',54.0,0.15208,0.0254,65,'drift');
INSERT INTO `drift` VALUES (39,'TBDR33',55.0,0.07395,0.0254,68,'drift');
INSERT INTO `drift` VALUES (41,'TBDR34',57.0,0.05286,0.0254,70,'drift');
INSERT INTO `drift` VALUES (42,'TBDR35',59.0,0.07273,0.0254,72,'drift');
INSERT INTO `drift` VALUES (43,'TBDR36',61.0,0.07679,0.0254,74,'drift');
INSERT INTO `drift` VALUES (44,'TBDR37',63.0,0.07679,0.0254,76,'drift');
INSERT INTO `drift` VALUES (45,'TBDR38',65.0,0.06018,0.0254,78,'drift');
INSERT INTO `drift` VALUES (46,'TBDR39',67.0,0.79308,0.0254,80,'drift');
INSERT INTO `drift` VALUES (47,'TBDR40',68.0,0.79308,0.0254,81,'drift');
INSERT INTO `drift` VALUES (48,'TBDR41',69.0,0.14283,0.0254,84,'drift');
INSERT INTO `drift` VALUES (50,'TBDR42',71.0,0.04748,0.0254,87,'drift');
INSERT INTO `drift` VALUES (51,'TBDR43',73.0,0.07679,0.0254,89,'drift');
INSERT INTO `drift` VALUES (52,'TBDR44',75.0,0.0421,0.0254,91,'drift');
INSERT INTO `drift` VALUES (54,'TBDR45',77.0,0.08793,0.0254,93,'drift');
INSERT INTO `drift` VALUES (55,'TBDR46',79.0,0.06018,0.0254,95,'drift');
INSERT INTO `drift` VALUES (56,'TBDR47',81.0,0.07273,0.0254,97,'drift');
INSERT INTO `drift` VALUES (57,'TBDR48',83.0,0.14425,0.0254,99,'drift');
INSERT INTO `drift` VALUES (58,'TBDR49',84.0,0.29965,0.0254,102,'drift');
INSERT INTO `drift` VALUES (59,'TDDR01',86.0,0.15835,0.0254,104,'drift');
INSERT INTO `drift` VALUES (61,'TDDR02',88.0,0.30645,0.0254,106,'drift');
INSERT INTO `drift` VALUES (62,'TDDR03',89.0,0.02,0.0254,107,'drift');
INSERT INTO `drift` VALUES (63,'TDDR04',90.0,0.02,0.0254,108,'drift');
INSERT INTO `drift` VALUES (64,'TDDR05',92.0,0.02,0.0254,110,'drift');
INSERT INTO `drift` VALUES (65,'TDDR06',93.0,0.02,0.0254,111,'drift');
INSERT INTO `drift` VALUES (66,'TDDR07',94.0,0.36877,0.0254,112,'drift');
INSERT INTO `drift` VALUES (67,'TDDR08',95.0,0.11462,0.0254,115,'drift');
INSERT INTO `drift` VALUES (69,'TDDR09',97.0,0.08405,0.0254,118,'drift');
INSERT INTO `drift` VALUES (70,'TDDR10',99.0,0.07717,0.0254,120,'drift');
```

```sql
INSERT INTO `drift` VALUES (71,'TDDR11',101.0,0.19756,0.0254,122,'drift');
INSERT INTO `drift` VALUES (72,'TDDR12',103.0,0.07846,0.0254,124,'drift');
INSERT INTO `drift` VALUES (73,'TDDR13',105.0,0.04219,0.0254,126,'drift');
INSERT INTO `drift` VALUES (75,'TDDR14',107.0,0.35632,0.01,128,'drift');
CREATE TABLE dipole(
  id integer primary key,
  name text unique,
  view_index double precision unique,
  rho_model double precision,
  angle_model double precision,
  half_gap_model double precision,
  edge_angle1_model double precision not null default 0.0,
  edge_angle2_model double precision not null default 0.0,
  k1_model double precision not null default 0.45,
  k2_model double precision not null default 2.8,
  field_index_model double precision not null default 0.0,
  kenergy_model double precision default 0.75,
  channel integer references epics_channel(id)
        on delete restrict,
  model_index integer unique,
  model_type text not null default 'dipole'
);
INSERT INTO `dipole` VALUES (1,'TBBM01',38.0,0.56634,1.41371669411541,0.0381,0.445058959258554,0.445058959258554,0.45,2.8,0.0,0.75,NULL,46,'dipole');
INSERT INTO `dipole` VALUES (2,'TDBM01',85.0,1.6372,0.15707963267949,0.03963,0.150237942011672,0.0,0.243,2.801,0.0,0.75,NULL,103,'dipole');
CREATE TABLE diagnostics(
  id integer primary key,
  name text,
  view_index double precision unique,
  diag_type text,
  monitor integer not null default 0,
  model_index integer unique,
  model_type text not null default 'diagnostics'
);
INSERT INTO `diagnostics` VALUES (1,'TBEM01',9.0,'EM',0,11,'diagnostics');
INSERT INTO `diagnostics` VALUES (2,'TBEM01COL',17.0,'HP',0,20,'diagnostics');
INSERT INTO `diagnostics` VALUES (3,'TBEM02',29.0,'EM',0,34,'diagnostics');
INSERT INTO `diagnostics` VALUES (4,'TBEM02COL',35.0,'HP',0,41,'diagnostics');
INSERT INTO `diagnostics` VALUES (7,'TBEM03',46.0,'EM',0,54,'diagnostics');
INSERT INTO `diagnostics` VALUES (8,'TBEM03COL',56.0,'HP',0,69,'diagnostics');
INSERT INTO `diagnostics` VALUES (9,'TBEM04',70.0,'EM',0,85,'diagnostics');
INSERT INTO `diagnostics` VALUES (10,'TBEM04COL',76.0,'HP',0,92,'diagnostics');
INSERT INTO `diagnostics` VALUES (11,'TDEM01',96.0,'EM',0,116,'diagnostics');
INSERT INTO `diagnostics` VALUES (12,'TDEM01COL',106.0,'HP',0,127,'diagnostics');
CREATE TABLE caperture(
  id integer primary key,
  name text,
  view_index double precision unique,
  aperture_model double precision not null default 0.0,
  in_out_model integer not null default 1,
  model_index integer unique,
  model_type text not null default 'caperture'
);
INSERT INTO `caperture` VALUES (1,'TBBA01',19.0,0.0254,0,22,'caperture');
INSERT INTO `caperture` VALUES (2,'TBBA02',27.0,0.0254,0,32,'caperture');
INSERT INTO `caperture` VALUES (3,'TBBA04',53.0,0.01,1,64,'caperture');
INSERT INTO `caperture` VALUES (4,'TDBA01',87.0,0.01,1,105,'caperture');
CREATE TABLE buncher(
  id integer primary key,
  name text,
  view_index double precision unique,
  on_off integer not null default 1,
  phase_model double precision not null default 0.0,
  phase_offset_cal double precision not null default 0.0,
  voltage_model double precision not null default 0.0,
  c0_cal double precision not null default 1.0,
  c1_cal double precision not null default 0.0,
  c2_cal double precision not null default 0.0,
  c3_cal double precision not null default 0.0,
  c4_cal double precision not null default 0.0,
  frequency_model double precision not null default 0.0,
  aperture_model double precision not null default 0.0,
  amplitude_channel integer references epics_channel(id)
        on delete restrict,
  phase_channel integer references epics_channel(id)
        on delete restrict,
  on_off_channel integer references epics_channel(id)
        on delete restrict,
  model_index integer unique,
  model_type text not null default 'buncher'
);
INSERT INTO `buncher` VALUES (1,'TBDB01',49.0,0,-1.5707963267949,0.0,0.0,0.0,0.0,0.0,0.0,0.0,201.25,0.01,29,30,31,60,'buncher');
INSERT INTO `buncher` VALUES (2,'TBDB02',51.0,1,2.96705972839036,-100.0,0.00398831622421552,1.07190247,0.07971817,-0.00032347,3.7308e-06,-1.5969e-08,201.25,0.01,23,24,25,62,'buncher');
INSERT INTO `buncher` VALUES (3,'TDDB01',91.0,1,5.52313456050885,89.2523,0.00965338223330795,2.76867036,0.22313134,-0.0010578,1.0405e-05,-3.8059e-08,201.25,0.01,26,27,28,109,'buncher');
CREATE TRIGGER update_epics_channel after update of value on epics_channel
begin
  update epics_channel set update_time = datetime('now', 'localtime') where rowid = new.rowid;
```

```
      update quad set
         polarity_design = (select case when value >= 0.0 then 1.0 else -1.0 end from epics_channel where quad.channel=id)
         where exists(select * from epics_channel where quad.channel=new.rowid AND value_type = 'DVM');
      update quad set
         gradient_model= 0.01*polarity_design*(((select a0_cal from quad_family mf where quad.family_cal = mf.id)+
                   (select a1_cal from quad_family mf where quad.family_cal = mf.id)*
                   ((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal)+
                   (select a2_cal from quad_family mf where quad.family_cal = mf.id)*
                   power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 2.0)+
                   (select a3_cal from quad_family mf where quad.family_cal = mf.id)*
                   power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 3.0)+
                   (select a4_cal from quad_family mf where quad.family_cal = mf.id)*
                   power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 4.0)+
                   (select a6_cal from quad_family mf where quad.family_cal = mf.id)*
                   power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 6.0)+
                   (select a8_cal from quad_family mf where quad.family_cal = mf.id)*
                   power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 8.0))/
                   (select l_eff_cal from quad_family mf where quad.family_cal = mf.id))
         where exists(select * from epics_channel where quad.channel=new.rowid);
---- update buncher amplitude ----
   update buncher set
      voltage_model = on_off*0.001*(c0_cal + c1_cal* (select value from epics_channel where buncher.amplitude_channel=id) +
                   c2_cal* power((select value from epics_channel where buncher.amplitude_channel=id), 2.0) +
                   c3_cal* power((select value from epics_channel where buncher.amplitude_channel=id), 3.0) +
                   c4_cal* power((select value from epics_channel where buncher.amplitude_channel=id), 4.0))
      where exists(select * from epics_channel where buncher.amplitude_channel=new.rowid);
---- update buncher phase ----
   update buncher set
      phase_model = (phase_offset_cal + (select value from epics_channel where
         buncher.phase_channel=id))*pi()/180.0
      where exists(select * from epics_channel where buncher.phase_channel=new.rowid);
---- update buncher on_off ----
   update buncher set
      on_off = (select case when (select value from epics_channel where buncher.on_off_channel = id) = 0 then 1 else 0 end)
      where exists(select * from epics_channel where buncher.on_off_channel=new.rowid);
   update epics_channel set
      value_txt = (select case when value = 1 then 'OFF' else 'ON' end) where rowid = new.rowid and value_type = 'buncher_on_off';
end;
CREATE TRIGGER update_buncher_phase_offset_cal AFTER UPDATE OF phase_offset_cal ON buncher
BEGIN
update buncher set phase_model = (phase_offset_cal + (select value from epics_channel where buncher.phase_channel = epics_channel.id))*pi()/180.0 where rowid = new.rowid;
END;
CREATE TRIGGER update_buncher_on_off AFTER UPDATE OF on_off ON buncher
begin
   update buncher set
      voltage_model = on_off*0.001*(c0_cal + c1_cal* (select value from epics_channel where buncher.amplitude_channel=id) +
                   c2_cal* power((select value from epics_channel where buncher.amplitude_channel=id), 2.0) +
                   c3_cal* power((select value from epics_channel where buncher.amplitude_channel=id), 3.0) +
                   c4_cal* power((select value from epics_channel where buncher.amplitude_channel=id), 4.0))
      where rowid = new.rowid;
end;
CREATE TRIGGER insert_epics_channel after insert on epics_channel
begin
   update epics_channel set update_time = datetime('now', 'localtime') where rowid = new.rowid;
end;
CREATE VIEW linac as
   select view_index, name, model_type, model_index from buncher union
   select view_index, name, model_type, model_index from quad union
   select view_index, name, model_type, model_index from dipole union
   select view_index, name, model_type, model_index from drift union
   select view_index, name, model_type, model_index from rotation union
   select view_index, name, model_type, model_index from caperture union
   select view_index, name, model_type, model_index from raperture union
   select view_index, name, model_type, model_index from diagnostics union
   select view_index, name, model_type, model_index from steerer union
   select view_index, name, model_type, model_index from spch_comp;
CREATE VIEW channel_list as
   select view_index, name, model_type, (select lcs_name from epics_channel where id = amplitude_channel) as channel1,
      (select lcs_name from epics_channel where id = phase_channel) as channel2,
      (select lcs_name from epics_channel where id = on_off_channel) as channel3,
      (select lcs_name from epics_channel where id = NULL) as channel4 from buncher union
   select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), NULL, NULL, NULL from quad union
   select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), NULL, NULL, NULL from steerer union
   select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), NULL, NULL, NULL from dipole;
COMMIT;
```

## B. dtl.db.sql

```sql
BEGIN TRANSACTION;
CREATE TABLE transit_time_factor(
  id integer primary key,
  name text,
  module_id integer,
  tank_id integer,
  beta_g double precision not null,
  beta_min double precision not null,
  ta0 double precision not null,
  ta1 double precision not null,
  ta2 double precision not null,
  ta3 double precision not null,
  ta4 double precision not null,
  ta5 double precision not null,
  sa0 double precision not null,
  sa1 double precision not null,
  sa2 double precision not null,
  sa3 double precision not null,
  sa4 double precision not null,
  sa5 double precision not null
);
INSERT INTO `transit_time_factor` VALUES (1,'01RG01',1,1,0.0434282647964,0.0379997316969,-3.44312389619,367.714397719,-14368.6202323,302792.548644,-3311809.30427,14775243.0784,0.778462792675,-17.2172818666,1233.14293132,-45144.7417055,689895.025677,-3814964.6654);
INSERT INTO `transit_time_factor` VALUES (2,'01RG02',1,2,0.0426509020117,0.0373195392602,-2.2712553929,245.483276262,-8895.96859878,177755.18157,-1874735.97444,8160319.99282,0.541028893121,16.1834049036,-620.291027311,2627.83877523,99203.6047446,-962476.918338);
INSERT INTO `transit_time_factor` VALUES (3,'01RG03',1,3,0.0435108344187,0.0369842092559,-0.505538711209,40.5735174235,683.450864134,-46310.2762171,743060.716185,-4054100.15905,-0.821685171921,177.724003542,-8274.55275347,183186.680165,-2022659.14565,8981180.96973);
INSERT INTO `transit_time_factor` VALUES (4,'01RG04',1,4,0.0457898902513,0.0377766594573,-1.52777834791,153.340378534,-4487.9528795,73497.3501018,-648284.024975,2408661.06016,-0.0424894964922,83.4021574745,-3693.50642646,73295.1424248,-716329.43486,2808545.25013);
INSERT INTO `transit_time_factor` VALUES (5,'01RG05',1,5,0.0477809593529,0.0370302434985,-1.39048434753,133.64393831,-3554.0454096,52365.8346816,-413146.896182,1369566.43934,-0.15921357838,94.4536686265,-4078.32611163,80038.2514117,-775848.795093,3018884.41387);
INSERT INTO `transit_time_factor` VALUES (6,'01RG06',1,6,0.0494081850785,0.0370561388089,-1.36699416479,129.298109873,-3338.00959508,47398.7398142,-357468.131941,1122520.73659,-0.17917314727,95.8262614085,-4098.32389684,79836.1636041,-768502.287897,2969618.21748);
INSERT INTO `transit_time_factor` VALUES (7,'01RG07',1,7,0.0507796463646,0.0368152436143,-1.37548123138,129.775077083,-3352.05716037,47652.6103056,-360134.468355,1134844.19346,-0.14562137535,91.9093039909,-3912.69991694,75505.5769741,-718634.875431,2742206.24714);
INSERT INTO `transit_time_factor` VALUES (8,'01RG08',1,8,0.053158054263,0.0372106379841,-1.41522633583,128.027654984,-3204.30139677,44079.5540336,-321953.194982,979344.998814,-0.182886643459,93.1367601524,-3827.3056168,71528.0399106,-659487.473674,2436988.40311);
INSERT INTO `transit_time_factor` VALUES (9,'01RG09',1,9,0.0551028038204,0.0371943925788,-1.43749362663,127.070195289,-3128.34710266,42353.3521496,-304681.402632,913713.322267,-0.19908384088,93.1342530377,-3744.92068044,68529.483265,-618377.629611,2234918.49483);
INSERT INTO `transit_time_factor` VALUES (10,'01RG10',1,10,0.0569099373407,0.0369914592715,-1.47111079194,128.110017248,-3142.95239724,42497.2438734,-306053.219199,921131.458931,-0.195829237398,91.5017308418,-3617.1059755,64973.5349377,-574852.08923,2035019.16919);
INSERT INTO `transit_time_factor` VALUES (11,'01RG11',1,11,0.0588707980439,0.0367942487774,-1.48709270803,126.844625925,-3059.67391185,40656.7647167,-287612.609768,849936.366424,-0.215489749068,91.8525650334,-3558.90893586,62720.9542789,-544189.503648,1887815.19247);
INSERT INTO `transit_time_factor` VALUES (12,'01RG12',1,12,0.0612129558643,0.0367277735186,-1.52926525786,125.771634114,-2956.67682644,38270.2894627,-263561.444058,757732.554243,-0.283550114813,95.9636493548,-3604.17500401,61918.1086526,-524143.409655,1773753.63984);
INSERT INTO `transit_time_factor` VALUES (13,'01RG13',1,13,0.0629321493805,0.0377592896283,-1.52456442612,123.786258975,-2863.29353134,36393.9961645,-245672.848313,691147.801271,-0.21244068047,88.234296973,-3271.08691002,55047.0082736,-455370.37901,1504202.67887);
INSERT INTO `transit_time_factor` VALUES (14,'01RG14',1,14,0.064845347944,0.0372860750678,-1.54874901806,123.633402696,-2829.99925291,35604.0223153,-237908.451238,662489.679574,-0.244601069934,89.9114153389,-3276.16369737,54303.3185091,-442378.043632,1438097.89437);
INSERT INTO `transit_time_factor` VALUES (15,'01RG15',1,15,0.0672512790499,0.0369882034774,-1.57266446768,121.082986426,-2685.71392567,32707.5144584,-211390.432224,569015.833733,-0.33147296072,95.3373252358,-3368.23643512,54491.312093,-433064.73501,1376816.6349);
INSERT INTO `transit_time_factor` VALUES (16,'01RG16',1,16,0.0688879029438,0.0378883466191,-1.57320084684,120.378858173,-2651.57284355,32036.4078744,-205208.914857,546900.640591,-0.248392580184,87.2039034355,-3053.24594587,48555.107447,-378907.668034,1178196.35476);
INSERT INTO `transit_time_factor` VALUES (17,'01RG17',1,17,0.0719550623252,0.0377764077207,-1.61829629972,116.875300029,-2453.4889033,28225.3419093,-172031.772084,436026.006488,-0.408995918627,97.3396882824,-3250.97329167,49934.7114492,-377349.00465,1136736.09528);
INSERT INTO `transit_time_factor` VALUES (18,'01RG18',1,18,0.073306384679,0.0366531923395,-1.60154257933,116.204281402,-2437.42944969,27976.9740214,-169892.888692,428466.026503,-0.41022345339,97.5385285832,-3261.27980864,50081.6715974,-377823.821574,1134642.8373);
INSERT INTO `transit_time_factor` VALUES (19,'01RG19',1,19,0.0761050249636,0.0361498868577,-1.62741546093,112.157415724,-2240.7134922,24420.3212431,-140401.783782,334354.769804,-0.601272219344,109.638896843,-3526.88505788,52697.5932426,-387668.010483,1135422.24615);
INSERT INTO `transit_time_factor` VALUES (20,'01RG20',1,20,0.0775885929725,0.0368545816619,-1.63771653767,113.342623828,-2283.0592029,25126.5170021,-146104.150446,352399.418911,-0.492052208094,100.175327976,-3204.12539933,47249.2472682,-342217.277063,985659.083348);
INSERT INTO `transit_time_factor` VALUES (21,'01RG21',1,21,0.0804785297501,0.0362153383875,-1.63932083305,107.725228036,-2050.18509908,21208.5330723,-115336.062076,258914.792634,-0.682445343372,111.968939214,-3456.44677239,49678.6771273,-351320.401727,987943.919065);
INSERT INTO `transit_time_factor` VALUES (22,'01RG22',1,22,0.0830509426958,0.0373729242131,-1.66658118998,106.173326835,-1972.20798501,19926.3584577,-105923.476582,232645.448766,-0.67218804836,108.396552457,-3250.18906393,45326.0413819,-310882.800018,847694.602347);
INSERT INTO `transit_time_factor` VALUES (23,'01RG23',1,23,0.0850433543929,0.036143425617,-1.639923815937,102.413247567,-1842.9669558,17923.5775453,-91075.7358036,189763.304835,-0.770617287898,114.767206106,-3402.77504713,47076.9939152,-320241.027353,865158.290658);
INSERT INTO `transit_time_factor` VALUES (24,'01RG24',1,24,0.0877768787966,0.0373051734886,-1.66879025698,100.503986156,-1755.40500074,16574.301385,-81799.3296307,165634.657433,-0.80111287507,113.525232319,-3256.99345942,43647.2216908,-287662.0297,752973.497696);
INSERT INTO `transit_time_factor` VALUES (25,'01RG25',1,25,0.0899559112658,0.0359823645063,-1.62741994166,95.3156128935,-1586.97508603,14102.0715872,-64448.2379788,118255.719012,-0.932802927475,121.697867286,-3445.25054307,45735.1938463,-298544.955454,773225.344538);
INSERT INTO `transit_time_factor` VALUES (26,'01RG26',1,26,0.0925276529138,0.0370110611655,-1.65206230959,94.0002990095,-1530.47262479,13317.7636768,-59727.9298398,107909.9139,-0.944854909862,119.400084391,-3287.70887551,42454.2210855,-269553.322398,678997.105839);
INSERT INTO `transit_time_factor` VALUES (27,'01RG27',1,27,0.0950242092148,0.0356340784555,-1.5867364838,86.5364283532,-1300.74045333,10107.3276307,-38276.6892857,52207.886823,-1.10879259847,129.092680136,-3497.37539958,44619.2765967,-279889.806772,695880.294096);
INSERT INTO `transit_time_factor` VALUES (28,'01RG28',1,28,0.0972562742055,0.0364711028271,-1.61487060366,86.921459545,-1306.4911972,10264.9181352,-40166.1301612,59605.9831322,-1.07971487811,124.736370146,-3313.31572437,41384.8646957,-254002.606741,617679.723978);
INSERT INTO `transit_time_factor` VALUES (29,'01RG29',1,29,0.0999595902109,0.0374848463291,-1.63410274254,85.2754802013,-1248.15351908,9549.68022215,-36395.869693,52637.3173897,-1.10387322795,123.058357631,-3178.77331398,38632.6074585,-230731.335538,545995.580918);
INSERT INTO `transit_time_factor` VALUES (30,'01RG30',1,30,0.102791795383,0.0359771283839,-1.52386048669,74.248538818,-933.876887499,5455.52184816,-10878.6681645,-9114.68970295,-1.3353910011,135.75871475,-3436.58513662,41149.0737937,-242223.710612,564506.315026);
INSERT INTO `transit_time_factor` VALUES (31,'01RG31',1,31,0.10409142781,0.0364319997336,-1.58107744747,79.5096470275,-1086.08126209,7509.18895865,-24244.6137277,24814.155529,-1.19726443222,126.650477196,-3199.69599429,38051.632546,-222048.302389,512476.609152);
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INSERT INTO `transit_time_factor` VALUES (32,'02RG01',2,1,0.108180302354,0.0459766285006,-1.36286352145,84.3025974143,-1398.23244225,12558.6636681,-59064.2844375,114222.917976,0.172381058164,37.9869186652,-1044.59569276,12093.2343605,-66927.0660481,145318.151116);
INSERT INTO `transit_time_factor` VALUES (33,'02RG02',2,2,0.11111253089,0.0472228256281,-1.37337695731,83.0059603844,-1348.06940855,11845.4871254,-54462.0237368,102901.385511,0.196983786505,35.8645875949,-970.219408397,10977.6264688,-59276.0839598,125483.978362);
INSERT INTO `transit_time_factor` VALUES (34,'02RG03',2,3,0.114048787211,0.0484707345648,-1.39193784388,81.9735530841,-1303.14387354,11199.0304041,-50324.2197779,92881.3865332,0.206818092761,34.5727889223,-916.047862126,10121.8789052,-53329.3845799,110110.155372);
INSERT INTO `transit_time_factor` VALUES (35,'02RG04',2,4,0.116987057426,0.0497194994061,-1.40194240277,80.6308292592,-1254.3540371,10541.1934035,-46293.5515323,83466.5084785,0.223713452232,33.0157780733,-859.501882642,9285.92902414,-47777.6841293,96281.1578961);
INSERT INTO `transit_time_factor` VALUES (36,'02RG05',2,5,0.119928012832,0.0539676057744,-1.37847427901,77.564602413,-1170.3915959,9532.03692549,-40555.8904615,70839.7624938,0.349836788326,25.4628170298,-674.587311246,7110.6699335,-35414.7053495,68942.0545765);
INSERT INTO `transit_time_factor` VALUES (37,'02RG06',2,6,0.122870310834,0.0522198821042,-1.42024893768,78.0467011393,-1164.49062642,9373.93612735,-39394.519936,67914.8107064,0.260365808557,30.0059252644,-756.433915122,7827.54462594,-38471.1349769,73971.4894466);
INSERT INTO `transit_time_factor` VALUES (38,'02RG07',2,7,0.125812608835,0.0534703587548,-1.43170010028,76.8341344906,-1122.49360121,8842.83886344,-36354.2309092,61291.4507973,0.270995979815,28.9537315472,-716.667713018,7257.03635792,-34872.7460094,65534.4275958);
INSERT INTO `transit_time_factor` VALUES (39,'02RG08',2,8,0.128755578134,0.054721120707,-1.4440169109,75.6771498084,-1082.76108138,8349.65463447,-33589.229687,55397.6439171,0.279125385859,28.0676264847,-681.775734734,6757.39509087,-31762.1935669,58366.5144717);
INSERT INTO `transit_time_factor` VALUES (40,'02RG09',2,9,0.131697204838,0.055971312056,-1.45727875607,74.5853477499,-1045.52059923,7896.04974027,-31099.5047919,50206.0881253,0.285727327632,27.2830690823,-650.106285958,6307.64518147,-29007.4093676,52139.5734044);
INSERT INTO `transit_time_factor` VALUES (41,'02RG10',2,10,0.134637488946,0.0605868700256,-1.42917872765,71.5181978856,-971.243077512,7102.98912914,-27091.7996265,42368.2707502,0.399879583359,21.1909579508,-516.395674105,4901.30558089,-21875.3745053,38084.4967213);
INSERT INTO `transit_time_factor` VALUES (42,'02RG11',2,11,0.137576430458,0.0584699829448,-1.48159189695,72.4197555221,-975.137380967,7069.27343691,-26713.0134482,41357.5338558,0.298999554965,25.83587123,-593.245006518,5523.79716005,-24352.7818471,41944.5844003);
INSERT INTO `transit_time_factor` VALUES (43,'02RG12',2,12,0.140512015482,0.0632304069671,-1.45626668763,69.5178283122,-906.917491591,6368.31380681,-23313.3093553,34983.7629689,0.405811369316,20.3097826097,-475.746865156,4331.94978329,-18538.7880154,30940.2349196);
INSERT INTO `transit_time_factor` VALUES (44,'02RG13',2,13,0.143444915315,0.0645502118919,-1.4705917783,68.5707633952,-877.01573183,6036.40844516,-21657.8585878,31848.9624505,0.405886120619,20.0182086786,-459.15546938,4095.76167506,-17171.7495682,28075.7450279);
INSERT INTO `transit_time_factor` VALUES (45,'02RG14',2,14,0.14637445866,0.0658685063969,-1.48471866535,67.670492017,-849.053798714,5731.72691879,-20166.593894,29078.2216628,0.408255484968,19.6595585962,-442.33971083,3868.52207241,-15899.2956908,25481.1668685);
INSERT INTO `transit_time_factor` VALUES (46,'02RG15',2,15,0.149299974217,0.0671849883979,-1.50047421842,66.813442124,-822.331858249,5444.96450018,-18788.9837332,26568.7968437,0.405357577508,19.5107740507,-429.318073268,3679.07405098,-14821.4999006,23286.3674082);
INSERT INTO `transit_time_factor` VALUES (47,'02RG16',2,16,0.152220790691,0.0646938360437,-1.55809724118,67.8181538006,-828.559019657,5445.3202864,-18641.794911,26135.5234064,0.289961546058,24.3430708511,-502.998686902,4231.48506221,-16865.2155279,26263.6378376);
INSERT INTO `transit_time_factor` VALUES (48,'02RG17',2,17,0.155136908081,0.0659331859343,-1.57469896559,66.9788747642,-802.889052706,5176.9460365,-17387.8316974,23916.1995488,0.28178717078,24.3260141874,-491.376098586,4052.38768026,-15842.7622165,24204.7881871);
INSERT INTO `transit_time_factor` VALUES (49,'02RG18',2,18,0.158047655088,0.0711214447896,-1.54926773701,64.3857865421,-748.822852751,4684.47865112,-15270.8839043,20398.8805903,0.388753109013,19.4114735999,-398.599397969,3217.33029185,-12229.4739143,18139.756739);
INSERT INTO `transit_time_factor` VALUES (50,'02RG19',2,19,0.160952360416,0.0724285621872,-1.5679076418,63.6848866005,-727.287452203,4467.54406065,-14300.5311023,18757.4662781,0.379347204081,19.5217306188,-391.225068683,3096.02904309,-11548.7047309,16815.769086);
INSERT INTO `transit_time_factor` VALUES (51,'02RG20',2,20,0.163851695362,0.0696369705288,-1.62768109575,64.6836199528,-733.684132706,4476.48566663,-14227.9488111,18520.3255356,0.252093806535,24.4685886658,-461.87619384,3593.3112241,-13278.904611,19191.0815265);
INSERT INTO `transit_time_factor` VALUES (52,'02RG21',2,21,0.166744988628,0.0750352448826,-1.60516004463,62.3022033557,-686.18820473,4065.69467086,-12554.5109361,15887.2545585,0.35633049256,19.873017463,-379.041491778,2884.13708797,-10365.6178885,14553.2146227);
INSERT INTO `transit_time_factor` VALUES (53,'02RG22',2,22,0.169631568917,0.0763342060126,-1.62361272011,61.6296679135,-666.777693243,3881.10422652,-11774.2500626,14639.4017809,0.344037838552,20.0795357167,-373.869496449,2791.25803791,-9853.37632217,13593.1368411);
INSERT INTO `transit_time_factor` VALUES (54,'02RG23',2,23,0.172511436228,0.073317360397,-1.6845950436,62.6096348829,-673.036644699,3892.98601457,-11733.3304236,14486.4217098,0.206851518805,25.1348582949,-442.766683919,3254.74468874,-11396.2866238,15622.0177956);
INSERT INTO `transit_time_factor` VALUES (55,'02RG24',2,24,0.175383919265,0.0789227636691,-1.66450034079,60.4245590016,-631.337793342,3549.88839858,-10405.61526,12502.8398758,0.3120998437,20.6931561555,-366.488183397,2633.60648244,-8970.96614525,11953.2924087);
INSERT INTO `transit_time_factor` VALUES (56,'02RG25',2,25,0.178249689323,0.0757561179624,-1.72412947104,61.3101911195,-636.279471078,3554.39076717,-10349.2797214,12347.2148941,0.167094852103,25.8562844389,-434.799221187,3080.18597147,-10416.521154,13802.7306656);
INSERT INTO `transit_time_factor` VALUES (57,'02RG26',2,26,0.181108075107,0.0814986337982,-1.70612936795,59.274294853,-598.445827043,3252.69727881,-9219.10221316,10713.2989078,0.275122405716,21.4380168823,-361.440531231,2502.59490196,-8235.4767501,10611.6877884);
INSERT INTO `transit_time_factor` VALUES (58,'02RG27',2,27,0.183958405318,0.0781823222601,-1.76515758862,60.1017027984,-602.691749851,3254.63629545,-9164.32760154,10576.614194,0.122814838912,26.6800139791,-428.746196763,2929.98407213,-9579.89721553,12283.9441832);
INSERT INTO `transit_time_factor` VALUES (59,'02RG28',2,28,0.186802022551,0.084060910148,-1.75680813748,58.3158054892,-568.946438065,2989.77591238,-8196.2637989,9215.83815362,0.213392680624,22.8398925735,-364.50494223,2429.38066469,-7724.45401086,9630.82431401);
INSERT INTO `transit_time_factor` VALUES (60,'02RG29',2,29,0.189606033218,0.0805825641176,-1.71993713845,53.1210915589,-483.5086153,2390.65718213,-6209.65222415,6653.463783,-0.292223394677,37.7850293619,-535.043898456,3415.7780282,-10604.3629864,13004.9505792);
INSERT INTO `transit_time_factor` VALUES (61,'02RG30',2,30,0.19238453457,0.0865730405566,-1.73559888686,52.5884506033,-471.105686485,2292.53587172,-5860.9228243,6181.22340449,-0.168012033402,32.8683718438,-458.613112827,2853.49818561,-8618.5696361,10284.6908718);
INSERT INTO `transit_time_factor` VALUES (62,'02RG31',2,31,0.195155651648,0.0878200432414,-1.74840096761,52.0396434417,-459.172458629,2200.88843527,-5542.30589029,5757.88924892,-0.176328404769,32.7653550171,-450.137373483,2759.88231178,-8215.85058436,9663.81306462);
INSERT INTO `transit_time_factor` VALUES (63,'02RG32',2,32,0.19791938445,0.0841157383911,-1.76454523904,51.5402900473,-447.766377411,2113.26566537,-5240.30620532,5361.36104482,-0.344102284415,37.9994636875,-512.305527422,3126.7383186,-9289.98311906,10908.1941225);
INSERT INTO `transit_time_factor` VALUES (64,'02RG33',2,33,0.200675061679,0.0903037777555,-1.78337138535,51.135573918,-437.831663226,2036.75981112,-4978.73133049,5021.73541584,-0.217543043082,33.1906862028,-440.699575263,2622.29676931,-7584.10584074,8670.58981867);
INSERT INTO `transit_time_factor` VALUES (65,'02RG34',2,34,0.203422683335,0.0915402075008,-1.79966778807,50.6533008059,-427.126490534,1956.98833779,-4712.05201747,4682.04730029,-0.240055260295,33.4455776395,-436.651372744,2560.1914212,-7300.21913061,8230.34622569);
INSERT INTO `transit_time_factor` VALUES (66,'02RG35',2,35,0.206162249419,0.0876189560029,-1.81133827569,50.0250165375,-414.769141352,1868.35132946,-4422.74424908,4320.66817221,-0.417879415269,38.7682944413,-497.548547154,2906.60324131,-8278.31761199,9323.43868417);
INSERT INTO `transit_time_factor` VALUES (67,'02RG36',2,36,0.208893088631,0.0940018898841,-1.83300900405,49.7334556726,-406.974753295,1809.95260232,-4231.23035053,4083.0248061,-0.288542578881,34.0266364828,-429.703144072,2447.70001342,-6788.61741608,7447.85176558);
INSERT INTO `transit_time_factor` VALUES (68,'02RG37',2,37,0.211615872271,0.095227142522,-1.84852529462,49.2482110169,-396.928207651,1738.87272789,-4004.85626328,3807.92956966,-0.314698670022,34.355116146,-426.78577738,2396.81296765,-6557.73028696,7099.1840974);
INSERT INTO `transit_time_factor` VALUES (69,'02RG38',2,38,0.214329257743,0.0964481659842,-1.86240905075,48.773719664,-387.466265911,1673.28135734,-3799.47736034,3562.19716372,-0.332890274471,34.4833900714,-421.960117263,2337.62002523,-6311.72218187,6744.22768208);
INSERT INTO `transit_time_factor` VALUES (70,'02RG39',2,39,0.217033245046,0.0976649602706,-1.87766875501,48.2963888811,-377.921505087,1607.72920079,-3596.60129609,3322.50229336,-0.360758731027,34.8437595182,-419.606509427,2292.79341858,-6109.78649537,6444.81060721);
INSERT INTO `transit_time_factor` VALUES (71,'02RG40',2,40,0.219728505478,0.0988778274652,-1.89326152274,47.84018819,-368.863177842,1546.43331006,-3409.89508596,3105.42901568,-0.389302056835,35.208760754,-417.342919888,2249.50813125,-5916.76153186,6161.90536576);
INSERT INTO `transit_time_factor` VALUES (72,'02RG41',2,41,0.222414367742,0.0945261062905,-1.89342778746,46.9247324718,-354.557175055,1455.83997323,-3142.97821247,2802.10719414,-0.5853882754,40.6384261593,-475.191679231,2556.31686467,-6724.86436639,7004.78012395);
INSERT INTO `transit_time_factor` VALUES (73,'02RG42',2,42,0.225090831838,0.0956636035312,-1.90642047825,46.412399411,-345.28773922,1395.96114436,-2967.47964105,2605.27995449,-0.618373199679,41.0467675673,-472.81215132,2510.27184307,-6520.97873232,6708.88247625);
INSERT INTO `transit_time_factor` VALUES (74,'02RG43',2,43,0.227757226468,0.0967968212488,-1.91785168975,45.8633317367,-335.789213079,1335.89585632,-2794.39510152,2414.15372914,-0.652524240613,41.4746129043,-470.714720648,2466.96387772,-6329.46565673,6433.12876223);
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INSERT INTO `transit_time_factor` VALUES (75,'02RG44',2,44,0.230413551631,0.103686098234,-1.95074609462,45.9569700729,-333.890270939,1319.74783016,-2745.40355857,2360.45637622,-0.513608648945,36.8193086442,-410.440002779,2098.44704816,-5248.19194194,5202.51915613);
INSERT INTO `transit_time_factor` VALUES (76,'02RG45',2,45,0.233059807328,0.0990504181146,-1.94023045286,44.8153837301,-318.096255445,1226.69988045,-2487.238828,2082.98275584,-0.716232181833,42.1948080328,-465.406320504,2378.18847041,-5955.03715828,5909.67922223);
INSERT INTO `transit_time_factor` VALUES (77,'02RG46',2,46,0.235696664857,0.100171082564,-1.95068103037,44.273398613,-309.281424242,1173.67213809,-2341.52150636,1929.38690732,-0.752474988192,42.6405997376,-463.665309912,2339.8789553,-5789.46542125,5678.43344063);
INSERT INTO `transit_time_factor` VALUES (78,'02RG47',2,47,0.238322781623,0.10128718219,-1.96094474165,43.7395736266,-300.766189836,1123.34538925,-2205.60028554,1788.54364605,-0.78925710702,43.0856719298,-461.948318126,2302.56532827,-5630.11830202,5458.50106866);
INSERT INTO `transit_time_factor` VALUES (79,'02RG48',2,48,0.240938157624,0.108422170931,-2.000951304,44.0473039473,-301.615819067,1123.97632652,-2205.40206066,1789.52421167,-0.645591737769,38.4668229343,-404.842878937,1969.28477316,-4696.56536108,4444.05281614);
INSERT INTO `transit_time_factor` VALUES (80,'02RG49',2,49,0.243543464159,0.103505972267,-1.97836407448,42.6165501026,-283.626983898,1024.58788267,-1944.58058608,1523.52388903,-0.866195071357,44.0288880377,-459.248261879,2234.59777066,-5339.47296471,5061.24813093);
INSERT INTO `transit_time_factor` VALUES (81,'02RG50',2,50,0.246137358632,0.110761811385,-2.02330118851,43.0673555284,-286.187629264,1034.98621751,-1971.0558214,1552.62388119,-0.719199062514,39.3962361458,-403.237413101,1914.94124051,-4463.80366946,4130.56849338);
INSERT INTO `transit_time_factor` VALUES (82,'02RG51',2,51,0.24872118364,0.105706503047,-1.99388369069,41.5052317492,-267.362024483,933.923579087,-1712.38736004,1294.98252168,-0.941109296929,44.8901759475,-456.00225983,2167.49025849,-5064.25302021,4696.00996584);
INSERT INTO `transit_time_factor` VALUES (83,'02RG52',2,52,0.251294267883,0.10680006385,-2.00098848698,40.9446576253,-259.416144489,890.726240823,-1604.34297588,1191.0797132,-0.982025481404,45.3800215101,-454.982567442,2137.92967834,-4940.60837285,4532.36250303);
INSERT INTO `transit_time_factor` VALUES (84,'02RG53',2,53,0.253855940065,0.107888774528,-2.00734374169,40.376858525,-251.561100484,848.754225582,-1501.02948962,1093.27756451,-1.02316637762,45.8609681297,-453.895735646,2108.68847643,-4820.30950112,4375.19519145);
INSERT INTO `transit_time_factor` VALUES (85,'02RG54',2,54,0.256406871483,0.115383092167,-2.06130949934,41.074741466,-256.893254606,873.945123857,-1565.15285103,1159.23122645,-0.87063035696,41.234475281,-400.295203551,1815.59983445,-4050.90094523,3591.41163412);
INSERT INTO `transit_time_factor` VALUES (86,'02RG55',2,55,0.258946390839,0.110052216107,-2.01679779415,39.195895734,-235.873596078,767.086695162,-1304.59119354,911.394800776,-1.10772754214,46.8423154609,-452.024840852,2053.7223766,-4595.72265296,4085.33329076);
INSERT INTO `transit_time_factor` VALUES (87,'02RG56',2,56,0.261475169432,0.111126947009,-2.02070061848,38.6035150309,-228.237809369,728.256761934,-1213.23714145,828.640507819,-1.15083039861,47.3345917554,-451.157562683,2027.53776714,-4490.06048649,3950.91418239);
INSERT INTO `transit_time_factor` VALUES (88,'02RG57',2,57,0.263991864665,0.118796339099,-2.08386569831,39.5447910538,-236.087977407,765.830613444,-1306.45128254,920.860180639,-0.99059585375,42.6419122345,-398.627299066,1749.52679034,-3782.98345748,3252.68429497);
INSERT INTO `transit_time_factor` VALUES (89,'02RG58',2,58,0.266497819135,0.119924018611,-2.09039606162,39.0322026133,-229.405582771,732.214352844,-1228.4275064,851.081739845,-1.03267965769,43.1318552005,-398.283401181,1729.40477416,-3701.54362967,3151.1355355);
INSERT INTO `transit_time_factor` VALUES (90,'02RG59',2,59,0.268992361542,0.114321753655,-2.02918206107,36.8330401245,-206.313011794,620.342504298,-967.259801308,612.821056546,-1.27996155712,48.754714984,-448.309473311,1951.63627208,-4192.31178375,3580.60038293);
INSERT INTO `transit_time_factor` VALUES (91,'02RG60',2,60,0.271475491889,0.115377084053,-2.02902093659,36.1930220649,-198.799851535,584.545440524,-887.919741478,545.052832278,-1.32482960593,49.2418721444,-447.517195932,1928.06641284,-4100.75425473,3468.55511295);
INSERT INTO `transit_time_factor` VALUES (92,'02RG61',2,61,0.273947210173,0.123276244578,-2.10340795388,37.4042612031,-209.271766049,634.168128647,-1007.22962929,658.567168376,-1.16207884533,44.6065488507,-397.431888588,1672.6392968,-3475.08558518,2873.63016977);
INSERT INTO `transit_time_factor` VALUES (93,'02RG62',2,62,0.276406845098,0.124383080294,-2.10656861503,36.8587785462,-202.794212414,603.599795434,-940.278080091,601.974673233,-1.20583569429,45.0895860784,-397.109237206,1654.39487609,-3404.07065039,2788.43112793);
INSERT INTO `transit_time_factor` VALUES (94,'02RG63',2,63,0.278855067962,0.118513403884,-2.02768253067,34.3415790608,-177.758238481,487.412762467,-679.518903975,372.97435326,-1.45986646079,50.6641194782,-445.066825682,1860.43391309,-3844.09309732,3160.77848075);
INSERT INTO `transit_time_factor` VALUES (95,'02RG64',2,64,0.281291878764,0.126581345444,-2.11203635697,35.7848496637,-190.338615999,546.034764704,-816.782444144,499.765075062,-1.29270399405,46.0235212374,-396.313174936,1618.65557353,-3268.06075687,2627.94406632);
INSERT INTO `transit_time_factor` VALUES (96,'02RG65',2,65,0.283717277504,0.127672774877,-2.11251975246,35.2121365352,-183.956946078,517.219737561,-756.160075391,450.504928609,-1.33814334732,46.5148807173,-396.145162456,1602.34712033,-3205.35633719,2554.36316278);
INSERT INTO `transit_time_factor` VALUES (97,'02RG66',2,66,0.286130592885,0.121605501976,-2.0185466629,32.4282167822,-157.323596858,397.488260711,-495.223342672,227.748408164,-1.5998113497,52.0907140955,-442.866250923,1798.01459922,-3612.84483052,2890.6805617);
INSERT INTO `transit_time_factor` VALUES (98,'03RG01',3,1,0.288568746283,0.129855935827,-2.15106414608,37.1908325444,-204.385835268,610.41683618,-958.988286124,622.675231379,-1.02400427904,39.9122701967,-341.321030556,1371.14242808,-2713.76338935,2135.63826836);
INSERT INTO `transit_time_factor` VALUES (99,'03RG02',3,2,0.291016969146,0.123682211887,-2.09316377928,35.2578243901,-185.558128217,525.862430838,-776.059405311,468.053202473,-1.27622716024,45.2566234955,-385.64850025,1554.51458988,-3090.56375015,2442.31538808);
INSERT INTO `transit_time_factor` VALUES (100,'03RG03',3,3,0.29345310865,0.124717571176,-2.09450471053,34.722451287,-179.630457952,499.500340441,-721.634746774,424.765036405,-1.32128158203,45.7476274015,-385.614514262,1539.63451763,-3033.33542259,2375.97218831);
INSERT INTO `transit_time_factor` VALUES (101,'03RG04',3,4,0.295877836093,0.133145026242,-2.16374366108,35.7455357741,-187.699922385,534.608282737,-799.410755067,493.058210235,-1.15338107747,41.3737774297,-342.216565063,1335.77048682,-2572.672743,1971.57785199);
INSERT INTO `transit_time_factor` VALUES (102,'03RG05',3,5,0.298291151474,0.126773739376,-2.0932048949,33.5946473788,-167.575727536,447.016829435,-615.220931577,341.556192801,-1.41229098357,46.7184590964,-385.492820801,1510.6043476,-2923.55255052,2250.50564666);
INSERT INTO `transit_time_factor` VALUES (103,'03RG06',3,6,0.300692383495,0.135311572573,-2.17106851107,34.8091648726,-177.29161785,488.888355707,-706.299710877,419.889413283,-1.23993784911,42.31436072,-342.61431316,1312.7869526,-2484.33681127,1871.53969904);
INSERT INTO `transit_time_factor` VALUES (104,'03RG07',3,7,0.303082203456,0.136386991555,-2.17213069897,34.2984136305,-171.86202229,465.585163231,-659.70767872,383.888137743,-1.28491889425,42.8028149264,-342.966507473,1302.28364544,-2443.3756789,1825.34821997);
INSERT INTO `transit_time_factor` VALUES (105,'03RG08',3,8,0.305460611354,0.137457275109,-2.17286249715,33.7927259293,-166.580810723,443.276390916,-615.806058762,350.509738533,-1.32962443913,43.2744899575,-343.175137822,1291.37427805,-2402.23109921,1779.68667986);
INSERT INTO `transit_time_factor` VALUES (106,'03RG09',3,9,0.307826264595,0.138521819068,-2.17357181247,33.2968812224,-161.47109188,421.981030342,-574.47047355,319.520937193,-1.37468249805,43.7445667642,-343.382751261,1280.706545,-2362.32578534,1735.76402877);
INSERT INTO `transit_time_factor` VALUES (107,'03RG10',3,10,0.310180505775,0.131826714954,-2.07802330545,30.7197258334,-138.752204771,327.668250451,-384.566221536,169.718002493,-1.64349311679,49.070449349,-384.902583976,1442.30029596,-2674.79973877,1975.10714077);
INSERT INTO `transit_time_factor` VALUES (108,'03RG11',3,11,0.312523334893,0.13282241733,-2.0713951979,30.1021613177,-132.917466571,304.485233343,-341.420101063,138.759256067,-1.69087297304,49.5370800347,-384.804051531,1429.57606633,-2629.54636763,1926.22857734);
INSERT INTO `transit_time_factor` VALUES (109,'03RG12',3,12,0.314854080652,0.133812984277,-2.06713913971,29.54859578,-127.709720358,284.166660688,-304.503472102,113.020924201,-1.73714026384,49.9796302012,-384.555142495,1416.56413729,-2584.54342335,1878.31645575);
INSERT INTO `transit_time_factor` VALUES (110,'03RG13',3,13,0.317172743052,0.134798415797,-2.05982727671,28.9418352743,-122.157378659,262.755473873,-265.870027751,86.2053805637,-1.7844759373,50.4280660741,-384.336572271,1403.84439681,-2540.75502821,1832.01949675);
INSERT INTO `transit_time_factor` VALUES (111,'03RG14',3,14,0.319479993389,0.143765997025,-2.16490821433,30.719827306,-136.386944152,321.596804097,-386.721243103,183.803400897,-1.60276440633,46.0341314007,-344.157522803,1229.85289574,-2178.08760624,1538.1915125);
INSERT INTO `transit_time_factor` VALUES (112,'03RG15',3,15,0.32177448907,0.136754157855,-2.04294444648,27.7175490751,-111.231219905,221.477005454,-192.883325758,36.6157283217,-1.87961998913,51.3132283635,-383.87997074,1379.15431965,-2456.93808023,1744.49552657);
INSERT INTO `transit_time_factor` VALUES (113,'03RG16',3,16,0.324057572689,0.14582590771,-2.15574940425,29.6471202401,-126.591796398,284.236600362,-319.951266981,137.705302084,-1.69583543643,46.9297117524,-344.393337897,1210.70573656,-2111.01380831,1468.35109575);
INSERT INTO `transit_time_factor` VALUES (114,'03RG17',3,17,0.326329244247,0.138689928805,-2.02316643109,26.4818514455,-100.55612971,182.232478128,-125.363965659,-7.93901513087,-1.97516200036,52.1775195706,-383.341357386,1355.13318589,-2377.16271487,1662.63538322);
INSERT INTO `transit_time_factor` VALUES (115,'03RG18',3,18,0.328588161147,0.147864672516,-2.14508632452,28.5859818742,-117.180905172,249.252324624,-259.016645941,96.7497774208,-1.78831796162,47.790545416,-344.439605931,1191.67898116,-2046.44125361,1402.46553559);
INSERT INTO `transit_time_factor` VALUES (116,'03RG19',3,19,0.330835665986,0.148876049694,-2.13793852304,28.0357917121,-112.439905561,231.980268815,-229.490749173,77.2798537007,-1.83481316005,48.2125288542,-344.406664716,1182.20663255,-2014.96920124,1370.81504124);
INSERT INTO `transit_time_factor` VALUES (117,'03RG20',3,20,0.333071758763,0.141555497474,-1.98925488115,24.6311535479,-85.1633532969,127.523840169,-34.4832095446,-65.6279172197,-2.11737859999,53.4085071084,-382.208775264,1319.65931829,-2263.35644107,1548.62036266);
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INSERT INTO `transit_time_factor` VALUES (118,'03RG21',3,21,0.335295096883,0.142500416175,-1.97516636074,23.9821132593,-79.936892093,109.364024969,-4.9320984692,-84.0000822192,-2.16490169068,53.8072983242,-381.783600579,1308.10593665,-2227.1330436,1512.97019784);
INSERT INTO `transit_time_factor` VALUES (119,'03RG22',3,22,0.337507022942,0.151878160324,-2.11254699895,26.3725625818,-98.549423245,182.657904951,-147.269688713,24.4597636001,-1.97496076268,49.4554519779,-344.24923049,1154.75827995,-1925.42560111,1282.15520396);
INSERT INTO `transit_time_factor` VALUES (120,'03RG23',3,23,0.339707536939,0.152868391622,-2.10309177935,25.8205094945,-94.076006016,167.19376056,-122.191422351,8.82406003482,-2.02149041341,49.8544106101,-344.116745759,1145.67908604,-1896.65048201,1254.20667546);
INSERT INTO `transit_time_factor` VALUES (121,'03RG24',3,24,0.341895967576,0.153853185409,-2.09342706471,25.2730667298,-89.6862978909,152.166306953,-98.0657082797,-6.05529804076,-2.06774631357,50.2473835582,-343.975864605,1136.78134379,-1868.68370672,1227.23336183);
INSERT INTO `transit_time_factor` VALUES (122,'03RG25',3,25,0.344072314855,0.146230733813,-1.91622310243,21.4544993064,-60.2976657537,43.5240936898,98.0442168779,-145.10121291,-2.35392288711,55.3331739836,-379.82122659,1263.12007756,-2090.01664996,1380.84023284);
INSERT INTO `transit_time_factor` VALUES (123,'03RG26',3,26,0.346237250071,0.14715083128,-1.89838376501,20.7903136462,-55.3099384653,27.2082265074,122.998490933,-159.578352868,-2.40074540127,55.6925799218,-379.220965945,1251.97328366,-2057.18386821,1349.94256525);
INSERT INTO `transit_time_factor` VALUES (124,'03RG27',3,27,0.348390773226,0.148066078621,-1.88115563685,20.152160534,-50.6043780888,12.1723294785,145.312933918,-172.008193304,-2.44744941659,56.0457154111,-378.602846654,1240.97170964,-2025.11075928,1320.00161834);
INSERT INTO `transit_time_factor` VALUES (125,'03RG28',3,28,0.350532213022,0.148976190534,-1.86268397729,19.5002223742,-45.8505546186,-2.91322654749,167.588111387,-184.373110825,-2.4940473618,56.3929396401,-377.969957201,1230.12507832,-1993.80383184,1291.00703641);
INSERT INTO `transit_time_factor` VALUES (126,'03RG29',3,29,0.352662240756,0.15869800834,-2.03119145007,22.4357073104,-67.9984038254,80.6871332035,12.4813425339,-71.5587398085,-2.29927514469,52.1200952346,-342.80070669,1092.97786236,-1736.15109819,1102.73641168);
INSERT INTO `transit_time_factor` VALUES (127,'03RG30',3,30,0.354780856428,0.159651385393,-2.01715640062,21.8682338136,-63.8276947711,67.4150295865,32.2651423522,-82.8035482095,-2.34462209062,52.4673085898,-342.442301523,1084.29739496,-1710.98503745,1079.7508867);
INSERT INTO `transit_time_factor` VALUES (128,'03RG31',3,31,0.356887388741,0.160599324934,-2.00232698445,21.2977393516,-59.7032551808,54.4823783226,51.2402474626,-93.390612634,-2.39042826466,52.8158001947,-342.103642315,1075.82536513,-1686.52592592,1057.53680867);
INSERT INTO `transit_time_factor` VALUES (129,'03RG32',3,32,0.358983180291,0.152567851624,-1.78362117644,16.907013549,-27.5570812232,-59.1453489449,247.69927096,-226.896384366,-2.67766405189,57.6963228628,-375.09382314,1187.42676949,-1874.22390189,1182.59916957);
INSERT INTO `transit_time_factor` VALUES (130,'03RG33',3,33,0.361067559778,0.1624804019,-1.97040415791,20.1450057982,-51.5315331662,29.2799356752,87.5959785202,-113.291524189,-2.48113712877,53.4845689808,-341.28466772,1058.8302163,-1638.5374284,1014.56022793);
INSERT INTO `transit_time_factor` VALUES (131,'03RG34',3,34,0.363139855907,0.163412935158,-1.95398411616,19.5751275692,-47.5689629012,17.2895504609,104.528332752,-122.323987104,-2.52632701204,53.8114061565,-340.858243809,1050.51131542,-1615.37133614,994.041847506);
INSERT INTO `transit_time_factor` VALUES (132,'03RG35',3,35,0.365201411271,0.15521059979,-1.71719598852,14.9455359987,-14.3303177163,-98.1250528969,300.669238785,-253.367018345,-2.81263321164,58.5875790837,-372.595340175,1156.09151023,-1790.01890953,1108.49929623);
INSERT INTO `transit_time_factor` VALUES (133,'03RG36',3,36,0.367251554574,0.156081910694,-1.69448643807,14.3013636214,-10.0878724013,-110.321322332,316.747762419,-261.065774643,-2.85663851347,58.8648106731,-371.689330962,1145.76012462,-1762.9216273,1085.05543991);
INSERT INTO `transit_time_factor` VALUES (134,'03RG37',3,37,0.369290285815,0.166180628617,-1.90090009252,17.8532750214,-35.8823414235,-17.3297372002,152.330494477,-147.160664367,-2.6600037098,54.7427616307,-339.378885603,1025.75968922,-1548.14412713,935.493769403);
INSERT INTO `transit_time_factor` VALUES (135,'03RG38',3,38,0.371318276292,0.167093224332,-1.88132735447,17.2658047672,-31.9932641246,-28.6171387848,167.594019232,-154.902806639,-2.70393531013,55.0358369795,-338.807506968,1017.51904259,-1526.34938514,916.845211329);
INSERT INTO `transit_time_factor` VALUES (136,'04RG01',4,1,0.373336868601,0.158668169156,-1.63979380798,12.7436952373,-0.286525279385,-136.560772238,347.583057028,-272.873017669,-2.96251711182,59.3368148801,-367.242072269,1111.19560595,-1679.28710251,1015.54313295);
INSERT INTO `transit_time_factor` VALUES (137,'04RG02',4,2,0.375345391444,0.159521791364,-1.61479379353,12.0972274082,3.78542805294,-147.780855083,361.67328973,-279.189382891,-3.00553823182,59.5884303875,-366.269701503,1101.28821957,-1654.27905992,994.539189228);
INSERT INTO `transit_time_factor` VALUES (138,'04RG03',4,3,0.377343173523,0.160370848747,-1.58921208718,11.4505309617,7.80955488583,-158.730821893,375.208936305,-285.112287549,-3.0481916154,59.8316854011,-365.26718028,1091.43485143,-1629.68465671,974.050239599);
INSERT INTO `transit_time_factor` VALUES (139,'04RG04',4,4,0.37932954354,0.170698294593,-1.81623266532,15.3024177175,-19.4829510193,-63.0032724324,210.651265109,-174.282477026,-2.85129802956,55.816934053,-334.688382791,981.04623602,-1437.58992412,843.967683754);
INSERT INTO `transit_time_factor` VALUES (140,'04RG05',4,5,0.381304501496,0.171587025673,-1.79510898788,14.7300797011,-15.8978493883,-72.8465826867,223.133434782,-180.106193438,-2.89421571869,56.0838425044,-334.059370482,973.284635815,-1417.95645037,827.742513415);
INSERT INTO `transit_time_factor` VALUES (141,'04RG06',4,6,0.383269389986,0.172471225494,-1.7730905558,14.1508305352,-12.304909884,-82.6392358568,235.469613791,-185.824817701,-2.93658863818,56.3389752442,-333.370010875,965.436851801,-1398.41494413,811.747396179);
INSERT INTO `transit_time_factor` VALUES (142,'04RG07',4,7,0.385222195116,0.163719432924,-1.75043143552,13.5693674697,-8.73889804187,-92.2533539027,247.427640278,-191.272618681,-3.21593857678,60.7411665757,-361.104951814,1053.01793342,-1535.98825346,897.375737389);
INSERT INTO `transit_time_factor` VALUES (143,'04RG08',4,8,0.38716493078,0.164545095582,-1.72756693121,12.9933579516,-5.24985666649,-101.532503298,258.771060021,-196.310696708,-3.25715343295,60.9522719044,-360.020746338,1043.62367946,-1513.61554026,879.399962961);
INSERT INTO `transit_time_factor` VALUES (144,'04RG09',4,9,0.389096254383,0.165365908113,-1.70395294915,12.41215295,-1.75651647906,-110.777228457,270.038783601,-201.314707884,-3.29796424426,61.155724305,-358.913823876,1034.29537029,-1491.62074112,861.858212427);
INSERT INTO `transit_time_factor` VALUES (145,'04RG10',4,10,0.391016837221,0.17595757675,-1.6809128652,11.8485545913,1.58544783817,-119.458351328,280.338463491,-205.68944578,-3.10440558943,57.3178374193,-330.573994165,935.158911125,-1324.45829053,752.164810281);
INSERT INTO `transit_time_factor` VALUES (146,'04RG11',4,11,0.392927350594,0.176817307767,-1.65587381194,11.260922115,5.0413504322,-128.414694752,290.984602757,-210.250449512,-3.14497919989,57.5351123212,-329.745655982,927.446287297,-1306.2795196,737.847568384);
INSERT INTO `transit_time_factor` VALUES (147,'04RG12',4,12,0.394826451905,0.16780124206,-1.63148123391,10.6917678281,8.34458483095,-136.826656788,300.740922063,-214.265109924,-3.41789972735,61.7205155203,-355.457672313,1006.67767903,-1427.76987542,811.672717601);
INSERT INTO `transit_time_factor` VALUES (148,'04RG13',4,13,0.396714812452,0.168603795292,-1.60623525604,10.1168777177,11.6493553221,-145.174662972,310.339267218,-218.169933553,-3.45715131813,61.8948836387,-354.26605776,997.597148158,-1407.16618128,795.706842083);
INSERT INTO `transit_time_factor` VALUES (149,'04RG14',4,14,0.398592432235,0.179366594506,-1.58013524871,9.53554537205,14.9648642662,-153.503242831,319.872989866,-222.036379467,-3.26647835879,58.1793483486,-327.360381865,905.33387896,-1254.66921443,697.612595654);
INSERT INTO `transit_time_factor` VALUES (150,'04RG15',4,15,0.400459982552,0.170195492585,-1.55395018305,8.96092849022,18.2035848601,-161.527135663,328.886107716,-225.578291667,-3.53405744111,62.2173787214,-351.801200303,979.578061554,-1366.92381678,764.882066636);
INSERT INTO `transit_time_factor` VALUES (151,'04RG16',4,16,0.402316792106,0.170984636645,-1.52810851064,8.4003586551,21.3163270278,-169.084430622,337.115824616,-228.626924817,-3.57216719289,62.3725141729,-350.567690169,970.74114182,-1347.39585944,750.056190986);
INSERT INTO `transit_time_factor` VALUES (152,'04RG17',4,17,0.404163532193,0.181873589487,-1.50107986619,7.82599586917,24.5012689384,-176.855986525,345.695454234,-231.916612987,-3.38423394602,58.7578791627,-324.76164449,883.509152668,-1205.26681993,659.928540533);
INSERT INTO `transit_time_factor` VALUES (153,'04RG18',4,18,0.405999531516,0.172549800894,-1.7437909772,11.6422297697,-0.32492739786,-96.9766982178,219.577974734,-153.775029117,-3.6465502154,62.6553746921,-348.015317019,953.175753586,-1309.17553949,721.360228068);
INSERT INTO `transit_time_factor` VALUES (154,'04RG19',4,19,0.407824790075,0.173325535782,-1.72108744301,11.1348556079,2.4912437099,-103.864638228,227.308856461,-156.90122784,-3.68311262807,62.7868346151,-346.717223841,944.505876582,-1290.5632816,707.531061343);
INSERT INTO `transit_time_factor` VALUES (155,'04RG20',4,20,0.409640650466,0.18433829271,-1.6981187492,10.6297198468,5.26966346959,-110.599708571,234.789089272,-159.881415192,-3.49892966162,59.2845013436,-322.043734856,862.245095767,-1158.38661078,624.874462362);
INSERT INTO `transit_time_factor` VALUES (156,'04RG21',4,21,0.411446441391,0.174864737591,-1.67394543161,10.1127792442,8.09171640889,-117.410313043,242.330994498,-162.883042089,-3.75500031544,63.0306830497,-344.077550071,927.3585664,-1254.20939685,680.778149218);
INSERT INTO `transit_time_factor` VALUES (157,'04RG22',4,22,0.413241491552,0.185958671198,-1.65043568339,9.61282374419,10.7850847152,-123.792462034,249.210552893,-165.495811436,-3.57308681934,59.5984604538,-320.109621734,848.165131753,-1128.10464236,602.626946041);
INSERT INTO `transit_time_factor` VALUES (158,'04RG23',4,23,0.415027143545,0.176386536007,-1.62666589166,9.11483323631,13.4464619053,-130.050715359,255.898115591,-168.005325625,-3.82485153011,63.2459736484,-341.369920442,910.446851215,-1218.97684448,655.192585571);
INSERT INTO `transit_time_factor` VALUES (159,'04RG24',4,24,0.416802726071,0.17714115858,-1.60189759991,8.60907424091,16.1234265314,-136.294913183,262.510460653,-170.454266279,-3.85887124146,63.3403154187,-339.973697116,902.024994391,-1201.69165887,642.776747406);
INSERT INTO `transit_time_factor` VALUES (160,'04RG25',4,25,0.418568239132,0.188355707609,-1.57741924923,8.11275683463,18.7280606011,-142.310093203,268.798898172,-172.736239387,-3.6815195227,60.0298304817,-317.143964251,827.569303345,-1084.68331045,571.214448844);

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INSERT INTO `transit_time_factor` VALUES (161,'04RG26',4,26,0.420324354024,0.189145959311,-1.55251748901,7.61710684018,21.3013809707,-148.183362713,274.84090937,-174.867847763,-3.71651197952,60.156211147,-316.092081949,820.688647018,-1070.48270369,561.091630336);
INSERT INTO `transit_time_factor` VALUES (162,'04RG27',4,27,0.422070399449,0.179379919766,-1.52614761992,7.10480815008,23.954765341,-154.26260513,281.164927186,-177.161844284,-3.95868264084,63.5943662012,-335.766638118,877.329652397,-1151.73729735,607.315736316);
INSERT INTO `transit_time_factor` VALUES (163,'04RG28',4,28,0.423807046707,0.190713171018,-1.50080706979,6.61449163905,26.4545730617,-159.856560148,286.769045124,-179.048365911,-3.78560514258,60.3982193482,-313.995643402,807.22382309,-1042.96571547,541.637063445);
INSERT INTO `transit_time_factor` VALUES (164,'04RG29',4,29,0.425534295796,0.180852075713,-1.47598464715,6.13764220121,28.855883815,-165.135117426,291.905231323,-180.672220063,-4.02250378575,63.7284657574,-332.880093016,861.121766245,-1119.63703769,584.893589844);
INSERT INTO `transit_time_factor` VALUES (165,'04RG30',4,30,0.427252146717,0.181582162355,-1.45009411804,5.65104887743,31.2926652737,-170.484354995,297.127811415,-182.349553879,-4.05369273052,63.7860794078,-331.417425368,853.102713453,-1103.94470513,574.034484057);
CREATE TABLE rf_module(
   id integer primary key,
   name text,
   view_index double precision unique,
   on_off double precision not null default 1.0,
   phase_shift_tmp double precision not null default 0.0,
   phase_offset_cal double precision not null default 0.0,
   operating_amplitude_fraction_tmp double precision not null default 1.0,
   voltage_tmp double precision not null default 0.0,
   voltage_cal double precision not null default 0.01,
   amplitude_scale_cal double precision not null default 1.0,
   amplitude_tilt_cal double precision not null default 0.0,
   amplitude_design double precision not null default 1.0,
   frequency_design double precision,
   cell_length_betalambda_design double precision not null default 1.0,
   diode_id integer,
   amplitude_channel integer references epics_channel(id)
         on delete restrict,
   phase_channel integer references epics_channel(id)
         on delete restrict,
   delay_channel integer references epics_channel(id)
         on delete restrict,
   model_type text not null default 'rf_module'
);
INSERT INTO `rf_module` VALUES (1,'01LN',0.0,1.0,208.0,0.0,0.980767640608889,0.5232,0.012,15.3742087861,0.0,1.606,201.25,1.0,1,13,14,15,'rf_module');
INSERT INTO `rf_module` VALUES (2,'02LN',66.0,1.0,-147.0,-100.0,0.959718741802309,0.8136,0.012,15.7,0.0,2.4,201.25,1.0,2,16,17,18,'rf_module');
INSERT INTO `rf_module` VALUES (3,'03LN',202.0,1.0,214.855331447,150.855331447,0.962960929024889,0.792,0.012,15.4116891833,0.0,2.4,201.25,1.0,3,19,20,21,'rf_module');
INSERT INTO `rf_module` VALUES (4,'04LN',282.0,1.0,206.0,50.0,0.970455732973786,0.8112,0.012,15.8,0.0,2.4,201.25,1.0,4,22,23,24,'rf_module');
CREATE TABLE rf_gap(
   id integer primary key,
   name text,
   view_index double precision unique,
   frequency_model double precision,
   length_model double precision,
   amplitude_model double precision not null default 0.0,
   amplitude_tmp double precision not null default 0.0,
   amplitude_tilt_tmp double precision not null default 0.0,
   amplitude_design double precision not null default 0.0,
   ref_phase_model double precision not null default 0.0,
   ref_phase_design double precision not null default 0.0,
   beam_phase_shift_model double precision not null default 0.0,
   energy_out_model double precision not null default 0.0,
   beta_center_model double precision not null default 0.0,
   dg_model double precision,
   t_model double precision,
   tp_model double precision,
   sp_model double precision,
   module_id integer,
   tank_id integer,
   cell_id integer,
   model_index integer unique,
   model_type text not null default 'dtl_gap'
);
INSERT INTO `rf_gap` VALUES (1,'01RG01',2.0,201.25,0.034668,1.70634428797146,1.70634428797146,0.0,1.73980483992326,-0.411757265331997,-0.453785605518526,3.63028484414821,0.812832291142269,0.040679080483477,0.00257870984928687,0.701308267780434,0.072820714657826,0.0477220034324026,1,1,1,133,'dtl_gap');
INSERT INTO `rf_gap` VALUES (2,'01RG02',4.0,201.25,0.028315,1.59184483682664,1.59184483682664,0.0,1.6230601122182,-0.411757265331997,-0.453785605518526,3.63028484414821,0.879743517166122,0.0423365904055705,0.000777192511924818,0.727303208803338,0.0709682978576746,0.0484978827042139,1,1,2,135,'dtl_gap');
INSERT INTO `rf_gap` VALUES (3,'01RG03',6.0,201.25,0.029596,1.48747169643466,1.48747169643466,0.0,1.51664026711892,-0.411757265331997,-0.453785605518526,3.63028484414821,0.950893056890789,0.0440316389241208,0.00167037995929047,0.742126074390865,0.0691716731109034,0.0492370341923739,1,1,3,137,'dtl_gap');
INSERT INTO `rf_gap` VALUES (4,'01RG04',8.0,201.25,0.032991,1.63765159415573,1.63765159415573,0.0,1.66976511698431,-0.411757265331997,-0.453785605518526,3.63028484414821,1.02643914431345,0.0457636658913439,0.000586150994380132,0.748555779735957,0.0674368983965354,0.049936883288402,1,1,4,139,'dtl_gap');
INSERT INTO `rf_gap` VALUES (5,'01RG05',10.0,201.25,0.035957,1.74178562137686,1.74178562137686,0.0,1.77594116002391,-0.411757265331997,-0.453785605518526,3.63028484414821,1.1065393145092,0.0475320770466789,0.00076346890242940,0.756037486680269,0.0657692249411308,0.0505954432062194,1,1,5,141,'dtl_gap');
INSERT INTO `rf_gap` VALUES (6,'01RG06',12.0,201.25,0.038381,1.69925107870627,1.69925107870627,0.0,1.73257253639743,-0.411757265331997,-0.453785605518526,3.63028484414821,1.19135289254037,0.0493362879404028,0.000642941363470142,0.76533803951906,0.064170783771089,0.0512125107587766,1,1,6,143,'dtl_gap');
INSERT INTO `rf_gap` VALUES (7,'01RG07',14.0,201.25,0.034164,1.65600808097193,1.65600808097193,0.0,1.68848156526028,-0.411757265331997,-0.453785605518526,3.63028484414821,1.28104225244099,0.0511757636500081,0.000305488230570816,0.775848554152541,0.0626422314370493,0.0517886860768389,1,1,7,145,'dtl_gap');
INSERT INTO `rf_gap` VALUES (8,'01RG08',16.0,201.25,0.031447,1.71190368497358,1.71190368497358,0.0,1.74547325390016,-0.411757265331997,-0.453785605518526,3.63028484414821,1.37576643475698,0.0530499527275154,0.000691999654061619,0.779723009318463,0.0611920584314118,0.0523206484797559,1,1,8,147,'dtl_gap');
INSERT INTO `rf_gap` VALUES (9,'01RG09',18.0,201.25,0.034344,1.72052192477326,1.72052192477326,0.0,1.75426049304105,-0.411757265331997,-0.453785605518526,3.63028484414821,1.47568986189618,0.0549583330500643,0.000729901235778949,0.785914441052611,0.059818322463372,0.0528105765969623,1,1,9,149,'dtl_gap');
INSERT INTO `rf_gap` VALUES (10,'01RG10',20.0,201.25,0.037036,1.69609495857143,1.69609495857143,0.0,1.72935452633658,-0.411757265331997,-0.453785605518526,3.63028484414821,1.58097719773522,0.0569004268521121,0.000640050867001287,0.792632628112357,0.0585256658300343,0.0532574263293079,1,1,10,151,'dtl_gap');
INSERT INTO `rf_gap` VALUES (11,'01RG11',22.0,201.25,0.039957,1.71032517177042,1.71032517177042,0.0,1.74386378684823,-0.411757265331997,-0.453785605518526,3.63028484414821,1.69179839433375,0.0588758069689568,0.000639797444150467,0.798059659360492,0.0573129041229445,0.0536631407608883,1,1,11,153,'dtl_gap');
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INSERT INTO `rf_gap` VALUES (12,'01RG12',24.0,201.25,0.043446,1.73968498427124,1.73968498427124,0.0,1.7737993304828,-0.411757265331997,-0.453785605518526,3.63028484414821,1.80832605819245,0.0608841021748665,0.000898929914638669,0.800757411304237,0.0561825681313894,0.0540279913816169,1,1,12,155,'dtl_gap');
INSERT INTO `rf_gap` VALUES (13,'01RG13',26.0,201.25,0.046007,1.73759918034892,1.73759918034892,0.0,1.77167262499624,-0.411757265331996,-0.453785605518526,3.63028484414821,1.93073667358517,0.0629249822312413,0.000669711697334101,0.807162166580476,0.0551362577927319,0.0543529124040325,1,1,13,157,'dtl_gap');
INSERT INTO `rf_gap` VALUES (14,'01RG14',28.0,201.25,0.048857,1.81706042078033,1.81706042078033,0.0,1.85269206032557,-0.411757265331997,-0.453785605518526,3.63028484414821,2.05921416277083,0.0649981952463412,0.000560863015218196,0.812083213494409,0.0541716087848618,0.0546407191953031,1,1,14,159,'dtl_gap');
INSERT INTO `rf_gap` VALUES (15,'01RG15',30.0,201.25,0.045141,1.81595928006314,1.81595928006314,0.0,1.85156932679359,-0.411757265331997,-0.453785605518526,3.63028484414821,2.19394774882416,0.0671035597656077,0.000795036419258186,0.813709077131257,0.0532896679294753,0.0548928888926654,1,1,15,161,'dtl_gap');
INSERT INTO `rf_gap` VALUES (16,'01RG16',32.0,201.25,0.040279,1.81688590207776,1.81688590207776,0.0,1.85251411939915,-0.411757265331996,-0.453785605518526,3.63028484414821,2.33513395950048,0.0692409588342312,0.000432342767899758,0.819947673395783,0.0524895697727298,0.0551119242643594,1,1,16,163,'dtl_gap');
INSERT INTO `rf_gap` VALUES (17,'01RG17',34.0,201.25,0.044848,1.8599636158493,1.8599636158493,0.0,1.89643656543825,-0.411757265331997,-0.453785605518526,3.63028484414821,2.48297687621395,0.0714103445627075,0.00111133839970859,0.817201078743514,0.0517708547977581,0.0553004259850909,1,1,17,165,'dtl_gap');
INSERT INTO `rf_gap` VALUES (18,'01RG18',36.0,201.25,0.046861,1.84231835665538,1.84231835665538,0.0,1.87844529159997,-0.411757265331996,-0.453785605518526,3.63028484414821,2.63769036462497,0.073611748752969,0.00048852580861015,0.824905586665334,0.0511305803784975,0.0554621058177019,1,1,18,167,'dtl_gap');
INSERT INTO `rf_gap` VALUES (19,'01RG19',38.0,201.25,0.05103,1.88734353655037,1.88734353655037,0.0,1.92435339259221,-0.411757265331997,-0.453785605518526,3.63028484414821,2.79949900562666,0.0758452912013022,0.000919840670957885,0.823715059070759,0.0505648621079931,0.0556010258885726,1,1,19,169,'dtl_gap');
INSERT INTO `rf_gap` VALUES (20,'01RG20',40.0,201.25,0.05324,1.8773549037718,1.8773549037718,0.0,1.91416888775641,-0.411757265331997,-0.453785605518526,3.63028484414821,2.96863512949312,0.0781111449013833,0.000347661198845026,0.830344049378483,0.0500747321438253,0.0557202244470501,1,1,20,171,'dtl_gap');
INSERT INTO `rf_gap` VALUES (21,'01RG21',42.0,201.25,0.057545,1.9698729456572,1.9698729456572,0.0,2.0085011618391,-0.411757265331997,-0.453785605518526,3.63028484414821,3.1453435625564,0.0804095529642046,0.000798828903634186,0.828607508675995,0.049654146279591,0.0558249415372172,1,1,21,173,'dtl_gap');
INSERT INTO `rf_gap` VALUES (22,'01RG22',44.0,201.25,0.061377,1.97228663913445,1.97228663913445,0.0,2.01096218662965,-0.411757265331997,-0.453785605518526,3.63028484414821,3.32987888100862,0.0827408171633575,0.0009891243639829,0.828773189538145,0.0493010113652249,0.0559198340688686,1,1,22,175,'dtl_gap');
INSERT INTO `rf_gap` VALUES (23,'01RG23',46.0,201.25,0.064345,2.00975150810266,2.00975150810266,0.0,2.04916172280618,-0.411757265331997,-0.453785605518526,3.63028484414821,3.52250763685029,0.085105294379605,0.000722791866249133,0.8323170449139,0.049009059097167,0.0560104833967551,1,1,23,177,'dtl_gap');
INSERT INTO `rf_gap` VALUES (24,'01RG24',48.0,201.25,0.068417,2.03186709923776,2.03186709923776,0.0,2.07171098954317,-0.411757265331997,-0.453785605518526,3.63028484414821,3.72350428633171,0.0875033650715977,0.00098353520871618,0.831634862523321,0.0487766777785466,0.0561027931754189,1,1,24,179,'dtl_gap');
INSERT INTO `rf_gap` VALUES (25,'01RG25',50.0,201.25,0.071663,2.04835241438118,2.04835241438118,0.0,2.08851957341242,-0.411757265331997,-0.453785605518526,3.63028484414821,3.93315490699135,0.089935440608681,0.00080604860848509,0.834131329144541,0.0485948936214584,0.056202964221762,1,1,25,181,'dtl_gap');
INSERT INTO `rf_gap` VALUES (26,'01RG26',52.0,201.25,0.075494,2.10658954122006,2.10658954122006,0.0,2.14789870097287,-0.411757265331997,-0.453785605518526,3.63028484414821,4.15175060349556,0.0924019242635921,0.000895498563421167,0.834454230263471,0.0484606122941726,0.0563184273676687,1,1,26,183,'dtl_gap');
INSERT INTO `rf_gap` VALUES (27,'01RG27',54.0,201.25,0.079213,2.07840334758795,2.07840334758795,0.0,2.11915799028184,-0.411757265331997,-0.453785605518526,3.63028484414821,4.37958865797777,0.094903192356753,0.000903076321463154,0.835213963696013,0.048365690708554,0.0564563263226138,1,1,27,185,'dtl_gap');
INSERT INTO `rf_gap` VALUES (28,'01RG28',56.0,201.25,0.082538,2.10052192572182,2.10052192572182,0.0,2.14171210259115,-0.411757265331996,-0.453785605518526,3.63028484414821,4.61696662015671,0.0974395661173625,0.000687489373367511,0.837385354532366,0.048303616907029,0.0566253355093149,1,1,28,187,'dtl_gap');
INSERT INTO `rf_gap` VALUES (29,'01RG29',58.0,201.25,0.086565,2.15648139605883,2.15648139605883,0.0,2.19876890995305,-0.411757265331996,-0.453785605518526,3.63028484414821,4.86417995093429,0.100011269649336,0.0007965079392385,0.836991506803549,0.0482658416837708,0.05683359952676,1,1,29,189,'dtl_gap');
INSERT INTO `rf_gap` VALUES (30,'01RG30',60.0,201.25,0.090784,2.18107002746783,2.18107002746783,0.0,2.22383971203797,-0.411757265331997,-0.453785605518526,3.63028484414821,5.12151426337729,0.102618394574137,0.000974973601185889,0.835863052631,0.0482440050877302,0.0570909177446045,1,1,30,191,'dtl_gap');
INSERT INTO `rf_gap` VALUES (31,'01RG31',62.0,201.25,0.079445,2.09348259379464,2.09348259379464,0.0,2.13453473291079,-0.411757265331997,-0.453785605518526,3.63028484414182,0.105260834947839,-1.465108413552e-05,0.842406991657755,0.0482285074362207,0.057407970289869,1,1,31,193,'dtl_gap');
INSERT INTO `rf_gap` VALUES (32,'02RG01',68.0,201.25,0.0720931013843,2.26186513067968,2.26186513067968,0.0,2.3568,-0.358232013372981,-0.453785605518526,-2.56563400043166,5.69184205149053,0.108067592392841,0.000968575775210994,0.871413098131942,0.0501705203884145,2,2,1,199,'dtl_gap');
INSERT INTO `rf_gap` VALUES (33,'02RG02',70.0,201.25,0.0764580504252,2.27015710060885,2.27015710060885,0.0,2.36544,-0.358232013372981,-0.453785605518526,-2.56563400043166,6.0033747699044,0.1109977728261,0.000967330829747484,0.873440162113801,0.0374071163389808,0.0502158796897015,2,2,2,201,'dtl_gap');
INSERT INTO `rf_gap` VALUES (34,'02RG03',72.0,201.25,0.0808282574272,2.28029173052229,2.28029173052229,0.0,2.376,-0.358232013372981,-0.453785605518526,-2.56563400043166,6.32380684186708,0.113931482916846,0.000968479655569086,0.875257790874719,0.0369461632135273,0.0502675683950282,2,2,3,203,'dtl_gap');
INSERT INTO `rf_gap` VALUES (35,'02RG04',74.0,201.25,0.0852025684964,2.2973363353767,2.2973363353767,0.0,2.39376,-0.358232013372981,-0.453785605518526,-2.56563400043166,6.65310600641284,0.116867948058615,0.000969337079551451,0.876877582605235,0.036537177655806,0.0503257168723186,2,2,4,205,'dtl_gap');
INSERT INTO `rf_gap` VALUES (36,'02RG05',76.0,201.25,0.0895798556101,2.30240365033341,2.30240365033341,0.0,2.39904,-0.358232013372981,-0.453785605518526,-2.56563400043166,6.99123235451439,0.119806411012299,0.000969902720284015,0.878299656771874,0.0361802453519841,0.0503908422641764,2,2,5,207,'dtl_gap');
INSERT INTO `rf_gap` VALUES (37,'02RG06',78.0,201.25,0.0939590376252,2.31115628525865,2.31115628525865,0.0,2.40816,-0.358232013372981,-0.453785605518526,-2.56563400043166,7.33814372052043,0.122746146009016,0.000970194191440878,0.879537622957959,0.0358718769035242,0.0504629909670559,2,2,6,209,'dtl_gap');
INSERT INTO `rf_gap` VALUES (38,'02RG07',80.0,201.25,0.0983390700653,2.28466804798491,2.28466804798491,0.0,2.38056,-0.358232013372981,-0.453785605518526,-2.56563400043166,7.69379169447772,0.125686451894108,0.000970214069323294,0.880593813532419,0.0356115676737588,0.0505426310284614,2,2,7,211,'dtl_gap');
INSERT INTO `rf_gap` VALUES (39,'02RG08',82.0,201.25,0.102718942151,2.33902651752059,2.33902651752059,0.0,2.4372,-0.358232013372981,-0.453785605518526,-2.56563400043166,8.05812413284429,0.128626650133869,0.000969972601637856,0.881476296968987,0.0353972912069872,0.0506300261312625,2,2,8,213,'dtl_gap');
INSERT INTO `rf_gap` VALUES (40,'02RG09',84.0,201.25,0.107097698614,2.30562830530587,2.30562830530587,0.0,2.4024,-0.358232013372981,-0.453785605518526,-2.56563400043166,8.43108706429375,0.131566099457985,0.000969484934628895,0.882196697784736,0.0352260658785999,0.0507252452022602,2,2,9,215,'dtl_gap');
INSERT INTO `rf_gap` VALUES (41,'02RG10',86.0,201.25,0.111474417043,2.29940932785899,2.29940932785899,0.0,2.39592,-0.358232013372981,-0.453785605518526,-2.56563400043166,8.8126211575706,0.134504180655103,0.000968753520423205,0.882757316986598,0.0350973967441595,0.0508288258182822,2,2,10,217,'dtl_gap');
INSERT INTO `rf_gap` VALUES (42,'02RG11',88.0,201.25,0.115848224252,2.28489838048294,2.28489838048294,0.0,2.3808,-0.358232013372981,-0.453785605518526,-2.56563400043166,9.20266664905045,0.137440307557045,0.000967795542645709,0.883171206215364,0.0350709099775219,0.0509407335088209,2,2,11,219,'dtl_gap');
INSERT INTO `rf_gap` VALUES (43,'02RG12',90.0,201.25,0.120218287702,2.29756666787473,2.29756666787473,0.0,2.394,-0.358232013372981,-0.453785605518526,-2.56563400043166,9.6011598225954,0.14037392128123,0.000966615706105101,0.883442344285075,0.034956661961028,0.0510614435471519,2,2,12,221,'dtl_gap');
INSERT INTO `rf_gap` VALUES (44,'02RG13',92.0,201.25,0.124583812909,2.29157802292588,2.29157802292588,0.0,2.38776,-0.358232013372981,-0.453785605518526,-2.56563400043166,10.0080353284755,0.143304488493571,0.000965224949278696,0.883579253440465,0.0349414898504657,0.0511911834251851,2,2,13,223,'dtl_gap');
INSERT INTO `rf_gap` VALUES (45,'02RG14',94.0,201.25,0.128944059749,2.30816196278423,2.30816196278423,0.0,2.40504,-0.358232013372981,-0.453785605518526,-2.56563400043166,10.423227821397,0.146231512350291,0.000963637916723243,0.883593023796002,0.0349595280018049,0.0513299532490363,2,2,14,225,'dtl_gap');
INSERT INTO `rf_gap` VALUES (46,'02RG15',96.0,201.25,0.133298327088,2.29940932785899,2.29940932785899,0.0,2.39592,-0.358232013372981,-0.453785605518526,-2.56563400043166,10.8466693990747,0.149154522180884,0.000961860193882469,0.883488358683982,0.035009640079913,0.0514782318419195,2,2,15,227,'dtl_gap');
INSERT INTO `rf_gap` VALUES (47,'02RG16',98.0,201.25,0.137645955322,2.33142554508551,2.33142554508551,0.0,2.42928,-0.358232013372981,-0.453785605518526,-2.56563400043166,11.2782921140874,0.152073075195925,0.000959903879383726,0.883274558618433,0.0350894409341693,0.0516361463988736,2,2,16,229,'dtl_gap');
INSERT INTO `rf_gap` VALUES (48,'02RG17',100.0,201.25,0.141986330746,2.32543690013667,2.32543690013667,0.0,2.42304,-0.358232013372981,-0.453785605518526,-2.56563400043166,11.7180277973196,0.154986759415403,0.00095779298069861,0.88295967239231,0.0351968830895937,0.0518039088621961,2,2,17,231,'dtl_gap');
INSERT INTO `rf_gap` VALUES (49,'02RG18',102.0,201.25,0.146318881016,2.32175158016815,2.32175158016815,0.0,2.4192,-0.358232013372981,-0.453785605518526,-2.56563400043166,12.1658081093484,0.157895190627348,0.000955495742724679,0.882551078848315,0.0353301023712652,0.0519818071711581,2,2,18,233,'dtl_gap');
INSERT INTO `rf_gap` VALUES (50,'02RG19',104.0,201.25,0.150643082322,2.30470697531374,2.30470697531374,0.0,2.40144,-0.358232013372981,-0.453785605518526,-2.56563400043166,12.6215663370238,0.160798017198169,0.000953066711799835,0.882058899030682,0.0354864673069247,0.0521697693094003,2,2,19,235,'dtl_gap');
INSERT INTO `rf_gap` VALUES (51,'02RG20',106.0,201.25,0.154958449945,2.31875725769372,2.31875725769372,0.0,2.41608,-0.358232013372981,-0.453785605518526,-2.56563400043166,13.0852354614904,0.163694913737194,0.000950498725137559,0.881488700148696,0.0356646119123308,0.0523682833902539,2,2,20,237,'dtl_gap');
INSERT INTO `rf_gap` VALUES (52,'02RG21',108.0,201.25,0.159264541085,2.32543690013667,2.32543690013667,0.0,2.42304,-0.358232013372981,-0.453785605518526,-2.56563400043166,13.5567503845659,0.16658558299459,0.00094780386856346,0.880849651329255,0.0358621618053443,0.052577348324446,2,2,21,239,'dtl_gap');
INSERT INTO `rf_gap` VALUES (53,'02RG22',110.0,201.25,0.163560952224,2.34847014993992,2.34847014993992,0.0,2.44704,-0.358232013372981,-0.453785605518526,-2.56563400043166,14.0360467987442,0.169469754089411,0.000944989588841896,0.880148064041958,0.0360775517353764,0.0527974180559336,2,2,22,241,'dtl_gap');
INSERT INTO `rf_gap` VALUES (54,'02RG23',112.0,201.25,0.167847323314,2.31691459770946,2.31691459770946,0.0,2.41416,-0.358232013372981,-0.453785605518526,-2.56563400043166,14.5230632004594,0.172347185321813,0.000942068414903057,0.879393294860999,0.0363083376962762,0.0530283658938883,2,2,23,243,'dtl_gap');
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INSERT INTO `rf_gap` VALUES (55,'02RG24',114.0,201.25,0.172123335575,2.30931362527439,2.30931362527439,0.0,0.2.40624,-0.358232013372981,-0.453785605518526,-2.56563400043166,15.017399936514,0.175217662695275,0.000093048958133082,0.878592337695117,0.0365527495393664,0.0532704712394851,2,2,24,245,'dtl_gap');
INSERT INTO `rf_gap` VALUES (56,'02RG25',116.0,201.25,0.176388709387,2.31115628525865,2.31115628525865,0.0,0.2.40816,-0.358232013372981,-0.453785605518526,-2.56563400043166,15.5200202552579,0.178080998502103,0.000935941176448623,0.877752928574153,0.0368087934795401,0.0535238108809123,2,2,25,247,'dtl_gap');
INSERT INTO `rf_gap` VALUES (57,'02RG26',118.0,201.25,0.180643201797,2.35238580240648,2.35238580240648,0.0,0.2.45112,-0.358232013372981,-0.453785605518526,-2.56563400043166,16.0293494436556,0.180937029648574,0.000932752679826443,0.876881679976672,0.0370748249303777,0.0537888472372894,2,2,26,249,'dtl_gap');
INSERT INTO `rf_gap` VALUES (58,'02RG27',120.0,201.25,0.184886609755,2.37357639222547,2.37357639222547,0.0,0.2.4732,-0.358232013372981,-0.453785605518526,-2.56563400043166,16.5471767294483,0.183785619827534,0.00092949486474401,0.875986907947261,0.0373486462940609,0.0540653090667117,2,2,27,251,'dtl_gap');
INSERT INTO `rf_gap` VALUES (59,'02RG28',122.0,201.25,0.189118766598,2.34340283498321,2.34340283498321,0.0,0.2.44176,-0.358232013372981,-0.453785605518526,-2.56563400043166,17.0719542209617,0.186626657158434,0.000926174655648806,0.875075005907716,0.0376286891865784,0.0543537879043121,2,2,28,253,'dtl_gap');
INSERT INTO `rf_gap` VALUES (60,'02RG29',124.0,201.25,0.149737686252,2.34570615996353,2.34570615996353,0.0,0.2.44416,-0.358232013372981,-0.453785605518526,-2.56563400043166,17.5946932680096,0.189428599995961,0.000904397047148882,0.858782428373726,0.0420724293829927,0.0546203636714227,2,2,29,255,'dtl_gap');
INSERT INTO `rf_gap` VALUES (61,'02RG30',126.0,201.25,0.110318283987,2.32405490514847,2.32405490514847,0.0,0.2.4216,-0.358232013372981,-0.453785605518526,-2.56563400043166,18.124597407675,0.192204817415641,0.00090144996168414,0.857979282482933,0.0423250894322619,0.0548219957627681,2,2,30,257,'dtl_gap');
INSERT INTO `rf_gap` VALUES (62,'02RG31',128.0,201.25,0.114442980579,2.28950503044359,2.28950503044359,0.0,0.2.3856,-0.358232013372981,-0.453785605518526,-2.56563400043166,18.6615922920458,0.194973716922347,0.000898405965172069,0.857112511930588,0.0425946208546662,0.055027248185274,2,2,31,259,'dtl_gap');
INSERT INTO `rf_gap` VALUES (63,'02RG32',130.0,201.25,0.118556417398,2.29180835542391,2.29180835542391,0.0,0.2.388,-0.358232013372981,-0.453785605518526,-2.56563400043166,19.2056035061594,0.197735057769038,0.000895271216730267,0.856185630200754,0.0428800872503085,0.0552356557097447,2,2,32,261,'dtl_gap');
INSERT INTO `rf_gap` VALUES (64,'02RG33',132.0,201.25,0.122658249772,2.31299894524291,2.31299894524291,0.0,0.2.41008,-0.358232013372981,-0.453785605518526,-2.56563400043166,19.7565554022566,0.200488608578087,0.000892049048392893,0.855200089586873,0.0431811025263245,0.0554468929483928,2,2,33,263,'dtl_gap');
INSERT INTO `rf_gap` VALUES (65,'02RG34',134.0,201.25,0.126748139334,2.2754547480636,2.2754547480636,0.0,0.2.37096,-0.358232013372981,-0.453785605518526,-2.56563400043166,20.3143703207893,0.20323414220438,0.000888741076759558,0.854156035099449,0.0434976302827094,0.0556606964061702,2,2,34,265,'dtl_gap');
INSERT INTO `rf_gap` VALUES (66,'02RG35',136.0,201.25,0.130825762869,2.28466804798491,2.28466804798491,0.0,0.2.38056,-0.358232013372981,-0.453785605518526,-2.56563400043166,20.8789710886853,0.205971441674766,0.000885353769252077,0.853057318373113,0.0438286428298478,0.0558766214432704,2,2,35,267,'dtl_gap');
INSERT INTO `rf_gap` VALUES (67,'02RG36',138.0,201.25,0.134890807118,2.29180835542391,2.29180835542391,0.0,0.2.388,-0.358232013372981,-0.453785605518526,-2.56563400043166,21.4502785723773,0.208700296698537,0.000881888465848917,0.85190389520692,0.044174513885415,0.0560944165342966,2,2,36,269,'dtl_gap');
INSERT INTO `rf_gap` VALUES (68,'02RG37',140.0,201.25,0.138942968931,2.28351638549474,2.28351638549474,0.0,0.2.37936,-0.358232013372981,-0.453785605518526,-2.56563400043166,22.0282133081281,0.21142050377203,0.000878349559021396,0.850698078563275,0.0445335463893301,0.05631372473548,2,2,37,271,'dtl_gap');
INSERT INTO `rf_gap` VALUES (69,'02RG38',142.0,201.25,0.142981956191,2.28397705049081,2.28397705049081,0.0,0.2.37984,-0.358232013372981,-0.453785605518526,-2.56563400043166,22.612694878221,0.214131866797505,0.00087474003734124,0.849441110535187,0.0449064909878882,0.0565342369689322,2,2,38,273,'dtl_gap');
INSERT INTO `rf_gap` VALUES (70,'02RG39',144.0,201.25,0.147007491341,2.30631930279997,2.30631930279997,0.0,0.2.40312,-0.358232013372981,-0.453785605518526,-2.56563400043166,23.2036432635692,0.216834199452338,0.000871065147292622,0.848136057064837,0.0452921685997024,0.0567555965235751,2,2,39,275,'dtl_gap');
INSERT INTO `rf_gap` VALUES (71,'02RG40',146.0,201.25,0.151019306494,2.33280754007371,2.33280754007371,0.0,0.2.43072,-0.358232013372981,-0.453785605518526,-2.56563400043166,23.8009770834012,0.219527321904585,0.000867326722196964,0.846783296198359,0.0456904796221389,0.0569775350716679,2,2,40,277,'dtl_gap');
INSERT INTO `rf_gap` VALUES (72,'02RG41',148.0,201.25,0.155017140403,2.31783592770159,2.31783592770159,0.0,0.2.41512,-0.358232013372981,-0.453785605518526,-2.56563400043166,24.4046140447837,0.222211058778793,0.000863527343178792,0.845383784053419,0.0461011704359933,0.0571997545305472,2,2,41,279,'dtl_gap');
INSERT INTO `rf_gap` VALUES (73,'02RG42',150.0,201.25,0.159000745754,2.3164539327134,2.3164539327134,0.0,0.2.41368,-0.358232013372981,-0.453785605518526,-2.56563400043166,25.0144725427063,0.224885244054334,0.000859672136174368,0.84394059416808,0.0465234192506929,0.0574219287413989,2,2,42,281,'dtl_gap');
INSERT INTO `rf_gap` VALUES (74,'02RG43',152.0,201.25,0.162969886762,2.28075239551835,2.28075239551835,0.0,0.2.37648,-0.358232013372981,-0.453785605518526,-2.56563400043166,25.6304703151507,0.227549719448785,0.000855763702532218,0.842454772184708,0.0469569492215781,0.0576437783231946,2,2,43,283,'dtl_gap');
INSERT INTO `rf_gap` VALUES (75,'02RG44',154.0,201.25,0.166924338116,2.30125198784325,2.30125198784325,0.0,0.2.39784,-0.358232013372981,-0.453785605518526,-2.56563400043166,26.2525251430793,0.230204333712197,0.000851805644878993,0.840928221025056,0.0474021517517452,0.0578650194486233,2,2,44,285,'dtl_gap');
INSERT INTO `rf_gap` VALUES (76,'02RG45',156.0,201.25,0.170863881901,2.28374671799278,2.28374671799278,0.0,0.2.3796,-0.358232013372981,-0.453785605518526,-2.56563400043166,26.880553797857,0.232848940558024,0.00084799753366125,0.839361317747709,0.0478562272180799,0.0580853705904267,2,2,45,287,'dtl_gap');
INSERT INTO `rf_gap` VALUES (77,'02RG46',158.0,201.25,0.174788313334,2.28512871298097,2.28512871298097,0.0,0.2.38104,-0.358232013372981,-0.453785605518526,-2.56563400043166,27.5144742487929,0.23548340251586,0.000843751100788257,0.837757294319951,0.0483210122294682,0.0583045676705863,2,2,46,289,'dtl_gap');
INSERT INTO `rf_gap` VALUES (78,'02RG47',160.0,201.25,0.178697436611,2.29203868792195,2.29203868792195,0.0,0.2.38824,-0.358232013372981,-0.453785605518526,-2.56563400043166,28.1542034577287,0.238107588143536,0.000839661185552583,0.836116322643014,0.0487955628037043,0.05852223345549,2,2,47,291,'dtl_gap');
INSERT INTO `rf_gap` VALUES (79,'02RG48',162.0,201.25,0.182591065001,2.28328605299671,2.28328605299671,0.0,0.2.37912,-0.358232013372981,-0.453785605518526,-2.56563400043166,28.799658841011,0.240721372088294,0.000835533595868849,0.834440423020298,0.049279338810193,0.0587384173844355,2,2,48,293,'dtl_gap');
INSERT INTO `rf_gap` VALUES (80,'02RG49',164.0,201.25,0.18646902238,2.28029173052229,2.28029173052229,0.0,0.2.376,-0.358232013372981,-0.453785605518526,-2.56563400043166,29.4507579429777,0.243324636118946,0.000831371260832441,0.832731074429048,0.049771946020586,0.0589525640604354,2,2,49,295,'dtl_gap');
INSERT INTO `rf_gap` VALUES (81,'02RG50',166.0,201.25,0.190331142169,2.27775807304393,2.27775807304393,0.0,0.2.37336,-0.358232013372981,-0.453785605518526,-2.56563400043166,30.1074184957359,0.245917268410704,0.00082717704817939,0.830989735255499,0.0502729955418238,0.059164529273212,2,2,50,297,'dtl_gap');
INSERT INTO `rf_gap` VALUES (82,'02RG51',168.0,201.25,0.194177267174,2.28927469794556,2.28927469794556,0.0,0.2.38536,-0.358232013372981,-0.453785605518526,-2.56563400043166,30.7695584788943,0.248499163440768,0.000822953764493946,0.829217845357723,0.0507843755545783,0.2,2,51,299,'dtl_gap');
INSERT INTO `rf_gap` VALUES (83,'02RG52',170.0,201.25,0.198007249424,2.2959543403885,2.2959543403885,0.0,0.2.39232,-0.358232013372981,-0.453785605518526,-2.56563400043166,31.4370961762739,0.251070221875438,0.00081870415379102,0.827416824348559,0.0512988880533228,0.0595809720023155,2,2,52,301,'dtl_gap');
INSERT INTO `rf_gap` VALUES (84,'02RG53',172.0,201.25,0.201820950706,2.27729740804786,2.27729740804786,0.0,0.2.37288,-0.358232013372981,-0.453785605518526,-2.56563400043166,32.1099504279292,0.25363035093122,0.000814431139412655,0.825588311792936,0.0518229156247335,0.0597850111563919,2,2,53,303,'dtl_gap');
INSERT INTO `rf_gap` VALUES (85,'02RG54',174.0,201.25,0.205618239425,2.29180835542391,2.29180835542391,0.0,0.2.388,-0.358232013372981,-0.453785605518526,-2.56563400043166,32.7880397290876,0.256179462273951,0.000810136424857788,0.823732763033087,0.0523540642765243,0.0599895931524905,2,2,54,305,'dtl_gap');
INSERT INTO `rf_gap` VALUES (86,'02RG55',176.0,201.25,0.209398994944,2.30033065785112,2.30033065785112,0.0,0.2.39688,-0.358232013372981,-0.453785605518526,-2.56563400043166,33.4712841107583,0.258717474915438,0.000805823863628206,0.821852844755788,0.052891620260605,0.0601835595833768,2,2,55,307,'dtl_gap');
INSERT INTO `rf_gap` VALUES (87,'02RG56',178.0,201.25,0.213163104293,2.29019602793769,2.29019602793769,0.0,0.2.38632,-0.358232013372981,-0.453785605518526,-2.56563400043166,34.1596032301919,0.261244313020372,0.000801494904302498,0.819948820409505,0.0534355149367503,0.0603776667410637,2,2,56,309,'dtl_gap');
INSERT INTO `rf_gap` VALUES (88,'02RG57',180.0,201.25,0.216910462201,2.28305572049868,2.28305572049868,0.0,0.2.37888,-0.358232013372981,-0.453785605518526,-2.56563400043166,34.8529176247998,0.263759905921059,0.000797152366566358,0.818022398452773,0.0539852923673315,0.06056806708856,2,2,57,311,'dtl_gap');
INSERT INTO `rf_gap` VALUES (89,'02RG58',182.0,201.25,0.22064097221,2.29779700037276,2.29779700037276,0.0,0.2.39424,-0.358232013372981,-0.453785605518526,-2.56563400043166,35.5511484138969,0.266264188865461,0.000792798595484285,0.816074848201295,0.0545406153441363,0.0607545702533821,2,2,58,313,'dtl_gap');
INSERT INTO `rf_gap` VALUES (90,'02RG59',184.0,201.25,0.224354545787,2.2966453378826,2.2966453378826,0.0,0.2.39304,-0.358232013372981,-0.453785605518526,-2.56563400043166,36.2542173406876,0.268757102420678,0.000788435876635507,0.814107416857701,0.0551011459092185,0.0609369911008629,2,2,59,315,'dtl_gap');
INSERT INTO `rf_gap` VALUES (91,'02RG60',186.0,201.25,0.228051102142,2.30332498032554,2.30332498032554,0.0,0.2.4,-0.358232013372981,-0.453785605518526,-2.56563400043166,36.9620468105149,0.27123859235317,0.000784066428017489,0.812121327270443,0.055666562590477,0.0611151522316414,2,2,60,317,'dtl_gap');
INSERT INTO `rf_gap` VALUES (92,'02RG61',188.0,201.25,0.231730568043,2.30056099034915,2.30056099034915,0.0,0.2.39712,-0.358232013372981,-0.453785605518526,-2.56563400043166,37.6745599279032,0.273708609502907,0.000779692240374312,0.810117778701912,0.0562365442358022,0.0612888828498437,2,2,61,319,'dtl_gap');
INSERT INTO `rf_gap` VALUES (93,'02RG62',190.0,201.25,0.235392878146,2.29457234540031,2.29457234540031,0.0,0.2.39088,-0.358232013372981,-0.453785605518526,-2.56563400043166,38.3916806890891,0.27616711000392,0.000775316027178103,0.808009812310393,0.0568107287534545,0.0614580479553936,2,2,62,321,'dtl_gap');
INSERT INTO `rf_gap` VALUES (94,'02RG63',192.0,201.25,0.239037972635,2.28259505550261,2.28259505550261,0.0,0.2.3784,-0.358232013372981,-0.453785605518526,-2.56563400043166,39.1133332468832,0.278614053702221,0.000770938807210886,0.80606282747017,0.0573889941868671,0.0616223771583182,2,2,63,323,'dtl_gap');
INSERT INTO `rf_gap` VALUES (95,'02RG64',194.0,201.25,0.242665800376,2.30171265283931,2.30171265283931,0.0,0.2.39832,-0.358232013372981,-0.453785605518526,-2.56563400043166,39.8394434279762,0.281049406272126,0.000766563442282227,0.804014000901295,0.0579707746448733,0.061781842218925,2,2,64,325,'dtl_gap');
INSERT INTO `rf_gap` VALUES (96,'02RG65',196.0,201.25,0.246276316411,2.3263582301288,2.3263582301288,0.0,0.2.424,-0.358232013372981,-0.453785605518526,-2.56563400043166,40.5699371668625,0.283473137532353,0.000762191249643003,0.80195194453948,0.0585559928741658,0.0619362821078444,2,2,65,327,'dtl_gap');
INSERT INTO `rf_gap` VALUES (97,'02RG66',198.0,201.25,0.249869481964,2.32059991767798,2.32059991767798,0.0,0.2.418,-0.358232013372981,-0.453785605518526,-2.56563400043166,41.3047415225827,0.285885221453251,0.000757824290292959,0.799878040364945,0.0591442785937681,0.0620854849316099,2,2,66,329,'dtl_gap');
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INSERT INTO `rf_gap` VALUES (98,'03RG01',204.0,201.25,0.253499675815,2.3004751410033,2.3004751410033,0.0,2.38896,-0.367119750822111,-
0.453785605518526,3.74993294921386,42.0616409697816,0.288322162386537,0.000777083450762586,0.816965880222977,0.0544302953873244,0.0612355906876375,3,3,1,337,'dtl_gap');
INSERT INTO `rf_gap` VALUES (99,'03RG02',206.0,201.25,0.257144063818,2.31873288021761,2.31873288021761,0.0,2.40792,-0.367119750822112,-
0.453785605518526,3.74993294921386,42.823164795136,0.290768631822339,0.000772754232643091,0.81504145751139,0.0549676805369478,0.0614061581330179,3,3,2,339,'dtl_gap');
INSERT INTO `rf_gap` VALUES (100,'03RG03',208.0,201.25,0.260071324653,2.31549733149609,2.31549733149609,0.0,2.40456,-0.367119750822111,-
0.453785605518526,3.74993294921386,43.5892241175956,0.293203603828986,0.000768402096938932,0.813086696802393,0.0555311319555518,0.0615747971356449,3,3,3,341,'dtl_gap');
INSERT INTO `rf_gap` VALUES (101,'03RG04',210.0,201.25,0.264381361645,2.31179956152863,2.31179956152863,0.0,2.40072,-0.367119750822112,-
0.453785605518526,3.74993294921386,44.3597366015832,0.295627013509031,0.000764037607335304,0.811109188070686,0.0560910263609489,0.0617407827494396,3,3,4,343,'dtl_gap');
INSERT INTO `rf_gap` VALUES (102,'03RG05',212.0,201.25,0.267974115575,2.31364844651236,2.31364844651236,0.0,2.40264,-0.367119750822111,-
0.453785605518526,3.74993294921386,45.134628066057,0.298038821779317,0.000759672431218998,0.809117876888643,0.0566543674291498,0.0619035180409407,3,3,5,345,'dtl_gap');
INSERT INTO `rf_gap` VALUES (103,'03RG06',214.0,201.25,0.271549507459,2.31526622087312,2.31526622087312,0.0,2.40432,-0.367119750822111,-
0.453785605518526,3.74993294921386,45.9138098161192,0.300438973605168,0.000755288446546558,0.80709797897028,0.0572250222807103,0.0620639813173916,3,3,6,347,'dtl_gap');
INSERT INTO `rf_gap` VALUES (104,'03RG07',216.0,201.25,0.275107475792,2.31480399962719,2.31480399962719,0.0,2.40384,-0.367119750822111,-
0.453785605518526,3.74993294921386,46.6972084351,0.302827429711584,0.000750907038358726,0.805065745986338,0.0577983720200766,0.0622208145299965,3,3,7,349,'dtl_gap');
INSERT INTO `rf_gap` VALUES (105,'03RG08',218.0,201.25,0.278647959073,2.31549733149609,2.31549733149609,0.0,2.40456,-0.367119750822111,-
0.453785605518526,3.74993294921386,47.4847393725724,0.305204148142834,0.000746513823782813,0.803009991695574,0.0583778176336371,0.0623751192590283,3,3,8,351,'dtl_gap');
INSERT INTO `rf_gap` VALUES (106,'03RG09',220.0,201.25,0.282170914679,2.31411066775829,2.31411066775829,0.0,2.40312,-0.367119750822111,-
0.453785605518526,3.74993294921386,48.2763298498225,0.307569100284391,0.000742125016652544,0.800943011324745,0.0589594660036349,0.0625258439192038,3,3,9,353,'dtl_gap');
INSERT INTO `rf_gap` VALUES (107,'03RG10',222.0,201.25,0.285676298409,2.31619066336498,2.31619066336498,0.0,2.40528,-0.367119750822111,-
0.453785605518526,3.74993294921386,49.0718993323078,0.30992225646545,0.000737731105179993,0.798857115045824,0.0595457646206746,0.062673632810923,3,3,10,355,'dtl_gap');
INSERT INTO `rf_gap` VALUES (108,'03RG11',224.0,201.25,0.289164064847,2.31827065897168,2.31827065897168,0.0,2.40744,-0.367119750822112,-
0.453785605518526,3.74993294921386,49.871370074895,0.312263586199121,0.000733336353036904,0.796755351834428,0.0601357741288401,0.0628182295041322,3,3,11,357,'dtl_gap');
INSERT INTO `rf_gap` VALUES (109,'03RG12',226.0,201.25,0.292634196298,2.32196842893913,2.32196842893913,0.0,2.41128,-0.367119750822111,-
0.453785605518526,3.74993294921386,50.6746718705898,0.314593077605006,0.000728950543506084,0.79464532583672,0.0607272760130207,0.0629590946987806,3,3,12,359,'dtl_gap');
INSERT INTO `rf_gap` VALUES (110,'03RG13',228.0,201.25,0.296086680761,2.31411066775829,2.31411066775829,0.0,2.40312,-0.367119750822111,-
0.453785605518526,3.74993294921386,51.4817317841293,0.316910722628108,0.000724570512691507,0.792524323812996,0.0613211207856021,0.0630964455597723,3,3,13,361,'dtl_gap');
INSERT INTO `rf_gap` VALUES (111,'03RG14',230.0,201.25,0.299521500932,2.30717734906931,2.30717734906931,0.0,2.39592,-0.367119750822111,-
0.453785605518526,3.74993294921386,52.2924758725662,0.319216509651077,0.000720195370476944,0.790391395075941,0.06191758922387,0.0632303455735535,3,3,14,363,'dtl_gap');
INSERT INTO `rf_gap` VALUES (112,'03RG15',232.0,201.25,0.302938657447,2.3106440084138,2.3106440084138,0.0,2.39952,-0.367119750822112,-
0.453785605518526,3.74993294921386,53.1068367842807,0.321510439102448,0.000715833220939484,0.788252939192223,0.0625147409952805,0.0633603711656775,3,3,15,365,'dtl_gap');
INSERT INTO `rf_gap` VALUES (113,'03RG16',234.0,201.25,0.306338136196,2.31457288900422,2.31457288900422,0.0,2.4036,-0.367119750822111,-
0.453785605518526,3.74993294921386,53.9247374618341,0.323792501509595,0.000711472939812143,0.786099533252986,0.0631152011719013,0.0634870707565691,3,3,16,367,'dtl_gap');
INSERT INTO `rf_gap` VALUES (114,'03RG17',236.0,201.25,0.309719930044,2.31226178277456,2.31226178277456,0.0,2.4012,-0.367119750822111,-
0.453785605518526,3.74993294921386,54.7461086728235,0.32606269208169,0.000707124254234941,0.783938735980397,0.0637170145080755,0.063609838406958,3,3,17,369,'dtl_gap');
INSERT INTO `rf_gap` VALUES (115,'03RG18',238.0,201.25,0.313084065958,2.30833290218414,2.30833290218414,0.0,2.39712,-0.367119750822111,-
0.453785605518526,3.74993294921386,55.5708890154109,0.328321028923602,0.000702796744408776,0.781777845483669,0.0643178388318014,0.0637279517723337,3,3,18,371,'dtl_gap');
INSERT INTO `rf_gap` VALUES (116,'03RG19',240.0,201.25,0.316430551935,2.30763957031524,2.30763957031524,0.0,2.3964,-0.367119750822111,-
0.453785605518526,3.74993294921386,56.3990055479085,0.330567517402232,0.00069847634344196,0.779605754706086,0.0649210464163635,0.0638424936381465,3,3,19,373,'dtl_gap');
INSERT INTO `rf_gap` VALUES (117,'03RG20',242.0,201.25,0.319759411146,2.31226178277456,2.31226178277456,0.0,2.4012,-0.367119750822111,-
0.453785605518526,3.74993294921386,57.2303973624526,0.332802173072147,0.000694176612847883,0.77743367495169,0.0655233606425676,0.063952825442946,3,3,20,375,'dtl_gap');
INSERT INTO `rf_gap` VALUES (118,'03RG21',244.0,201.25,0.323070670756,2.31503511025015,2.31503511025015,0.0,2.40408,-0.367119750822111,-
0.453785605518526,3.74993294921386,58.0649981411504,0.33502501417036,0.000689891439677268,0.775256308302362,0.0661261885093724,0.0640592265188877,3,3,21,377,'dtl_gap');
INSERT INTO `rf_gap` VALUES (119,'03RG22',246.0,201.25,0.326364347508,2.31873288021761,2.31873288021761,0.0,2.40792,-0.367119750822112,-
0.453785605518526,3.74993294921386,58.9027405660319,0.33723605193536,0.000685619734240834,0.773072581820505,0.0667299007321578,0.0641617541952623,3,3,22,379,'dtl_gap');
INSERT INTO `rf_gap` VALUES (120,'03RG23',248.0,201.25,0.329640476028,2.31642177398795,2.31642177398795,0.0,2.40552,-0.367119750822111,-
0.453785605518526,3.74993294921386,59.7435649631078,0.339435309612198,0.000681369587214178,0.770889347386226,0.0673326598180868,0.0642600954422295,3,3,23,381,'dtl_gap');
INSERT INTO `rf_gap` VALUES (121,'03RG24',250.0,201.25,0.332899116067,2.31688399523388,2.31688399523388,0.0,2.406,-0.367119750822111,-
0.453785605518526,3.74993294921386,60.5874174156646,0.341622827311077,0.000677146737047796,0.768711524009399,0.0679329655832885,0.0643540371356028,3,3,24,383,'dtl_gap');
INSERT INTO `rf_gap` VALUES (122,'03RG25',252.0,201.25,0.336140295248,2.30879512343007,2.30879512343007,0.0,2.3976,-0.367119750822111,-
0.453785605518526,3.74993294921386,61.4342278688271,0.343798623575074,0.000672935533729735,0.766524135855288,0.0685349557189714,0.0644435422552413,3,3,25,385,'dtl_gap');
INSERT INTO `rf_gap` VALUES (123,'03RG26',254.0,201.25,0.33936406618,2.31110622965973,2.31110622965973,0.0,2.4,-0.367119750822112,-
0.453785605518526,3.74993294921386,62.2839461343049,0.345962733721436,0.000668755388668583,0.76434493356892,0.0691338454018955,0.0645283328344037,3,3,26,387,'dtl_gap');
INSERT INTO `rf_gap` VALUES (124,'03RG27',256.0,201.25,0.34257048025,2.3113373402827,2.3113373402827,0.0,2.40024,-0.367119750822111,-
0.453785605518526,3.74993294921386,63.136510011774,0.348115192244891,0.000664593223362034,0.762162731150923,0.0697325677464787,0.0646090549155886,3,3,27,389,'dtl_gap');
INSERT INTO `rf_gap` VALUES (125,'03RG28',258.0,201.25,0.345759578185,2.31087511903677,2.31087511903677,0.0,2.39976,-0.367119750822112,-
0.453785605518526,3.74993294921386,63.9918601255515,0.350256026486366,0.000660451775268278,0.759979816506726,0.0703304521703184,0.0646855979826802,3,3,28,391,'dtl_gap');
INSERT INTO `rf_gap` VALUES (126,'03RG29',260.0,201.25,0.348931421303,2.31110622965973,2.31110622965973,0.0,2.4,-0.367119750822112,-
0.453785605518526,3.74993294921386,64.8499445586272,0.352385277608287,0.00065633809636326,0.757802485070312,0.0709258995740073,0.0647577675535741,3,3,29,393,'dtl_gap');
INSERT INTO `rf_gap` VALUES (127,'03RG30',262.0,201.25,0.352086092773,2.30486624283965,2.30486624283965,0.0,2.39352,-0.367119750822111,-
0.453785605518526,3.74993294921386,65.7107169784645,0.354503001441549,0.000652256997156133,0.755635206175896,0.0715178739109055,0.0648254915328687,3,3,30,395,'dtl_gap');
INSERT INTO `rf_gap` VALUES (128,'03RG31',264.0,201.25,0.35522364241,2.30509735346262,2.30509735346262,0.0,2.39376,-0.367119750822111,-
0.453785605518526,3.74993294921386,66.5741131154857,0.356609231427118,0.000648192484429544,0.753461866746648,0.0721100371849979,0.0648884069267191,3,3,31,397,'dtl_gap');
INSERT INTO `rf_gap` VALUES (129,'03RG32',266.0,201.25,0.358344142556,2.31110622965973,2.31110622965973,0.0,2.4,-0.367119750822112,-
0.453785605518526,3.74993294921386,67.4400906214798,0.358704016412307,0.000644166432776472,0.751301281361719,0.0726979472935359,0.0649464206437831,3,3,32,399,'dtl_gap');
INSERT INTO `rf_gap` VALUES (130,'03RG33',268.0,201.25,0.361447667327,2.309257344676,2.309257344676,0.0,2.39808,-0.367119750822111,-
0.453785605518526,3.74993294921386,68.3085948597543,0.360787405297442,0.000640159609538777,0.749142319304794,0.0732844085340499,0.0650001882339072,3,3,33,401,'dtl_gap');
INSERT INTO `rf_gap` VALUES (131,'03RG34',270.0,201.25,0.364534286076,2.2983951453966,2.2983951453966,0.0,2.3868,-0.367119750822111,-
0.453785605518526,3.74993294921386,69.1795770591207,0.36285944549308,0.000636183425219201,0.746989683861678,0.0738681535571587,0.0650496041224194,3,3,34,403,'dtl_gap');
INSERT INTO `rf_gap` VALUES (132,'03RG35',272.0,201.25,0.367604087143,2.30625290657745,2.30625290657745,0.0,2.39496,-0.367119750822111,-
0.453785605518526,3.74993294921386,70.0529941571002,0.364920196122,0.000632240415751149,0.744847813755129,0.0744480270797677,0.0650946195062349,3,3,35,405,'dtl_gap');
INSERT INTO `rf_gap` VALUES (133,'03RG36',274.0,201.25,0.370657136271,2.30555957470855,2.30555957470855,0.0,2.39424,-0.367119750822111,-
0.453785605518526,3.74993294921386,70.928789909291,0.366969701000579,0.000628319285887038,0.742705061892772,0.0750268921543788,0.0651348970830327,3,3,36,407,'dtl_gap');
INSERT INTO `rf_gap` VALUES (134,'03RG37',276.0,201.25,0.37369350494,2.30509735346262,2.30509735346262,0.0,2.39376,-0.367119750822111,-
0.453785605518526,3.74993294921386,71.8069191161733,0.369008007930265,0.00062443024820044,0.74057046647390,0.0756026087153991,0.0651699775612671,3,3,37,409,'dtl_gap');
INSERT INTO `rf_gap` VALUES (135,'03RG38',278.0,201.25,0.37671329031,2.2875329461172,2.2875329461172,0.0,2.37552,-0.367119750822112,-
0.453785605518526,3.74993294921386,72.6873435368959,0.371035183529685,0.000620577203838781,0.738449403539043,0.0761736032217488,0.0652006033274709,3,3,38,411,'dtl_gap');
INSERT INTO `rf_gap` VALUES (136,'04RG01',284.0,201.25,0.379719520762,2.44163556957859,2.44163556957859,0.0,2.515968,-0.386705242325629,-
0.453785605518526,3.59537825910832,73.5713313476199,0.373053259324201,0.000617815152475121,0.737427272828355,0.076380053580758,0.0652498420192906,4,4,1,419,'dtl_gap');
INSERT INTO `rf_gap` VALUES (137,'04RG02',286.0,201.25,0.382710738069,2.43016228735724,2.43016228735724,0.0,2.50414542857143,-0.386705242325629,-
0.453785605518526,3.59537825910832,74.4574985803688,0.375061256665765,0.00061397054485764,0.735287597232004,0.0769604718282766,0.0652774480078398,4,4,2,421,'dtl_gap');
INSERT INTO `rf_gap` VALUES (138,'04RG03',288.0,201.25,0.385685455332,2.42842628068748,2.42842628068748,0.0,2.50235657142857,-0.386705242325629,-
0.453785605518526,3.59537825910832,75.3457925362168,0.377058177646547,0.00061014560118049,0.73314875316040,0.077538616455036,0.0653022835822637,4,4,3,423,'dtl_gap');
INSERT INTO `rf_gap` VALUES (139,'04RG04',290.0,201.25,0.388643700636,2.41647886152231,2.41647886152231,0.0,2.49004542857143,-0.386705242325629,-
0.453785605518526,3.59537825910832,76.2361467064197,0.37904440410379,0.000606328710212249,0.730999165463379,0.0781184511907912,0.0653244763866268,4,4,4,425,'dtl_gap');
INSERT INTO `rf_gap` VALUES (140,'04RG05',292.0,201.25,0.391585507529,2.41299936181,2.41299936181,0.0,2.48646,-0.386705242325629,-
0.453785605518526,3.59537825910832,77.1285053586209,0.381018869361053,0.000602529206175255,0.728847573676585,0.0786976896922593,0.0653437887844874,4,4,5,427,'dtl_gap');
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INSERT INTO `rf_gap` VALUES (141,'04RG06',294.0,201.25,0.394510924879,2.40443827860678,2.40443827860678,0.0,2.47763828571429,-0.386705242325629,-
0.453785605518526,3.59537825910832,78.0228136394904,0.382982695421645,0.00059874917668714,0.726694474846728,0.0792760546285626,0.0653600833218912,4,4,6,429,'dtl_gap');
INSERT INTO `rf_gap` VALUES (142,'04RG07',296.0,201.25,0.397420029087,2.39683711475998,2.39683711475998,0.0,2.46980571428571,-0.386705242325629,-
0.453785605518526,3.59537825910832,78.9190302444681,0.384935570506582,0.000594995175541424,0.724550564452438,0.079850901018175,0.0653735669890119,4,4,7,431,'dtl_gap');
INSERT INTO `rf_gap` VALUES (143,'04RG08',298.0,201.25,0.400312883072,2.39018588843925,2.39018588843925,0.0,2.462952,-0.386705242325629,-
0.453785605518526,3.59537825910832,79.8170995499006,0.386877536853356,0.000591258871261306,0.722403924192376,0.0804253823853057,0.0653843232814133,4,4,8,433,'dtl_gap');
INSERT INTO `rf_gap` VALUES (144,'04RG09',300.0,201.25,0.403189539718,2.38447461781417,2.38447461781417,0.0,2.45706685714286,-0.386705242325629,-
0.453785605518526,3.59537825910832,80.7169698687211,0.388808629963198,0.000587542037622804,0.72025749937217,0.080998757236146,0.0653923304597717,4,4,9,435,'dtl_gap');
INSERT INTO `rf_gap` VALUES (145,'04RG10',302.0,201.25,0.406050067649,2.37210712995315,2.37210712995315,0.0,2.44432285714286,-0.386705242325629,-
0.453785605518526,3.59537825910832,81.6185954046412,0.390728895903063,0.000583849111769599,0.718115714754435,0.0815699393953873,0.065397577955797,4,4,10,437,'dtl_gap');
INSERT INTO `rf_gap` VALUES (146,'04RG11',304.0,201.25,0.408894544629,2.3536257709744,2.3536257709744,0.0,2.42527885714286,-0.386705242325629,-
0.453785605518526,3.59537825910832,82.5219319106008,0.392638386875892,0.000580180929128868,0.715979457793677,0.0821386951293419,0.0654000768076949,4,4,11,439,'dtl_gap');
INSERT INTO `rf_gap` VALUES (147,'04RG12',306.0,201.25,0.411723051916,2.35075266745867,2.35075266745867,0.0,2.42231828571429,-0.386705242325629,-
0.453785605518526,3.59537825910832,83.426936466819,0.394537157429293,0.000576538101805735,0.713849421441646,0.0827046711453502,0.0653998466020983,4,4,12,441,'dtl_gap');
INSERT INTO `rf_gap` VALUES (148,'04RG13',308.0,201.25,0.414535695933,2.34831044628836,2.34831044628836,0.0,2.41980171428571,-0.386705242325629,-
0.453785605518526,3.59537825910832,84.3335793187409,0.396425279006234,0.000572931183684311,0.711735550247357,0.0832653670562181,0.0653964767707352,4,4,13,443,'dtl_gap');
INSERT INTO `rf_gap` VALUES (149,'04RG14',310.0,201.25,0.417332556152,2.34161929264605,2.34161929264605,0.0,2.41290685714286,-0.386705242325629,-
0.453785605518526,3.59537825910832,85.241809648306,0.39830280494259,0.000569342944144058,0.7096208923335,0.0838250932641028,0.0653901928013023,4,4,14,445,'dtl_gap');
INSERT INTO `rf_gap` VALUES (150,'04RG15',312.0,201.25,0.420113708829,2.33049121539257,2.33049121539257,0.0,2.40144,-0.386705242325629,-
0.453785605518526,3.59537825910832,86.1515886040683,0.400169786465741,0.000565758193443567,0.707514506455314,0.084381746746838,0.0653811664828724,4,4,15,447,'dtl_gap');
INSERT INTO `rf_gap` VALUES (151,'04RG16',314.0,201.25,0.422879248856,2.33224036480568,2.33224036480568,0.0,2.4032424,-0.386705242325629,-
0.453785605518526,3.59537825910832,87.0628803623883,0.40202628723987,0.000562249949113092,0.705418343641334,0.0849348128946831,0.0653694183606128,4,4,16,449,'dtl_gap');
INSERT INTO `rf_gap` VALUES (152,'04RG17',316.0,201.25,0.425629282268,2.31773088705084,2.31773088705084,0.0,2.3882912,-0.386705242325629,-
0.453785605518526,3.59537825910832,87.9756541373505,0.403872378458811,0.000558750172798277,0.703335857568537,0.0854834033680944,0.0653549929452228,4,4,17,451,'dtl_gap');
INSERT INTO `rf_gap` VALUES (153,'04RG18',318.0,201.25,0.428363929121,2.30557224126356,2.30557224126356,0.0,2.3757624,-0.38670524232563,-
0.453785605518526,3.59537825910832,88.8898847512212,0.405708140715414,0.000555286056394415,0.701270863755478,0.0860265717153339,0.0653379557963319,4,4,18,453,'dtl_gap');
INSERT INTO `rf_gap` VALUES (154,'04RG19',320.0,201.25,0.431083280317,2.30102662661031,2.30102662661031,0.0,2.3710784,-0.386705242325629,-
0.453785605518526,3.59537825910832,89.805528768482,0.407533635031858,0.000551844636154293,0.699208922000666,0.0865676909947954,0.0653176944538313,4,4,19,455,'dtl_gap');
INSERT INTO `rf_gap` VALUES (155,'04RG20',322.0,201.25,0.433787430102,2.29920760438443,2.29920760438443,0.0,2.369204,-0.386705242325629,-
0.453785605518526,3.59537825910832,90.7225571111636,0.40934892467532,0.000548435619185668,0.697160643728539,0.0871043507253191,0.0652944721340076,4,4,20,457,'dtl_gap');
INSERT INTO `rf_gap` VALUES (156,'04RG21',324.0,201.25,0.436476489984,2.29095717792498,2.29095717792498,0.0,2.3607024,-0.386705242325629,-
0.453785605518526,3.59537825910832,91.6409422514933,0.411154084501172,0.000545058972865693,0.695126742239348,0.0876365180726044,0.065268591183838,4,4,21,459,'dtl_gap');
INSERT INTO `rf_gap` VALUES (157,'04RG22',326.0,201.25,0.439150572167,2.28066258350959,2.28066258350959,0.0,2.3500944,-0.38670524232563,-
0.453785605518526,3.59537825910832,92.5606569344087,0.412949189830884,0.000541714268288533,0.693106958411897,0.0881640706709907,0.065240071547845,4,4,22,461,'dtl_gap');
INSERT INTO `rf_gap` VALUES (158,'04RG23',328.0,201.25,0.441809791708,2.27582583213645,2.27582583213645,0.0,2.3451104,-0.38670524232563,-
0.453785605518526,3.59537825910832,93.4816766189444,0.414734317903307,0.000538402776778781,0.69110286989090906,0.0886865158354756,0.0652089655638834,4,4,23,463,'dtl_gap');
INSERT INTO `rf_gap` VALUES (159,'04RG24',330.0,201.25,0.444454284624,2.26419123244497,2.26419123244497,0.0,2.3331216,-0.386705242325629,-
0.453785605518526,3.59537825910832,94.4039884402755,0.416509560025673,0.000535132536156659,0.689122703830598,0.0892019649528746,0.0651751006309051,4,4,24,465,'dtl_gap');
INSERT INTO `rf_gap` VALUES (160,'04RG25',332.0,201.25,0.447084164079,2.24380234567749,2.24380234567749,0.0,2.312112,-0.38670524232563,-
0.453785605518526,3.59537825910832,95.3275607696862,0.41827499216435,0.000531890555276142,0.687151929808337,0.0897140188047716,0.0651379014277662,4,4,25,467,'dtl_gap');
INSERT INTO `rf_gap` VALUES (161,'04RG26',334.0,201.25,0.449699537035,2.23449451065139,2.23449451065139,0.0,2.3025208,-0.38670524232563,-
0.453785605518526,3.59537825910832,96.2523712281752,0.420030686123183,0.000528681449947364,0.685197027342658,0.0902211128067062,0.0650981218277588,4,4,26,469,'dtl_gap');
INSERT INTO `rf_gap` VALUES (162,'04RG27',336.0,201.25,0.452300521863,2.22385598672424,2.22385598672424,0.0,2.2915584,-0.386705242325629,-
0.453785605518526,3.59537825910832,97.1783993655489,0.421776721364132,0.000525505888527036,0.683258957248634,0.0907229648512353,0.0650558045996543,4,4,27,471,'dtl_gap');
INSERT INTO `rf_gap` VALUES (163,'04RG28',338.0,201.25,0.454887240556,2.2139060981852,2.2139060981852,0.0,2.2813056,-0.386705242325629,-
0.453785605518526,3.59537825910832,98.1056270028791,0.423513179780823,0.000522364731112557,0.681338915946557,0.0912192775501562,0.065011002630192,4,4,28,473,'dtl_gap');
INSERT INTO `rf_gap` VALUES (164,'04RG29',340.0,201.25,0.457459839524,2.20086317313404,2.20086317313404,0.0,2.2678656,-0.386705242325629,-
0.453785605518526,3.59537825910832,99.034050120372,0.425240159658115,0.000519268008958527,0.679446757877576,0.0917075249685163,0.0649632280160395,4,4,29,475,'dtl_gap');
INSERT INTO `rf_gap` VALUES (165,'04RG30',342.0,201.25,0.460018442892,2.22370226653613,2.22370226653613,0.0,2.2914,-0.386705242325629,-
0.453785605518526,3.59537825910832,99.9636448918256,0.426957744320489,0.000516201443524391,0.677567449847535,0.0921915907522119,0.0649124036577311,4,4,30,477,'dtl_gap');
CREATE TABLE quad_family(
    id integer primary key,
    name text,
    l_eff_cal double precision check(l_eff_cal > 0.0),-- effective magnet length
    a0_cal double precision,
    a1_cal double precision,
    a2_cal double precision,
    a3_cal double precision,
    a4_cal double precision,
    unique(name, l_eff_cal, a0_cal, a1_cal, a2_cal, a3_cal, a4_cal)
);
INSERT INTO `quad_family` VALUES (0,'quad_type_0',0.02483,0.003447,0.0029138,4.5509e-06,-1.1115e-08,5.5871e-12);
INSERT INTO `quad_family` VALUES (1,'quad_type_1',0.03522,0.0090526,0.0046231,-1.5358e-06,6.2635e-09,-7.6251e-12);
INSERT INTO `quad_family` VALUES (2,'quad_type_2',0.04774,0.0028514,0.0064909,-3.4515e-06,1.0784e-08,-1.048e-11);
INSERT INTO `quad_family` VALUES (3,'quad_type_3',0.06234,0.010348,0.0081983,-4.4683e-07,1.5503e-09,-1.8316e-12);
INSERT INTO `quad_family` VALUES (4,'quad_type_4',0.08889,1.5152e-05,0.0052911,-1.158e-08,2.5253e-12,0.0);
INSERT INTO `quad_family` VALUES (5,'quad_type_5',0.176,-0.0045455,0.0047937,-2.1212e-08,2.0202e-11,0.0);
CREATE TABLE quad(
    id integer primary key,
    name text unique,
    view_index double precision unique,
    monitor integer not null default 0,
    gradient_model double precision default 0.0,
    length_model double precision,
    aperture_model double precision,
    family_cal  integer references quad_family(id)
           on delete restrict,
    shunt_cal double precision,
    polarity_design integer not null default 1.0,
    channel integer references epics_channel(id)
           on delete restrict,
    model_index integer unique,
    model_type text not null default 'quad'
);
INSERT INTO `quad` VALUES (1,'01QM00U',0.5,0,-49.0562169640441,0.012415,0.0075,0,0.0,-1,1,130,'quad');
INSERT INTO `quad` VALUES (2,'01QM00',1.0,1,-49.0562169640441,0.012415,0.0075,0,0.0,-1,1,132,'quad');
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INSERT INTO `quad` VALUES (3,'01QM01',3.0,1,73.57,0.03522,0.0075,1,2.0,1,2,134,'quad');
INSERT INTO `quad` VALUES (4,'01QM02',5.0,1,-72.38,0.03522,0.0075,1,16.4,-1,2,136,'quad');
INSERT INTO `quad` VALUES (5,'01QM03',7.0,1,71.26,0.03522,0.0075,1,29.5,1,2,138,'quad');
INSERT INTO `quad` VALUES (6,'01QM04',9.0,1,-70.21,0.03522,0.0075,1,41.3,-1,2,140,'quad');
INSERT INTO `quad` VALUES (7,'01QM05',11.0,1,68.62,0.03522,0.0075,1,58.4,1,2,142,'quad');
INSERT INTO `quad` VALUES (8,'01QM06',13.0,1,-69.29,0.03522,0.0075,1,51.3,-1,2,144,'quad');
INSERT INTO `quad` VALUES (9,'01QM07',15.0,1,52.75,0.04774,0.0075,2,7.1,1,3,146,'quad');
INSERT INTO `quad` VALUES (10,'01QM08',17.0,1,-53.4,0.04774,0.0075,2,2.0,-1,3,148,'quad');
INSERT INTO `quad` VALUES (11,'01QM09',19.0,1,52.19,0.04774,0.0075,2,11.4,1,3,150,'quad');
INSERT INTO `quad` VALUES (12,'01QM10',21.0,1,-51.42,0.04774,0.0075,2,17.4,-1,3,152,'quad');
INSERT INTO `quad` VALUES (13,'01QM11',23.0,1,50.7,0.04774,0.0075,2,23.0,1,3,154,'quad');
INSERT INTO `quad` VALUES (14,'01QM12',25.0,1,-50.02,0.04774,0.0075,2,28.2,-1,3,156,'quad');
INSERT INTO `quad` VALUES (15,'01QM13',27.0,1,49.02,0.04774,0.0075,2,35.9,1,3,158,'quad');
INSERT INTO `quad` VALUES (16,'01QM14',29.0,1,-49.46,0.04774,0.0075,2,32.5,-1,3,160,'quad');
INSERT INTO `quad` VALUES (17,'01QM15',31.0,1,39.13,0.06234,0.0075,3,5.1,1,4,162,'quad');
INSERT INTO `quad` VALUES (18,'01QM16',33.0,1,-39.54,0.06234,0.0075,3,2.0,-1,4,164,'quad');
INSERT INTO `quad` VALUES (19,'01QM17',35.0,1,38.92,0.06234,0.0075,3,6.7,1,4,166,'quad');
INSERT INTO `quad` VALUES (20,'01QM18',37.0,1,-38.42,0.06234,0.0075,3,10.5,-1,4,168,'quad');
INSERT INTO `quad` VALUES (21,'01QM19',39.0,1,37.92,0.06234,0.0075,3,14.2,1,4,170,'quad');
INSERT INTO `quad` VALUES (22,'01QM20',41.0,1,-37.48,0.06234,0.0075,3,17.5,-1,4,172,'quad');
INSERT INTO `quad` VALUES (23,'01QM21',43.0,1,37.05,0.06234,0.0075,3,20.7,1,4,174,'quad');
INSERT INTO `quad` VALUES (24,'01QM22',45.0,1,-36.67,0.06234,0.0075,3,23.6,-1,4,176,'quad');
INSERT INTO `quad` VALUES (25,'01QM23',47.0,1,36.29,0.06234,0.0075,3,26.4,1,4,178,'quad');
INSERT INTO `quad` VALUES (26,'01QM24',49.0,1,-35.96,0.06234,0.0075,3,28.8,-1,4,180,'quad');
INSERT INTO `quad` VALUES (27,'01QM25',51.0,1,35.64,0.06234,0.0075,3,31.3,1,4,182,'quad');
INSERT INTO `quad` VALUES (28,'01QM26',53.0,1,-35.32,0.06234,0.0075,3,33.6,-1,4,184,'quad');
INSERT INTO `quad` VALUES (29,'01QM27',55.0,1,35.03,0.06234,0.0075,3,35.7,1,4,186,'quad');
INSERT INTO `quad` VALUES (30,'01QM28',57.0,1,-34.73,0.06234,0.0075,3,37.9,-1,4,188,'quad');
INSERT INTO `quad` VALUES (31,'01QM29',59.0,1,34.49,0.06234,0.0075,3,39.7,1,4,190,'quad');
INSERT INTO `quad` VALUES (32,'01QM30',61.0,1,-31.33,0.06234,0.0075,3,63.0,-1,4,192,'quad');
INSERT INTO `quad` VALUES (33,'01QM31',63.0,1,22.0778418491856,0.08889,0.0075,4,2.0,1,5,194,'quad');
INSERT INTO `quad` VALUES (34,'02QM00',67.0,1,-23.0407305309235,0.08889,0.01,4,-14.2,-1,5,198,'quad');
INSERT INTO `quad` VALUES (35,'02QM01',69.0,1,20.5739674166873,0.08889,0.01,4,27.3,1,5,200,'quad');
INSERT INTO `quad` VALUES (36,'02QM02',71.0,1,-22.0778418491856,0.08889,0.01,4,2.0,-1,5,202,'quad');
INSERT INTO `quad` VALUES (37,'02QM03',73.0,1,21.7390354075798,0.08889,0.01,4,7.7,1,5,204,'quad');
INSERT INTO `quad` VALUES (38,'02QM04',75.0,1,-21.4002225248762,0.08889,0.01,4,13.4,-1,5,206,'quad');
INSERT INTO `quad` VALUES (39,'02QM05',77.0,1,21.0970686705554,0.08889,0.01,4,18.5,1,5,208,'quad');
INSERT INTO `quad` VALUES (40,'02QM06',79.0,1,-20.799853957339,0.08889,0.01,4,23.5,-1,5,210,'quad');
INSERT INTO `quad` VALUES (41,'02QM07',81.0,1,20.5383008549368,0.08889,0.01,4,27.9,1,5,212,'quad');
INSERT INTO `quad` VALUES (42,'02QM08',83.0,1,-20.2648547998965,0.08889,0.01,4,32.5,-1,5,214,'quad');
INSERT INTO `quad` VALUES (43,'02QM09',85.0,1,20.0211275314919,0.08889,0.01,4,36.6,1,5,216,'quad');
INSERT INTO `quad` VALUES (44,'02QM10',87.0,1,-19.7952309162557,0.08889,0.01,4,40.4,-1,5,218,'quad');
INSERT INTO `quad` VALUES (45,'02QM11',89.0,1,19.5633865927696,0.08889,0.01,4,44.3,1,5,220,'quad');
INSERT INTO `quad` VALUES (46,'02QM12',91.0,1,-19.3672081978388,0.08889,0.01,4,47.6,-1,5,222,'quad');
INSERT INTO `quad` VALUES (47,'02QM13',93.0,1,19.41,0.08889,0.01,4,2.0,1,6,224,'quad');
INSERT INTO `quad` VALUES (48,'02QM14',95.0,1,-19.21,0.08889,0.01,4,5.3,-1,6,226,'quad');
INSERT INTO `quad` VALUES (49,'02QM15',97.0,1,19.05,0.08889,0.01,4,8.1,1,6,228,'quad');
INSERT INTO `quad` VALUES (50,'02QM16',99.0,1,-18.89,0.08889,0.01,4,10.8,-1,6,230,'quad');
INSERT INTO `quad` VALUES (51,'02QM17',101.0,1,18.72,0.08889,0.01,4,13.7,1,6,232,'quad');
INSERT INTO `quad` VALUES (52,'02QM18',103.0,1,-18.58,0.08889,0.01,4,16.1,-1,6,234,'quad');
INSERT INTO `quad` VALUES (53,'02QM19',105.0,1,18.44,0.08889,0.01,4,18.5,1,6,236,'quad');
INSERT INTO `quad` VALUES (54,'02QM20',107.0,1,-18.29,0.08889,0.01,4,21.0,-1,6,238,'quad');
INSERT INTO `quad` VALUES (55,'02QM21',109.0,1,18.17,0.08889,0.01,4,23.0,1,6,240,'quad');
INSERT INTO `quad` VALUES (56,'02QM22',111.0,1,-18.04,0.08889,0.01,4,25.2,-1,6,242,'quad');
INSERT INTO `quad` VALUES (57,'02QM23',113.0,1,17.93,0.08889,0.01,4,27.0,1,6,244,'quad');
INSERT INTO `quad` VALUES (58,'02QM24',115.0,1,-17.81,0.08889,0.01,4,29.0,-1,6,246,'quad');
INSERT INTO `quad` VALUES (59,'02QM25',117.0,1,17.7,0.08889,0.01,4,30.8,1,6,248,'quad');
INSERT INTO `quad` VALUES (60,'02QM26',119.0,1,-17.6,0.08889,0.01,4,32.4,-1,6,250,'quad');
INSERT INTO `quad` VALUES (61,'02QM27',121.0,1,17.45,0.08889,0.01,4,34.8,1,6,252,'quad');
INSERT INTO `quad` VALUES (62,'02QM28',123.0,1,-18.23,0.08889,0.01,4,22.0,-1,6,254,'quad');
INSERT INTO `quad` VALUES (63,'02QM29',125.0,1,9.71310154636179,0.176,0.01,5,8.9,1,7,256,'quad');
INSERT INTO `quad` VALUES (64,'02QM30',127.0,1,-9.90074563249432,0.176,0.01,5,2.0,-1,7,258,'quad');
INSERT INTO `quad` VALUES (65,'02QM31',129.0,1,9.6750288723348,0.176,0.01,5,10.3,1,7,260,'quad');
INSERT INTO `quad` VALUES (66,'02QM32',131.0,1,-9.6070419751515,0.176,0.01,5,12.8,-1,7,262,'quad');
INSERT INTO `quad` VALUES (67,'02QM33',133.0,1,9.53633562036959,0.176,0.01,5,15.4,1,7,264,'quad');
INSERT INTO `quad` VALUES (68,'02QM34',135.0,1,-9.46834874723433,0.176,0.01,5,17.9,-1,7,266,'quad');
INSERT INTO `quad` VALUES (69,'02QM35',137.0,1,9.40852029545231,0.176,0.01,5,20.1,1,7,268,'quad');
INSERT INTO `quad` VALUES (70,'02QM36',139.0,1,-9.34053340482681,0.176,0.01,5,22.6,-1,7,270,'quad');
INSERT INTO `quad` VALUES (71,'02QM37',141.0,1,9.51,0.176,0.01,5,2.0,1,8,272,'quad');
INSERT INTO `quad` VALUES (72,'02QM38',143.0,1,-9.46,0.176,0.01,5,3.8,-1,8,274,'quad');
INSERT INTO `quad` VALUES (73,'02QM39',145.0,1,9.4,0.176,0.01,5,6.0,1,8,276,'quad');
INSERT INTO `quad` VALUES (74,'02QM40',147.0,1,-9.34,0.176,0.01,5,8.1,-1,8,278,'quad');
INSERT INTO `quad` VALUES (75,'02QM41',149.0,1,9.3,0.176,0.01,5,9.6,1,8,280,'quad');
INSERT INTO `quad` VALUES (76,'02QM42',151.0,1,-9.25,0.176,0.01,5,11.4,-1,8,282,'quad');
INSERT INTO `quad` VALUES (77,'02QM43',153.0,1,9.21,0.176,0.01,5,12.8,1,8,284,'quad');
INSERT INTO `quad` VALUES (78,'02QM44',155.0,1,-9.16,0.176,0.01,5,14.6,-1,8,286,'quad');
INSERT INTO `quad` VALUES (79,'02QM45',157.0,1,9.12,0.176,0.01,5,16.1,1,8,288,'quad');
INSERT INTO `quad` VALUES (80,'02QM46',159.0,1,-9.08,0.176,0.01,5,17.5,-1,8,290,'quad');
INSERT INTO `quad` VALUES (81,'02QM47',161.0,1,9.04,0.176,0.01,5,2.0,1,9,292,'quad');
INSERT INTO `quad` VALUES (82,'02QM48',163.0,1,-9.0,0.176,0.01,5,3.5,-1,9,294,'quad');
INSERT INTO `quad` VALUES (83,'02QM49',165.0,1,8.96,0.176,0.01,5,4.9,1,9,296,'quad');
INSERT INTO `quad` VALUES (84,'02QM50',167.0,1,-8.93,0.176,0.01,5,6.0,-1,9,298,'quad');
INSERT INTO `quad` VALUES (85,'02QM51',169.0,1,8.89,0.176,0.01,5,7.4,1,9,300,'quad');
INSERT INTO `quad` VALUES (86,'02QM52',171.0,1,-8.86,0.176,0.01,5,8.5,-1,9,302,'quad');
INSERT INTO `quad` VALUES (87,'02QM53',173.0,1,8.83,0.176,0.01,5,9.6,1,9,304,'quad');
INSERT INTO `quad` VALUES (88,'02QM54',175.0,1,-8.8,0.176,0.01,5,10.7,-1,9,306,'quad');
```

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INSERT INTO `quad` VALUES (89,'02QM55',177.0,1,8.77,0.176,0.01,5,11.8,1,9,308,'quad');
INSERT INTO `quad` VALUES (90,'02QM56',179.0,1,-8.74,0.176,0.01,5,12.9,-1,9,310,'quad');
INSERT INTO `quad` VALUES (91,'02QM57',181.0,1,8.6199503077877,0.176,0.01,5,2.0,1,10,312,'quad');
INSERT INTO `quad` VALUES (92,'02QM58',183.0,1,-8.5900356760585,0.176,0.01,5,3.1,-1,10,314,'quad');
INSERT INTO `quad` VALUES (93,'02QM59',185.0,1,8.57099907781503,0.176,0.01,5,3.8,1,10,316,'quad');
INSERT INTO `quad` VALUES (94,'02QM60',187.0,1,-8.54108440011995,0.176,0.01,5,4.9,-1,10,318,'quad');
INSERT INTO `quad` VALUES (95,'02QM61',189.0,1,8.52204777184447,0.176,0.01,5,5.6,1,10,320,'quad');
INSERT INTO `quad` VALUES (96,'02QM62',191.0,1,-8.49213304572895,0.176,0.01,5,6.7,-1,10,322,'quad');
INSERT INTO `quad` VALUES (97,'02QM63',193.0,1,8.473096,0.176,0.01,5,7.4,1,10,324,'quad');
INSERT INTO `quad` VALUES (98,'02QM64',195.0,1,-8.45134,0.176,0.01,5,8.2,-1,10,326,'quad');
INSERT INTO `quad` VALUES (99,'02QM65',197.0,1,7.43149,0.176,0.01,5,45.7,1,10,328,'quad');
INSERT INTO `quad` VALUES (100,'02QM66',199.0,1,-7.295509,0.176,0.01,5,50.7,-1,10,330,'quad');
INSERT INTO `quad` VALUES (101,'03QM00',203.0,1,6.6284023,0.176,0.015,5,-18.2,1,11,336,'quad');
INSERT INTO `quad` VALUES (102,'03QM01',205.0,1,0.0,0.176,0.015,'',0.0,0,'',338,'quad');
INSERT INTO `quad` VALUES (103,'03QM02',207.0,1,-7.3029065,0.176,0.015,5,-43.0,-1,11,340,'quad');
INSERT INTO `quad` VALUES (104,'03QM03',209.0,1,0.0,0.176,0.015,'',0.0,0,'',342,'quad');
INSERT INTO `quad` VALUES (105,'03QM04',211.0,1,5.98649409775139,0.176,0.015,5,5.4,1,11,344,'quad');
INSERT INTO `quad` VALUES (106,'03QM05',213.0,1,0.0,0.176,0.015,'',0.0,0,'',346,'quad');
INSERT INTO `quad` VALUES (107,'03QM06',215.0,1,-5.95657350799958,0.176,0.015,5,6.5,-1,11,348,'quad');
INSERT INTO `quad` VALUES (108,'03QM07',217.0,1,0.0,0.176,0.015,'',0.0,0,'',350,'quad');
INSERT INTO `quad` VALUES (109,'03QM08',219.0,1,5.92393274087159,0.176,0.015,5,7.7,1,11,352,'quad');
INSERT INTO `quad` VALUES (110,'03QM09',221.0,1,0.0,0.176,0.015,'',0.0,0,'',354,'quad');
INSERT INTO `quad` VALUES (111,'03QM10',223.0,1,-5.90761230851933,0.176,0.015,5,8.3,-1,11,356,'quad');
INSERT INTO `quad` VALUES (112,'03QM11',225.0,1,0.0,0.176,0.015,'',0.0,0,'',358,'quad');
INSERT INTO `quad` VALUES (113,'03QM12',227.0,1,5.87769143077508,0.176,0.015,5,9.4,1,11,360,'quad');
INSERT INTO `quad` VALUES (114,'03QM13',229.0,1,0.0,0.176,0.015,'',0.0,0,'',362,'quad');
INSERT INTO `quad` VALUES (115,'03QM14',231.0,1,-5.85593072280851,0.176,0.015,5,10.2,-1,11,364,'quad');
INSERT INTO `quad` VALUES (116,'03QM15',233.0,1,0.0,0.176,0.015,'',0.0,0,'',366,'quad');
INSERT INTO `quad` VALUES (117,'03QM16',235.0,1,5.83689005494054,0.176,0.015,5,10.9,1,11,368,'quad');
INSERT INTO `quad` VALUES (118,'03QM17',237.0,1,0.0,0.176,0.015,'',0.0,0,'',370,'quad');
INSERT INTO `quad` VALUES (119,'03QM18',239.0,1,-5.81512923603495,0.176,0.015,5,11.7,-1,11,372,'quad');
INSERT INTO `quad` VALUES (120,'03QM19',241.0,1,0.0,0.176,0.015,'',0.0,0,'',374,'quad');
INSERT INTO `quad` VALUES (121,'03QM20',243.0,1,5.79608847055298,0.176,0.015,5,12.4,1,11,376,'quad');
INSERT INTO `quad` VALUES (122,'03QM21',245.0,1,0.0,0.176,0.015,'',0.0,0,'',378,'quad');
INSERT INTO `quad` VALUES (123,'03QM22',247.0,1,-5.7743275394687,0.176,0.015,5,13.2,-1,11,380,'quad');
INSERT INTO `quad` VALUES (124,'03QM23',249.0,1,0.0,0.176,0.015,'',0.0,0,'',382,'quad');
INSERT INTO `quad` VALUES (125,'03QM24',251.0,1,5.75528667528803,0.176,0.015,5,13.9,1,11,384,'quad');
INSERT INTO `quad` VALUES (126,'03QM25',253.0,1,0.0,0.176,0.015,'',0.0,0,'',386,'quad');
INSERT INTO `quad` VALUES (127,'03QM26',255.0,1,-5.74440616063925,0.176,0.015,5,14.3,-1,11,388,'quad');
INSERT INTO `quad` VALUES (128,'03QM27',257.0,1,0.0,0.176,0.015,'',0.0,0,'',390,'quad');
INSERT INTO `quad` VALUES (129,'03QM28',259.0,1,5.73352563078539,0.176,0.015,5,14.7,1,11,392,'quad');
INSERT INTO `quad` VALUES (130,'03QM29',261.0,1,0.0,0.176,0.015,'',0.0,0,'',394,'quad');
INSERT INTO `quad` VALUES (131,'03QM30',263.0,1,-5.71448466682129,0.176,0.015,5,15.4,-1,11,396,'quad');
INSERT INTO `quad` VALUES (132,'03QM31',265.0,1,0.0,0.176,0.015,'',0.0,0,'',398,'quad');
INSERT INTO `quad` VALUES (133,'03QM32',267.0,1,5.70360409492615,0.176,0.015,5,15.8,1,11,400,'quad');
INSERT INTO `quad` VALUES (134,'03QM33',269.0,1,0.0,0.176,0.015,'',0.0,0,'',402,'quad');
INSERT INTO `quad` VALUES (135,'03QM34',271.0,1,-5.69272350766063,0.176,0.015,5,16.2,-1,11,404,'quad');
INSERT INTO `quad` VALUES (136,'03QM35',273.0,1,0.0,0.176,0.015,'',0.0,0,'',406,'quad');
INSERT INTO `quad` VALUES (137,'03QM36',275.0,1,5.4805489206903,0.176,0.015,5,24.0,1,11,408,'quad');
INSERT INTO `quad` VALUES (138,'03QM37',277.0,1,0.0,0.176,0.015,'',0.0,0,'',410,'quad');
INSERT INTO `quad` VALUES (139,'03QM38',279.0,1,-5.52135219637953,0.176,0.015,5,22.5,-1,11,412,'quad');
INSERT INTO `quad` VALUES (140,'04QM00',283.0,1,5.69179865703288,0.176,0.015,5,8.0,1,12,418,'quad');
INSERT INTO `quad` VALUES (141,'04QM01',285.0,1,0.0,0.176,0.015,'',0.0,0,'',420,'quad');
INSERT INTO `quad` VALUES (142,'04QM02',287.0,1,-5.85500589141509,0.176,0.015,5,2.0,-1,12,422,'quad');
INSERT INTO `quad` VALUES (143,'04QM03',289.0,1,0.0,0.176,0.015,'',0.0,0,'',424,'quad');
INSERT INTO `quad` VALUES (144,'04QM04',291.0,1,5.65099631220201,0.176,0.015,5,9.5,1,12,426,'quad');
INSERT INTO `quad` VALUES (145,'04QM05',293.0,1,0.0,0.176,0.015,'',0.0,0,'',428,'quad');
INSERT INTO `quad` VALUES (146,'04QM06',295.0,1,-5.65099631220201,0.176,0.015,5,9.5,-1,12,430,'quad');
INSERT INTO `quad` VALUES (147,'04QM07',297.0,1,0.0,0.176,0.015,'',0.0,0,'',432,'quad');
INSERT INTO `quad` VALUES (148,'04QM08',299.0,1,5.64283581701306,0.176,0.015,5,9.8,1,12,434,'quad');
INSERT INTO `quad` VALUES (149,'04QM09',301.0,1,0.0,0.176,0.015,'',0.0,0,'',436,'quad');
INSERT INTO `quad` VALUES (150,'04QM10',303.0,1,-5.63195514309345,0.176,0.015,5,10.2,-1,12,438,'quad');
INSERT INTO `quad` VALUES (151,'04QM11',305.0,1,0.0,0.176,0.015,'',0.0,0,'',440,'quad');
INSERT INTO `quad` VALUES (152,'04QM12',307.0,1,5.63195514309345,0.176,0.015,5,10.2,1,12,442,'quad');
INSERT INTO `quad` VALUES (153,'04QM13',309.0,1,0.0,0.176,0.015,'',0.0,0,'',444,'quad');
INSERT INTO `quad` VALUES (154,'04QM14',311.0,1,-5.6210744535132,0.176,0.015,5,10.6,-1,12,446,'quad');
INSERT INTO `quad` VALUES (155,'04QM15',313.0,1,0.0,0.176,0.015,'',0.0,0,'',448,'quad');
INSERT INTO `quad` VALUES (156,'04QM16',315.0,1,5.6210744535132,0.176,0.015,5,10.6,1,12,450,'quad');
INSERT INTO `quad` VALUES (157,'04QM17',317.0,1,0.0,0.176,0.015,'',0.0,0,'',452,'quad');
INSERT INTO `quad` VALUES (158,'04QM18',319.0,1,-5.61019374822824,0.176,0.015,5,11.0,-1,12,454,'quad');
INSERT INTO `quad` VALUES (159,'04QM19',321.0,1,0.0,0.176,0.015,'',0.0,0,'',456,'quad');
INSERT INTO `quad` VALUES (160,'04QM20',323.0,1,5.61019374822824,0.176,0.015,5,11.0,1,12,458,'quad');
INSERT INTO `quad` VALUES (161,'04QM21',325.0,1,0.0,0.176,0.015,'',0.0,0,'',460,'quad');
INSERT INTO `quad` VALUES (162,'04QM22',327.0,1,-6.4806041655272,0.176,0.015,5,-21.0,-1,12,462,'quad');
INSERT INTO `quad` VALUES (163,'04QM23',329.0,1,0.0,0.176,0.015,'',0.0,0,'',464,'quad');
INSERT INTO `quad` VALUES (164,'04QM24',331.0,1,6.63019745077577,0.176,0.015,5,-26.5,1,12,466,'quad');
INSERT INTO `quad` VALUES (165,'04QM25',333.0,1,0.0,0.176,0.015,'',0.0,0,'',468,'quad');
INSERT INTO `quad` VALUES (166,'04QM26',335.0,1,-5.85500589141509,0.176,0.015,5,2.0,-1,12,470,'quad');
INSERT INTO `quad` VALUES (167,'04QM27',337.0,1,0.0,0.176,0.015,'',0.0,0,'',472,'quad');
INSERT INTO `quad` VALUES (168,'04QM28',339.0,1,3.18876432108473,0.176,0.015,5,100.0,1,12,474,'quad');
INSERT INTO `quad` VALUES (169,'04QM29',341.0,1,0.0,0.176,0.015,'',0.0,0,'',476,'quad');
INSERT INTO `quad` VALUES (170,'04QM30',343.0,1,-0.42,0.176,0.015,5,-15.0,-1,'',478,'quad');
CREATE TABLE epics_channel(
    id integer primary key,
    lcs_name text unique,
    value_type text,  -- current or voltage_tmp
```

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    value double precision default 0.0,
    value_txt text default 'NA',
    update_time date --default datetime('now')
);
INSERT INTO `epics_channel` VALUES (1,'01QM000I01','current',360.204,'NA','2014-09-11 14:21:40');
INSERT INTO `epics_channel` VALUES (2,'01MP001I01','current',602.825,'NA','2013-07-05 09:36:38');
INSERT INTO `epics_channel` VALUES (3,'01MP002I01','current',409.019,'NA','2013-07-05 09:36:45');
INSERT INTO `epics_channel` VALUES (4,'01MP003I01','current',303.36,'NA','2013-07-05 09:36:51');
INSERT INTO `epics_channel` VALUES (5,'02MP001I01','current',373.18,'NA','2014-09-10 16:58:34');
INSERT INTO `epics_channel` VALUES (6,'02MP002I01','current',324.22,'NA','2013-07-05 09:37:00');
INSERT INTO `epics_channel` VALUES (7,'02MP003I01','current',366.837,'NA','2014-05-22 08:30:57');
INSERT INTO `epics_channel` VALUES (8,'02MP004I01','current',349.18,'NA','2013-07-05 09:37:14');
INSERT INTO `epics_channel` VALUES (9,'02MP005I01','current',332.07,'NA','2013-07-05 09:37:20');
INSERT INTO `epics_channel` VALUES (10,'02MP006I01','current',319.74,'NA','2014-05-22 08:31:11');
INSERT INTO `epics_channel` VALUES (11,'03MP001I01','current',226.312,'NA','2014-05-22 08:31:21');
INSERT INTO `epics_channel` VALUES (12,'04MP001I01','current',218.078,'NA','2014-05-22 08:31:26');
INSERT INTO `epics_channel` VALUES (13,'01JS001D01','rf_amp',43.6,'NA','2016-03-28 16:41:52');
INSERT INTO `epics_channel` VALUES (14,'01JS001D02','rf_ph',208.0,'NA','2016-03-28 16:41:52');
INSERT INTO `epics_channel` VALUES (15,'01TM001L01','delay',0.0,'In Time','2016-03-28 16:41:52');
INSERT INTO `epics_channel` VALUES (16,'02JS001D01','rf_amp',67.8,'NA','2016-03-28 16:41:53');
INSERT INTO `epics_channel` VALUES (17,'02JS001D02','rf_ph',-47.0,'NA','2016-03-28 16:41:52');
INSERT INTO `epics_channel` VALUES (18,'02TM001L01','delay',0.0,'In Time','2016-03-28 16:41:52');
INSERT INTO `epics_channel` VALUES (19,'03JS001D01','rf_amp',66.0,'NA','2017-01-04 08:01:03');
INSERT INTO `epics_channel` VALUES (20,'03JS001D02','rf_ph',64.0,'NA','2016-03-28 16:41:53');
INSERT INTO `epics_channel` VALUES (21,'03TM001L01','delay',0.0,'In Time','2016-03-28 16:41:53');
INSERT INTO `epics_channel` VALUES (22,'04JS001D01','rf_amp',67.6,'NA','2017-01-04 08:42:31');
INSERT INTO `epics_channel` VALUES (23,'04JS001D02','rf_ph',156.0,'NA','2016-11-16 09:11:32');
INSERT INTO `epics_channel` VALUES (24,'04TM001L01','delay',0.0,'In Time','2016-03-28 16:41:53');
CREATE TABLE drift(
    id integer primary key,
    name text unique,
    view_index double precision unique,
    length_model double precision,
    aperture_model double precision,
    model_index integer unique,
    model_type text not null default 'drift'
);
INSERT INTO `drift` VALUES (1,'02DR01',65.0,0.03507,0.0,195,'drift');
INSERT INTO `drift` VALUES (2,'02DR02',65.5,0.03507,0.0,197,'drift');
INSERT INTO `drift` VALUES (3,'03DR01',201.0,0.269625,0.0,331,'drift');
INSERT INTO `drift` VALUES (4,'03DR02',201.3,0.035,0.0,333,'drift');
INSERT INTO `drift` VALUES (5,'03DR03',201.7,0.375625,0.0,335,'drift');
INSERT INTO `drift` VALUES (6,'04DR01',281.0,0.24325,0.0,413,'drift');
INSERT INTO `drift` VALUES (7,'04DR02',281.3,0.2,0.0,415,'drift');
INSERT INTO `drift` VALUES (8,'04DR03',281.7,0.49027,0.0,417,'drift');
CREATE TABLE diode(
    id integer primary key,
    name text,
    c0_cal double precision not null default 1.0,
    c1_cal double precision not null default 0.1,
    c2_cal double precision not null default 0.0,
    c3_cal double precision not null default 0.0,
    c4_cal double precision not null default 0.0
);
INSERT INTO `diode` VALUES (1,'diode1',0.0195,0.1805,-0.0798,0.0977,-0.0485);
INSERT INTO `diode` VALUES (2,'diode2',0.0198,0.1854,-0.0925,0.1175,-0.0593);
INSERT INTO `diode` VALUES (3,'diode3',0.02218,0.19365,-0.10372,0.13623,-0.0717);
INSERT INTO `diode` VALUES (4,'diode4',0.0217,0.18171,-0.08447,0.10862,-0.05563);
CREATE TABLE diagnostics(
    id integer primary key,
    name text,
    view_index double precision unique,
    monitor integer not null default 0,
    diag_type text,
    model_index integer unique,
    model_type text not null default 'diagnostics'
);
INSERT INTO `diagnostics` VALUES (1,'BLZ',0.75,0,'MK',131,'diagnostics');
INSERT INTO `diagnostics` VALUES (2,'02WS01',65.2,0,'WS',196,'diagnostics');
INSERT INTO `diagnostics` VALUES (3,'03WS01',201.2,0,'WS',332,'diagnostics');
INSERT INTO `diagnostics` VALUES (4,'03AB02',201.5,0,'AB',334,'diagnostics');
INSERT INTO `diagnostics` VALUES (5,'04WS01',281.2,0,'WS',414,'diagnostics');
INSERT INTO `diagnostics` VALUES (6,'04AB01',281.6,0,'AB',416,'diagnostics');
CREATE TABLE ccl_tank(
    id integer primary key,
    name text,
    view_index double precision unique,
    module_id integer,
    tank_id integer,
    avg_phase_tmp double precision not null default 0.0,
    avg_phase_design double precision not null default 0.0,
    phase_offset_structure double precision not null default 0.0,
    cell_length_design double precision not null default 0.0,
    t_design double precision not null default 0.0,
    tp_design double precision not null default 0.0,
    sp_design double precision not null default 0.0,
```

```
  model_type text not null default 'ccl_tank'
);
CREATE TRIGGER update_rf_module_voltage after update of voltage_tmp on rf_module
begin
  update rf_module set
    operating_amplitude_fraction_tmp = on_off * amplitude_scale_cal *(
        (select c0_cal from diode where diode_id = diode.id) +
        (select c1_cal from diode where diode_id = diode.id) * voltage_tmp +
        (select c2_cal from diode where diode_id = diode.id) * power(voltage_tmp, 2.0) +
        (select c3_cal from diode where diode_id = diode.id) * power(voltage_tmp, 3.0) +
        (select c4_cal from diode where diode_id = diode.id) * power(voltage_tmp, 4.0)) / amplitude_design
    where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_phase_shift after update of phase_shift_tmp on rf_module
begin
--  update rf_gap set
--    beam_phase_shift_model = (select phase_shift_tmp from rf_module where rf_gap.module_id = id)/ 180.0 * pi()
--    where module_id = new.rowid;

  update rf_gap set
    beam_phase_shift_model = ((select phase_shift_tmp from rf_module where rf_gap.module_id = id) +
    (select case when model_type = 'ccl_gap' then (select phase_offset_structure from ccl_tank where
    module_id = rf_gap.module_id and tank_id = rf_gap.tank_id) else 0.0 end)) / 180.0 * pi()
    where module_id = new.rowid;
end;
CREATE TRIGGER update_rf_module_phase_offset after update of phase_offset_cal on rf_module
begin
  update rf_module set
    phase_shift_tmp = (phase_offset_cal + (select value from epics_channel where
    rf_module.phase_channel = epics_channel.id)) where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_delay after update of on_off on rf_module
begin
  update rf_module set
    voltage_tmp = voltage_cal * (select value from epics_channel where rf_module.amplitude_channel = id)
    where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_amplitude_tilt after update of amplitude_tilt_cal on rf_module
begin
  update rf_gap set
    amplitude_tilt_tmp = (select amplitude_tilt_cal from rf_module where rf_gap.module_id = id) *
    (1.0 - 2.0/((select count(*) from rf_gap where module_id = new.rowid) - 1) * (cell_id - 1))
    where module_id = new.rowid;
end;
CREATE TRIGGER update_rf_module_amplitude_scale after update of amplitude_scale_cal on rf_module
begin
  update rf_module set
    operating_amplitude_fraction_tmp = on_off * amplitude_scale_cal *(
        (select c0_cal from diode where diode_id = diode.id) +
        (select c1_cal from diode where diode_id = diode.id) * voltage_tmp +
        (select c2_cal from diode where diode_id = diode.id) * power(voltage_tmp, 2.0) +
        (select c3_cal from diode where diode_id = diode.id) * power(voltage_tmp, 3.0) +
        (select c4_cal from diode where diode_id = diode.id) * power(voltage_tmp, 4.0)) /amplitude_design
    where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_amplitude after update of operating_amplitude_fraction_tmp on rf_module
begin
  update rf_gap set
    amplitude_tmp = amplitude_design * (select operating_amplitude_fraction_tmp
    from rf_module where rf_gap.module_id = id) where module_id = new.rowid;
  update ccl_tank set
    avg_phase_design = (select avg(ref_phase_design) from rf_gap where module_id = ccl_tank.module_id and
    tank_id = ccl_tank.tank_id) where module_id = new.rowid;
  update ccl_tank set
    avg_phase_tmp = -acos(cos(avg_phase_design) /(select case when new.operating_amplitude_fraction_tmp = 0.0
    then 1.0 else new.operating_amplitude_fraction_tmp end)) where module_id = new.rowid;
end;
CREATE TRIGGER update_rf_gap_amplitude_tmp after update of amplitude_tmp on rf_gap
begin
  update rf_gap set
    amplitude_model = amplitude_tmp * (amplitude_tilt_tmp + 1.0) where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_gap_amplitude_tilt after update of amplitude_tilt_tmp on rf_gap
begin
  update rf_gap set
    amplitude_model = amplitude_tmp * (amplitude_tilt_tmp + 1.0) where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_gap_amplitude_model after update of amplitude_model on rf_gap
begin
  update rf_gap set
    ref_phase_model = -acos(cos(ref_phase_design) * amplitude_design/
    (select case when amplitude_model > 0.0 and amplitude_design * cos(ref_phase_design) /
    amplitude_model <= 1.0 then amplitude_model else amplitude_design end))
    where rowid = new.rowid and model_type = 'dtl_gap';
end;
CREATE TRIGGER update_epics_numeric_channel after update of value on epics_channel
```

```
begin
  update epics_channel set
    update_time = datetime('now', 'localtime') where rowid = new.rowid;
-- quad
  update quad set
    gradient_model= polarity_design*(((select a0_cal from quad_family mf where quad.family_cal = mf.id)+
              (select a1_cal from quad_family mf where quad.family_cal = mf.id)*
              ((select value from epics_channel where quad.channel=id)-shunt_cal)+
              (select a2_cal from quad_family mf where quad.family_cal = mf.id)*
              power(((select value from epics_channel where quad.channel=id)-shunt_cal), 2.0)+
              (select a3_cal from quad_family mf where quad.family_cal = mf.id)*
              power(((select value from epics_channel where quad.channel=id)-shunt_cal), 3.0)+
              (select a4_cal from quad_family mf where quad.family_cal = mf.id)*
              power(((select value from epics_channel where quad.channel=id)-shunt_cal), 4.0))/
              (select l_eff_cal from quad_family mf where quad.family_cal = mf.id))
    where exists(select * from epics_channel where quad.channel = new.rowid);
-- rf amplitude
  update rf_module set
    voltage_tmp = voltage_cal * (select value from epics_channel where rf_module.amplitude_channel = id)
    where exists(select * from epics_channel where rf_module.amplitude_channel = new.rowid);
-- rf phase
  update rf_module set
    phase_shift_tmp = (phase_offset_cal + (select value from epics_channel where
      rf_module.phase_channel = id))
    where exists(select * from epics_channel where rf_module.phase_channel = new.rowid);
-- rf on/off
  update rf_module set
    on_off = (select case when (select value from epics_channel where rf_module.delay_channel = id) = 1 then 0 else 1 end)
    where exists(select * from epics_channel where rf_module.delay_channel = new.rowid);
  update epics_channel set
    value_txt = (select case when value = 1 then 'Delayed' else 'In Time' end) where rowid = new.rowid and value_type = 'delay';
end;
CREATE TRIGGER update_ccl_tank_tp after update of tp_design on ccl_tank
begin
  update rf_gap set
    tp_model = (select tp_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_t after update of t_design on ccl_tank
begin
  update rf_gap set
    t_model = (select t_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_sp after update of sp_design on ccl_tank
begin
  update rf_gap set
    sp_model = (select sp_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_phase_offset after update of phase_offset_structure on ccl_tank
begin
  update rf_gap set
    beam_phase_shift_model = ((select phase_shift_tmp from rf_module where rf_gap.module_id = id) +
    (select case when model_type = 'ccl_gap' then (select phase_offset_structure from ccl_tank where
    module_id = rf_gap.module_id and tank_id = rf_gap.tank_id) else 0.0 end)) / 180.0 * pi()
    where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_cell_length after update of cell_length_design on ccl_tank
begin
  update rf_gap set
    length_model = (select cell_length_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_avg_phase after update of avg_phase_tmp on ccl_tank
begin
  update rf_gap set
    ref_phase_model = ref_phase_design + (new.avg_phase_tmp - new.avg_phase_design)
    where new.module_id = module_id and new.tank_id = tank_id;
end;
CREATE TRIGGER insert_epics_channel after insert on epics_channel
begin
  update epics_channel set update_time = datetime('now', 'localtime') where rowid = new.rowid;
end;
CREATE VIEW linac as
  select view_index, name, model_type, model_index from quad union
  select view_index, name, model_type, model_index from rf_gap union
  select view_index, name, model_type, model_index from drift union
  select view_index, name, model_type, model_index from diagnostics;
CREATE VIEW channel_list as
  select view_index, name, model_type, (select lcs_name from epics_channel where id = amplitude_channel) as channel1,
    (select lcs_name from epics_channel where id = phase_channel) as channel2,
    (select lcs_name from epics_channel where id = delay_channel) as channel3,
    (select lcs_name from epics_channel where id = NULL) as channel4 from rf_module union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), null, null, null from quad;
COMMIT;
```

## C. trst.db.sql

```
BEGIN TRANSACTION;
CREATE TABLE steerer(
   id integer primary key,
   name text unique,
   view_index double precision unique,
   bl_h_model double precision not null default 0.0,
   bl_v_model double precision not null default 0.0,
   channel integer references epics_channel(id)
          on delete restrict,
   model_index integer unique,
   model_type text not null default 'steerer'
);
INSERT INTO `steerer` VALUES (1,'TRSM05Y',3.0,0.0,0.0,NULL,484,'steerer');
INSERT INTO `steerer` VALUES (2,'TRSM06X',5.0,0.0,0.0,NULL,486,'steerer');
INSERT INTO `steerer` VALUES (3,'TRSM07X',25.0,0.0,0.0,NULL,519,'steerer');
INSERT INTO `steerer` VALUES (4,'TRSM08Y',27.0,0.0,0.0,NULL,521,'steerer');
CREATE TABLE spch_comp(
   id integer primary key,
   name text,
   view_index double precision unique,
   fraction_model double precision not null default 1.0,
   model_index integer unique,
   model_type text not null default 'spch_comp'
);
CREATE TABLE rotation(
   id integer primary key,
   name text,
   view_index double precision unique,
   angle_model double precision not null default 0.0,
   model_index integer unique,
   model_type text not null default 'rotation'
);
INSERT INTO `rotation` VALUES (1,'TRBM05-BEFORE',10.5,3.14159265358979,493,'rotation');
INSERT INTO `rotation` VALUES (2,'TRBM05-AFTER',11.5,3.14159265358979,495,'rotation');
INSERT INTO `rotation` VALUES (3,'TRBM06-BEFORE',12.5,3.14159265358979,498,'rotation');
INSERT INTO `rotation` VALUES (4,'TRBM06-AFTER',13.5,3.14159265358979,500,'rotation');
INSERT INTO `rotation` VALUES (5,'TRBM07-BEFORE',16.5,3.14159265358979,505,'rotation');
INSERT INTO `rotation` VALUES (6,'TRBM07-AFTER',17.5,3.14159265358979,507,'rotation');
INSERT INTO `rotation` VALUES (7,'TRBM08-BEFORE',18.5,3.14159265358979,510,'rotation');
INSERT INTO `rotation` VALUES (8,'TRBM08-AFTER',19.5,3.14159265358979,512,'rotation');
CREATE TABLE raperture(
   id integer primary key,
   name text,
   view_index double precision unique,
   aperture_xl_model double precision not null default 0.0,
   aperture_xr_model double precision not null default 0.0,
   aperture_yt_model double precision not null default 0.0,
   aperture_yb_model double precision not null default 0.0,
   aperture_center_tmp double precision not null default 0.0,
   in_out_model integer not null default 1,
   channel integer references epics_channel(id)
          on delete restrict,
   channel2 integer references epics_channel(id)
          on delete restrict,
   model_index integer unique,
   model_type text not null default 'raperture'
);
INSERT INTO `raperture` VALUES (1,'TRBM05-APER',11.75,0.0696488118594079,0.0343611881405921,0.0261493,0.0261493,0.140891188140592,1,1,2,496,'raperture');
INSERT INTO `raperture` VALUES (2,'TRBM06-APER',13.75,0.113365177348903,0.0484748226510966,0.0261493,0.0261493,0.0508348226510966,1,1,2,501,'raperture');
INSERT INTO `raperture` VALUES (3,'TRBM07-APER',17.75,0.0696488118594079,0.0343611881405921,0.0261493,0.0261493,0.140891188140592,1,1,2,508,'raperture');
CREATE TABLE quad_family(
   id integer primary key,
   name text,
   l_eff_cal double precision check(l_eff_cal > 0.0),-- effective magnet length
   a0_cal double precision not null default 0.0,
   a1_cal double precision not null default 0.0,
   a2_cal double precision not null default 0.0,
   a3_cal double precision not null default 0.0,
   a4_cal double precision not null default 0.0,
   a6_cal double precision not null default 0.0,
   a14_cal double precision not null default 0.0,
   unique(name, l_eff_cal, a0_cal, a1_cal, a2_cal, a3_cal, a4_cal, a6_cal, a14_cal)
);
INSERT INTO `quad_family` VALUES (1,'TRQM005V01',1.0,0.0,31.344,-0.00458,0.0,0.0,0.0,-7.33e-27);
INSERT INTO `quad_family` VALUES (2,'TRQM006V01',1.0,0.0,31.064,-0.00464,0.0,0.0,0.0,-6.65e-27);
INSERT INTO `quad_family` VALUES (3,'TRQM007V01',1.0,0.0,31.163,-0.0046,0.0,0.0,0.0,-6.61e-27);
INSERT INTO `quad_family` VALUES (4,'TRQM008V01',1.0,0.0,31.289,-0.00469,0.0,0.0,0.0,-7.03e-27);
CREATE TABLE quad(
   id integer primary key,
   name text unique,
   view_index double precision unique,
   monitor integer not null default 0,
   gradient_model double precision default 0.0,
```

```sql
    length_model double precision,
    aperture_model double precision,
    family_cal  integer references quad_family(id)
          on delete restrict,
    shunt_cal double precision,
    polarity_design integer not null default 1.0,
    channel integer references epics_channel(id)
          on delete restrict,
    model_index integer unique,
    model_type text not null default 'quad'
);
INSERT INTO `quad` VALUES (1,'TRQM05',7.0,0,16.341,0.12,0.0,1,0.0,1,3,489,'quad');
INSERT INTO `quad` VALUES (2,'TRQM06',9.0,0,-12.689,0.12,0.0,2,0.0,-1,4,491,'quad');
INSERT INTO `quad` VALUES (3,'TRQM07',21.0,0,-19.648,0.12,0.0,3,0.0,-1,5,514,'quad');
INSERT INTO `quad` VALUES (4,'TRQM08',23.0,0,20.7282,0.12,0.0,4,0.0,1,6,516,'quad');
CREATE TABLE epics_channel(
    id integer primary key,
    lcs_name text unique,
    value_type text,  -- current or voltage
    value double precision default 0.0,
    thresh double precision default 0.0,
    value_txt text default 'NA',
    update_time date --default datetime('now')
);
INSERT INTO `epics_channel` VALUES (1,'TRMP001V04','dipole',44.094,0.0,'NA','2014-08-28 15:07:17');
INSERT INTO `epics_channel` VALUES (2,'TRMP002V04','dipole',40.0,0.0,'NA','2014-11-24 11:26:16');
INSERT INTO `epics_channel` VALUES (3,'TRQM005V01','DVM',0.0,0.05,'NA','2014-08-25 13:47:35');
INSERT INTO `epics_channel` VALUES (4,'TRQM006V01','DVM',0.0,0.05,'NA','2014-08-25 12:10:40');
INSERT INTO `epics_channel` VALUES (5,'TRQM007V01','DVM',0.0,0.05,'NA','2014-08-25 12:10:56');
INSERT INTO `epics_channel` VALUES (6,'TRQM008V01','DVM',0.0,0.05,'NA','2014-08-25 12:11:15');
CREATE TABLE drift(
    id integer primary key,
    name text unique,
    view_index double precision unique,
    length_model double precision,
    aperture_model double precision,
    dz_design double precision default 0.0,
    channel integer references epics_channel(id)
          on delete restrict,
    channel2 integer references epics_channel(id)
          on delete restrict,
    model_index integer unique,
    model_type text not null default 'drift'
);
INSERT INTO `drift` VALUES (1,'TRDR01',0.0,0.1751,0.0254,0.0,'','',479,'drift');
INSERT INTO `drift` VALUES (2,'TRDR02',0.5,0.0575,0.0254,0.0,'','',481,'drift');
INSERT INTO `drift` VALUES (3,'TRDR03',2.0,0.1952,0.0254,0.0,'','',483,'drift');
INSERT INTO `drift` VALUES (4,'TRDR04',4.0,0.141,0.0254,0.0,'','',485,'drift');
INSERT INTO `drift` VALUES (5,'TRDR05',6.0,0.1321,0.0254,0.0,'','',487,'drift');
INSERT INTO `drift` VALUES (6,'TRDR06',8.0,0.0737,0.0254,0.0,'','',490,'drift');
INSERT INTO `drift` VALUES (7,'TRDR07',10.0,0.087,0.0254,0.0,'','',492,'drift');
INSERT INTO `drift` VALUES (8,'TRDR08',12.0,0.0437705652838511,0.0254,0.04137722,1,2,497,'drift');
INSERT INTO `drift` VALUES (9,'TRDR09',14.0,0.05,0.0254,0.0,'','',502,'drift');
INSERT INTO `drift` VALUES (10,'TRDR10',16.0,0.05,0.0254,0.0,'','',504,'drift');
INSERT INTO `drift` VALUES (11,'TRDR11',18.0,0.0437705652838511,0.0254,0.04137722,1,2,509,'drift');
INSERT INTO `drift` VALUES (12,'TRDR12',20.0,0.09,0.0254,0.0,'','',513,'drift');
INSERT INTO `drift` VALUES (13,'TRDR13',22.0,0.0737,0.0254,0.0,'','',515,'drift');
INSERT INTO `drift` VALUES (14,'TRDR14',24.0,0.1291,0.0254,0.0,'','',518,'drift');
INSERT INTO `drift` VALUES (15,'TRDR15',26.0,0.141,0.0254,0.0,'','',520,'drift');
INSERT INTO `drift` VALUES (16,'TRDR16',28.0,0.1952,0.0254,0.0,'','',522,'drift');
INSERT INTO `drift` VALUES (17,'TRDR17',30.0,0.0575,0.0254,0.0,'','',524,'drift');
INSERT INTO `drift` VALUES (18,'TRDR18',32.0,0.1284,0.0254,0.0,'','',526,'drift');
CREATE TABLE dipole(
    id integer primary key,
    name text unique,
    view_index double precision unique,
    rho_model double precision,
    angle_model double precision,
    half_gap_model double precision,
    edge_angle1_model double precision not null default 0.0,
    edge_angle2_model double precision not null default 0.0,
    k1_model double precision not null default 0.45,
    k2_model double precision not null default 2.8,
    field_index_model double precision not null default 0.0,
    kenergy_model double precision default 100.0,
    bfield_ratio_tmp double precision default 1.0,
    bfield_ratio_cal double precision default 1.0,
    current_ratio_tmp double precision default 0.0,
    kenergy_design double precision default 100.0,
    mc2_design double precision default 939.272,
    channel integer references epics_channel(id)
          on delete restrict,
    channel2 integer references epics_channel(id)
          on delete restrict,
    model_index integer unique,
    model_type text not null default 'dipole'
```

```
);
INSERT INTO `dipole` VALUES (1,'TRBM01',1.0,1.32155958887372,0.349065850398866,0.02853,0.0,0.349065850398866,-0.424,0.002,-0.204,100.0,1.0,44.094,NULL,100.0,939.272,1,'',482,'dipole');
INSERT INTO `dipole` VALUES (2,'TRBM05',11.0,28.46743942931,0.016845943445215,0.02853,0.349065850398866,-0.332219906953651,-0.424,0.002,-0.204,100.0,1.0,44.094,0.9071529006214,100.0,939.272,1,2,494,'dipole');
INSERT INTO `dipole` VALUES (3,'TRBM06',13.0,1.38589788835821,0.332219906953651,0.02853,0.332219906953651,0.0,-0.424,0.002,-0.204,100.0,1.0,44.094,0.9071529006214,100.0,939.272,1,2,499,'dipole');
INSERT INTO `dipole` VALUES (4,'TRBM07',17.0,1.38589788835821,0.332219906953651,0.02853,0.0,0.332219906953651,-0.424,0.002,-0.204,100.0,1.0,44.094,0.9071529006214,100.0,939.272,1,2,506,'dipole');
INSERT INTO `dipole` VALUES (5,'TRBM08',19.0,28.46743942931,0.016845943445215,0.02853,-0.332219906953651,0.349065850398866,-0.424,0.002,-0.204,100.0,1.0,44.094,0.9071529006214,100.0,939.272,1,2,511,'dipole');
INSERT INTO `dipole` VALUES (6,'TRBM04',29.0,1.32155958887372,0.349065850398866,0.02853,0.349065850398866,0.0,-0.424,0.002,-0.204,100.0,1.0,44.094,NULL,100.0,939.272,1,'',523,'dipole');
CREATE TABLE diagnostics(
  id integer primary key,
  name text,
  view_index double precision unique,
  diag_type text,
  monitor integer not null default 0,
  model_index integer unique,
  model_type text not null default 'diagnostics'
);
INSERT INTO `diagnostics` VALUES (1,'TREM01',0.3,'EM',0,480,'diagnostics');
INSERT INTO `diagnostics` VALUES (2,'TRHP06',6.8,'HP',0,488,'diagnostics');
INSERT INTO `diagnostics` VALUES (3,'TRHP07',15.0,'HP',0,503,'diagnostics');
INSERT INTO `diagnostics` VALUES (4,'TRHP08',23.2,'HP',0,517,'diagnostics');
INSERT INTO `diagnostics` VALUES (5,'TREM02',31.0,'EM',0,525,'diagnostics');
CREATE TABLE caperture(
  id integer primary key,
  name text,
  view_index double precision unique,
  aperture_model double precision not null default 0.0,
  in_out_model integer not null default 1,
  model_index integer unique,
  model_type text not null default 'caperture'
);
CREATE TABLE buncher(
  id integer primary key,
  name text,
  view_index double precision unique,
  on_off integer not null default 1,
  phase_model double precision not null default 0.0,
  phase_offset_cal double precision not null default 0.0,
  voltage_model double precision not null default 0.0,
  c0_cal double precision not null default 1.0,
  c1_cal double precision not null default 0.0,
  c2_cal double precision not null default 0.0,
  c3_cal double precision not null default 0.0,
  c4_cal double precision not null default 0.0,
  frequency_model double precision not null default 0.0,
  aperture_model double precision not null default 0.0,
  amplitude_channel integer references epics_channel(id)
          on delete restrict,
  phase_channel integer references epics_channel(id)
          on delete restrict,
  on_off_channel integer references epics_channel(id)
          on delete restrict,
  model_index integer unique,
  model_type text not null default 'buncher'
);
CREATE TRIGGER update_rho after update of rho_model on dipole
begin
  update dipole set angle_model = 20.0/180.0*pi() - asin(sin(20.0/180.0*pi()) - 0.452/rho_model) where id == 2 or id == 5;
  update dipole set angle_model = asin(0.452/rho_model) where id == 3 or id == 4;
end;
CREATE TRIGGER update_epics_channel after update of value on epics_channel
begin
  update epics_channel set update_time = datetime('now', 'localtime') where rowid = new.rowid;
  update quad set
    polarity_design = (select case when value >= 0.0 then 1.0 else -1.0 end from epics_channel where quad.channel=id)
    where exists(select * from epics_channel where quad.channel=new.rowid AND value_type = 'DVM');
  update quad set
    gradient_model= 0.01*polarity_design*(((select a0_cal from quad_family mf where quad.family_cal = mf.id)+
            (select a1_cal from quad_family mf where quad.family_cal = mf.id)*
            ((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal)+
            (select a2_cal from quad_family mf where quad.family_cal = mf.id)*
            power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 2.0)+
            (select a3_cal from quad_family mf where quad.family_cal = mf.id)*
            power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 3.0)+
            (select a4_cal from quad_family mf where quad.family_cal = mf.id)*
            power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 4.0)+
            (select a6_cal from quad_family mf where quad.family_cal = mf.id)*
            power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 6.0)+
            (select a14_cal from quad_family mf where quad.family_cal = mf.id)*
            power(((select case when abs(value) > thresh then abs(value) else 0.0 end from epics_channel where quad.channel=id)-shunt_cal), 14.0))/
            (select l_eff_cal from quad_family mf where quad.family_cal = mf.id))
    where exists(select * from epics_channel where quad.channel=new.rowid);
--- update dipole energy/momentum ----
  update dipole set
    bfield_ratio_tmp = (select value from epics_channel where dipole.channel = id)/ bfield_ratio_cal
```

```
    where exists(select * from epics_channel where dipole.channel = new.rowid);
--- update dipole rho ---
  update dipole set
    current_ratio_tmp = (select value from epics_channel where dipole.channel2 = id) / (select value from epics_channel where dipole.channel = id)
    where exists(select * from epics_channel where dipole.channel = new.rowid or dipole.channel2 = new.rowid);
end;
CREATE TRIGGER update_current_ratio after update of current_ratio_tmp on dipole
begin
  update dipole set rho_model = (select case when current_ratio_tmp != 1 then 2.0 * 0.452 / sin(20.0/180.0*pi()) / (1.0 - current_ratio_tmp) else 1e20 end) where id == 2 or id == 5;
  update dipole set rho_model = 2.0 * 0.452 / sin(20.0/180.0*pi()) / (1.0 + current_ratio_tmp) where id == 3 or id == 4;
end;
CREATE TRIGGER update_bfield_ratio AFTER UPDATE OF bfield_ratio_tmp ON dipole
begin
  update dipole set kenergy_model = mc2_design * (sqrt(1.0 + bfield_ratio_tmp *bfield_ratio_tmp* (kenergy_design/mc2_design) * (kenergy_design/mc2_design + 2.0)) - 1.0)
    where rowid = new.rowid;
end;
CREATE TRIGGER update_aperture_center after update of aperture_center_tmp on raperture
begin
  update raperture set aperture_xl_model = 0.2129 - aperture_center_tmp - 0.00236 where id == 1 or id == 3;
  update raperture set aperture_xr_model = aperture_center_tmp - 0.10417 - 0.00236 where id == 1 or id == 3;
  update raperture set aperture_xl_model = 0.16656 - aperture_center_tmp - 0.00236 where id == 2;
  update raperture set aperture_xr_model = aperture_center_tmp - 0.00236 where id == 2;
end;
CREATE TRIGGER update_angle after update of angle_model on dipole
begin
  update dipole set edge_angle2_model = -(20.0/180.0*pi() - angle_model) where id == 2;
  update dipole set edge_angle1_model = -(20.0/180.0*pi() - angle_model) where id == 5;
  update dipole set edge_angle1_model = angle_model where id == 3;
  update dipole set edge_angle2_model = angle_model where id == 4;
  update drift set length_model = dz_design/cos((select angle_model from dipole where id == 3)) where channel != '';
  update raperture set aperture_center_tmp = 0.01 * (21.885 - (45.2 * tan(20.0/180.0*pi() -
        0.5*(select angle_model from dipole where id == 2)) - 0.5 * 45.2 * tan(20.0/180.0*pi())))
    where id == 1 or id == 3;
  update raperture set aperture_center_tmp = 0.01 * (21.885 - (45.2 * tan(0.5 * (select angle_model from dipole where id == 3)) +
        4.138 * tan((select angle_model from dipole where id == 3)) +
        45.2 * tan(20.0/180.0*pi() - 0.5*(select angle_model from dipole where id == 2)) -
        0.5*45.2*tan(20.0/180.0*pi())))
    where id == 2;
end;
CREATE TRIGGER insert_epics_channel after insert on epics_channel
begin
  update epics_channel set update_time = datetime('now', 'localtime') where rowid = new.rowid;
end;
CREATE VIEW linac as
  select view_index, name, model_type, model_index from buncher union
  select view_index, name, model_type, model_index from quad union
  select view_index, name, model_type, model_index from dipole union
  select view_index, name, model_type, model_index from drift union
  select view_index, name, model_type, model_index from rotation union
  select view_index, name, model_type, model_index from caperture union
  select view_index, name, model_type, model_index from raperture union
  select view_index, name, model_type, model_index from diagnostics union
  select view_index, name, model_type, model_index from steerer union
  select view_index, name, model_type, model_index from spch_comp;
CREATE VIEW channel_list as
  select view_index, name, model_type, (select lcs_name from epics_channel where id = amplitude_channel) as channel1,
    (select lcs_name from epics_channel where id = phase_channel) as channel2,
    (select lcs_name from epics_channel where id = on_off_channel) as channel3,
    (select lcs_name from epics_channel where id = NULL) as channel4 from buncher union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), NULL, NULL, NULL from quad union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), NULL, NULL, NULL from steerer union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel),
    (select lcs_name from epics_channel where id = channel2), NULL, NULL from drift where channel != '' union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel),
    (select lcs_name from epics_channel where id = channel2), NULL, NULL from raperture where channel != '' union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel),
    (select lcs_name from epics_channel where id = channel2), NULL, NULL from dipole;
COMMIT;
```

## D. ccl.db.sql

```sql
BEGIN TRANSACTION;
CREATE TABLE transit_time_factor(
  id integer primary key,
  name text,
  module_id integer,
  tank_id integer,
  beta_g double precision not null,
  beta_min double precision not null,
  ta0 double precision not null,
  ta1 double precision not null,
  ta2 double precision not null,
  ta3 double precision not null,
  ta4 double precision not null,
  ta5 double precision not null,
  sa0 double precision not null,
  sa1 double precision not null,
  sa2 double precision not null,
  sa3 double precision not null,
  sa4 double precision not null,
  sa5 double precision not null
);
INSERT INTO `transit_time_factor` VALUES (1,'05TK01',5,1,0.431102039265,0.215551019632,-0.605270926983,8.71279835455,-17.8694571267,13.0015059946,0.0,0.0,0.834910556835,-0.907393695614,-1.29030939288,2.29019931701,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (2,'05TK02',5,2,0.436869829461,0.21843491473,-0.598966304541,8.57251565075,-17.3623492595,12.4727376897,0.0,0.0,0.840586450532,-0.94549836795,-1.13501557269,2.1043178724,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (3,'05TK03',5,3,0.442589286219,0.221294643109,-0.592819459977,8.43720835348,-16.8790933457,11.9750687939,0.0,0.0,0.846097580737,-0.981143603748,-0.99148975699,1.93430977267,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (4,'05TK04',5,4,0.448249668776,0.224124834388,-0.586713618879,8.3077876947,-16.4233582745,11.5115023302,0.0,0.0,0.852182741285,-1.01975924836,-0.84700959933,1.76989225688,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (5,'06TK01',6,1,0.453700606437,0.226850303219,-0.581198667765,8.18670991094,-15.999892697,11.0853428703,0.0,0.0,0.857314101329,-1.05060240857,-0.726407663885,1.63026566914,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (6,'06TK02',6,2,0.458952839968,0.229476419984,-0.576054005439,8.07357227948,-15.6079277144,10.6950652492,0.0,0.0,0.862157488773,-1.07863889294,-0.617794730665,1.50553838811,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (7,'06TK03',6,3,0.464151369679,0.232075684839,-0.5711552946,7.96491916032,-15.2345688679,10.3269699089,0.0,0.0,0.866894385842,-1.10495214583,-0.516979454739,1.39074580126,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (8,'06TK04',6,4,0.469312306716,0.234656153358,-0.56639254413,7.85982034748,-14.8769656763,9.97807886398,0.0,0.0,0.871512296461,-1.12983078171,-0.422600991062,1.2842008067,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (9,'07TK01',7,1,0.47440879917,0.237204399585,-0.561881228347,7.75910168806,-14.5368536244,9.64935991751,0.0,0.0,0.87600018498,-1.15306740433,-0.335183641077,1.18621667771,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (10,'07TK02',7,2,0.479473069333,0.239736534666,-0.557376207553,7.66182824577,-14.2121505357,9.33869338663,0.0,0.0,0.880871663474,-1.1783173268,-0.246483091334,1.09039513647,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (11,'07TK03',7,3,0.484478265294,0.242239132647,-0.553172029593,7.56790069887,-13.9004525451,9.0432094061,0.0,0.0,0.885176301776,-1.19903637751,-0.170236051861,1.00629453297,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (12,'07TK04',7,4,0.4894404982,0.2447202491,-0.549165267932,7.47737889634,-13.6021910154,8.76293868004,0.0,0.0,0.889376198924,-1.21858186309,-0.098845789405,0.928077276399,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (13,'08TK01',8,1,0.494349027286,0.247174513643,-0.545272792859,7.38986940532,-13.3164729803,8.49701760356,0.0,0.0,0.893498745505,-1.23722022753,-0.0316282747277,0.855097014174,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (14,'08TK02',8,2,0.499219963699,0.24960998185,-0.54159092546,7.30552067338,-13.0427143519,8.2442981241,0.0,0.0,0.897500563301,-1.25448819977,0.0304569178957,0.787901829665,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (15,'08TK03',8,3,0.504042566675,0.252021283337,-0.537982722204,7.22357223457,-12.7791925818,8.0033111738,0.0,0.0,0.901411579032,-1.27073497647,0.0884069857584,0.725538775812,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (16,'08TK04',8,4,0.508822206595,0.254411103297,-0.534536119472,7.14460310298,-12.527016192,7.77460929097,0.0,0.0,0.905258185893,-1.28633323283,0.143345674884,0.666950240539,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (17,'09TK01',9,1,0.513548142695,0.256774071348,-0.531290006376,7.06850606444,-12.2852915979,7.55705363541,0.0,0.0,0.908988860973,-1.30072652299,0.194001372987,0.613002738791,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (18,'09TK02',9,2,0.518220374977,0.259110187488,-0.528044202147,6.99498190434,-12.054139527,7.35086100372,0.0,0.0,0.912962021745,-1.31638194469,0.245376816159,0.560263766167,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (19,'09TK03',9,3,0.522860384967,0.261430192483,-0.524919423803,6.92302730543,-11.8294736484,7.15214691693,0.0,0.0,0.916563442103,-1.32945041407,0.290363111689,0.513033625548,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (20,'09TK04',9,4,0.527452061519,0.26372603076,-0.522062425187,6.85419164334,-11.6151704035,6.96383690671,0.0,0.0,0.920058551316,-1.3415185573,0.331979155189,0.469330363243,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (21,'10TK01',10,1,0.531861145086,0.265930572543,-0.519309443589,6.78899187313,-11.4139752994,6.78852388926,0.0,0.0,0.923367132724,-1.35255521196,0.369760834106,0.429841460471,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (22,'10TK02',10,2,0.536093006049,0.268046503024,-0.517142373514,6.72971080633,-11.2296712019,6.62824292393,0.0,0.0,0.926211027314,-1.3613844731,0.40199603135,0.395306225461,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (23,'10TK03',10,3,0.540281903956,0.270140951978,-0.514735213224,6.6705837218,-11.0490454001,6.4729643647,0.0,0.0,0.929282035221,-1.37095001218,0.434491941362,0.361554869233,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (24,'10TK04',10,4,0.544438579572,0.272219289786,-0.512353306289,6.61271071697,-10.873604991,6.32328822719,0.0,0.0,0.932293288018,-1.3800287485,0.465168192893,0.32980013045,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (25,'11TK01',11,1,0.548552292133,0.274276146066,-0.510065124092,6.5565704735,-10.7043531029,6.17985182275,0.0,0.0,0.935225934466,-1.38848392976,0.493696031788,0.300278233451,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (26,'11TK02',11,2,0.55262841202,0.27631420601,-0.507721320057,6.50170580321,-10.5406474797,6.04222910955,0.0,0.0,0.938473288745,-1.39830080913,0.523716860919,0.270665043525,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (27,'11TK03',11,3,0.556661568851,0.278330784426,-0.505627397067,6.44879564228,-10.3827147301,5.91008109696,0.0,0.0,0.941313878547,-1.40597864946,0.549328417642,0.244338098897,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (28,'11TK04',11,4,0.560662503391,0.280331251695,-0.503531653478,6.39686450132,-10.2289832084,5.78242661399,0.0,0.0,0.944053017798,-1.41291926752,0.572696465504,0.220158509949,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (29,'12TK01',12,1,0.564620474875,0.282310237438,-0.501656735962,6.34720502789,-10.0819624329,5.66084377745,0.0,0.0,0.94677956322,-1.4197125161,0.595263822161,0.19699142308,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (30,'12TK02',12,2,0.568530112922,0.284265056461,-0.499752289077,6.29845658054,-9.93896860629,5.54351546931,0.0,0.0,0.949415346448,-1.4259562835,0.616100035681,0.175525541217,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (31,'12TK03',12,3,0.57241289906,0.28620644953,-0.497932713729,6.25098631269,-9.80031469915,5.43040160464,0.0,0.0,0.952025638941,-1.4319976972,0.636107058372,0.155012652539,0.0,0.0);
```

```
INSERT INTO `transit_time_factor` VALUES (32,'12TK04',12,4,0.576258092524,0.288129046262,-0.496206889603,6.20481496921,-9.66595781942,5.32139915163,0.0,0.0,0.954564077926,-1.43748642084,0.654473749983,0.136034571913,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (33,'13TK01',13,1,0.581768104386,0.290884052193,-0.65781584205,6.69031188386,-10.1926841503,5.50543511894,0.0,0.0,0.858523634811,-0.707510795585,0.697459543914,0.940508526622,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (34,'13TK02',13,2,0.588910712357,0.294455356178,-0.654105938809,6.59998427782,-9.93925219746,5.30589832365,0.0,0.0,0.863723685037,-0.729793292796,0.626445846615,0.87515886185,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (35,'14TK01',14,1,0.595790171613,0.297895085806,-0.650692397205,6.51560943015,-9.70464109855,5.12313086071,0.0,0.0,0.868620985746,-0.7499196263,0.562678722618,0.816872731241,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (36,'14TK02',14,2,0.602427963681,0.301213981841,-0.647458335982,6.43615569333,-9.48598433275,4.95460966218,0.0,0.0,0.87329731589,-0.768572223875,0.504303800571,0.764039887654,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (37,'15TK01',15,1,0.608942236966,0.304471118483,-0.644374631057,6.36034039361,-9.2791758858,4.79676240264,0.0,0.0,0.877987919308,-0.786825092205,0.448909741125,0.714755092888,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (38,'15TK02',15,2,0.615338361848,0.307669180924,-0.641483747472,6.28769417567,-9.08262359542,4.6482116083,0.0,0.0,0.882470339604,-0.803443040469,0.398227765499,0.669710111084,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (39,'16TK01',16,1,0.621610967945,0.310805483973,-0.638733974088,6.21815524921,-8.89599842876,4.50844668236,0.0,0.0,0.886711000512,-0.818693274496,0.35162563718,0.628471141164,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (40,'16TK02',16,2,0.627770796022,0.313885398011,-0.636092102029,6.15129035645,-8.71813109088,4.37649973278,0.0,0.0,0.890828520015,-0.833034341637,0.30819335205,0.590257192207,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (41,'17TK01',17,1,0.633812475696,0.316906237848,-0.633660163011,6.08759649955,-8.54967690244,4.252539619,0.0,0.0,0.894790602149,-0.846282581902,0.268130837056,0.55515720686,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (42,'17TK02',17,2,0.63974137735,0.319870688675,-0.631319050786,6.02639307273,-8.3891618158,4.13546439841,0.0,0.0,0.898698058767,-0.859172847932,0.229989535892,0.522064284202,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (43,'18TK01',18,1,0.645552130601,0.322776065301,-0.62907263683,5.96775628113,-8.23656003351,4.02508144363,0.0,0.0,0.902560745164,-0.87157526514,0.193877838599,0.491273941037,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (44,'18TK02',18,2,0.651260846595,0.325630423298,-0.626946642411,5.91114673979,-8.09027124321,3.92014669408,0.0,0.0,0.906227653837,-0.882629905042,0.161275026315,0.463232810687,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (45,'19TK01',19,1,0.656760117695,0.328380058847,-0.624951186101,5.85777131891,-7.95330183957,3.8226553535,0.0,0.0,0.909712600358,-0.8930560784,0.130823293879,0.437279378712,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (46,'19TK02',19,2,0.662071425426,0.331035712713,-0.623109404125,5.80731085145,-7.82455252868,3.73167872087,0.0,0.0,0.913018838928,-0.902566110951,0.103014090479,0.413614870837,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (47,'20TK01',20,1,0.667269955137,0.333634977568,-0.621398731799,5.75904005331,-7.70200313751,3.64565963166,0.0,0.0,0.91620792539,-0.911416144823,0.0771589957284,0.391662473312,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (48,'20TK02',20,2,0.672387929119,0.336193964559,-0.619704588836,5.71206956751,-7.5837140765,3.56327325868,0.0,0.0,0.919329059097,-0.919897187996,0.0525832409616,0.370929264641,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (49,'21TK01',21,1,0.677398495462,0.338699247731,-0.618120143092,5.66706588097,-7.47096160323,3.48525803744,0.0,0.0,0.922352418808,-0.927879229431,0.0295382077304,0.351557863873,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (50,'21TK02',21,2,0.682328506076,0.341164253038,-0.616597336467,5.62371038054,-7.36296911627,3.41101272346,0.0,0.0,0.925364495305,-0.935696669852,0.00755654848723,0.33330734331,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (51,'22TK01',22,1,0.687161849815,0.343580924908,-0.615137134096,5.58163267844,-7.2587951273,3.3398851177,0.0,0.0,0.92823628141,-0.942880847793,0.0129683331464,0.316201986576,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (52,'22TK02',22,2,0.69189852668,0.34594926334,-0.613727892916,5.54109181418,-7.15907918565,3.27225793943,0.0,0.0,0.931030774516,-0.949545351662,0.0319563267099,0.300384007445,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (53,'23TK01',23,1,0.696560018198,0.348280009099,-0.612420360666,5.5019549519,-7.06314825904,3.20754849244,0.0,0.0,0.933744750865,-0.955947118263,0.0501534175752,0.285303888718,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (54,'23TK02',23,2,0.701119472459,0.350559736229,-0.611168228077,5.46425451553,-6.97125665582,3.14594670382,0.0,0.0,0.93637035495,-0.961977523442,0.0672694769097,0.271151068362,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (55,'24TK01',24,1,0.705528556025,0.352764278013,-0.630049852575,5.48978475816,-6.95637601297,3.11835541325,0.0,0.0,0.933376494052,-0.920317606148,0.00587875096033,0.29753614847,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (56,'24TK02',24,2,0.709781898516,0.354890949258,-0.629087155109,5.45575201312,-6.87370026461,3.06345006536,0.0,0.0,0.935767221103,-0.92561026655,0.0212057291597,0.284859723409,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (57,'25TK01',25,1,0.713949314896,0.356974657448,-0.628103135199,5.42263595337,-6.79388991116,3.01079658841,0.0,0.0,0.938086936436,-0.93063399026,0.0356793969557,0.272934508086,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (58,'25TK02',25,2,0.718052286692,0.359026143346,-0.627206040325,5.39059689461,-6.71685172858,2.96019817183,0.0,0.0,0.940337657199,-0.935310512817,0.0492963083611,0.261679197446,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (59,'26TK01',26,1,0.722069332378,0.361034666189,-0.626355951658,5.3596951005,-6.64287478743,2.91185827009,0.0,0.0,0.942576487679,-0.939858395311,0.062282094632,0.251021318017,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (60,'26TK02',26,2,0.72602193348,0.36301096674,-0.625502698189,5.32967605342,-6.57144389778,2.86543525188,0.0,0.0,0.944817339802,-0.944613588326,0.0753437895713,0.240526969351,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (61,'27TK01',27,1,0.729899349236,0.364949674618,-0.62468590111,5.30040752935,-6.50210959281,2.82060848206,0.0,0.0,0.946897593444,-0.948627788605,0.0869644831175,0.230981906219,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (62,'27TK02',27,2,0.733712320408,0.366856160204,-0.623910045198,5.27203041042,-6.43515294137,2.77752468117,0.0,0.0,0.948947263064,-0.952574164428,0.098274102722,0.221754681226,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (63,'28TK01',28,1,0.737460846997,0.368730423498,-0.6231625915,5.24443493012,-6.37031618536,2.7360016903,0.0,0.0,0.950924301649,-0.956208240831,0.108826476842,0.213102332674,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (64,'28TK02',28,2,0.741128817857,0.370564408929,-0.622528007015,5.21807529952,-6.30835673305,2.69643975968,0.0,0.0,0.952823737544,-0.959502745464,0.118577290797,0.205042557018,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (65,'29TK01',29,1,0.744743084898,0.372371542449,-0.621861448287,5.19212998817,-6.24780364779,2.65799485508,0.0,0.0,0.954746157987,-0.963002038824,0.128486450134,0.19703072777,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (66,'29TK02',29,2,0.748292907355,0.374146453678,-0.621169113866,5.16679372593,-6.18909606016,2.62092609526,0.0,0.0,0.95655336689,-0.966031159229,0.137404226043,0.189699943562,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (67,'30TK01',30,1,0.751708470265,0.375854235132,-0.620603359576,5.14293668572,-6.13371892508,2.58604277366,0.0,0.0,0.958323835505,-0.969022652961,0.1460360437,0.182675329988,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (68,'30TK02',30,2,0.755011255153,0.377505627577,-0.620079808195,5.12016462393,-6.0810241118,2.55298093298,0.0,0.0,0.960007379016,-0.971739332404,0.153990450244,0.176163731731,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (69,'31TK01',31,1,0.758249595459,0.379124797729,-0.619502337698,5.09779594685,-6.02970282726,2.52096439758,0.0,0.0,0.961725679659,-0.97464761783,0.162020766609,0.169751843281,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (70,'31TK02',31,2,0.761439602326,0.380719801163,-0.618996503822,5.07614963078,-5.98001816668,2.49004613426,0.0,0.0,0.963351342297,-0.977165625759,0.169297507483,0.163820643466,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (71,'32TK01',32,1,0.764570534993,0.382285267497,-0.618470016855,5.05496314471,-5.93170091773,2.46012400326,0.0,0.0,0.964930381341,-0.979627570701,0.176387275115,0.158078790809,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (72,'32TK02',32,2,0.767653134223,0.383826567111,-0.617997339873,5.03444242096,-5.88494667589,2.43125765893,0.0,0.0,0.966466926971,-0.981929141259,0.18310083269,0.152615442536,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (73,'33TK01',33,1,0.770682029633,0.385341014816,-0.617540913691,5.01440225017,-5.83944141462,2.40326828308,0.0,0.0,0.967951184454,-0.984025428292,0.189367070164,0.147464581438,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (74,'33TK02',33,2,0.773651850841,0.386825925421,-0.617109130555,4.99497917435,-5.79545086004,2.37629834673,0.0,0.0,0.969425636562,-0.986181975067,0.195618333665,0.142404749332,0.0,0.0);
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INSERT INTO `transit_time_factor` VALUES (75,'34TK01',34,1,0.776578708995,0.388289354497,-0.61670699589,4.97596259051,-5.75246841408,2.35003338037,0.0,0.0,0.970832631695,-0.988007293399,0.20123566985,0.137740518577,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (76,'34TK02',34,2,0.779451863329,0.389725931664,-0.616296082899,4.95749159299,-5.71092593882,2.32474836602,0.0,0.0,0.972234037766,-0.989952954186,0.206926907138,0.133119857754,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (77,'35TK01',35,1,0.782282054607,0.391141027304,-0.658948207959,5.05898743374,-5.79779061366,2.3488585291,0.0,0.0,0.96172952008,-0.900730320927,0.0782070430527,0.190511233076,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (78,'35TK02',35,2,0.785058542067,0.392529271033,-0.658589603555,5.04096797829,-5.75745786781,2.32448418781,0.0,0.0,0.963049900852,-0.902656486505,0.0840963992288,0.185753372776,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (79,'36TK01',36,1,0.787738362651,0.393869181325,-0.65827698157,5.02389787176,-5.71927642719,2.30146360543,0.0,0.0,0.964358370188,-0.904686496002,0.0899879581611,0.181101039022,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (80,'36TK02',36,2,0.790332257124,0.395166128562,-0.658024223097,5.00759708401,-5.68277208379,2.27949367409,0.0,0.0,0.965596864328,-0.906458495023,0.0953416524594,0.176804537763,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (81,'37TK01',37,1,0.792872447778,0.396436223889,-0.65773061768,4.99154919511,-5.64710089508,2.25812737062,0.0,0.0,0.966804482642,-0.908187931346,0.100541624233,0.172646574563,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (82,'37TK02',37,2,0.795380416141,0.397690208071,-0.657450970326,4.97589530341,-5.61238732884,2.23739161809,0.0,0.0,0.96801158895,-0.909969290074,0.105736073763,0.168550009843,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (83,'38TK01',38,1,0.797840051066,0.398920025533,-0.65719653658,4.96069176663,-5.57871628628,2.21733115951,0.0,0.0,0.969182641788,-0.91164062361,0.110683786007,0.164627240707,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (84,'38TK02',38,2,0.800272834082,0.400136417041,-0.656959715975,4.94577370135,-5.54572551697,2.19772129475,0.0,0.0,0.970308390134,-0.913105516414,0.115224026336,0.160963684503,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (85,'39TK01',39,1,0.802651913278,0.401325956639,-0.656765168573,4.931378082,-5.51386314413,2.17881303128,0.0,0.0,0.971418826604,-0.914564718316,0.119689666395,0.157381953183,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (86,'39TK02',39,2,0.804998770182,0.402499385091,-0.656530274863,4.91709673343,-5.48248198481,2.16027241257,0.0,0.0,0.972512878145,-0.916017248093,0.124081942953,0.153883208236,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (87,'40TK01',40,1,0.807308034414,0.403654017207,-0.656302665754,4.90315535698,-5.45193071619,2.14227477485,0.0,0.0,0.973561366962,-0.917296040197,0.128119192502,0.150610690566,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (88,'40TK02',40,2,0.809590446735,0.404795223368,-0.656043931433,4.88935213985,-5.42186340872,2.1246274497,0.0,0.0,0.974635547742,-0.918782435423,0.132437344581,0.147232851404,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (89,'41TK01',41,1,0.811829896001,0.405914948,-0.655835659885,4.87603332174,-5.39280763355,2.1076003508,0.0,0.0,0.975634176621,-0.919931102913,0.136148730216,0.144208269891,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (90,'41TK02',41,2,0.814031752593,0.407015876297,-0.655619484373,4.86292222366,-5.36429707478,2.09093640501,0.0,0.0,0.976650201746,-0.921228344601,0.140048330763,0.141120932865,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (91,'42TK01',42,1,0.816201386894,0.408100693447,-0.655460464058,4.85027108125,-5.33670672743,2.07482407913,0.0,0.0,0.977630254088,-0.922369200411,0.143644865321,0.138220751492,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (92,'42TK02',42,2,0.81832805814,0.40916402907,-0.655230168261,4.83773509891,-5.30965054179,2.05910174032,0.0,0.0,0.978673704349,-0.923795130412,0.14751528579,0.135257295733,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (93,'43TK01',43,1,0.820433247857,0.410216623929,-0.655087160464,4.82561163551,-5.28330854853,2.04378942138,0.0,0.0,0.97963839638,-0.924964420238,0.1510620184,0.132446194677,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (94,'43TK02',43,2,0.822500844901,0.411250422451,-0.654898204035,4.8135581826,-5.25733068664,2.0287552135,0.0,0.0,0.980536106243,-0.925882293225,0.154170662958,0.129885877746,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (95,'44TK01',44,1,0.824541590036,0.412270795018,-0.654729254465,4.80186337852,-5.23213468828,2.01419716988,0.0,0.0,0.981447304085,-0.92691862589,0.157785569392,0.127318482458,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (96,'44TK02',44,2,0.826539372115,0.413269686057,-0.65458197379,4.79044054315,-5.20752711723,2.00000329848,0.0,0.0,0.982348825623,-0.927947846149,0.160567111197,0.124784156982,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (97,'45TK01',45,1,0.828478079992,0.414239039996,-0.654372660626,4.77922995675,-5.18364053404,1.98629928284,0.0,0.0,0.983229385999,-0.929011929327,0.163710065906,0.122327046476,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (98,'45TK02',45,2,0.830352343287,0.415176171643,-0.654242433869,4.76866185333,-5.16096139061,1.97327569321,0.0,0.0,0.984032912927,-0.929776600494,0.166346850628,0.12014967214,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (99,'46TK01',46,1,0.832189013908,0.416094506954,-0.654088922422,4.75825606454,-5.13875664462,1.9605672596,0.0,0.0,0.984858947823,-0.930714990575,0.169193034278,0.11790480581,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (100,'46TK02',46,2,0.833998832619,0.41699941631,-0.653979711733,4.74820691675,-5.11723206106,1.94824771044,0.0,0.0,0.985639915629,-0.931471244352,0.171727356405,0.115834516006,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (101,'47TK01',47,1,0.835792540185,0.417896270092,-0.653844476564,4.73817736269,-5.09587241794,1.93606394363,0.0,0.0,0.986421739678,-0.932266253076,0.174294577566,0.113766179124,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (102,'47TK02',47,2,0.837548655077,0.418774327538,-0.653704229541,4.72838918075,-5.07509946421,1.92424606256,0.0,0.0,0.98719144384,-0.933068290587,0.176823015103,0.111747239413,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (103,'48TK01',48,1,0.839283288441,0.41964164422,-0.653583867744,4.71883807189,-5.05481639204,1.9127191709,0.0,0.0,0.987928163897,-0.93374201397,0.179119505934,0.109863441941,0.0,0.0);
INSERT INTO `transit_time_factor` VALUES (104,'48TK02',48,2,0.840991069895,0.420495534948,-0.653457343909,4.70940190012,-5.03483937935,1.90139361617,0.0,0.0,0.988670075318,-0.934479034347,0.18148767393,0.107962767394,0.0,0.0);
CREATE TABLE rf_module(
    id integer primary key,
    name text,
    view_index double precision unique,
    on_off double precision not null default 1.0,
    phase_shift_tmp double precision not null default 0.0,
    phase_offset_cal double precision not null default 0.0,
    operating_amplitude_fraction_tmp double precision not null default 1.0,
    voltage_tmp double precision not null default 0.0,
    voltage_cal double precision not null default 0.01,
    amplitude_scale_cal double precision not null default 1.0,
    amplitude_tilt_cal double precision not null default 0.0,
    amplitude_design double precision not null default 1.0,
    frequency_design double precision,
    cell_length_betalambda_design double precision not null default 1.0,
    diode_id integer,
    amplitude_channel integer references epics_channel(id)
          on delete restrict,
    phase_channel integer references epics_channel(id)
          on delete restrict,
    phase_master_channel integer references epics_channel(id)
          on delete restrict,
    delay_channel integer references epics_channel(id)
          on delete restrict,
    model_type text not null default 'rf_module'
);
```

```
INSERT INTO `rf_module` VALUES (5,'05LN',0.0,1.0,76.0,36.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,3,4,0,5,'rf_module');
INSERT INTO `rf_module` VALUES (6,'06LN',177.0,1.0,-15.5,-56.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,8,9,0,10,'rf_module');
INSERT INTO `rf_module` VALUES (7,'07LN',346.0,1.0,-3.0,-44.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,13,14,0,15,'rf_module');
INSERT INTO `rf_module` VALUES (8,'08LN',515.0,1.0,3.0,-38.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,18,19,0,20,'rf_module');
INSERT INTO `rf_module` VALUES (9,'09LN',684.0,1.0,-5.0,-47.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,23,24,0,25,'rf_module');
INSERT INTO `rf_module` VALUES (10,'10LN',853.0,1.0,0.5,-42.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,28,29,0,30,'rf_module');
INSERT INTO `rf_module` VALUES (11,'11LN',1014.0,1.0,6.0,-37.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,33,34,0,35,'rf_module');
INSERT INTO `rf_module` VALUES (12,'12LN',1175.0,1.0,7.5,-36.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,39,40,0,41,'rf_module');
INSERT INTO `rf_module` VALUES (13,'13LN',1336.0,1.0,20.0,-24.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,44,45,0,46,'rf_module');
INSERT INTO `rf_module` VALUES (14,'14LN',1475.0,1.0,39.0,-5.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,48,49,0,50,'rf_module');
INSERT INTO `rf_module` VALUES (15,'15LN',1610.0,1.0,64.5,19.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,52,53,0,54,'rf_module');
INSERT INTO `rf_module` VALUES (16,'16LN',1745.0,1.0,88.0,42.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,56,57,0,58,'rf_module');
INSERT INTO `rf_module` VALUES (17,'17LN',1880.0,1.0,109.0,63.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,60,61,0,62,'rf_module');
INSERT INTO `rf_module` VALUES (18,'18LN',2015.0,1.0,127.0,81.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,64,65,0,66,'rf_module');
INSERT INTO `rf_module` VALUES (19,'19LN',2150.0,1.0,148.0,102.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,68,69,0,70,'rf_module');
INSERT INTO `rf_module` VALUES (20,'20LN',2281.0,1.0,169.0,123.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,72,73,0,74,'rf_module');
INSERT INTO `rf_module` VALUES (21,'21LN',2412.0,1.0,192.0,146.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,76,77,0,78,'rf_module');
INSERT INTO `rf_module` VALUES (22,'22LN',2543.0,1.0,213.5,167.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,80,81,0,82,'rf_module');
INSERT INTO `rf_module` VALUES (23,'23LN',2674.0,1.0,232.0,186.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,84,85,0,86,'rf_module');
INSERT INTO `rf_module` VALUES (24,'24LN',2805.0,1.0,-114.0,-160.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,88,89,0,90,'rf_module');
INSERT INTO `rf_module` VALUES (25,'25LN',2932.0,1.0,-100.0,-146.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,92,93,0,94,'rf_module');
INSERT INTO `rf_module` VALUES (26,'26LN',3059.0,1.0,-92.0,-138.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,96,97,0,98,'rf_module');
INSERT INTO `rf_module` VALUES (27,'27LN',3186.0,1.0,-83.0,-129.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,100,101,0,102,'rf_module');
INSERT INTO `rf_module` VALUES (28,'28LN',3313.0,1.0,-76.0,-122.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,104,105,0,106,'rf_module');
INSERT INTO `rf_module` VALUES (29,'29LN',3440.0,1.0,-72.5,-118.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,108,109,0,110,'rf_module');
INSERT INTO `rf_module` VALUES (30,'30LN',3567.0,1.0,-68.0,-114.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,112,113,0,114,'rf_module');
INSERT INTO `rf_module` VALUES (31,'31LN',3690.0,1.0,-64.5,-110.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,116,117,0,118,'rf_module');
INSERT INTO `rf_module` VALUES (32,'32LN',3813.0,1.0,-62.5,-108.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,120,121,0,122,'rf_module');
INSERT INTO `rf_module` VALUES (33,'33LN',3936.0,1.0,-57.0,-103.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,124,125,0,126,'rf_module');
INSERT INTO `rf_module` VALUES (34,'34LN',4059.0,1.0,-43.0,-89.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,128,129,0,130,'rf_module');
INSERT INTO `rf_module` VALUES (35,'35LN',4182.0,1.0,-34.5,-80.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,132,133,0,134,'rf_module');
INSERT INTO `rf_module` VALUES (36,'36LN',4305.0,1.0,-25.0,-71.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,136,137,0,138,'rf_module');
INSERT INTO `rf_module` VALUES (37,'37LN',4424.0,1.0,-17.5,-63.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,140,141,0,142,'rf_module');
INSERT INTO `rf_module` VALUES (38,'38LN',4543.0,1.0,-7.0,-53.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,144,145,0,146,'rf_module');
INSERT INTO `rf_module` VALUES (39,'39LN',4662.0,1.0,2.5,-43.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,148,149,0,150,'rf_module');
INSERT INTO `rf_module` VALUES (40,'40LN',4781.0,1.0,14.5,-31.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,152,153,0,154,'rf_module');
INSERT INTO `rf_module` VALUES (41,'41LN',4900.0,1.0,21.5,-24.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,156,157,0,158,'rf_module');
INSERT INTO `rf_module` VALUES (42,'42LN',5019.0,1.0,26.0,-20.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,160,161,0,162,'rf_module');
INSERT INTO `rf_module` VALUES (43,'43LN',5138.0,1.0,36.0,-10.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,164,165,0,166,'rf_module');
INSERT INTO `rf_module` VALUES (44,'44LN',5257.0,1.0,40.5,-5.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,168,169,0,170,'rf_module');
INSERT INTO `rf_module` VALUES (45,'45LN',5376.0,1.0,44.5,-1.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,172,173,0,174,'rf_module');
INSERT INTO `rf_module` VALUES (46,'46LN',5491.0,1.0,44.0,-2.0,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,176,177,0,178,'rf_module');
INSERT INTO `rf_module` VALUES (47,'47LN',5606.0,1.0,46.5,0.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,180,181,0,182,'rf_module');
INSERT INTO `rf_module` VALUES (48,'48LN',5721.0,1.0,50.5,4.5,1.00000000058712,1.2,0.012,5.13231098,0.0,1.0,805.0,0.5,1,184,185,0,186,'rf_module');
CREATE TABLE rf_gap(
    id integer primary key,
    name text,
    view_index double precision unique,
    frequency_model double precision,
    length_model double precision,
    amplitude_model double precision not null default 0.0,
    amplitude_tmp double precision not null default 0.0,
    amplitude_tilt_tmp double precision not null default 0.0,
    amplitude_design double precision not null default 0.0,
    ref_phase_model double precision not null default 0.0,
    ref_phase_design double precision not null default 0.0,
    beam_phase_shift_model double precision not null default 0.0,
    energy_out_model double precision not null default 0.0,
    beta_center_model double precision not null default 0.0,
    dg_model double precision,
    t_model double precision,
    tp_model double precision,
    sp_model double precision,
    module_id integer,
    tank_id integer,
    cell_id integer,
    model_index integer unique,
    model_type text not null default 'ccl_gap'
);
INSERT INTO `rf_gap` VALUES (1,'05RG101',1.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.723754377083222,-
0.72375437959296,1.32645023151569,100.081844545565,0.428070697019872,0.0,0.871543,0.038383,0.051049,5,1,1,529,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2,'05RG102',2.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.695700797469016,-
0.69570079634509,1.32645023151569,100.165689739168,0.428222736933006,0.0,0.871543,0.038383,0.051049,5,1,2,530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3,'05RG103',3.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.668788308947791,-
0.668788307823865,1.32645023151569,100.251392656576,0.428378223887743,0.0,0.871543,0.038383,0.051049,5,1,3,531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4,'05RG104',4.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.643040527518522,-
0.643040526394596,1.32645023151569,100.338815267477,0.42853689413264,0.0,0.871543,0.038383,0.051049,5,1,4,532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (5,'05RG105',5.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.618479091588665,-
0.618479090464739,1.32645023151569,100.427824794466,0.42869849372787,0.0,0.871543,0.038383,0.051049,5,1,5,533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (6,'05RG106',6.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.595123742436336,-
0.59512374131241,1.32645023151569,100.518293980857,0.428862779119358,0.0,0.871543,0.038383,0.051049,5,1,6,534,'ccl_gap');
INSERT INTO `rf_gap` VALUES (7,'05RG107',7.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.572992408231983,-
0.572992407108057,1.32645023151569,100.610101271153,0.429029517543361,0.0,0.871543,0.038383,0.051049,5,1,7,535,'ccl_gap');
INSERT INTO `rf_gap` VALUES (8,'05RG108',8.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.552101290337369,-
0.552101289213443,1.32645023151569,100.703130908737,0.429198487270156,0.0,0.871543,0.038383,0.051049,5,1,8,536,'ccl_gap');
```

```sql
INSERT INTO `rf_gap` VALUES (9,'05RG109',9.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.532464950679,-0.532464949555074,1.32645023151569,100.797272955925,0.429369477696704,0.0,0.871543,0.038383,0.051049,5,1,9,537,'ccl_gap');
INSERT INTO `rf_gap` VALUES (10,'05RG110',10.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.514096399080408,-0.514096397956482,1.32645023241898,0.429542289298991,0.0,0.0,0.871543,0.038383,0.051049,5,1,10,538,'ccl_gap');
INSERT INTO `rf_gap` VALUES (11,'05RG111',11.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.497007179528581,-0.497007178404655,1.32645023151569,100.988483244294,0.429716733455323,0.0,0.0,0.871543,0.038383,0.051049,5,1,11,539,'ccl_gap');
INSERT INTO `rf_gap` VALUES (12,'05RG112',12.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.481207454444665,-0.481207453320739,1.32645023151569,101.085359910323,0.429892632152105,0.0,0.0,0.871543,0.038383,0.051049,5,1,12,540,'ccl_gap');
INSERT INTO `rf_gap` VALUES (13,'05RG113',13.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.46670608612267,-0.466706084998744,1.32645023151569,101.182965423296,0.43006981758366,0.0,0.0,0.871543,0.038383,0.051049,5,1,13,541,'ccl_gap');
INSERT INTO `rf_gap` VALUES (14,'05RG114',14.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.453510714593769,-0.453510713469843,1.32645023151569,101.281216920338,0.43024813165752,0.0,0.0,0.871543,0.038383,0.051049,5,1,14,542,'ccl_gap');
INSERT INTO `rf_gap` VALUES (15,'05RG115',15.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.441627831264072,-0.441627830140146,1.32645023151569,101.380036166906,0.430427425416262,0.0,0.0,0.871543,0.038383,0.051049,5,1,15,543,'ccl_gap');
INSERT INTO `rf_gap` VALUES (16,'05RG116',16.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.431062847760636,-0.43106284663671,1.32645023151569,101.479349193501,0.430607558386579,0.0,0.0,0.871543,0.038383,0.051049,5,1,16,544,'ccl_gap');
INSERT INTO `rf_gap` VALUES (17,'05RG117',17.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.421820159503298,-0.421820158379372,1.32645023151569,101.579085899721,0.430788397865732,0.0,0.0,0.871543,0.038383,0.051049,5,1,17,545,'ccl_gap');
INSERT INTO `rf_gap` VALUES (18,'05RG118',18.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.413903203597535,-0.413903202473609,1.32645023151569,101.679179630519,0.430969818154976,0.0,0.0,0.871543,0.038383,0.051049,5,1,18,546,'ccl_gap');
INSERT INTO `rf_gap` VALUES (19,'05RG119',19.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.407314510716319,-0.407314509592393,1.32645023151569,101.779566729242,0.431151699748995,0.0,0.0,0.871543,0.038383,0.051049,5,1,19,547,'ccl_gap');
INSERT INTO `rf_gap` VALUES (20,'05RG120',20.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.402055750706815,-0.402055749582889,1.32645023151569,101.880186071778,0.431333928489761,0.0,0.0,0.871543,0.038383,0.051049,5,1,20,548,'ccl_gap');
INSERT INTO `rf_gap` VALUES (21,'05RG121',21.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.398127771720198,-0.398127770596272,1.32645023151569,101.980978585837,0.431516394692713,0.0,0.0,0.871543,0.038383,0.051049,5,1,21,549,'ccl_gap');
INSERT INTO `rf_gap` VALUES (22,'05RG122',22.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.395530632721027,-0.395530631597101,1.32645023151569,102.081886759216,0.431698992252628,0.0,0.0,0.871543,0.038383,0.051049,5,1,22,550,'ccl_gap');
INSERT INTO `rf_gap` VALUES (23,'05RG123',23.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.394263629286954,-0.394263628163028,1.32645023151569,102.182854140632,0.431881617736092,0.0,0.0,0.871543,0.038383,0.051049,5,1,23,551,'ccl_gap');
INSERT INTO `rf_gap` VALUES (24,'05RG124',24.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.394325312658687,-0.394325311534761,1.32645023151569,102.283824836601,0.432064169467096,0.0,0.871543,0.038383,0.051049,5,1,24,552,'ccl_gap');
INSERT INTO `rf_gap` VALUES (25,'05RG125',25.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.395713502048693,-0.395713500924767,1.32645023151569,102.384743007687,0.432246546611961,0.0,0.871543,0.038383,0.051049,5,1,25,553,'ccl_gap');
INSERT INTO `rf_gap` VALUES (26,'05RG126',26.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.398425290259091,-0.398425289135165,1.32645023151569,102.485552367353,0.432428648269557,0.0,0.0,0.871543,0.038383,0.051049,5,1,26,554,'ccl_gap');
INSERT INTO `rf_gap` VALUES (27,'05RG127',27.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.402457042704228,-0.402457041580302,1.32645023151569,102.586195686645,0.432610372572604,0.0,0.0,0.871543,0.038383,0.051049,5,1,27,555,'ccl_gap');
INSERT INTO `rf_gap` VALUES (28,'05RG128',28.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.407804389972263,-0.407804388848337,1.32645023151569,102.686614307909,0.432791615805796,0.0,0.0,0.871543,0.038383,0.051049,5,1,28,556,'ccl_gap');
INSERT INTO `rf_gap` VALUES (29,'05RG129',29.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.414462214100837,-0.414462212976911,1.32645023151569,102.786747670801,0.432972271546416,0.0,0.0,0.871543,0.038383,0.051049,5,1,29,557,'ccl_gap');
INSERT INTO `rf_gap` VALUES (30,'05RG130',30.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.422424628782203,-0.422424627658277,1.32645023151569,102.886532853921,0.433152229833247,0.0,0.0,0.871543,0.038383,0.051049,5,1,30,558,'ccl_gap');
INSERT INTO `rf_gap` VALUES (31,'05RG131',31.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.431684953752281,-0.43168495262855,1.32645023151569,102.985904135527,0.433331376369629,0.0,0.0,0.871543,0.038383,0.051049,5,1,31,559,'ccl_gap');
INSERT INTO `rf_gap` VALUES (32,'05RG132',32.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.442235683658943,-0.442235682535017,1.32645023151569,103.084792576907,0.433509591766739,0.0,0.0,0.871543,0.038383,0.051049,5,1,32,560,'ccl_gap');
INSERT INTO `rf_gap` VALUES (33,'05RG133',33.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.454068451746707,-0.454068450622781,1.32645023151569,103.183125632154,0.433686750833352,0.0,0.0,0.871543,0.038383,0.051049,5,1,33,561,'ccl_gap');
INSERT INTO `rf_gap` VALUES (34,'05RG134',34.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.467173988736498,-0.467173987612572,1.32645023151569,103.280826788249,0.433862721918581,0.0,0.0,0.871543,0.038383,0.051049,5,1,34,562,'ccl_gap');
INSERT INTO `rf_gap` VALUES (35,'05RG135',35.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.481542077324164,-0.481542076200238,1.32645023151569,103.37781523953,0.434037366314344,0.0,0.871543,0.038383,0.051049,5,1,35,563,'ccl_gap');
INSERT INTO `rf_gap` VALUES (36,'05RG136',36.0,805.0,0.0804333333333,1.56007767379038,1.56007767379038,0.0,1.56007767287443,-0.497161502765558,-0.497161501641632,1.32645023151569,103.474005600768,0.434210537724529,0.0,0.871543,0.038383,0.051049,5,1,36,564,'ccl_gap');
INSERT INTO `rf_gap` VALUES (37,'05RG201',45.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.814241156089624,-0.814241155211854,4.46804288510548,103.550033859705,0.434364821018965,0.0,0.0,0.872425,0.038137,0.050991,5,2,1,574,'ccl_gap');
INSERT INTO `rf_gap` VALUES (38,'05RG202',46.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.788480061319597,-0.788480060441827,4.46804288510548,103.628114942869,0.434502802158038,0.0,0.0,0.872425,0.038137,0.050991,5,2,2,575,'ccl_gap');
INSERT INTO `rf_gap` VALUES (39,'05RG203',47.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.763739932749373,-0.763739931871603,4.46804288510548,103.708119123233,0.434644265848952,0.0,0.0,0.872425,0.038137,0.050991,5,2,3,576,'ccl_gap');
INSERT INTO `rf_gap` VALUES (40,'05RG204',48.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.740044567838578,-0.740044566960808,4.46804288510548,103.789919690549,0.434788976995122,0.0,0.0,0.872425,0.038137,0.050991,5,2,4,577,'ccl_gap');
INSERT INTO `rf_gap` VALUES (41,'05RG205',49.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.71741601693675,-0.71741601605898,4.46804288510548,103.873393309613,0.434936706607023,0.0,0.0,0.872425,0.038137,0.050991,5,2,5,578,'ccl_gap');
INSERT INTO `rf_gap` VALUES (42,'05RG206',50.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.695874634230248,-0.695874633352478,4.46804288510548,103.958420308291,0.43508723239055,0.0,0.0,0.872425,0.038137,0.050991,5,2,6,579,'ccl_gap');
INSERT INTO `rf_gap` VALUES (43,'05RG207',51.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.675439132569868,-0.675439131692098,4.46804288510548,104.044884896847,0.435240339206236,0.0,0.0,0.872425,0.038137,0.050991,5,2,7,580,'ccl_gap');
INSERT INTO `rf_gap` VALUES (44,'05RG208',52.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.656126641203724,-0.656126640325954,4.46804288510548,104.132675320865,0.435395819403373,0.0,0.0,0.872425,0.038137,0.050991,5,2,8,581,'ccl_gap');
INSERT INTO `rf_gap` VALUES (45,'05RG209',53.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.637952765480326,-0.637952764602556,4.46804288510548,104.221683950627,0.435553473034265,0.0,0.0,0.872425,0.038137,0.050991,5,2,9,582,'ccl_gap');
INSERT INTO `rf_gap` VALUES (46,'05RG210',54.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.620931647635399,-0.620931646757629,4.46804288510548,104.311807310292,0.435713107954793,0.0,0.0,0.872425,0.038137,0.050991,5,2,10,583,'ccl_gap');
INSERT INTO `rf_gap` VALUES (47,'05RG211',55.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.60507602783071,-0.60507602695294,4.46804288510548,104.402946050584,0.435874539818246,0.0,0.0,0.872425,0.038137,0.050991,5,2,11,584,'ccl_gap');
INSERT INTO `rf_gap` VALUES (48,'05RG212',56.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.590397304672405,-0.590397303794635,4.46804288510548,104.49500486895,0.436037591969899,0.0,0.0,0.872425,0.038137,0.050991,5,2,12,585,'ccl_gap');
INSERT INTO `rf_gap` VALUES (49,'05RG213',57.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.576905594498801,-0.576905593621031,4.46804288510548,104.587892381346,0.43620209525018,0.0,0.0,0.872425,0.038137,0.050991,5,2,13,586,'ccl_gap');
INSERT INTO `rf_gap` VALUES (50,'05RG214',58.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.564609788791342,-0.564609787913572,4.46804288510548,104.681520949897,0.436367887714512,0.0,0.0,0.872425,0.038137,0.050991,5,2,14,587,'ccl_gap');
INSERT INTO `rf_gap` VALUES (51,'05RG215',59.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.553517609127657,-0.553517608249887,4.46804288510548,104.775806470692,0.436534814277948,0.0,0.0,0.872425,0.038137,0.050991,5,2,15,588,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (52,'05RG216',60.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.543635659159162,-0.543635658281392,4.46804288510548,104.870668126004,0.436702726292725,0.0,0.872425,0.038137,0.050991,5,2,16,589,'ccl_gap');
INSERT INTO `rf_gap` VALUES (53,'05RG217',61.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.534969473159696,-0.534969472281926,4.46804288510548,104.96602810511,0.436871481066711,0.0,0.872425,0.038137,0.050991,5,2,17,590,'ccl_gap');
INSERT INTO `rf_gap` VALUES (54,'05RG218',62.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.52752356075234,-0.52752355987457,4.46804288510548,105.061811297829,0.437040941330552,0.0,0.872425,0.038137,0.050991,5,2,18,591,'ccl_gap');
INSERT INTO `rf_gap` VALUES (55,'05RG219',63.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.521301447481624,-0.521301446603854,4.46804288510548,105.157944964771,0.437210974661071,0.0,0.872425,0.038137,0.050991,5,2,19,592,'ccl_gap');
INSERT INTO `rf_gap` VALUES (56,'05RG220',64.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.516305710955149,-0.516305710077379,4.46804288510548,105.254358388184,0.437381452868244,0.0,0.872425,0.038137,0.050991,5,2,20,593,'ccl_gap');
INSERT INTO `rf_gap` VALUES (57,'05RG221',65.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.512538012332617,-0.512538011454847,4.46804288510548,105.350982507125,0.437552251352745,0.0,0.872425,0.038137,0.050991,5,2,21,594,'ccl_gap');
INSERT INTO `rf_gap` VALUES (58,'05RG222',66.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.509999122993233,-0.509999122115463,4.46804288510548,105.447749540608,0.43772324844086,0.0,0.872425,0.038137,0.050991,5,2,22,595,'ccl_gap');
INSERT INTO `rf_gap` VALUES (59,'05RG223',67.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.508688946260851,-0.508688945383081,4.46804288510548,105.544592602227,0.43789432470322,0.0,0.872425,0.038137,0.050991,5,2,23,596,'ccl_gap');
INSERT INTO `rf_gap` VALUES (60,'05RG224',68.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.508606534114091,-0.508606533236321,4.46804288510548,105.641445309688,0.438065362263653,0.0,0.872425,0.038137,0.050991,5,2,24,597,'ccl_gap');
INSERT INTO `rf_gap` VALUES (61,'05RG225',69.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.50975009885372,-0.50975009797595,4.46804288510548,105.738241392578,0.438236244104177,0.0,0.872425,0.038137,0.050991,5,2,25,598,'ccl_gap');
INSERT INTO `rf_gap` VALUES (62,'05RG226',70.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.512117019741791,-0.512117018864021,4.46804288510548,105.834914301667,0.438406853372037,0.0,0.872425,0.038137,0.050991,5,2,26,599,'ccl_gap');
INSERT INTO `rf_gap` VALUES (63,'05RG227',71.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.515703844670573,-0.515703843792803,4.46804288510548,105.93139682296,0.43857707269451,0.0,0.872425,0.038137,0.050991,5,2,27,600,'ccl_gap');
INSERT INTO `rf_gap` VALUES (64,'05RG228',72.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.520506286957084,-0.520506286079314,4.46804288510548,106.027620699755,0.438746783507136,0.0,0.872425,0.038137,0.050991,5,2,28,601,'ccl_gap');
INSERT INTO `rf_gap` VALUES (65,'05RG229',73.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.526519217400737,-0.526519216522967,4.46804288510548,106.123516265901,0.438915865400943,0.0,0.872425,0.038137,0.050991,5,2,29,602,'ccl_gap');
INSERT INTO `rf_gap` VALUES (66,'05RG230',74.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.533736651778296,-0.533736650900526,4.46804288510548,106.219012093511,0.439084195494231,0.0,0.872425,0.038137,0.050991,5,2,30,603,'ccl_gap');
INSERT INTO `rf_gap` VALUES (67,'05RG231',75.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.54215173398929,-0.54215173311152,4.46804288510548,106.314034658397,0.439251647834448,0.0,0.872425,0.038137,0.050991,5,2,31,604,'ccl_gap');
INSERT INTO `rf_gap` VALUES (68,'05RG232',76.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.551756715102454,-0.551756714224684,4.46804288510548,106.408508026537,0.439418092835715,0.0,0.872425,0.038137,0.050991,5,2,32,605,'ccl_gap');
INSERT INTO `rf_gap` VALUES (69,'05RG233',77.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.562542928590465,-0.562542927712695,4.46804288510548,106.502353564937,0.439583396757617,0.0,0.872425,0.038137,0.050991,5,2,33,606,'ccl_gap');
INSERT INTO `rf_gap` VALUES (70,'05RG234',78.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.574500762078768,-0.574500761200998,4.46804288510548,106.595489680259,0.439747421230848,0.0,0.872425,0.038137,0.050991,5,2,34,607,'ccl_gap');
INSERT INTO `rf_gap` VALUES (71,'05RG235',79.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.587619625969997,-0.587619625092227,4.46804288510548,106.687831588677,0.439910022835378,0.0,0.872425,0.038137,0.050991,5,2,35,608,'ccl_gap');
INSERT INTO `rf_gap` VALUES (72,'05RG236',80.0,805.0,0.0815552777778,1.5585004740216,1.5585004740216,0.0,1.55850047310657,-0.60188791934304,-0.60188791846527,4.46804288510548,106.779291120373,0.440071052736781,0.0,0.872425,0.038137,0.050991,5,2,36,609,'ccl_gap');
INSERT INTO `rf_gap` VALUES (73,'05RG301',89.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.724585574536223,-0.724585573751702,1.32645023151569,106.86315442236,0.440224560048522,0.0,0.873281,0.037898,0.050936,5,3,1,621,'ccl_gap');
INSERT INTO `rf_gap` VALUES (74,'05RG302',90.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.70717631904061,-0.707176318256089,1.32645023151569,106.948301213027,0.440372452954197,0.0,0.873281,0.037898,0.050936,5,3,2,622,'ccl_gap');
INSERT INTO `rf_gap` VALUES (75,'05RG303',91.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.690837063262492,-0.690837062477971,1.32645023151569,107.034629540712,0.440522415545195,0.0,0.873281,0.037898,0.050936,5,3,3,623,'ccl_gap');
INSERT INTO `rf_gap` VALUES (76,'05RG304',92.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.675581183120134,-0.675581182335613,1.32645023151569,107.122040680602,0.440674268786673,0.0,0.873281,0.037898,0.050936,5,3,4,624,'ccl_gap');
INSERT INTO `rf_gap` VALUES (77,'05RG305',93.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.661420760355785,-0.66142075957264,1.32645023151569,107.210439114328,0.440827839637572,0.0,0.873281,0.037898,0.050936,5,3,5,625,'ccl_gap');
INSERT INTO `rf_gap` VALUES (78,'05RG306',94.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.648366628965903,-0.648366628181382,1.32645023151569,107.299732465977,0.440982960971907,0.0,0.873281,0.037898,0.050936,5,3,6,626,'ccl_gap');
INSERT INTO `rf_gap` VALUES (79,'05RG307',95.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.636428420722602,-0.636428419938081,1.32645023151569,107.389831397841,0.441139471425494,0.0,0.873281,0.037898,0.050936,5,3,7,627,'ccl_gap');
INSERT INTO `rf_gap` VALUES (80,'05RG308',96.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.625614609263508,-0.625614608478987,1.32645023151569,107.480649469291,0.441297215174422,0.0,0.873281,0.037898,0.050936,5,3,8,628,'ccl_gap');
INSERT INTO `rf_gap` VALUES (81,'05RG309',97.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.615932552277592,-0.615932551493071,1.32645023151569,107.572102962279,0.441456041651708,0.0,0.873281,0.037898,0.050936,5,3,9,629,'ccl_gap');
INSERT INTO `rf_gap` VALUES (82,'05RG310',98.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.607388531364222,-0.607388530579701,1.32645023151569,107.664110676973,0.441615805208642,0.0,0.873281,0.037898,0.050936,5,3,10,630,'ccl_gap');
INSERT INTO `rf_gap` VALUES (83,'05RG311',99.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.599987789194138,-0.599987788409617,1.32645023151569,107.756593701052,0.441776364727308,0.0,0.873281,0.037898,0.050936,5,3,11,631,'ccl_gap');
INSERT INTO `rf_gap` VALUES (84,'05RG312',100.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.593734563649008,-0.593734562864487,1.32645023151569,107.849475156144,0.441937583190725,0.0,0.873281,0.037898,0.050936,5,3,12,632,'ccl_gap');
INSERT INTO `rf_gap` VALUES (85,'05RG313',101.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.588632118666261,-0.58863211788174,1.32645023151569,107.942679924859,0.442099327216913,0.0,0.873281,0.037898,0.050936,5,3,13,633,'ccl_gap');
INSERT INTO `rf_gap` VALUES (86,'05RG314',102.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.584682771561774,-0.584682770777253,1.32645023151569,108.036134361806,0.442261466563098,0.0,0.873281,0.037898,0.050936,5,3,14,634,'ccl_gap');
INSERT INTO `rf_gap` VALUES (87,'05RG315',103.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.581887916649869,-0.581887915865348,1.32645023151569,108.129765991911,0.442423873606087,0.0,0.873281,0.037898,0.050936,5,3,15,635,'ccl_gap');
INSERT INTO `rf_gap` VALUES (88,'05RG316',104.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.580248045023311,-0.58024804423879,1.32645023151569,108.223503199313,0.442586422804713,0.0,0.873281,0.037898,0.050936,5,3,16,636,'ccl_gap');
INSERT INTO `rf_gap` VALUES (89,'05RG317',105.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.579762760399611,-0.57976275961509,1.32645023151569,108.31727491004,0.442748990150094,0.0,0.873281,0.037898,0.050936,5,3,17,637,'ccl_gap');
INSERT INTO `rf_gap` VALUES (90,'05RG318',106.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.580430790980586,-0.580430790196065,1.32645023151569,108.411010271598,0.442911452609295,0.0,0.873281,0.037898,0.050936,5,3,18,638,'ccl_gap');
INSERT INTO `rf_gap` VALUES (91,'05RG319',107.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.582249997312125,-0.582249996527604,1.32645023151569,108.504638332585,0.443073687567858,0.0,0.873281,0.037898,0.050936,5,3,19,639,'ccl_gap');
INSERT INTO `rf_gap` VALUES (92,'05RG320',108.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.585217376169652,-0.585217375385131,1.32645023151569,108.598087725406,0.44323557227656,0.0,0.873281,0.037898,0.050936,5,3,20,640,'ccl_gap');
INSERT INTO `rf_gap` VALUES (93,'05RG321',109.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.589329060532386,-0.589329059747865,1.32645023151569,108.691286355088,0.443396983307643,0.0,0.873281,0.037898,0.050936,5,3,21,641,'ccl_gap');
INSERT INTO `rf_gap` VALUES (94,'05RG322',110.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.594580315745475,-0.594580314960954,1.32645023151569,108.784161097257,0.443557796025678,0.0,0.873281,0.037898,0.050936,5,3,22,642,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (95,'05RG323',111.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.600965532004885,-
0.600965531220364,1.32645023151569,108.876637508247,0.443717884078184,0.0,0.873281,0.037898,0.050936,5,3,23,643,'ccl_gap');
INSERT INTO `rf_gap` VALUES (96,'05RG324',112.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.608478213334266,-
0.608478212549745,1.32645023151569,108.96863955036,0.443877118911034,0.0,0.873281,0.037898,0.050936,5,3,24,644,'ccl_gap');
INSERT INTO `rf_gap` VALUES (97,'05RG325',113.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.617110963257922,-
0.617110962473401,1.32645023151569,109.060089335266,0.444035369313669,0.0,0.873281,0.037898,0.050936,5,3,25,645,'ccl_gap');
INSERT INTO `rf_gap` VALUES (98,'05RG326',114.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.626855467405704,-
0.626855466621183,1.32645023151569,109.150906888542,0.444192500999056,0.0,0.873281,0.037898,0.050936,5,3,26,646,'ccl_gap');
INSERT INTO `rf_gap` VALUES (99,'05RG327',115.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.637702473320268,-
0.637702472535747,1.32645023151569,109.241009938319,0.444348376223332,0.0,0.873281,0.037898,0.050936,5,3,27,647,'ccl_gap');
INSERT INTO `rf_gap` VALUES (100,'05RG328',116.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.649641767767875,-
0.649641766983354,1.32645023151569,109.330313731018,0.444502853449949,0.0,0.873281,0.037898,0.050936,5,3,28,648,'ccl_gap');
INSERT INTO `rf_gap` VALUES (101,'05RG329',117.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.662662151885861,-
0.66266215110134,1.32645023151569,109.418730877073,0.444655787063127,0.0,0.873281,0.037898,0.050936,5,3,29,649,'ccl_gap');
INSERT INTO `rf_gap` VALUES (102,'05RG330',118.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.676751414529719,-
0.676751413745198,1.32645023151569,109.506171229533,0.444807027135237,0.0,0.873281,0.037898,0.050936,5,3,30,650,'ccl_gap');
INSERT INTO `rf_gap` VALUES (103,'05RG331',119.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.691896304212797,-
0.691896303428276,1.32645023151569,109.5925417983,0.444956419252651,0.0,0.873281,0.037898,0.050936,5,3,31,651,'ccl_gap');
INSERT INTO `rf_gap` VALUES (104,'05RG332',120.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.708082500058609,-
0.708082499274088,1.32645023151569,109.677746702675,0.44510380440435,0.0,0.873281,0.037898,0.050936,5,3,32,652,'ccl_gap');
INSERT INTO `rf_gap` VALUES (105,'05RG333',121.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.725294582212094,-
0.725294581427573,1.32645023151569,109.761687164704,0.445249018937343,0.0,0.873281,0.037898,0.050936,5,3,33,653,'ccl_gap');
INSERT INTO `rf_gap` VALUES (106,'05RG334',122.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.743516002181025,-
0.743516001396504,1.32645023151569,109.844261545625,0.44539189458264,0.0,0.873281,0.037898,0.050936,5,3,34,654,'ccl_gap');
INSERT INTO `rf_gap` VALUES (107,'05RG335',123.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.762729053598285,-
0.762729052813764,1.32645023151569,109.925365427439,0.445532258555074,0.0,0.873281,0.037898,0.050936,5,3,35,655,'ccl_gap');
INSERT INTO `rf_gap` VALUES (108,'05RG336',124.0,805.0,0.0824386111111,1.55697281407507,1.55697281407507,0.0,1.55697281316094,-0.782914843915805,-
0.782914843131284,1.32645023151569,110.00489174136,0.44566993372985,0.0,0.873281,0.037898,0.050936,5,3,36,656,'ccl_gap');
INSERT INTO `rf_gap` VALUES (109,'05RG401',133.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.826242393921669,-
0.82624239319567,4.46804288510548,110.081807094163,0.445803947700874,0.0,0.874184,0.037648,0.050887,5,4,1,668,'ccl_gap');
INSERT INTO `rf_gap` VALUES (110,'05RG402',134.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.806101185134862,-
0.806101184408867,4.46804288510548,110.16039103985,0.445937084809341,0.0,0.874184,0.037648,0.050887,5,4,2,669,'ccl_gap');
INSERT INTO `rf_gap` VALUES (111,'05RG403',135.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.786915238674341,-
0.786915237948346,4.46804288510548,110.240535144432,0.446072914860716,0.0,0.874184,0.037648,0.050887,5,4,3,670,'ccl_gap');
INSERT INTO `rf_gap` VALUES (112,'05RG404',136.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.76870233155782,-
0.768702330831825,4.46804288510548,110.322133345297,0.446211250120064,0.0,0.874184,0.037648,0.050887,5,4,4,671,'ccl_gap');
INSERT INTO `rf_gap` VALUES (113,'05RG405',137.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.751478887665856,-
0.751478886939861,4.46804288510548,110.405082108673,0.446351907364151,0.0,0.874184,0.037648,0.050887,5,4,5,672,'ccl_gap');
INSERT INTO `rf_gap` VALUES (114,'05RG406',138.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.735260013799456,-
0.735260013073461,4.46804288510548,110.489280540284,0.446494708115906,0.0,0.874184,0.037648,0.050887,5,4,6,673,'ccl_gap');
INSERT INTO `rf_gap` VALUES (115,'05RG407',139.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.720059537133837,-
0.720059536407842,4.46804288510548,110.574630450981,0.446639478797836,0.0,0.874184,0.037648,0.050887,5,4,7,674,'ccl_gap');
INSERT INTO `rf_gap` VALUES (116,'05RG408',140.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.705890043483998,-
0.705890042758003,4.46804288510548,110.66103637948,0.44678605080812,0.0,0.874184,0.037648,0.050887,5,4,8,675,'ccl_gap');
INSERT INTO `rf_gap` VALUES (117,'05RG409',141.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.692762915829307,-
0.692762915103312,4.46804288510548,110.748405574622,0.446934260523666,0.0,0.874184,0.037648,0.050887,5,4,9,676,'ccl_gap');
INSERT INTO `rf_gap` VALUES (118,'05RG410',142.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.680688372581139,-
0.680688371855144,4.46804288510548,110.836647939766,0.447083949234815,0.0,0.874184,0.037648,0.050887,5,4,10,677,'ccl_gap');
INSERT INTO `rf_gap` VALUES (119,'05RG411',143.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.669675505114385,-
0.66967550438839,4.46804288510548,110.925675942148,0.447234963016708,0.0,0.874184,0.037648,0.050887,5,4,11,678,'ccl_gap');
INSERT INTO `rf_gap` VALUES (120,'05RG412',144.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.659732314124733,-
0.659732313398738,4.46804288510548,111.015404490103,0.447387152542556,0.0,0.874184,0.037648,0.050887,5,4,12,679,'ccl_gap');
INSERT INTO `rf_gap` VALUES (121,'05RG413',145.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.650865744413936,-
0.650865743687941,4.46804288510548,111.105750781166,0.44754037284423,0.0,0.874184,0.037648,0.050887,5,4,13,680,'ccl_gap');
INSERT INTO `rf_gap` VALUES (122,'05RG414',146.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.643081717747501,-
0.643081717021506,4.46804288510548,111.196634124119,0.447694483025634,0.0,0.874184,0.037648,0.050887,5,4,14,681,'ccl_gap');
INSERT INTO `rf_gap` VALUES (123,'05RG415',147.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.636385163470352,-
0.636385162744357,4.46804288510548,111.287975738043,0.447849345934397,0.0,0.874184,0.037648,0.050887,5,4,15,682,'ccl_gap');
INSERT INTO `rf_gap` VALUES (124,'05RG416',148.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.630780046608075,-
0.63078004588208,4.46804288510548,111.379698531464,0.448004827797359,0.0,0.874184,0.037648,0.050887,5,4,16,683,'ccl_gap');
INSERT INTO `rf_gap` VALUES (125,'05RG417',149.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.626269393221877,-
0.626269392495882,4.46804288510548,111.471726864655,0.44816079782533,0.0,0.874184,0.037648,0.050887,5,4,17,684,'ccl_gap');
INSERT INTO `rf_gap` VALUES (126,'05RG418',150.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.622855312825672,-
0.62285531209967,4.46804288510548,111.563986298105,0.448317127792464,0.0,0.874184,0.037648,0.050887,5,4,18,685,'ccl_gap');
INSERT INTO `rf_gap` VALUES (127,'05RG419',151.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.620539017712675,-
0.62053901698668,4.46804288510548,111.656403330167,0.44847369159555,0.0,0.874184,0.037648,0.050887,5,4,19,686,'ccl_gap');
INSERT INTO `rf_gap` VALUES (128,'05RG420',152.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.619320839077199,-
0.619320838351204,4.46804288510548,111.748905126842,0.448630364798397,0.0,0.874184,0.037648,0.050887,5,4,20,687,'ccl_gap');
INSERT INTO `rf_gap` VALUES (129,'05RG421',153.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.619200239854253,-
0.619200239128258,4.46804288510548,111.841419246587,0.448787024166384,0.0,0.874184,0.037648,0.050887,5,4,21,688,'ccl_gap');
INSERT INTO `rf_gap` VALUES (130,'05RG422',154.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.620175824235639,-
0.620175823509644,4.46804288510548,111.933873363054,0.448943547196149,0.0,0.874184,0.037648,0.050887,5,4,22,689,'ccl_gap');
INSERT INTO `rf_gap` VALUES (131,'05RG423',155.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.62224534385654,-
0.622245343129659,4.46804288510548,112.02619498859,0.449099811645296,0.0,0.874184,0.037648,0.050887,5,4,23,690,'ccl_gap');
INSERT INTO `rf_gap` VALUES (132,'05RG424',156.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.625405700674529,-
0.625405699948534,4.46804288510548,112.1183112013,0.449255695066904,0.0,0.874184,0.037648,0.050887,5,4,24,691,'ccl_gap');
INSERT INTO `rf_gap` VALUES (133,'05RG425',157.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.629652946619162,-
0.629652945893167,4.46804288510548,112.210148378482,0.449411074353531,0.0,0.874184,0.037648,0.050887,5,4,25,692,'ccl_gap');
INSERT INTO `rf_gap` VALUES (134,'05RG426',158.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.634982280074178,-
0.634982279348183,4.46804288510548,112.301631939181,0.449565825295358,0.0,0.874184,0.037648,0.050887,5,4,26,693,'ccl_gap');
INSERT INTO `rf_gap` VALUES (135,'05RG427',159.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.64138803934698,-
0.64138038620985,4.46804288510548,112.392686098618,0.449719822157014,0.0,0.874184,0.037648,0.050887,5,4,27,694,'ccl_gap');
INSERT INTO `rf_gap` VALUES (136,'05RG428',160.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.648863693260816,-
0.648863692534821,4.46804288510548,112.48323363722,0.449872937277588,0.0,0.874184,0.037648,0.050887,5,4,28,695,'ccl_gap');
INSERT INTO `rf_gap` VALUES (137,'05RG429',161.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.65740182906069,-
0.657401828334695,4.46804288510548,112.573195686963,0.450025040698254,0.0,0.874184,0.037648,0.050887,5,4,29,696,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (138,'05RG430',162.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.666994137844449,-
0.666994137118454,4.46804288510548,112.662491537708,0.450175999821873,0.0,0.874184,0.037648,0.050887,5,4,30,697,'ccl_gap');
INSERT INTO `rf_gap` VALUES (139,'05RG431',163.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.677631397761461,-
0.677631397035466,4.46804288510548,112.751038466184,0.450325679108855,0.0,0.874184,0.037648,0.050887,5,4,31,698,'ccl_gap');
INSERT INTO `rf_gap` VALUES (140,'05RG432',164.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.689303455247577,-
0.689303454521582,4.46804288510548,112.838751590219,0.450473939813472,0.0,0.874184,0.037648,0.050887,5,4,32,699,'ccl_gap');
INSERT INTO `rf_gap` VALUES (141,'05RG433',165.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.701999204591915,-
0.70199920386592,4.46804288510548,112.925543750766,0.450620639764693,0.0,0.874184,0.037648,0.050887,5,4,33,700,'ccl_gap');
INSERT INTO `rf_gap` VALUES (142,'05RG434',166.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.71570656615699,-
0.715706565430995,4.46804288510548,113.011325424183,0.45076563319548,0.0,0.874184,0.037648,0.050887,5,4,34,701,'ccl_gap');
INSERT INTO `rf_gap` VALUES (143,'05RG435',167.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.730412463597377,-
0.730412462871382,4.46804288510548,113.09600466711,0.450908770624275,0.0,0.874184,0.037648,0.050887,5,4,35,702,'ccl_gap');
INSERT INTO `rf_gap` VALUES (144,'05RG436',168.0,805.0,0.0835538888889,1.55536451828024,1.55536451828024,0.0,1.55536451736705,-0.746102800444541,-
0.746102799718546,4.46804288510548,113.179487096157,0.451049898792225,0.0,0.874184,0.037648,0.050887,5,4,36,703,'ccl_gap');
INSERT INTO `rf_gap` VALUES (145,'06RG101',178.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.727789237087977,-0.72778923620668,-
0.270526034059121,113.26472162277,0.451191414641961,0.0,0.87496,0.037432,0.050839,6,1,1,715,'ccl_gap');
INSERT INTO `rf_gap` VALUES (146,'06RG102',179.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.707707022250599,-0.707707021369302,-
0.270526034059121,113.351467560254,0.4513355871787,0.0,0.87496,0.037432,0.050839,6,1,2,716,'ccl_gap');
INSERT INTO `rf_gap` VALUES (147,'06RG103',180.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.688644843687875,-0.688644842806578,-
0.270526034059121,113.439616156431,0.451482119171884,0.0,0.87496,0.037432,0.050839,6,1,3,717,'ccl_gap');
INSERT INTO `rf_gap` VALUES (148,'06RG104',181.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.67061784056525,-0.670617839683953,-
0.270526034059121,113.529062159347,0.451630827369188,0.0,0.87496,0.037432,0.050839,6,1,4,718,'ccl_gap');
INSERT INTO `rf_gap` VALUES (149,'06RG105',182.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.653639856029472,-0.653639855148175,-
0.270526034059121,113.619703888523,0.451781534797454,0.0,0.87496,0.037432,0.050839,6,1,5,719,'ccl_gap');
INSERT INTO `rf_gap` VALUES (150,'06RG106',183.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.637723484912172,-0.637723484030875,-
0.270526034059121,113.711443256805,0.451934070837217,0.0,0.87496,0.037432,0.050839,6,1,6,720,'ccl_gap');
INSERT INTO `rf_gap` VALUES (151,'06RG107',184.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.622880121607089,-0.622880120725792,-
0.270526034059121,113.804185745721,0.452088271214915,0.0,0.87496,0.037432,0.050839,6,1,7,721,'ccl_gap');
INSERT INTO `rf_gap` VALUES (152,'06RG108',185.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.609120007546665,-0.609120006665368,-
0.270526034059121,113.897840337475,0.452243977918335,0.0,0.87496,0.037432,0.050839,6,1,8,722,'ccl_gap');
INSERT INTO `rf_gap` VALUES (153,'06RG109',186.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.596452277748377,-0.59645227686708,-
0.270526034059121,113.99231940684,0.452401039041066,0.0,0.87496,0.037432,0.050839,6,1,9,723,'ccl_gap');
INSERT INTO `rf_gap` VALUES (154,'06RG110',187.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.584885005945978,-0.584885005064681,-
0.270526034059121,114.087538576312,0.452559308561961,0.0,0.87496,0.037432,0.050839,6,1,10,724,'ccl_gap');
INSERT INTO `rf_gap` VALUES (155,'06RG111',188.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.574425247867474,-0.574425246986177,-
0.270526034059121,114.183416537927,0.452718646065653,0.0,0.87496,0.037432,0.050839,6,1,11,725,'ccl_gap');
INSERT INTO `rf_gap` VALUES (156,'06RG112',189.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.565079082267474,-0.565079081386177,-
0.270526034059121,114.279874845143,0.45287891641018,0.0,0.87496,0.037432,0.050839,6,1,12,726,'ccl_gap');
INSERT INTO `rf_gap` VALUES (157,'06RG113',190.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.556851649367055,-0.556851648485758,-
0.270526034059121,114.376837678157,0.453039989347741,0.0,0.87496,0.037432,0.050839,6,1,13,727,'ccl_gap');
INSERT INTO `rf_gap` VALUES (158,'06RG114',191.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.549747186398861,-0.549747185517564,-
0.270526034059121,114.474231585981,0.453201739104465,0.0,0.87496,0.037432,0.050839,6,1,14,728,'ccl_gap');
INSERT INTO `rf_gap` VALUES (159,'06RG115',192.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.543769059998503,-0.543769059117206,-
0.270526034059121,114.571985208525,0.453364043924947,0.0,0.87496,0.037432,0.050839,6,1,15,729,'ccl_gap');
INSERT INTO `rf_gap` VALUES (160,'06RG116',193.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.538919795225212,-0.538919794343915,-
0.270526034059121,114.670028981867,0.453526785587162,0.0,0.87496,0.037432,0.050839,6,1,16,730,'ccl_gap');
INSERT INTO `rf_gap` VALUES (161,'06RG117',194.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.535201101035021,-0.535201100153724,-
0.270526034059121,114.768294829782,0.453689848893156,0.0,0.87496,0.037432,0.050839,6,1,17,731,'ccl_gap');
INSERT INTO `rf_gap` VALUES (162,'06RG118',195.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.532613892068241,-0.532613891186944,-
0.270526034059121,114.866715844552,0.453853121140762,0.0,0.87496,0.037432,0.050839,6,1,18,732,'ccl_gap');
INSERT INTO `rf_gap` VALUES (163,'06RG119',196.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.531158306650276,-0.531158305768979,-
0.270526034059121,114.965225959969,0.454016491581399,0.0,0.87496,0.037432,0.050839,6,1,19,733,'ccl_gap');
INSERT INTO `rf_gap` VALUES (164,'06RG120',197.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.530833720940379,-0.530833720059082,-
0.270526034059121,115.063759619397,0.454179850868865,0.0,0.87496,0.037432,0.050839,6,1,20,734,'ccl_gap');
INSERT INTO `rf_gap` VALUES (165,'06RG121',198.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.53163875919703,-0.531638758315733,-
0.270526034059121,115.162251441679,0.454343090503876,0.0,0.87496,0.037432,0.050839,6,1,21,735,'ccl_gap');
INSERT INTO `rf_gap` VALUES (166,'06RG122',199.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.533571300161157,-0.53357129927986,-
0.270526034059121,115.260635887656,0.454506102278981,0.0,0.87496,0.037432,0.050839,6,1,22,736,'ccl_gap');
INSERT INTO `rf_gap` VALUES (167,'06RG123',200.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.53662847959108,-0.536628478709783,-
0.270526034059121,115.358846929998,0.454668777728393,0.0,0.87496,0.037432,0.050839,6,1,23,737,'ccl_gap');
INSERT INTO `rf_gap` VALUES (168,'06RG124',201.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.540806689012257,-0.54080668813096,-
0.270526034059121,115.456817729046,0.454831007587165,0.0,0.87496,0.037432,0.050839,6,1,24,738,'ccl_gap');
INSERT INTO `rf_gap` VALUES (169,'06RG125',202.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.546101570776678,-0.546101569895381,-
0.270526034059121,115.554480317371,0.454992681264123,0.0,0.87496,0.037432,0.050839,6,1,25,739,'ccl_gap');
INSERT INTO `rf_gap` VALUES (170,'06RG126',203.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.552508009554913,-0.552508008673616,-
0.270526034059121,115.651765295716,0.45515368633289,0.0,0.87496,0.037432,0.050839,6,1,26,740,'ccl_gap');
INSERT INTO `rf_gap` VALUES (171,'06RG127',204.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.560020120412638,-0.560020119531341,-
0.270526034059121,115.748601543054,0.455313908045348,0.0,0.87496,0.037432,0.050839,6,1,27,741,'ccl_gap');
INSERT INTO `rf_gap` VALUES (172,'06RG128',205.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.568631233652823,-0.568631232771526,-
0.270526034059121,115.844915943465,0.455473228871845,0.0,0.87496,0.037432,0.050839,6,1,28,742,'ccl_gap');
INSERT INTO `rf_gap` VALUES (173,'06RG129',206.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.578333876632094,-0.578333875750797,-
0.270526034059121,115.940633132597,0.455631528072496,0.0,0.87496,0.037432,0.050839,6,1,29,743,'ccl_gap');
INSERT INTO `rf_gap` VALUES (174,'06RG130',207.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.589119752788236,-0.589119751906939,-
0.270526034059121,116.035675266467,0.455788681303881,0.0,0.87496,0.037432,0.050839,6,1,30,744,'ccl_gap');
INSERT INTO `rf_gap` VALUES (175,'06RG131',208.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.600979718142945,-0.600979717261648,-
0.270526034059121,116.129961815393,0.455944560265495,0.0,0.87496,0.037432,0.050839,6,1,31,745,'ccl_gap');
INSERT INTO `rf_gap` VALUES (176,'06RG132',209.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.613903755572167,-0.61390375469087,-
0.270526034059121,116.223409385835,0.456099032390235,0.0,0.87496,0.037432,0.050839,6,1,32,746,'ccl_gap');
INSERT INTO `rf_gap` VALUES (177,'06RG133',210.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.627880947162403,-0.627880946281106,-
0.270526034059121,116.315931572925,0.456251960583219,0.0,0.87496,0.037432,0.050839,6,1,33,747,'ccl_gap');
INSERT INTO `rf_gap` VALUES (178,'06RG134',211.0,805.0,0.0845632352941,1.54425299794653,1.54425299794653,0.0,1.54425299703987,-0.642899444998875,-0.642899444117578,-
0.270526034059121,116.407438846421,0.456403203013144,0.0,0.87496,0.037432,0.050839,6,1,34,748,'ccl_gap');
INSERT INTO `rf_gap` VALUES (179,'06RG201',220.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.684177455808293,-
0.684177454893582,2.87106661953067,116.49691488378,0.456551854587851,0.0,0.875689,0.037229,0.050796,6,2,1,760,'ccl_gap');
INSERT INTO `rf_gap` VALUES (180,'06RG202',221.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.665726426765723,-
0.665726425851012,2.87106661953067,116.587725982484,0.456699848269236,0.0,0.875689,0.037229,0.050796,6,2,2,761,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (181,'06RG203',222.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.648308060767877,-0.648308059853166,2.87106661953067,116.679769441809,0.456849861824293,0.0,0.875689,0.037229,0.050796,6,2,3,762,'ccl_gap');
INSERT INTO `rf_gap` VALUES (182,'06RG204',223.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.631934980162581,-0.63193497924787,2.87106661953067,116.772946243097,0.457001726293762,0.0,0.875689,0.037229,0.050796,6,2,4,763,'ccl_gap');
INSERT INTO `rf_gap` VALUES (183,'06RG205',224.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.616618631640542,-0.616618630725831,2.87106661953067,116.867161037904,0.457155279096137,0.0,0.875689,0.037229,0.050796,6,2,5,764,'ccl_gap');
INSERT INTO `rf_gap` VALUES (184,'06RG206',225.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.602369333392265,-0.602369332477554,2.87106661953067,116.962322092318,0.45731036396519,1,0.0,0.875689,0.037229,0.050796,6,2,6,765,'ccl_gap');
INSERT INTO `rf_gap` VALUES (185,'06RG207',226.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.589196321500308,-0.589196320585597,2.87106661953067,117.058341190634,0.45746683081699,0.0,0.875689,0.037229,0.050796,6,2,7,766,'ccl_gap');
INSERT INTO `rf_gap` VALUES (186,'06RG208',227.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.577107795089678,-0.577107794174967,2.87106661953067,117.155133501681,0.457624535552147,0.0,0.875689,0.037229,0.050796,6,2,8,767,'ccl_gap');
INSERT INTO `rf_gap` VALUES (187,'06RG209',228.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.566110959802697,-0.566110958887986,2.87106661953067,117.252617411118,0.457783339799129,0.0,0.875689,0.037229,0.050796,6,2,9,768,'ccl_gap');
INSERT INTO `rf_gap` VALUES (188,'06RG210',229.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.556212069208944,-0.556212068294233,2.87106661953067,117.350714323056,0.457943110604464,0.0,0.875689,0.037229,0.050796,6,2,10,769,'ccl_gap');
INSERT INTO `rf_gap` VALUES (189,'06RG211',230.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.54741646380428,-0.547416462889569,2.87106661953067,117.449348434288,0.458103720075626,0.0,0.875689,0.037229,0.050796,6,2,11,770,'ccl_gap');
INSERT INTO `rf_gap` VALUES (190,'06RG212',231.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.53972860729515,-0.539728606380439,2.87106661953067,117.548446484408,0.458265044982288,0.0,0.875689,0.037229,0.050796,6,2,12,771,'ccl_gap');
INSERT INTO `rf_gap` VALUES (191,'06RG213',232.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.533152119906416,-0.533152118991705,2.87106661953067,117.647937484994,0.458426966321497,0.0,0.875689,0.037229,0.050796,6,2,13,772,'ccl_gap');
INSERT INTO `rf_gap` VALUES (192,'06RG214',233.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.527689808490355,-0.527689807575644,2.87106661953067,117.747752430961,0.458589368852139,0.0,0.875689,0.037229,0.050796,6,2,14,773,'ccl_gap');
INSERT INTO `rf_gap` VALUES (193,'06RG215',234.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.523343693253378,-0.523343692338667,2.87106661953067,117.847823997099,0.458752140603925,0.0,0.875689,0.037229,0.050796,6,2,15,774,'ccl_gap');
INSERT INTO `rf_gap` VALUES (194,'06RG216',235.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.520115030953552,-0.520115030038841,2.87106661953067,117.94808622272,0.458915172365902,0.0,0.875689,0.037229,0.050796,6,2,16,775,'ccl_gap');
INSERT INTO `rf_gap` VALUES (195,'06RG217',236.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.518004334457641,-0.51800433354293,2.87106661953067,118.04847418727,0.459078357159363,0.0,0.875689,0.037229,0.050796,6,2,17,776,'ccl_gap');
INSERT INTO `rf_gap` VALUES (196,'06RG218',237.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.517011388579864,-0.517011387665153,2.87106661953067,118.148923679661,0.459241589699813,0.0,0.875689,0.037229,0.050796,6,2,18,777,'ccl_gap');
INSERT INTO `rf_gap` VALUES (197,'06RG219',238.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.517135262157038,-0.517135261242327,2.87106661953067,118.249370864019,0.459404765852536,0.0,0.875689,0.037229,0.050796,6,2,19,778,'ccl_gap');
INSERT INTO `rf_gap` VALUES (198,'06RG220',239.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.518374316345747,-0.518374315431036,2.87106661953067,118.349751944511,0.459567782086149,0.0,0.875689,0.037229,0.050796,6,2,20,779,'ccl_gap');
INSERT INTO `rf_gap` VALUES (199,'06RG221',240.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.520726209157144,-0.520726208242433,2.87106661953067,118.450002831843,0.459730534928428,0.0,0.875689,0.037229,0.050796,6,2,21,780,'ccl_gap');
INSERT INTO `rf_gap` VALUES (200,'06RG222',241.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.524187896273635,-0.524187895358924,2.87106661953067,118.550058814004,0.459892920428603,0.0,0.875689,0.037229,0.050796,6,2,22,781,'ccl_gap');
INSERT INTO `rf_gap` VALUES (201,'06RG223',242.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.528755628219995,-0.528755627305284,2.87106661953067,118.649854233841,0.460054833630241,0.0,0.875689,0.037229,0.050796,6,2,23,782,'ccl_gap');
INSERT INTO `rf_gap` VALUES (202,'06RG224',243.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.534424943989028,-0.534424943074317,2.87106661953067,118.749322176007,0.460216168058815,0.0,0.875689,0.037229,0.050796,6,2,24,783,'ccl_gap');
INSERT INTO `rf_gap` VALUES (203,'06RG225',244.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.541190661248348,-0.541190660333637,2.87106661953067,118.848394165878,0.46037681522801,0.0,0.875689,0.037229,0.050796,6,2,25,784,'ccl_gap');
INSERT INTO `rf_gap` VALUES (204,'06RG226',245.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.54904686328165,-0.549046862366939,2.87106661953067,118.946999883032,0.460536664168832,0.0,0.875689,0.037229,0.050796,6,2,26,785,'ccl_gap');
INSERT INTO `rf_gap` VALUES (205,'06RG227',246.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.557986882844358,-0.557986881929647,2.87106661953067,119.045066891914,0.460695600985574,0.0,0.875689,0.037229,0.050796,6,2,27,786,'ccl_gap');
INSERT INTO `rf_gap` VALUES (206,'06RG228',247.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.568003283139267,-0.568003282224556,2.87106661953067,119.142520392333,0.460853508442721,0.0,0.875689,0.037229,0.050796,6,2,28,787,'ccl_gap');
INSERT INTO `rf_gap` VALUES (207,'06RG229',248.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.579087836144024,-0.579087835229313,2.87106661953067,119.239282992486,0.461010265586876,0.0,0.875689,0.037229,0.050796,6,2,29,788,'ccl_gap');
INSERT INTO `rf_gap` VALUES (208,'06RG230',249.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.5912314985484,-0.591231497633689,2.87106661953067,119.335274507203,0.461165747407823,0.0,0.875689,0.037229,0.050796,6,2,30,789,'ccl_gap');
INSERT INTO `rf_gap` VALUES (209,'06RG231',250.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.60442438558398,-0.604424384669269,2.87106661953067,119.430411784113,0.461319824542807,0.0,0.875689,0.037229,0.050796,6,2,31,790,'ccl_gap');
INSERT INTO `rf_gap` VALUES (210,'06RG232',251.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.618655743055318,-0.61865574214060,7,2.87106661953067,119.524608560455,0.461472363028107,0.0,0.875689,0.037229,0.050796,6,2,32,791,'ccl_gap');
INSERT INTO `rf_gap` VALUES (211,'06RG233',252.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.633913917906281,-0.63391391699157,2.87106661953067,119.617775353187,0.461623224101925,0.0,0.875689,0.037229,0.050796,6,2,33,792,'ccl_gap');
INSERT INTO `rf_gap` VALUES (212,'06RG234',253.0,805.0,0.0855241176471,1.54296742688705,1.54296742688705,0.0,1.54296742598114,-0.650186327678786,-0.650186326764075,2.87106661953067,119.709819385021,0.461772264062508,0.0,0.875689,0.037229,0.050796,6,2,34,793,'ccl_gap');
INSERT INTO `rf_gap` VALUES (213,'06RG301',262.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.709844502705456,-0.709844501895218,-0.270526034059121,119.798362571048,0.461917499458086,0.0,0.876388,0.037035,0.050756,6,3,1,803,'ccl_gap');
INSERT INTO `rf_gap` VALUES (214,'06RG302',263.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.693846556034203,-0.693846555223965,-0.270526034059121,119.888115178212,0.462060810791551,0.0,0.876388,0.037035,0.050756,6,3,2,804,'ccl_gap');
INSERT INTO `rf_gap` VALUES (215,'06RG303',264.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.678835432240519,-0.678835431430281,-0.270526034059121,119.978982086533,0.462205907712509,0.0,0.876388,0.037035,0.050756,6,3,3,805,'ccl_gap');
INSERT INTO `rf_gap` VALUES (216,'06RG304',265.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.664822105909077,-0.664822105098839,-0.270526034059121,120.070871132941,0.462352636800355,0.0,0.876388,0.037035,0.050756,6,3,4,806,'ccl_gap');
INSERT INTO `rf_gap` VALUES (217,'06RG305',266.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.651816496786245,-0.651816495976007,-0.270526034059121,120.163693069296,0.462500849660979,0.0,0.876388,0.037035,0.050756,6,3,5,807,'ccl_gap');
INSERT INTO `rf_gap` VALUES (218,'06RG306',267.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.639827506590978,-0.63982750578074,-0.270526034059121,120.257361485642,0.462650402826633,0.0,0.876388,0.037035,0.050756,6,3,6,808,'ccl_gap');
INSERT INTO `rf_gap` VALUES (219,'06RG307',268.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.628863054893688,-0.62886305408345,-0.270526034059121,120.351792701373,0.462801157601326,0.0,0.876388,0.037035,0.050756,6,3,7,809,'ccl_gap');
INSERT INTO `rf_gap` VALUES (220,'06RG308',269.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.618930113701206,-0.618930112890968,-0.270526034059121,120.44690562708,0.462952979856435,0.0,0.876388,0.037035,0.050756,6,3,8,810,'ccl_gap');
INSERT INTO `rf_gap` VALUES (221,'06RG309',270.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.610034740420775,-0.610034739610537,-0.270526034059121,120.54262159987,0.463105739781283,0.0,0.876388,0.037035,0.050756,6,3,9,811,'ccl_gap');
INSERT INTO `rf_gap` VALUES (222,'06RG310',271.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.602182108911644,-0.602182108101406,-0.270526034059121,120.638864194954,0.463259311593462,0.0,0.876388,0.037035,0.050756,6,3,10,812,'ccl_gap');
INSERT INTO `rf_gap` VALUES (223,'06RG311',272.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.595376538366824,-0.595376537556586,-0.270526034059121,120.735559016319,0.463413573213631,0.0,0.876388,0.037035,0.050756,6,3,11,813,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (224,'06RG312',273.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.589621519802644,-0.589621518992406,-0.270526034059121,120.832633469235,0.46356840590948,0.0,0.876388,0.037035,0.050756,6,3,12,814,'ccl_gap');
INSERT INTO `rf_gap` VALUES (225,'06RG313',274.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.584919739966454,-0.584919739156216,-0.270526034059121,120.93001651734,0.463723693913466,0.0,0.876388,0.037035,0.050756,6,3,13,815,'ccl_gap');
INSERT INTO `rf_gap` VALUES (226,'06RG314',275.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.581273102505956,-0.581273101695718,-0.270526034059121,121.027638426971,0.463879324018799,0.0,0.876388,0.037035,0.050756,6,3,14,816,'ccl_gap');
INSERT INTO `rf_gap` VALUES (227,'06RG315',276.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.578682746274839,-0.578682745464601,-0.270526034059121,121.125430501399,0.464035185158109,0.0,0.876388,0.037035,0.050756,6,3,15,817,'ccl_gap');
INSERT INTO `rf_gap` VALUES (228,'06RG316',277.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.577149060680166,-0.577149059869928,-0.270526034059121,121.223324807531,0.464191167969048,0.0,0.876388,0.037035,0.050756,6,3,16,818,'ccl_gap');
INSERT INTO `rf_gap` VALUES (229,'06RG317',278.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.576671698006438,-0.5766716971962,-0.270526034059121,121.321253897637,0.464347164351024,0.0,0.876388,0.037035,0.050756,6,3,17,819,'ccl_gap');
INSERT INTO `rf_gap` VALUES (230,'06RG318',279.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.577249582679879,-0.577249581869641,-0.270526034059121,121.419150528592,0.46450306701714,0.0,0.876388,0.037035,0.050756,6,3,18,820,'ccl_gap');
INSERT INTO `rf_gap` VALUES (231,'06RG319',280.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.578880917464036,-0.578880916653798,-0.270526034059121,121.516947381093,0.464658769045329,0.0,0.876388,0.037035,0.050756,6,3,19,821,'ccl_gap');
INSERT INTO `rf_gap` VALUES (232,'06RG320',281.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.581563186604778,-0.58156318579454,-0.270526034059121,121.6145767813,0.46481416343258,0.0,0.876388,0.037035,0.050756,6,3,20,822,'ccl_gap');
INSERT INTO `rf_gap` VALUES (233,'06RG321',282.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.585293155968688,-0.58529315515845,-0.270526034059121,121.711970427298,0.464969142656108,0.0,0.876388,0.037035,0.050756,6,3,21,823,'ccl_gap');
INSERT INTO `rf_gap` VALUES (234,'06RG322',283.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.590066870244324,-0.590066869434086,-0.270526034059121,121.809059122792,0.465123598245239,0.0,0.876388,0.037035,0.050756,6,3,22,824,'ccl_gap');
INSERT INTO `rf_gap` VALUES (235,'06RG323',284.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.59587964730041,-0.595879646490172,-0.270526034059121,121.905772520425,0.465277420367746,0.0,0.876388,0.037035,0.050756,6,3,23,825,'ccl_gap');
INSERT INTO `rf_gap` VALUES (236,'06RG324',285.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.602726069820032,-0.602726069009794,-0.270526034059121,122.002038877102,0.465430497434333,0.0,0.876388,0.037035,0.050756,6,3,24,826,'ccl_gap');
INSERT INTO `rf_gap` VALUES (237,'06RG325',286.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.610599974352541,-0.610599973542303,-0.270526034059121,122.097784823714,0.465582715724938,0.0,0.876388,0.037035,0.050756,6,3,25,827,'ccl_gap');
INSERT INTO `rf_gap` VALUES (238,'06RG326',287.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.619494437949352,-0.619494437139114,-0.270526034059121,122.192935151646,0.465733959040491,0.0,0.876388,0.037035,0.050756,6,3,26,828,'ccl_gap');
INSERT INTO `rf_gap` VALUES (239,'06RG327',288.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.629401762572871,-0.629401761762633,-0.270526034059121,122.287412618448,0.465884108383728,0.0,0.876388,0.037035,0.050756,6,3,27,829,'ccl_gap');
INSERT INTO `rf_gap` VALUES (240,'06RG328',289.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.640313457489252,-0.640313456679014,-0.270526034059121,122.381137775046,0.466033041672651,0.0,0.876388,0.037035,0.050756,6,3,28,830,'ccl_gap');
INSERT INTO `rf_gap` VALUES (241,'06RG329',290.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.652220219879612,-0.652220219069374,-0.270526034059121,122.47402881684,0.466180633490143,0.0,0.876388,0.037035,0.050756,6,3,29,831,'ccl_gap');
INSERT INTO `rf_gap` VALUES (242,'06RG330',291.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.665111913924245,-0.665111913114007,-0.270526034059121,122.56600146101,0.466326754873209,0.0,0.876388,0.037035,0.050756,6,3,30,832,'ccl_gap');
INSERT INTO `rf_gap` VALUES (243,'06RG331',292.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.67897754863701,-0.678977547826772,-0.270526034059121,122.656968852293,0.466471273145214,0.0,0.876388,0.037035,0.050756,6,3,31,833,'ccl_gap');
INSERT INTO `rf_gap` VALUES (244,'06RG332',293.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.693805254745579,-0.693805253935341,-0.270526034059121,122.746841499421,0.466614051794371,0.0,0.876388,0.037035,0.050756,6,3,32,834,'ccl_gap');
INSERT INTO `rf_gap` VALUES (245,'06RG333',294.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.709582260933987,-0.709582260123749,-0.270526034059121,122.835527244308,0.46675495040159,0.0,0.876388,0.037035,0.050756,6,3,33,835,'ccl_gap');
INSERT INTO `rf_gap` VALUES (246,'06RG334',295.0,805.0,0.0864614705882,1.54173676851268,1.54173676851268,0.0,1.5417367676075,-0.726294869780555,-0.726294868970317,-0.270526034059121,122.922931265951,0.466893824620588,0.0,0.876388,0.037035,0.050756,6,3,34,836,'ccl_gap');
INSERT INTO `rf_gap` VALUES (247,'06RG401',304.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.678933578549615,-0.678933577808735,2.87106661953067,123.014669145804,0.467035028132128,0.0,0.87707,0.036845,0.050718,6,4,1,848,'ccl_gap');
INSERT INTO `rf_gap` VALUES (248,'06RG402',305.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.667741792759821,-0.667741792018941,2.87106661953067,123.107233484595,0.467180217321594,0.0,0.87707,0.036845,0.050718,6,4,2,849,'ccl_gap');
INSERT INTO `rf_gap` VALUES (249,'06RG403',306.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.657534648432098,-0.657534647691218,2.87106661953067,123.200541889404,0.467326559806561,0.0,0.87707,0.036845,0.050718,6,4,3,850,'ccl_gap');
INSERT INTO `rf_gap` VALUES (250,'06RG404',307.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.648318787528798,-0.648318786787918,2.87106661953067,123.294514205619,0.467473925677368,0.0,0.87707,0.036845,0.050718,6,4,4,851,'ccl_gap');
INSERT INTO `rf_gap` VALUES (251,'06RG405',308.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.640099974026395,-0.640099973285515,2.87106661953067,123.389072369417,0.467622188712957,0.0,0.87707,0.036845,0.050718,6,4,5,852,'ccl_gap');
INSERT INTO `rf_gap` VALUES (252,'06RG406',309.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.632883120359495,-0.632883119618615,2.87106661953067,123.484140239092,0.467771226126948,0.0,0.87707,0.036845,0.050718,6,4,6,853,'ccl_gap');
INSERT INTO `rf_gap` VALUES (253,'06RG407',310.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.62667231198936,-0.62667231124848,2.87106661953067,123.579643407743,0.467920918282561,0.0,0.87707,0.036845,0.050718,6,4,7,854,'ccl_gap');
INSERT INTO `rf_gap` VALUES (254,'06RG408',311.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.621470829902862,-0.621470829161982,2.87106661953067,123.675508999829,0.468071148380527,0.0,0.87707,0.036845,0.050718,6,4,8,855,'ccl_gap');
INSERT INTO `rf_gap` VALUES (255,'06RG409',312.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.617281170877398,-0.617281170136518,2.87106661953067,123.771665454078,0.46822180212407,0.0,0.87707,0.036845,0.050718,6,4,9,856,'ccl_gap');
INSERT INTO `rf_gap` VALUES (256,'06RG410',313.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.614105065375342,-0.614105064634462,2.87106661953067,123.868042295203,0.468372767364995,0.0,0.87707,0.036845,0.050718,6,4,10,857,'ccl_gap');
INSERT INTO `rf_gap` VALUES (257,'06RG411',314.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.611943492960429,-0.611943492219549,2.87106661953067,123.96456989685,0.468523933734836,0.0,0.87707,0.036845,0.050718,6,4,11,858,'ccl_gap');
INSERT INTO `rf_gap` VALUES (258,'06RG412',315.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.610796695154818,-0.610796694413938,2.87106661953067,124.061179238175,0.468675192264929,0.0,0.87707,0.036845,0.050718,6,4,12,859,'ccl_gap');
INSERT INTO `rf_gap` VALUES (259,'06RG413',316.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.610664185682616,-0.610664184941736,2.87106661953067,124.157801656404,0.468826434999225,0.0,0.87707,0.036845,0.050718,6,4,13,860,'ccl_gap');
INSERT INTO `rf_gap` VALUES (260,'06RG414',317.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.611544758071063,-0.611544757330183,2.87106661953067,124.254368597703,0.468977554603539,0.0,0.87707,0.036845,0.050718,6,4,14,861,'ccl_gap');
INSERT INTO `rf_gap` VALUES (261,'06RG415',318.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.613436490605715,-0.613436489864835,2.87106661953067,124.350811368675,0.469128443974907,0.0,0.87707,0.036845,0.050718,6,4,15,862,'ccl_gap');
INSERT INTO `rf_gap` VALUES (262,'06RG416',319.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.616336748660161,-0.616336747919281,2.87106661953067,124.447060890737,0.469278995854619,0.0,0.87707,0.036845,0.050718,6,4,16,863,'ccl_gap');
INSERT INTO `rf_gap` VALUES (263,'06RG417',320.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.620242184444287,-0.620242183703407,2.87106661953067,124.543047459664,0.469429102448458,0.0,0.87707,0.036845,0.050718,6,4,17,864,'ccl_gap');
INSERT INTO `rf_gap` VALUES (264,'06RG418',321.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.625148734238693,-0.625148733497813,2.87106661953067,124.638700512526,0.469578655057609,0.0,0.87707,0.036845,0.050718,6,4,18,865,'ccl_gap');
INSERT INTO `rf_gap` VALUES (265,'06RG419',322.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.631051613204712,-0.631051612463832,2.87106661953067,124.733948404258,0.46972754372368,0.0,0.87707,0.036845,0.050718,6,4,19,866,'ccl_gap');
INSERT INTO `rf_gap` VALUES (266,'06RG420',323.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.637945307882078,-0.637945307141198,2.87106661953067,124.828718196076,0.469875656891186,0.0,0.87707,0.036845,0.050718,6,4,20,867,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (267,'06RG421',324.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.645823566507681,-0.645823565766801,2.87106661953067,124.922935457964,0.470022881090869,0.0,0.87707,0.036845,0.050718,6,4,21,868,'ccl_gap');
INSERT INTO `rf_gap` VALUES (268,'06RG422',325.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.654679387309628,-0.654679386568748,2.87106661953067,125.016524087402,0.470169100647123,0.0,0.87707,0.036845,0.050718,6,4,22,869,'ccl_gap');
INSERT INTO `rf_gap` VALUES (269,'06RG423',326.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.664505004952141,-0.664505004211261,2.87106661953067,125.109406146526,0.470314197412783,0.0,0.87707,0.036845,0.050718,6,4,23,870,'ccl_gap');
INSERT INTO `rf_gap` VALUES (270,'06RG424',327.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.675291875326139,-0.675291874585259,2.87106661953067,125.201501719868,0.47045805053447,0.0,0.87707,0.036845,0.050718,6,4,24,871,'ccl_gap');
INSERT INTO `rf_gap` VALUES (271,'06RG425',328.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.687030658900704,-0.687030658159824,2.87106661953067,125.292728794766,0.470600536251598,0.0,0.87707,0.036845,0.050718,6,4,25,872,'ccl_gap');
INSERT INTO `rf_gap` VALUES (272,'06RG426',329.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.699711202868614,-0.699711202127734,2.87106661953067,125.383003166525,0.470741527732099,0.0,0.87707,0.036845,0.050718,6,4,26,873,'ccl_gap');
INSERT INTO `rf_gap` VALUES (273,'06RG427',330.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.713322522338395,-0.713322521597515,2.87106661953067,125.472238370288,0.470880894947751,0.0,0.87707,0.036845,0.050718,6,4,27,874,'ccl_gap');
INSERT INTO `rf_gap` VALUES (274,'06RG428',331.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.727852780841204,-0.727852780100324,2.87106661953067,125.560345641526,0.471018504591922,0.0,0.87707,0.036845,0.050718,6,4,28,875,'ccl_gap');
INSERT INTO `rf_gap` VALUES (275,'06RG429',332.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.743289270438162,-0.743289269697282,2.87106661953067,125.647233906921,0.471154220042321,0.0,0.87707,0.036845,0.050718,6,4,29,876,'ccl_gap');
INSERT INTO `rf_gap` VALUES (276,'06RG430',333.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.759618391727643,-0.759618390986763,2.87106661953067,125.732809807268,0.47128790137159,0.0,0.87707,0.036845,0.050718,6,4,30,877,'ccl_gap');
INSERT INTO `rf_gap` VALUES (277,'06RG431',334.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.776825634065667,-0.776825633324787,2.87106661953067,125.816977753862,0.471419405404875,0.0,0.87707,0.036845,0.050718,6,4,31,878,'ccl_gap');
INSERT INTO `rf_gap` VALUES (278,'06RG432',335.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.79489555632398,-0.7948955555831,2.87106661953067,125.899640019622,0.471548585835282,0.0,0.87707,0.036845,0.050718,6,4,32,879,'ccl_gap');
INSERT INTO `rf_gap` VALUES (279,'06RG433',336.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.813811768519536,-0.813811767778656,2.87106661953067,125.980696865956,0.471675293383647,0.0,0.87707,0.036845,0.050718,6,4,33,880,'ccl_gap');
INSERT INTO `rf_gap` VALUES (280,'06RG434',337.0,805.0,0.0872864705882,1.54053793093287,1.54053793093287,0.0,1.54053793002839,-0.833556914656456,-0.833556913915576,2.87106661953067,126.060046706112,0.471799376018828,0.0,0.87707,0.036845,0.050718,6,4,34,881,'ccl_gap');
INSERT INTO `rf_gap` VALUES (281,'07RG101',347.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.600642006107046,-0.600642005201544,-0.0523598775598299,126.157747411439,0.471936263118158,0.0,0.877721,0.036664,0.050683,7,1,1,897,'ccl_gap');
INSERT INTO `rf_gap` VALUES (282,'07RG102',348.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.588071195019758,-0.588071194114256,-0.0523598775598299,126.256285897798,0.472087899746727,0.0,0.877721,0.036664,0.050683,7,1,2,898,'ccl_gap');
INSERT INTO `rf_gap` VALUES (283,'07RG103',349.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.576518377634593,-0.576518376729091,-0.0523598775598299,126.355581023789,0.472240676742598,0.0,0.877721,0.036664,0.050683,7,1,3,899,'ccl_gap');
INSERT INTO `rf_gap` VALUES (284,'07RG104',350.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.565990004690921,-0.565990003785419,-0.0523598775598299,126.455554613722,0.472394469065893,0.0,0.877721,0.036664,0.050683,7,1,4,900,'ccl_gap');
INSERT INTO `rf_gap` VALUES (285,'07RG105',351.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.556491693410422,-0.55649169250492,-0.0523598775598299,126.556131275877,0.47254915639722,0.0,0.877721,0.036664,0.050683,7,1,5,901,'ccl_gap');
INSERT INTO `rf_gap` VALUES (286,'07RG106',352.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.548028260361637,-0.548028259456135,-0.0523598775598299,126.657238197149,0.472704622830069,0.0,0.877721,0.036664,0.050683,7,1,6,902,'ccl_gap');
INSERT INTO `rf_gap` VALUES (287,'07RG107',353.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.540603752070336,-0.540603751164834,-0.0523598775598299,126.758804916813,0.472860756529269,0.0,0.877721,0.036664,0.050683,7,1,7,903,'ccl_gap');
INSERT INTO `rf_gap` VALUES (288,'07RG108',354.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.534221473168348,-0.534221472262846,-0.0523598775598299,126.860763082111,0.473017449359927,0.0,0.877721,0.036664,0.050683,7,1,8,904,'ccl_gap');
INSERT INTO `rf_gap` VALUES (289,'07RG109',355.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.528884011904236,-0.528884010998734,-0.0523598775598299,126.963046188287,0.473174596491152,0.0,0.877721,0.036664,0.050683,7,1,9,905,'ccl_gap');
INSERT INTO `rf_gap` VALUES (290,'07RG110',356.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.524593262869165,-0.524593261963663,-0.0523598775598299,127.065589305605,0.473332095978711,0.0,0.877721,0.036664,0.050683,7,1,10,906,'ccl_gap');
INSERT INTO `rf_gap` VALUES (291,'07RG111',357.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.521350446819551,-0.521350445914049,-0.0523598775598299,127.168328795848,0.473489848330645,0.0,0.877721,0.036664,0.050683,7,1,11,907,'ccl_gap');
INSERT INTO `rf_gap` VALUES (292,'07RG112',358.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.519156127505415,-0.519156126599913,-0.0523598775598299,127.2712002207,0.473647756059731,0.0,0.877721,0.036664,0.050683,7,1,12,908,'ccl_gap');
INSERT INTO `rf_gap` VALUES (293,'07RG113',359.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.518010225439877,-0.518010224534375,-0.0523598775598299,127.374147044358,0.473805723226526,0.0,0.877721,0.036664,0.050683,7,1,13,909,'ccl_gap');
INSERT INTO `rf_gap` VALUES (294,'07RG114',360.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.517912028569999,-0.517912027664497,-0.0523598775598299,127.477102332677,0.473963654976651,0.0,0.877721,0.036664,0.050683,7,1,14,910,'ccl_gap');
INSERT INTO `rf_gap` VALUES (295,'07RG115',361.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.518860199833509,-0.518860198928007,-0.0523598775598299,127.58000645108,0.474121457075824,0.0,0.877721,0.036664,0.050683,7,1,15,911,'ccl_gap');
INSERT INTO `rf_gap` VALUES (296,'07RG116',362.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.520852781609297,-0.520852780703795,-0.0523598775598299,127.682797763465,0.47427903544609,0.0,0.877721,0.036664,0.050683,7,1,16,912,'ccl_gap');
INSERT INTO `rf_gap` VALUES (297,'07RG117',363.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.523887197091778,-0.523887196186276,-0.0523598775598299,127.785414134281,0.474436295706605,0.0,0.877721,0.036664,0.050683,7,1,17,913,'ccl_gap');
INSERT INTO `rf_gap` VALUES (298,'07RG118',364.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.527960248641737,-0.527960247736235,-0.0523598775598299,127.887792635958,0.474593142722332,0.0,0.877721,0.036664,0.050683,7,1,18,914,'ccl_gap');
INSERT INTO `rf_gap` VALUES (299,'07RG119',365.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.533068113186911,-0.533068112281409,-0.0523598775598299,127.989869263869,0.474749480163849,0.0,0.877721,0.036664,0.050683,7,1,19,915,'ccl_gap');
INSERT INTO `rf_gap` VALUES (300,'07RG120',366.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.539206334767091,-0.539206333861589,-0.0523598775598299,128.091578660991,0.474905210081596,0.0,0.877721,0.036664,0.050683,7,1,20,916,'ccl_gap');
INSERT INTO `rf_gap` VALUES (301,'07RG121',367.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.546369814339326,-0.546369813433824,-0.0523598775598299,128.19285385448,0.475060232497769,0.0,0.877721,0.036664,0.050683,7,1,21,917,'ccl_gap');
INSERT INTO `rf_gap` VALUES (302,'07RG122',368.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.554552796978488,-0.554552796072986,-0.0523598775598299,128.29362600636,0.475214445019123,0.0,0.877721,0.036664,0.050683,7,1,22,918,'ccl_gap');
INSERT INTO `rf_gap` VALUES (303,'07RG123',369.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.563748856630224,-0.563748855724722,-0.0523598775598299,128.393824180571,0.475367742473938,0.0,0.877721,0.036664,0.050683,7,1,23,919,'ccl_gap');
INSERT INTO `rf_gap` VALUES (304,'07RG124',370.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.573950878591778,-0.573950877686276,-0.0523598775598299,128.493375128641,0.475520016576409,0.0,0.877721,0.036664,0.050683,7,1,24,920,'ccl_gap');
INSERT INTO `rf_gap` VALUES (305,'07RG125',371.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.585151039918227,-0.585151039012725,-0.0523598775598299,128.592203096263,0.475671155621754,0.0,0.877721,0.036664,0.050683,7,1,25,921,'ccl_gap');
INSERT INTO `rf_gap` VALUES (306,'07RG126',372.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.597340787970115,-0.597340787064613,-0.0523598775598299,128.690229653065,0.475821044215313,0.0,0.877721,0.036664,0.050683,7,1,26,922,'ccl_gap');
INSERT INTO `rf_gap` VALUES (307,'07RG127',373.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.610510817339059,-0.610510816433557,-0.0523598775598299,128.787373547876,0.475969563038893,0.0,0.877721,0.036664,0.050683,7,1,27,923,'ccl_gap');
INSERT INTO `rf_gap` VALUES (308,'07RG128',374.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.624651045407493,-0.624651044501991,-0.0523598775598299,128.883550591772,0.476116588657633,0.0,0.877721,0.036664,0.050683,7,1,28,924,'ccl_gap');
INSERT INTO `rf_gap` VALUES (309,'07RG129',375.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.639750586817794,-0.639750585912292,-0.0523598775598299,128.978673571137,0.476261993370535,0.0,0.877721,0.036664,0.050683,7,1,29,925,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (310,'07RG130',376.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.655797727144365,-0.655797726238863,-0.052359877559829,129.072652192942,0.47640564510779,0.0,0.877721,0.036664,0.050683,7,1,30,926,'ccl_gap');
INSERT INTO `rf_gap` VALUES (311,'07RG131',377.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.672779896080453,-0.672779895174951,-0.052359877559829,129.165393064333,0.476547407377859,0.0,0.877721,0.036664,0.050683,7,1,31,927,'ccl_gap');
INSERT INTO `rf_gap` VALUES (312,'07RG132',378.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.690683640468113,-0.690683639562611,-0.052359877559829,129.256799708517,0.476687139267117,0.0,0.877721,0.036664,0.050683,7,1,32,928,'ccl_gap');
INSERT INTO `rf_gap` VALUES (313,'07RG133',379.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.709494597514887,-0.709494596609385,-0.052359877559829,129.346772618757,0.476824695494645,0.0,0.877721,0.036664,0.050683,7,1,33,929,'ccl_gap');
INSERT INTO `rf_gap` VALUES (314,'07RG134',380.0,805.0,0.0882417647059,1.52993040889806,1.52993040889806,0.0,1.52993040799981,-0.729197468555374,-0.729197467649872,-0.052359877559829,129.435209352112,0.476959926524494,0.0,0.877721,0.036664,0.050683,7,1,34,930,'ccl_gap');
INSERT INTO `rf_gap` VALUES (315,'07RG201',389.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.698686243506947,-0.698686242631469,3.08923277602996,129.526991549505,0.477096455681329,0.0,0.878408,0.036474,0.050651,7,2,1,940,'ccl_gap');
INSERT INTO `rf_gap` VALUES (316,'07RG202',390.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.681691067360089,-0.681691066484611,3.08923277602996,129.620074298592,0.477236428097104,0.0,0.878408,0.036474,0.050651,7,2,2,941,'ccl_gap');
INSERT INTO `rf_gap` VALUES (317,'07RG203',391.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.66562967185738,-0.665629670981902,3.08923277602996,129.714361772238,0.477378218495978,0.0,0.878408,0.036474,0.050651,7,2,3,942,'ccl_gap');
INSERT INTO `rf_gap` VALUES (318,'07RG204',392.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.65051298010484,-0.65051297929362,3.08923277602996,129.809761241015,0.477521681209445,0.0,0.878408,0.036474,0.050651,7,2,4,943,'ccl_gap');
INSERT INTO `rf_gap` VALUES (319,'07RG205',393.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.636350945198658,-0.63635094432318,3.08923277602996,129.906183061967,0.477666675533256,0.0,0.878408,0.036474,0.050651,7,2,5,944,'ccl_gap');
INSERT INTO `rf_gap` VALUES (320,'07RG206',394.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.623152585334652,-0.62315258445174,3.08923277602996,130.003540632693,0.477813065679514,0.0,0.878408,0.036474,0.050651,7,2,6,945,'ccl_gap');
INSERT INTO `rf_gap` VALUES (321,'07RG207',395.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.610926018375026,-0.610926017499548,3.08923277602996,130.101750313133,0.477960720677187,0.0,0.878408,0.036474,0.050651,7,2,7,946,'ccl_gap');
INSERT INTO `rf_gap` VALUES (322,'07RG208',396.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.599678495537667,-0.599678494662189,3.08923277602996,130.200731317526,0.478109514225001,0.0,0.878408,0.036474,0.050651,7,2,8,947,'ccl_gap');
INSERT INTO `rf_gap` VALUES (323,'07RG209',397.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.589416433902159,-0.589416433026681,3.08923277602996,130.300405579053,0.478259324500756,0.0,0.878408,0.036474,0.050651,7,2,9,948,'ccl_gap');
INSERT INTO `rf_gap` VALUES (324,'07RG210',398.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.580145447455785,-0.580145446580307,3.08923277602996,130.400697589686,0.478410033931136,0.0,0.878408,0.036474,0.050651,7,2,10,949,'ccl_gap');
INSERT INTO `rf_gap` VALUES (325,'07RG211',399.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.571870376432017,-0.571870375556539,3.08923277602996,130.501534217775,0.47856152892608,0.0,0.878408,0.036474,0.050651,7,2,11,950,'ccl_gap');
INSERT INTO `rf_gap` VALUES (326,'07RG212',400.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.564595314721907,-0.564595313846429,3.08923277602996,130.602844505873,0.478713699581717,0.0,0.878408,0.036474,0.050651,7,2,12,951,'ccl_gap');
INSERT INTO `rf_gap` VALUES (327,'07RG213',401.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.558323635167754,-0.558323634292275,3.08923277602996,130.704559451256,0.478866439355817,0.0,0.878408,0.036474,0.050651,7,2,13,952,'ccl_gap');
INSERT INTO `rf_gap` VALUES (328,'07RG214',402.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.553058012574532,-0.55305801169954,3.08923277602996,130.806611771553,0.479019644719607,0.0,0.878408,0.036474,0.050651,7,2,14,953,'ccl_gap');
INSERT INTO `rf_gap` VALUES (329,'07RG215',403.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.548800444302146,-0.548800443426668,3.08923277602996,130.908935657858,0.4791732147897,0.0,0.878408,0.036474,0.050651,7,2,15,954,'ccl_gap');
INSERT INTO `rf_gap` VALUES (330,'07RG216',404.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.545552268325645,-0.545552267450166,3.08923277602996,131.011466517619,0.479327050943795,0.0,0.878408,0.036474,0.050651,7,2,16,955,'ccl_gap');
INSERT INTO `rf_gap` VALUES (331,'07RG217',405.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.543314177801289,-0.543314177801289,3.08923277602996,131.114140709562,0.47948105642368,0.0,0.878408,0.036474,0.050651,7,2,17,956,'ccl_gap');
INSERT INTO `rf_gap` VALUES (332,'07RG218',406.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.542086238202082,-0.542086237326604,3.08923277602996,131.216895272853,0.479635135928973,0.0,0.878408,0.036474,0.050651,7,2,18,957,'ccl_gap');
INSERT INTO `rf_gap` VALUES (333,'07RG219',407.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.54186788859731,-0.541867887721832,3.08923277602996,131.319667652663,0.479789195204938,0.0,0.878408,0.036474,0.050651,7,2,19,958,'ccl_gap');
INSERT INTO `rf_gap` VALUES (334,'07RG220',408.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.542657957698318,-0.54265795682284,3.08923277602996,131.422395424234,0.479943140627625,0.0,0.878408,0.036474,0.050651,7,2,20,959,'ccl_gap');
INSERT INTO `rf_gap` VALUES (335,'07RG221',409.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.544454664030966,-0.544454663155488,3.08923277602996,131.525016017559,0.480096878789521,0.0,0.878408,0.036474,0.050651,7,2,21,960,'ccl_gap');
INSERT INTO `rf_gap` VALUES (336,'07RG222',410.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.547255618642632,-0.547255617767153,3.08923277602996,131.627466444721,0.480250316088793,0.0,0.878408,0.036474,0.050651,7,2,22,961,'ccl_gap');
INSERT INTO `rf_gap` VALUES (337,'07RG223',411.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.551057824257925,-0.551057823382447,3.08923277602996,131.729683031958,0.480403358325217,0.0,0.878408,0.036474,0.050651,7,2,23,962,'ccl_gap');
INSERT INTO `rf_gap` VALUES (338,'07RG224',412.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.555857671821194,-0.555857670945716,3.08923277602996,131.83160115848,0.480555910305779,0.0,0.878408,0.036474,0.050651,7,2,24,963,'ccl_gap');
INSERT INTO `rf_gap` VALUES (339,'07RG225',413.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.561650934506688,-0.5616509363121,3.08923277602996,131.933155004107,0.480707875462964,0.0,0.878408,0.036474,0.050651,7,2,25,964,'ccl_gap');
INSERT INTO `rf_gap` VALUES (340,'07RG226',414.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.56843275929743,-0.568432758421952,3.08923277602996,132.034277307761,0.480859155488705,0.0,0.878408,0.036474,0.050651,7,2,26,965,'ccl_gap');
INSERT INTO `rf_gap` VALUES (341,'07RG227',415.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.576197656250857,-0.576197655375378,3.08923277602996,132.134899138876,0.481009649986942,0.0,0.878408,0.036474,0.050651,7,2,27,966,'ccl_gap');
INSERT INTO `rf_gap` VALUES (342,'07RG228',416.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.584939485589068,-0.58493948471359,3.08923277602996,132.234949683813,0.481159256147772,0.0,0.878408,0.036474,0.050651,7,2,28,967,'ccl_gap');
INSERT INTO `rf_gap` VALUES (343,'07RG229',417.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.594651442768979,-0.5946514418935,3.08923277602996,132.334356049347,0.481307868446134,0.0,0.878408,0.036474,0.050651,7,2,29,968,'ccl_gap');
INSERT INTO `rf_gap` VALUES (344,'07RG230',418.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.605326041705645,-0.605326040830167,3.08923277602996,132.433043085331,0.481455378367987,0.0,0.878408,0.036474,0.050651,7,2,30,969,'ccl_gap');
INSERT INTO `rf_gap` VALUES (345,'07RG231',419.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.616955096340434,-0.616955095464956,3.08923277602996,132.530933228629,0.481601674166911,0.0,0.878408,0.036474,0.050651,7,2,31,970,'ccl_gap');
INSERT INTO `rf_gap` VALUES (346,'07RG232',420.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.629529700762726,-0.629529699887247,3.08923277602996,132.627946370393,0.481746640654045,0.0,0.878408,0.036474,0.050651,7,2,32,971,'ccl_gap');
INSERT INTO `rf_gap` VALUES (347,'07RG233',421.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.643040208111373,-0.643040207235895,3.08923277602996,132.723999748758,0.481890159024249,0.0,0.878408,0.036474,0.050651,7,2,33,972,'ccl_gap');
INSERT INTO `rf_gap` VALUES (348,'07RG234',422.0,805.0,0.0893302941176,1.52873385537064,1.52873385537064,0.0,1.52873385447309,-0.657476208498743,-0.657476207623265,3.08923277602996,132.819007868967,0.48203210672127,0.0,0.878408,0.036474,0.050651,7,2,34,973,'ccl_gap');
INSERT INTO `rf_gap` VALUES (349,'07RG301',431.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.650347013833113,-0.650347012925013,-0.052359877559829,132.915373634211,0.482174206595426,0.0,0.87902,0.036304,0.05062,7,3,1,985,'ccl_gap');
INSERT INTO `rf_gap` VALUES (350,'07RG302',432.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.63526412186691,-0.635264120958809,-0.052359877559829,133.012837866277,0.482318048760211,0.0,0.87902,0.036304,0.05062,7,3,2,986,'ccl_gap');
INSERT INTO `rf_gap` VALUES (351,'07RG303',433.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.621128691109955,-0.621128690201854,-0.052359877559829,133.111311794286,0.482463372196736,0.0,0.87902,0.036304,0.05062,7,3,3,987,'ccl_gap');
INSERT INTO `rf_gap` VALUES (352,'07RG304',434.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.607949336995807,-0.607949336087707,-0.052359877559829,133.210709772706,0.482610045047475,0.0,0.87902,0.036304,0.05062,7,3,4,988,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (353,'07RG305',435.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.59573381020398,-0.595733809295879,-0.0523598775598299,133.31094919572,0.482757940300511,0.0,0.87902,0.036304,0.05062,7,3,5,989,'ccl_gap');
INSERT INTO `rf_gap` VALUES (354,'07RG306',436.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.584489030090902,-0.584489029182802,-0.0523598775598299,133.411950382406,0.48290693563405,0.0,0.87902,0.036304,0.05062,7,3,6,990,'ccl_gap');
INSERT INTO `rf_gap` VALUES (355,'07RG307',437.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.574221116897996,-0.574221115989896,-0.0523598775598299,133.513636435658,0.483056913219264,0.0,0.87902,0.036304,0.05062,7,3,7,991,'ccl_gap');
INSERT INTO `rf_gap` VALUES (356,'07RG308',438.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.564935422475601,-0.564935421567501,-0.0523598775598299,133.615933076025,0.483207759485432,0.0,0.87902,0.036304,0.05062,7,3,8,992,'ccl_gap');
INSERT INTO `rf_gap` VALUES (357,'07RG309',439.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.556636559289282,-0.556636558381182,-0.0523598775598299,133.718768455132,0.483359364851267,0.0,0.87902,0.036304,0.05062,7,3,9,993,'ccl_gap');
INSERT INTO `rf_gap` VALUES (358,'07RG310',440.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.549328427502205,-0.549328426594105,-0.0523598775598299,133.822072948947,0.483511623426316,0.0,0.87902,0.036304,0.05062,7,3,10,994,'ccl_gap');
INSERT INTO `rf_gap` VALUES (359,'07RG311',441.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.543014239954013,-0.543014239045913,-0.0523598775598299,133.925778934602,0.483664432686197,0.0,0.87902,0.036304,0.05062,7,3,11,995,'ccl_gap');
INSERT INTO `rf_gap` VALUES (360,'07RG312',442.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.537696544881983,-0.537696543973883,-0.0523598775598299,134.029820552669,0.483817693125351,0.0,0.87902,0.036304,0.05062,7,3,12,996,'ccl_gap');
INSERT INTO `rf_gap` VALUES (361,'07RG313',443.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.533377246255777,-0.533377245347676,-0.0523598775598299,134.134133457261,0.483971307890892,0.0,0.87902,0.036304,0.05062,7,3,13,997,'ccl_gap');
INSERT INTO `rf_gap` VALUES (362,'07RG314',444.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.530057621620402,-0.530057620712302,-0.0523598775598299,134.238654556159,0.484125182401011,0.0,0.87902,0.036304,0.05062,7,3,14,998,'ccl_gap');
INSERT INTO `rf_gap` VALUES (363,'07RG315',445.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.527738337365599,-0.527738336457499,-0.0523598775598299,134.343321743167,0.48427922395128,0.0,0.87902,0.036304,0.05062,7,3,15,999,'ccl_gap');
INSERT INTO `rf_gap` VALUES (364,'07RG316',446.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.526419461361629,-0.526419460453528,-0.0523598775598299,134.448073624786,0.484433341312116,0.0,0.87902,0.036304,0.05062,7,3,16,1000,'ccl_gap');
INSERT INTO `rf_gap` VALUES (365,'07RG317',447.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.526100472922943,-0.526100472014843,-0.0523598775598299,134.552849243288,0.484587444320538,0.0,0.87902,0.036304,0.05062,7,3,17,1001,'ccl_gap');
INSERT INTO `rf_gap` VALUES (366,'07RG318',448.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.526780270081775,-0.526780269173674,-0.0523598775598299,134.657587798232,0.484741443469284,0.0,0.87902,0.036304,0.05062,7,3,18,1002,'ccl_gap');
INSERT INTO `rf_gap` VALUES (367,'07RG319',449.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.52845717417305,-0.52845717326495,-0.0523598775598299,134.76222836839,0.484895249496267,0.0,0.87902,0.036304,0.05062,7,3,19,1003,'ccl_gap');
INSERT INTO `rf_gap` VALUES (368,'07RG320',450.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.531128931751853,-0.531128930843753,-0.0523598775598299,134.866709636099,0.4850487729773,0.0,0.87902,0.036304,0.05062,7,3,20,1004,'ccl_gap');
INSERT INTO `rf_gap` VALUES (369,'07RG321',451.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.534792713882675,-0.534792712974575,-0.0523598775598299,134.970969615964,0.485201923924953,0.0,0.87902,0.036304,0.05062,7,3,21,1005,'ccl_gap');
INSERT INTO `rf_gap` VALUES (370,'07RG322',452.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.539445112858262,-0.539445111950162,-0.0523598775598299,135.074945389896,0.485354611396383,0.0,0.87902,0.036304,0.05062,7,3,22,1006,'ccl_gap');
INSERT INTO `rf_gap` VALUES (371,'07RG323',453.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.545082136423497,-0.545082135515397,-0.0523598775598299,135.178572850429,0.48550674311295,0.0,0.87902,0.036304,0.05062,7,3,23,1007,'ccl_gap');
INSERT INTO `rf_gap` VALUES (372,'07RG324',454.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.551699199597425,-0.551699198689324,-0.0523598775598299,135.281786454295,0.485658225094419,0.0,0.87902,0.036304,0.05062,7,3,24,1008,'ccl_gap');
INSERT INTO `rf_gap` VALUES (373,'07RG325',455.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.559291114203953,-0.559291113295853,-0.0523598775598299,135.384518988234,0.485808961310548,0.0,0.87902,0.036304,0.05062,7,3,25,1009,'ccl_gap');
INSERT INTO `rf_gap` VALUES (374,'07RG326',456.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.567852076238639,-0.567852075330538,-0.0523598775598299,135.486701349044,0.485958853352853,0.0,0.87902,0.036304,0.05062,7,3,26,1010,'ccl_gap');
INSERT INTO `rf_gap` VALUES (375,'07RG327',457.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.577375651216466,-0.577375650308365,-0.0523598775598299,135.588262339878,0.486107800129362,0.0,0.87902,0.036304,0.05062,7,3,27,1011,'ccl_gap');
INSERT INTO `rf_gap` VALUES (376,'07RG328',458.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.587854757662272,-0.587854756754172,-0.0523598775598299,135.689128484839,0.486255697585162,0.0,0.87902,0.036304,0.05062,7,3,28,1012,'ccl_gap');
INSERT INTO `rf_gap` VALUES (377,'07RG329',459.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.599281648922224,-0.599281648014124,-0.0523598775598299,135.789223863897,0.486402438451546,0.0,0.87902,0.036304,0.05062,7,3,29,1013,'ccl_gap');
INSERT INTO `rf_gap` VALUES (378,'07RG330',460.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.611647893491836,-0.611647892583736,-0.0523598775598299,135.888469970187,0.486547912026561,0.0,0.87902,0.036304,0.05062,7,3,30,1014,'ccl_gap');
INSERT INTO `rf_gap` VALUES (379,'07RG331',461.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.624944354072221,-0.624944353164121,-0.0523598775598299,135.986785591703,0.486692003989724,0.0,0.87902,0.036304,0.05062,7,3,31,1015,'ccl_gap');
INSERT INTO `rf_gap` VALUES (380,'07RG332',462.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.639161165582054,-0.639161164673954,-0.0523598775598299,136.084086719425,0.486834596253649,0.0,0.87902,0.036304,0.05062,7,3,32,1016,'ccl_gap');
INSERT INTO `rf_gap` VALUES (381,'07RG333',463.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.654287712369675,-0.654287711461574,-0.0523598775598299,136.180286483814,0.486975566855246,0.0,0.87902,0.036304,0.05062,7,3,33,1017,'ccl_gap');
INSERT INTO `rf_gap` VALUES (382,'07RG334',464.0,805.0,0.0902267647059,1.52766950516304,1.52766950516304,0.0,1.52766950426612,-0.670312604883067,-0.670312603974967,-0.0523598775598299,136.275295121581,0.487114789889056,0.0,0.87902,0.036304,0.05062,7,3,34,1018,'ccl_gap');
INSERT INTO `rf_gap` VALUES (383,'07RG401',473.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.662077994334194,-0.662077993413826,3.08923277602996,136.371823304961,0.487254174967435,0.0,0.879609,0.036141,0.050592,7,4,1,1028,'ccl_gap');
INSERT INTO `rf_gap` VALUES (384,'07RG402',474.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.646137214060071,-0.646137213139703,3.08923277602996,136.469542144107,0.487395453597794,0.0,0.879609,0.036141,0.050592,7,4,2,1029,'ccl_gap');
INSERT INTO `rf_gap` VALUES (385,'07RG403',475.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.631118055344507,-0.631118054424139,3.08923277602996,136.568360421662,0.487538317255767,0.0,0.879609,0.036141,0.050592,7,4,3,1030,'ccl_gap');
INSERT INTO `rf_gap` VALUES (386,'07RG404',476.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.617029744425411,-0.617029743505043,3.08923277602996,136.668190086563,0.487682632995331,0.0,0.879609,0.036141,0.050592,7,4,4,1031,'ccl_gap');
INSERT INTO `rf_gap` VALUES (387,'07RG405',477.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.603880643439487,-0.603880642519119,3.08923277602996,136.76894620059,0.48782827270261,0.0,0.879609,0.036141,0.050592,7,4,5,1032,'ccl_gap');
INSERT INTO `rf_gap` VALUES (388,'07RG406',478.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.591678283527996,-0.591678282607628,3.08923277602996,136.870546854318,0.487975112989762,0.0,0.879609,0.036141,0.050592,7,4,6,1033,'ccl_gap');
INSERT INTO `rf_gap` VALUES (389,'07RG407',479.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.580429397052809,-0.580429396132441,3.08923277602996,136.972913054816,0.488123035045566,0.0,0.879609,0.036141,0.050592,7,4,7,1034,'ccl_gap');
INSERT INTO `rf_gap` VALUES (390,'07RG408',480.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.570139948651038,-0.570139947730672,3.08923277602996,137.075968587481,0.488271924446407,0.0,0.879609,0.036141,0.050592,7,4,8,1035,'ccl_gap');
INSERT INTO `rf_gap` VALUES (391,'07RG409',481.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.56081516488244,-0.560815163962072,3.08923277602996,137.179639854421,0.48842167093138,0.0,0.879609,0.036141,0.050592,7,4,9,1036,'ccl_gap');
INSERT INTO `rf_gap` VALUES (392,'07RG410',482.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.552459562250027,-0.552459561329659,3.08923277602996,137.283855691746,0.488572168145203,0.0,0.879609,0.036141,0.050592,7,4,10,1037,'ccl_gap');
INSERT INTO `rf_gap` VALUES (393,'07RG411',483.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.545076973398876,-0.545076972478508,3.08923277602996,137.388547168111,0.488723313352556,0.0,0.879609,0.036141,0.050592,7,4,11,1038,'ccl_gap');
INSERT INTO `rf_gap` VALUES (394,'07RG412',484.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.538670571323755,-0.538670570403387,3.08923277602996,137.49364736683,0.48887500712741,0.0,0.879609,0.036141,0.050592,7,4,12,1039,'ccl_gap');
INSERT INTO `rf_gap` VALUES (395,'07RG413',485.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.533242891439072,-0.533242890518704,3.08923277602996,137.599091153779,0.489027153020784,0.0,0.879609,0.036141,0.050592,7,4,13,1040,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (396,'07RG414',486.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.528795851389083,-0.528795850468715,3.08923277602996,137.704814933305,0.489179657210304,0.0,0.879609,0.036141,0.050592,7,4,14,1041,'ccl_gap');
INSERT INTO `rf_gap` VALUES (397,'07RG415',487.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.525330768496998,-0.52533076757663,3.08923277602996,137.810756394255,0.489332428134796,0.0,0.879609,0.036141,0.050592,7,4,15,1042,'ccl_gap');
INSERT INTO `rf_gap` VALUES (398,'07RG416',488.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.522848374774617,-0.522848373854249,3.08923277602996,137.916854248203,0.489485376117064,0.0,0.879609,0.036141,0.050592,7,4,16,1043,'ccl_gap');
INSERT INTO `rf_gap` VALUES (399,'07RG417',489.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.52134882943332,-0.521348828512952,3.08923277602996,138.023047961912,0.48963841297789,0.0,0.879609,0.036141,0.050592,7,4,17,1044,'ccl_gap');
INSERT INTO `rf_gap` VALUES (400,'07RG418',490.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.520831728858133,-0.520831727937765,3.08923277602996,138.129277485985,0.489791451644205,0.0,0.879609,0.036141,0.050592,7,4,18,1045,'ccl_gap');
INSERT INTO `rf_gap` VALUES (401,'07RG419',491.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.521296114024535,-0.521296113104167,3.08923277602996,138.235482981654,0.489944405754297,0.0,0.879609,0.036141,0.050592,7,4,19,1046,'ccl_gap');
INSERT INTO `rf_gap` VALUES (402,'07RG420',492.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.522740475356889,-0.522740474436521,3.08923277602996,138.341604547616,0.490097189262833,0.0,0.879609,0.036141,0.050592,7,4,20,1047,'ccl_gap');
INSERT INTO `rf_gap` VALUES (403,'07RG421',493.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.525162755044589,-0.52516275124221,3.08923277602996,138.447581948778,0.49024971604844,0.0,0.879609,0.036141,0.050592,7,4,21,1048,'ccl_gap');
INSERT INTO `rf_gap` VALUES (404,'07RG422',494.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.528560346849437,-0.528560345929069,3.08923277602996,138.553354348799,0.490401899526514,0.0,0.879609,0.036141,0.050592,7,4,22,1049,'ccl_gap');
INSERT INTO `rf_gap` VALUES (405,'07RG423',495.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.532930093454679,-0.532930092534311,3.08923277602996,138.658860048273,0.49055365226991,0.0,0.879609,0.036141,0.050592,7,4,23,1050,'ccl_gap');
INSERT INTO `rf_gap` VALUES (406,'07RG424',496.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.538268281422097,-0.538268280501729,3.08923277602996,138.764036230429,0.490704885640128,0.0,0.879609,0.036141,0.050592,7,4,24,1051,'ccl_gap');
INSERT INTO `rf_gap` VALUES (407,'07RG425',497.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.54457063384089,-0.544570632920522,3.08923277602996,138.868818716202,0.490855509431613,0.0,0.879609,0.036141,0.050592,7,4,25,1052,'ccl_gap');
INSERT INTO `rf_gap` VALUES (408,'07RG426',498.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.551832300766583,-0.551832299846215,3.08923277602996,138.973141730577,0.491005431531773,0.0,0.879609,0.036141,0.050592,7,4,26,1053,'ccl_gap');
INSERT INTO `rf_gap` VALUES (409,'07RG427',499.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.560047847565683,-0.560047846645315,3.08923277602996,139.076937682096,0.491154557599317,0.0,0.879609,0.036141,0.050592,7,4,27,1054,'ccl_gap');
INSERT INTO `rf_gap` VALUES (410,'07RG428',500.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.569211241296165,-0.569211240375797,3.08923277602996,139.180136957452,0.491302790763547,0.0,0.879609,0.036141,0.050592,7,4,28,1055,'ccl_gap');
INSERT INTO `rf_gap` VALUES (411,'07RG429',501.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.579315835270903,-0.579315834350535,3.08923277602996,139.28266773311,0.491450031347203,0.0,0.879609,0.036141,0.050592,7,4,29,1056,'ccl_gap');
INSERT INTO `rf_gap` VALUES (412,'07RG430',502.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.590354351965791,-0.590354351045423,3.08923277602996,139.384455805898,0.491596176615514,0.0,0.879609,0.036141,0.050592,7,4,30,1057,'ccl_gap');
INSERT INTO `rf_gap` VALUES (413,'07RG431',503.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.602318864450252,-0.602318863529884,3.08923277602996,139.485424444542,0.491741120554062,0.0,0.879609,0.036141,0.050592,7,4,31,1058,'ccl_gap');
INSERT INTO `rf_gap` VALUES (414,'07RG432',504.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.61520077653339,-0.61520077561302 2,3.08923277602996,139.585494264077,0.491884753678081,0.0,0.879609,0.036141,0.050592,7,4,32,1059,'ccl_gap');
INSERT INTO `rf_gap` VALUES (415,'07RG433',505.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.628990801833537,-0.628990800913169,3.08923277602996,139.684583125101,0.492026962875765,0.0,0.879609,0.036141,0.050592,7,4,33,1060,'ccl_gap');
INSERT INTO `rf_gap` VALUES (416,'07RG434',506.0,805.0,0.0912017647059,1.52664655367147,1.52664655367147,0.0,1.52664655277515,-0.64367894199477,-0.643678941074402,3.08923277602996,139.782606059748,0.492167631288137,0.0,0.879609,0.036141,0.050592,7,4,34,1061,'ccl_gap');
INSERT INTO `rf_gap` VALUES (417,'08RG101',516.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.756648542283085,-0.756648541610731,0.0523598775598299,139.871864373702,0.492301211224458,0.0,0.880181,0.035982,0.050565,8,1,1,1077,'ccl_gap');
INSERT INTO `rf_gap` VALUES (418,'08RG102',517.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.745250669908958,-0.745250669236604,0.0523598775598299,139.962080332467,0.492429156154571,0.0,0.880181,0.035982,0.050565,8,1,2,1078,'ccl_gap');
INSERT INTO `rf_gap` VALUES (419,'08RG103',518.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.734676800407173,-0.734676799734819,0.0523598775598299,140.053174531592,0.492558343727054,0.0,0.880181,0.035982,0.050565,8,1,3,1079,'ccl_gap');
INSERT INTO `rf_gap` VALUES (420,'08RG104',519.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.724934036349296,-0.724934035676942,0.0523598775598299,140.145069249525,0.492688660117884,0.0,0.880181,0.035982,0.050565,8,1,4,1080,'ccl_gap');
INSERT INTO `rf_gap` VALUES (421,'08RG105',520.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.716028747232925,-0.716028746560571,0.0523598775598299,140.237688387684,0.492819994073068,0.0,0.880181,0.035982,0.050565,8,1,5,1081,'ccl_gap');
INSERT INTO `rf_gap` VALUES (422,'08RG106',521.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.707966587271705,-0.707966586599351,0.0523598775598299,140.330957392475,0.492952236808953,0.0,0.880181,0.035982,0.050565,8,1,6,1082,'ccl_gap');
INSERT INTO `rf_gap` VALUES (423,'08RG107',522.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.700752512446747,-0.700752511774393,0.0523598775598299,140.424803160834,0.493085281887678,0.0,0.880181,0.035982,0.050565,8,1,7,1083,'ccl_gap');
INSERT INTO `rf_gap` VALUES (424,'08RG108',523.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.694390796666482,-0.694390795994128,0.0523598775598299,140.51915393092,0.493219025070168,0.0,0.880181,0.035982,0.050565,8,1,8,1084,'ccl_gap');
INSERT INTO `rf_gap` VALUES (425,'08RG109',524.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.688885046898242,-0.688885046225888,0.0523598775598299,140.613939159583,0.493353364149118,0.0,0.880181,0.035982,0.050565,8,1,9,1085,'ccl_gap');
INSERT INTO `rf_gap` VALUES (426,'08RG110',525.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.68423821715163,-0.684238216479276,0.0523598775598299,140.709089388269,0.493488198764417,0.0,0.880181,0.035982,0.050565,8,1,10,1086,'ccl_gap');
INSERT INTO `rf_gap` VALUES (427,'08RG111',526.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.680452621209916,-0.680452620537562,0.0523598775598299,140.804536099027,0.493623430203449,0.0,0.880181,0.035982,0.050565,8,1,11,1087,'ccl_gap');
INSERT INTO `rf_gap` VALUES (428,'08RG112',527.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.677529944022225,-0.677529943349871,0.0523598775598299,140.900211562266,0.493758961188739,0.0,0.880181,0.035982,0.050565,8,1,12,1088,'ccl_gap');
INSERT INTO `rf_gap` VALUES (429,'08RG113',528.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.675471251685415,-0.675471251013061,0.0523598775598299,140.996048677917,0.493894695655341,0.0,0.880181,0.035982,0.050565,8,1,13,1089,'ccl_gap');
INSERT INTO `rf_gap` VALUES (430,'08RG114',529.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.674276999960198,-0.674276999287844,0.0523598775598299,141.091980811655,0.494030538520384,0.0,0.880181,0.035982,0.050565,8,1,14,1090,'ccl_gap');
INSERT INTO `rf_gap` VALUES (431,'08RG115',530.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.673947041281657,-0.673947040609303,0.0523598775598299,141.1879416278,0.49416639544714,0.0,0.880181,0.035982,0.050565,8,1,15,1091,'ccl_gap');
INSERT INTO `rf_gap` VALUES (432,'08RG116',531.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.674480630240054,-0.6744806295677,0.0523598775598299,141.283864920534,0.494302172605945,0.0,0.880181,0.035982,0.050565,8,1,16,1092,'ccl_gap');
INSERT INTO `rf_gap` VALUES (433,'08RG117',532.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.67587642752202,-0.675876426849666,0.0523598775598299,141.379684445024,0.494437776434294,0.0,0.880181,0.035982,0.050565,8,1,17,1093,'ccl_gap');
INSERT INTO `rf_gap` VALUES (434,'08RG118',533.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.678132502317367,-0.678132501645013,0.0523598775598299,141.475333750067,0.494573113398365,0.0,0.880181,0.035982,0.050565,8,1,18,1094,'ccl_gap');
INSERT INTO `rf_gap` VALUES (435,'08RG119',534.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.681246333211014,-0.68124633253866,0.0523598775598299,141.570746013821,0.49470808975822,0.0,0.880181,0.035982,0.050565,8,1,19,1095,'ccl_gap');
INSERT INTO `rf_gap` VALUES (436,'08RG120',535.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.68521480759324,-0.685214806920886,0.0523598775598299,141.665853884191,0.494842611338879,0.0,0.880181,0.035982,0.050565,8,1,20,1096,'ccl_gap');
INSERT INTO `rf_gap` VALUES (437,'08RG121',536.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.690034219635457,-0.690034218963103,0.0523598775598299,141.760589325435,0.494976583309436,0.0,0.880181,0.035982,0.050565,8,1,21,1097,'ccl_gap');
INSERT INTO `rf_gap` VALUES (438,'08RG122',537.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.695700266891847,-0.695700266219493,0.0523598775598299,141.854883472501,0.49510990997235,0.0,0.880181,0.035982,0.050565,8,1,22,1098,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (439,'08RG123',538.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.702220045599981,-0.702220044927627,0.0523598775598299,141.948666494639,0.495242494565005,0.0,0.880181,0.035982,0.050565,8,1,23,1099,'ccl_gap');
INSERT INTO `rf_gap` VALUES (440,'08RG124',539.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.709552044766922,-0.709552044094568,0.0523598775598299,142.041867469762,0.495374239075591,0.0,0.880181,0.035982,0.050565,8,1,24,1100,'ccl_gap');
INSERT INTO `rf_gap` VALUES (441,'08RG125',540.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.717726139138612,-0.717726138466258,0.0523598775598299,142.134414271036,0.495505044075307,0.0,0.880181,0.035982,0.050565,8,1,25,1101,'ccl_gap');
INSERT INTO `rf_gap` VALUES (442,'08RG126',541.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.726723581163397,-0.726723580491043,0.0523598775598299,142.226233467136,0.495634808568864,0.0,0.880181,0.035982,0.050565,8,1,26,1102,'ccl_gap');
INSERT INTO `rf_gap` VALUES (443,'08RG127',542.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.736536992070746,-0.736536991398392,0.0523598775598299,142.317250237577,0.495763429865158,0.0,0.880181,0.035982,0.050565,8,1,27,1103,'ccl_gap');
INSERT INTO `rf_gap` VALUES (444,'08RG128',543.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.747158352198681,-0.747158351526327,0.0523598775598299,142.407388304462,0.495890030469973,0.0,0.880181,0.035982,0.050565,8,1,28,1104,'ccl_gap');
INSERT INTO `rf_gap` VALUES (445,'08RG129',544.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.758578990712855,-0.758578990040501,0.0523598775598299,142.496569881958,0.496016823002436,0.0,0.880181,0.035982,0.050565,8,1,29,1105,'ccl_gap');
INSERT INTO `rf_gap` VALUES (446,'08RG130',545.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.770789574870505,-0.770789574198151,0.0523598775598299,142.584715644737,0.496141380136907,0.0,0.880181,0.035982,0.050565,8,1,30,1106,'ccl_gap');
INSERT INTO `rf_gap` VALUES (447,'08RG131',546.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.783780098992089,-0.783780098319735,0.0523598775598299,142.671744716527,0.496264364571841,0.0,0.880181,0.035982,0.050565,8,1,31,1107,'ccl_gap');
INSERT INTO `rf_gap` VALUES (448,'08RG132',547.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.797539873311279,-0.797539872638925,0.0523598775598299,142.757574679838,0.496385664027054,0.0,0.880181,0.035982,0.050565,8,1,32,1108,'ccl_gap');
INSERT INTO `rf_gap` VALUES (449,'08RG133',548.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.812057512882169,-0.812057512209815,0.0523598775598299,142.842121607821,0.496505164270656,0.0,0.880181,0.035982,0.050565,8,1,33,1109,'ccl_gap');
INSERT INTO `rf_gap` VALUES (450,'08RG134',549.0,805.0,0.0920123529412,1.51644610811147,1.51644610811147,0.0,1.51644610722113,-0.827320926729001,-0.827320926056647,0.0523598775598299,142.925300119073,0.496622749176793,0.0,0.880181,0.035982,0.050565,8,1,34,1110,'ccl_gap');
INSERT INTO `rf_gap` VALUES (451,'08RG201',558.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.693388748623983,-0.693388747890659,3.19395253114962,143.020533490085,0.496747765336886,0.0,0.880731,0.03583,0.05054,8,2,1,1118,'ccl_gap');
INSERT INTO `rf_gap` VALUES (452,'08RG202',559.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.68301748803965,-0.683017487306326,3.19395253114962,143.116585831301,0.496881733140408,0.0,0.880731,0.03583,0.05054,8,2,2,1119,'ccl_gap');
INSERT INTO `rf_gap` VALUES (453,'08RG203',560.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.67350002441838,-0.673500023685056,3.19395253114962,143.213380981923,0.497016722258752,0.0,0.880731,0.03583,0.05054,8,2,3,1120,'ccl_gap');
INSERT INTO `rf_gap` VALUES (454,'08RG204',561.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.664841971177358,-0.664841970444034,3.19395253114962,143.310844625183,0.497152625751158,0.0,0.880731,0.03583,0.05054,8,2,4,1121,'ccl_gap');
INSERT INTO `rf_gap` VALUES (455,'08RG205',562.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.657048261910562,-0.657048261177238,3.19395253114962,143.408904178853,0.497289339397495,0.0,0.880731,0.03583,0.05054,8,2,5,1122,'ccl_gap');
INSERT INTO `rf_gap` VALUES (456,'08RG206',563.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.650123168725121,-0.650123167991797,3.19395253114962,143.507488669743,0.497426761530623,0.0,0.880731,0.03583,0.05054,8,2,6,1123,'ccl_gap');
INSERT INTO `rf_gap` VALUES (457,'08RG207',564.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.644070319414991,-0.644070318681667,3.19395253114962,143.606528593894,0.497564792847591,0.0,0.880731,0.03583,0.05054,8,2,7,1124,'ccl_gap');
INSERT INTO `rf_gap` VALUES (458,'08RG208',565.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.638892713346612,-0.638892712613288,3.19395253114962,143.705955764229,0.497703336202214,0.0,0.880731,0.03583,0.05054,8,2,8,1125,'ccl_gap');
INSERT INTO `rf_gap` VALUES (459,'08RG209',566.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.634592735947959,-0.634592735214635,3.19395253114962,143.805703147366,0.497842296381555,0.0,0.880731,0.03583,0.05054,8,2,9,1126,'ccl_gap');
INSERT INTO `rf_gap` VALUES (460,'08RG210',567.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.631172171709357,-0.63117217097 6033,3.19395253114962,143.905704691317,0.497981579868813,0.0,0.880731,0.03583,0.05054,8,2,10,1127,'ccl_gap');
INSERT INTO `rf_gap` VALUES (461,'08RG211',568.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.628632215620497,-0.628632214887173,3.19395253114962,144.005895145785,0.498121094595089,0.0,0.880731,0.03583,0.05054,8,2,11,1128,'ccl_gap');
INSERT INTO `rf_gap` VALUES (462,'08RG212',569.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.626973482984316,-0.626973482250992,3.19395253114962,144.106209876718,0.498260749682447,0.0,0.880731,0.03583,0.05054,8,2,12,1129,'ccl_gap');
INSERT INTO `rf_gap` VALUES (463,'08RG213',570.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.626196017563868,-0.626196016830544,3.19395253114962,144.206584676811,0.498400455180668,0.0,0.880731,0.03583,0.05054,8,2,13,1130,'ccl_gap');
INSERT INTO `rf_gap` VALUES (464,'08RG214',571.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.626299298033805,-0.626299297300481,3.19395253114962,144.306955573575,0.498540121800031,0.0,0.880731,0.03583,0.05054,8,2,14,1131,'ccl_gap');
INSERT INTO `rf_gap` VALUES (465,'08RG215',572.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.627282242722641,-0.627282241989317,3.19395253114962,144.40725863663,0.498679660642432,0.0,0.880731,0.03583,0.05054,8,2,15,1132,'ccl_gap');
INSERT INTO `rf_gap` VALUES (466,'08RG216',573.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.629143212646829,-0.629143211913505,3.19395253114962,144.507429785809,0.498818982933111,0.0,0.880731,0.03583,0.05054,8,2,16,1133,'ccl_gap');
INSERT INTO `rf_gap` VALUES (467,'08RG217',574.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.631880012851722,-0.631880012118398,3.19395253114962,144.607404601691,0.498957999755202,0.0,0.880731,0.03583,0.05054,8,2,17,1134,'ccl_gap');
INSERT INTO `rf_gap` VALUES (468,'08RG218',575.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.635489892088079,-0.635489891354755,3.19395253114962,144.707118140135,0.499096621789321,0.0,0.880731,0.03583,0.05054,8,2,18,1135,'ccl_gap');
INSERT INTO `rf_gap` VALUES (469,'08RG219',576.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.639969540866955,-0.639969540133631,3.19395253114962,144.806504752404,0.49923475906034,0.0,0.880731,0.03583,0.05054,8,2,19,1136,'ccl_gap');
INSERT INTO `rf_gap` VALUES (470,'08RG220',577.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.645315087948253,-0.645315087214929,3.19395253114962,144.905497912433,0.4993723206935,0.0,0.880731,0.03583,0.05054,8,2,20,1137,'ccl_gap');
INSERT INTO `rf_gap` VALUES (471,'08RG221',578.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.651522095331868,-0.651522094598544,3.19395253114962,145.004030052809,0.499509214681953,0.0,0.880731,0.03583,0.05054,8,2,21,1138,'ccl_gap');
INSERT INTO `rf_gap` VALUES (472,'08RG222',579.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.65858555183262,-0.658585551099296,3.19395253114962,145.102032410991,0.499645347667828,0.0,0.880731,0.03583,0.05054,8,2,22,1139,'ccl_gap');
INSERT INTO `rf_gap` VALUES (473,'08RG223',580.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.66649986533268,-0.666499864599356,3.19395253114962,145.199434887326,0.499780624738872,0.0,0.880731,0.03583,0.05054,8,2,23,1140,'ccl_gap');
INSERT INTO `rf_gap` VALUES (474,'08RG224',581.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.675258853817899,-0.675258853084575,3.19395253114962,145.296165916359,0.499914949242672,0.0,0.880731,0.03583,0.05054,8,2,24,1141,'ccl_gap');
INSERT INTO `rf_gap` VALUES (475,'08RG225',582.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.684855735314924,-0.684855734581600,3.19395253114962,145.392152352943,0.500048222620456,0.0,0.880731,0.03583,0.05054,8,2,25,1142,'ccl_gap');
INSERT INTO `rf_gap` VALUES (476,'08RG226',583.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.695283116859448,-0.695283116126124,3.19395253114962,145.487319374615,0.500180344262399,0.0,0.880731,0.03583,0.05054,8,2,26,1143,'ccl_gap');
INSERT INTO `rf_gap` VALUES (477,'08RG227',584.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.706532982635094,-0.70653298190177,3.19395253114962,145.581590401674,0.500311211386323,0.0,0.880731,0.03583,0.05054,8,2,27,1144,'ccl_gap');
INSERT INTO `rf_gap` VALUES (478,'08RG228',585.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.718596681434695,-0.718596680701371,3.19395253114962,145.674887036353,0.500440718941614,0.0,0.880731,0.03583,0.05054,8,2,28,1145,'ccl_gap');
INSERT INTO `rf_gap` VALUES (479,'08RG229',586.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.731464913605263,-0.73146491287193 9,3.19395253114962,145.767129022398,0.500568759540081,0.0,0.880731,0.03583,0.05054,8,2,29,1146,'ccl_gap');
INSERT INTO `rf_gap` VALUES (480,'08RG230',587.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.745127717647354,-0.745127716914 03,3.19395253114962,145.858234226339,0.500695223415418,0.0,0.880731,0.03583,0.05054,8,2,30,1147,'ccl_gap');
INSERT INTO `rf_gap` VALUES (481,'08RG231',588.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.75957445664916,-0.759574455915836,3.19395253114962,145.948118641602,0.500819998412789,0.0,0.880731,0.03583,0.05054,8,2,31,1148,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (482,'08RG232',589.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.774793804743188,-0.774793804009864,3.19395253114962,146.036696416549,0.500942970009932,0.0,0.880731,0.03583,0.05054,8,2,32,1149,'ccl_gap');
INSERT INTO `rf_gap` VALUES (483,'08RG233',590.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.790773733780751,-0.790773733047427,3.19395253114962,146.123879907368,0.501064021371019,0.0,0.880731,0.03583,0.05054,8,2,33,1150,'ccl_gap');
INSERT INTO `rf_gap` VALUES (484,'08RG234',591.0,805.0,0.0928138235294,1.51549911594307,1.51549911594307,0.0,1.51549911505329,-0.80750150042626,-0.807501499692936,3.19395253114962,146.209579756644,0.501183033434336,0.0,0.880731,0.03583,0.05054,8,2,34,1151,'ccl_gap');
INSERT INTO `rf_gap` VALUES (485,'08RG301',600.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.688930409484654,-0.688930408623289,0.0523598775598299,146.306163905351,0.501308455486649,0.0,0.881265,0.035682,0.050517,8,3,1,1161,'ccl_gap');
INSERT INTO `rf_gap` VALUES (486,'08RG302',601.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.674024956053457,-0.674024955192092,0.0523598775598299,146.403926156013,0.501442107845541,0.0,0.881265,0.035682,0.050517,8,3,2,1162,'ccl_gap');
INSERT INTO `rf_gap` VALUES (487,'08RG303',602.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.659966556335281,-0.659966555473916,0.0523598775598299,146.502779959029,0.501577248309884,0.0,0.881265,0.035682,0.050517,8,3,3,1163,'ccl_gap');
INSERT INTO `rf_gap` VALUES (488,'08RG304',603.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.64676368609962,-0.646763685238255,0.0523598775598299,146.602641410833,0.501713757357536,0.0,0.881265,0.035682,0.050517,8,3,4,1164,'ccl_gap');
INSERT INTO `rf_gap` VALUES (489,'08RG305',604.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.634424065248512,-0.634422064387147,0.0523598775598299,146.703429215439,0.501851519306715,0.0,0.881265,0.035682,0.050517,8,3,5,1165,'ccl_gap');
INSERT INTO `rf_gap` VALUES (490,'08RG306',605.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.622954683474837,-0.622954682613472,0.0523598775598299,146.805064620568,0.501990422241721,0.0,0.881265,0.035682,0.050517,8,3,6,1166,'ccl_gap');
INSERT INTO `rf_gap` VALUES (491,'08RG307',606.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.612361825306108,-0.612361824444744,0.0523598775598299,146.907471330193,0.502130357904516,0.0,0.881265,0.035682,0.050517,8,3,7,1167,'ccl_gap');
INSERT INTO `rf_gap` VALUES (492,'08RG308',607.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.602651094324691,-0.602651093463326,0.0523598775598299,147.010575395363,0.502271221554871,0.0,0.881265,0.035682,0.050517,8,3,8,1168,'ccl_gap');
INSERT INTO `rf_gap` VALUES (493,'08RG309',608.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.593827436373558,-0.593827435512193,0.0523598775598299,147.1143050852,0.502412911801867,0.0,0.881265,0.035682,0.050517,8,3,9,1169,'ccl_gap');
INSERT INTO `rf_gap` VALUES (494,'08RG310',609.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.585895161576139,-0.585895160714774,0.0523598775598299,147.21859073996,0.502555330409497,0.0,0.881265,0.035682,0.050517,8,3,10,1170,'ccl_gap');
INSERT INTO `rf_gap` VALUES (495,'08RG311',610.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.578857965016481,-0.578857964155116,0.0523598775598299,147.323364608042,0.502698382079113,0.0,0.881265,0.035682,0.050517,8,3,11,1171,'ccl_gap');
INSERT INTO `rf_gap` VALUES (496,'08RG312',611.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.572718945944592,-0.572718945083228,0.0523598775598299,147.428560668795,0.502841974211423,0.0,0.881265,0.035682,0.050517,8,3,12,1172,'ccl_gap');
INSERT INTO `rf_gap` VALUES (497,'08RG313',612.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.567480625389534,-0.567480624528169,0.0523598775598299,147.534114442963,0.502986016650701,0.0,0.881265,0.035682,0.050517,8,3,13,1173,'ccl_gap');
INSERT INTO `rf_gap` VALUES (498,'08RG314',613.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.563144962080264,-0.563144961218899,0.0523598775598299,147.639962792573,0.503130421413788,0.0,0.881265,0.035682,0.050517,8,3,14,1174,'ccl_gap');
INSERT INTO `rf_gap` VALUES (499,'08RG315',614.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.559713366590514,-0.559713365729149,0.0523598775598299,147.746043712012,0.503275102406447,0.0,0.881265,0.035682,0.050517,8,3,15,1175,'ccl_gap');
INSERT INTO `rf_gap` VALUES (500,'08RG316',615.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.557186713641121,-0.557186712779757,0.0523598775598299,147.852296112048,0.50341997512951,0.0,0.881265,0.035682,0.050517,8,3,16,1176,'ccl_gap');
INSERT INTO `rf_gap` VALUES (501,'08RG317',616.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.555565352508238,-0.555565351646873,0.0523598775598465,147.958659598465,0.503564956377254,0.0,0.881265,0.035682,0.050517,8,3,17,1177,'ccl_gap');
INSERT INTO `rf_gap` VALUES (502,'08RG318',617.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.554849115501489,-0.55484911464O124,0.0523598775598299,148.065074246995,0.503709963930323,0.0,0.881265,0.035682,0.050517,8,3,18,1178,'ccl_gap');
INSERT INTO `rf_gap` VALUES (503,'08RG319',618.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.555037324490782,-0.555037323629417,0.0523598775598299,148.171480376174,0.503854916245499,0.0,0.881265,0.035682,0.050517,8,3,19,1179,'ccl_gap');
INSERT INTO `rf_gap` VALUES (504,'08RG320',619.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.556128795474783,-0.556128794613418,0.0523598775598299,148.277818319726,0.503999732144556,0.0,0.881265,0.035682,0.050517,8,3,20,1180,'ccl_gap');
INSERT INTO `rf_gap` VALUES (505,'08RG321',620.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.558121841197815,-0.558121840336451,0.0523598775598299,148.384028200089,0.50414433050437,0.0,0.881265,0.035682,0.050517,8,3,21,1181,'ccl_gap');
INSERT INTO `rf_gap` VALUES (506,'08RG322',621.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.561014271835765,-0.5610142709744,0.0523598775598299,148.490049704638,0.504288629950466,0.0,0.881265,0.035682,0.050517,8,3,22,1182,'ccl_gap');
INSERT INTO `rf_gap` VALUES (507,'08RG323',622.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.564803393784173,-0.564803392922808,0.0523598775598299,148.595821866193,0.504432548556097,0.0,0.881265,0.035682,0.050517,8,3,23,1183,'ccl_gap');
INSERT INTO `rf_gap` VALUES (508,'08RG324',623.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.56948600659573,-0.569486005734365,0.0523598775598299,148.701282849368,0.504576003548969,0.0,0.881265,0.035682,0.050517,8,3,24,1184,'ccl_gap');
INSERT INTO `rf_gap` VALUES (509,'08RG325',624.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.575058398125207,-0.575058397263842,0.0523598775598299,148.80636974434,0.504718911027683,0.0,0.881265,0.035682,0.050517,8,3,25,1185,'ccl_gap');
INSERT INTO `rf_gap` VALUES (510,'08RG326',625.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.581516337954489,-0.58151633709324,0.0523598775598299,148.91101836959,0.504861185689965,0.0,0.881265,0.035682,0.050517,8,3,26,1186,'ccl_gap');
INSERT INTO `rf_gap` VALUES (511,'08RG327',626.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.588855069181006,-0.588855068319642,0.0523598775598299,149.015163085212,0.505002740574747,0.0,0.881265,0.035682,0.050517,8,3,27,1187,'ccl_gap');
INSERT INTO `rf_gap` VALUES (512,'08RG328',627.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.597069298666048,-0.597069297804683,0.0523598775598299,149.118736618346,0.505143486820137,0.0,0.881265,0.035682,0.050517,8,3,28,1188,'ccl_gap');
INSERT INTO `rf_gap` VALUES (513,'08RG329',628.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.606153185850671,-0.606153184989306,0.0523598775598299,149.221669902342,0.505283333439336,0.0,0.881265,0.035682,0.050517,8,3,29,1189,'ccl_gap');
INSERT INTO `rf_gap` VALUES (514,'08RG330',629.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.616100330259788,-0.616100329398424,0.0523598775598299,149.323891931232,0.505422187116526,0.0,0.881265,0.035682,0.050517,8,3,30,1190,'ccl_gap');
INSERT INTO `rf_gap` VALUES (515,'08RG331',630.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.62690375782587,-0.626903756964506,0.0523598775598299,149.425329631081,0.505559952024756,0.0,0.881265,0.035682,0.050517,8,3,31,1191,'ccl_gap');
INSERT INTO `rf_gap` VALUES (516,'08RG332',631.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.638555906175702,-0.638555905314337,0.0523598775598299,149.52590774981,0.50569652966782,0.0,0.881265,0.035682,0.050517,8,3,32,1192,'ccl_gap');
INSERT INTO `rf_gap` VALUES (517,'08RG333',632.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.651048609035114,-0.651048608173749,0.0523598775598299,149.625548767029,0.505831818748098,0.0,0.881265,0.035682,0.050517,8,3,33,1193,'ccl_gap');
INSERT INTO `rf_gap` VALUES (518,'08RG334',633.0,805.0,0.0938005882353,1.51458080359898,1.51458080359898,0.0,1.51458080270974,-0.66437307991699,-0.664373079055625,0.0523598775598299,149.724172825397,0.50596571506228,0.0,0.881265,0.035682,0.050517,8,3,34,1194,'ccl_gap');
INSERT INTO `rf_gap` VALUES (519,'08RG401',642.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.5805166589641,-0.5805166657943854,3.19395253114962,149.829751567616,0.506103546122388,0.0,0.881784,0.035538,0.050495,8,4,1,1202,'ccl_gap');
INSERT INTO `rf_gap` VALUES (520,'08RG402',643.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.567209794528028,-0.567209793507782,3.19395253114962,149.93624621524,0.50624660886992,0.0,0.881784,0.035538,0.050495,8,4,2,1203,'ccl_gap');
INSERT INTO `rf_gap` VALUES (521,'08RG403',644.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.554798867246933,-0.554798866226687,3.19395253114962,150.043578454508,0.506390771311408,0.0,0.881784,0.035538,0.050495,8,4,3,1204,'ccl_gap');
INSERT INTO `rf_gap` VALUES (522,'08RG404',645.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.543289823389883,-0.543289822369637,3.19395253114962,150.151673009956,0.506535928020924,0.0,0.881784,0.035538,0.050495,8,4,4,1205,'ccl_gap');
INSERT INTO `rf_gap` VALUES (523,'08RG405',646.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.532687954044351,-0.532687953024105,3.19395253114962,150.260457509254,0.506681977802852,0.0,0.881784,0.035538,0.050495,8,4,5,1206,'ccl_gap');
INSERT INTO `rf_gap` VALUES (524,'08RG406',647.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.522997922454276,-0.52299792143403,3.19395253114962,150.369862326774,0.506828823487585,0.0,0.881784,0.035538,0.050495,8,4,6,1207,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (525,'08RG407',648.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.514223789937165,-0.514223788916919,3.19395253114962,150.479820408005,0.506976371700132,0.0,0.0,0.881784,0.035538,0.050495,8,4,7,1208,'ccl_gap');
INSERT INTO `rf_gap` VALUES (526,'08RG408',649.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.506369040222405,-0.506369039202159,3.19395253114962,150.590267076833,0.507124532604603,0.0,0.0,0.881784,0.035538,0.050495,8,4,8,1209,'ccl_gap');
INSERT INTO `rf_gap` VALUES (527,'08RG409',650.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.499436602072651,-0.499436601052405,3.19395253114962,150.701139827712,0.507273219627436,0.0,0.0,0.881784,0.035538,0.050495,8,4,9,1210,'ccl_gap');
INSERT INTO `rf_gap` VALUES (528,'08RG410',651.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.493428870068452,-0.493428869048206,3.19395253114962,150.812378104621,0.507422349162166,0.0,0.0,0.881784,0.035538,0.050495,8,4,10,1211,'ccl_gap');
INSERT INTO `rf_gap` VALUES (529,'08RG411',652.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.488347723454555,-0.488347722434309,3.19395253114962,150.923923068729,0.507571840258406,0.0,0.0,0.881784,0.035538,0.050495,8,4,11,1212,'ccl_gap');
INSERT INTO `rf_gap` VALUES (530,'08RG412',653.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.484194542963006,-0.48419454194276,3.19395253114962,151.035717356524,0.507721614297629,0.0,0.0,0.881784,0.035538,0.050495,8,4,12,1213,'ccl_gap');
INSERT INTO `rf_gap` VALUES (531,'08RG413',654.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.480970225544996,-0.48097022452475,3.19395253114962,151.147704830206,0.507871594658225,0.0,0.0,0.881784,0.035538,0.050495,8,4,13,1214,'ccl_gap');
INSERT INTO `rf_gap` VALUES (532,'08RG414',655.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.478675196958799,-0.478675195938553,3.19395253114962,151.259830321995,0.508021706372231,0.0,0.0,0.881784,0.035538,0.050495,8,4,14,1215,'ccl_gap');
INSERT INTO `rf_gap` VALUES (533,'08RG415',656.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.477309422176023,-0.477309421155777,3.19395253114962,151.372039374019,0.508171875776006,0.0,0.0,0.881784,0.035538,0.050495,8,4,15,1216,'ccl_gap');
INSERT INTO `rf_gap` VALUES (534,'08RG416',657.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.476872413582806,-0.47687241256256,3.19395253114962,151.48427797538,0.508322030157085,0.0,0.0,0.881784,0.035538,0.050495,8,4,16,1217,'ccl_gap');
INSERT INTO `rf_gap` VALUES (535,'08RG417',658.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.477363236966229,-0.477363235945983,3.19395253114962,151.596492297937,0.508472097399347,0.0,0.0,0.881784,0.035538,0.050495,8,4,17,1218,'ccl_gap');
INSERT INTO `rf_gap` VALUES (536,'08RG418',659.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.478780515289311,-0.478780514269065,3.19395253114962,151.708628432367,0.508622005628582,0.0,0.0,0.881784,0.035538,0.050495,8,4,18,1219,'ccl_gap');
INSERT INTO `rf_gap` VALUES (537,'08RG419',660.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.481122430270989,-0.481122429250743,3.19395253114962,151.820632125997,0.508771682860492,0.0,0.0,0.881784,0.035538,0.050495,8,4,19,1220,'ccl_gap');
INSERT INTO `rf_gap` VALUES (538,'08RG420',661.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.484386721799264,-0.484386720779018,3.19395253114962,151.932448523923,0.508921056653134,0.0,0.0,0.881784,0.035538,0.050495,8,4,20,1221,'ccl_gap');
INSERT INTO `rf_gap` VALUES (539,'08RG421',662.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.48857068521855,-0.488570684198304,3.19395253114962,152.044021914916,0.509070053765785,0.0,0.0,0.881784,0.035538,0.050495,8,4,21,1222,'ccl_gap');
INSERT INTO `rf_gap` VALUES (540,'08RG422',663.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.493671166543517,-0.493671165523271,3.19395253114962,152.155295483626,0.509218599826194,0.0,0.0,0.881784,0.035538,0.050495,8,4,22,1223,'ccl_gap');
INSERT INTO `rf_gap` VALUES (541,'08RG423',664.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.49968455566385,-0.499684554643604,3.19395253114962,152.266211070601,0.509366619008191,0.0,0.0,0.881784,0.035538,0.050495,8,4,23,1224,'ccl_gap');
INSERT INTO `rf_gap` VALUES (542,'08RG424',665.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.506606777615995,-0.506606776595749,3.19395253114962,152.376708941684,0.509514033721631,0.0,0.0,0.881784,0.035538,0.050495,8,4,24,1225,'ccl_gap');
INSERT INTO `rf_gap` VALUES (543,'08RG425',666.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.514433282009409,-0.514433280989163,3.19395253114962,152.486727568337,0.509660764316666,0.0,0.0,0.881784,0.035538,0.050495,8,4,25,1226,'ccl_gap');
INSERT INTO `rf_gap` VALUES (544,'08RG426',667.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.523159030706576,-0.52315902968633,3.19395253114962,152.596203420506,0.509806728804354,0.0,0.0,0.881784,0.035538,0.050495,8,4,26,1227,'ccl_gap');
INSERT INTO `rf_gap` VALUES (545,'08RG427',668.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.532778483868202,-0.532778482847956,3.19395253114962,152.705070773648,0.509951842595646,0.0,0.0,0.881784,0.035538,0.050495,8,4,27,1228,'ccl_gap');
INSERT INTO `rf_gap` VALUES (546,'08RG428',669.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.543285584486237,-0.543285583465991,3.19395253114962,152.813261531575,0.510096018260804,0.0,0.0,0.881784,0.035538,0.050495,8,4,28,1229,'ccl_gap');
INSERT INTO `rf_gap` VALUES (547,'08RG429',670.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.554673741539378,-0.554673740519132,3.19395253114962,152.920705066808,0.510239165311356,0.0,0.0,0.881784,0.035538,0.050495,8,4,29,1230,'ccl_gap');
INSERT INTO `rf_gap` VALUES (548,'08RG430',671.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.566935811917768,-0.566935810897522,3.19395253114962,153.027328080127,0.510381190006649,0.0,0.0,0.881784,0.035538,0.050495,8,4,30,1231,'ccl_gap');
INSERT INTO `rf_gap` VALUES (549,'08RG431',672.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.580064081275526,-0.58006408025528,3.19395253114962,153.133054481041,0.510521995187152,0.0,0.0,0.881784,0.035538,0.050495,8,4,31,1232,'ccl_gap');
INSERT INTO `rf_gap` VALUES (550,'08RG432',673.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.594050243981125,-0.594050242960879,3.19395253114962,153.237805290891,0.510661480136571,0.0,0.0,0.881784,0.035538,0.050495,8,4,32,1233,'ccl_gap');
INSERT INTO `rf_gap` VALUES (551,'08RG433',674.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.608885382347668,-0.608885381327422,3.19395253114962,153.341498570282,0.510799540474884,0.0,0.0,0.881784,0.035538,0.050495,8,4,33,1234,'ccl_gap');
INSERT INTO `rf_gap` VALUES (552,'08RG434',675.0,805.0,0.0946508823529,1.51368935236255,1.51368935236255,0.0,1.51368935147383,-0.624559945336723,-0.624559944316477,3.19395253114962,153.444049372503,0.510936068084235,0.0,0.0,0.881784,0.035538,0.050495,8,4,34,1235,'ccl_gap');
INSERT INTO `rf_gap` VALUES (553,'09RG101',685.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.660983912994007,-0.660983912091923,-0.0872664625997165,153.544126870217,0.511070129008888,0.0,0.0,0.882278,0.035401,0.050476,9,1,1,1251,'ccl_gap');
INSERT INTO `rf_gap` VALUES (554,'09RG102',686.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.64675486268583,-0.646754861783746,-0.0872664625997165,153.645304916172,0.51120321001421,0.0,0.0,0.882278,0.035401,0.050476,9,1,2,1252,'ccl_gap');
INSERT INTO `rf_gap` VALUES (555,'09RG103',687.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.633352426389202,-0.633352425487118,-0.0872664625997165,153.747501137886,0.511337619526399,0.0,0.0,0.882278,0.035401,0.050476,9,1,3,1253,'ccl_gap');
INSERT INTO `rf_gap` VALUES (556,'09RG104',688.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.620783977330945,-0.620783976428861,-0.0872664625997165,153.850635805531,0.51147324829464,0.0,0.0,0.882278,0.035401,0.050476,9,1,4,1254,'ccl_gap');
INSERT INTO `rf_gap` VALUES (557,'09RG105',689.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.609056212446731,-0.609056211544647,-0.0872664625997165,153.954631773426,0.511609990734821,0.0,0.0,0.882278,0.035401,0.050476,9,1,5,1255,'ccl_gap');
INSERT INTO `rf_gap` VALUES (558,'09RG106',690.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.598175176227475,-0.598175175325391,-0.0872664625997165,154.059414399006,0.511747744832754,0.0,0.0,0.882278,0.035401,0.050476,9,1,6,1256,'ccl_gap');
INSERT INTO `rf_gap` VALUES (559,'09RG107',691.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.588146283838573,-0.588146282936489,-0.0872664625997165,154.164911440984,0.511886412018485,0.0,0.0,0.882278,0.035401,0.050476,9,1,7,1257,'ccl_gap');
INSERT INTO `rf_gap` VALUES (560,'09RG108',692.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.578974343339521,-0.578974342437437,-0.0872664625997165,154.271052938473,0.512025897014141,0.0,0.0,0.882278,0.035401,0.050476,9,1,8,1258,'ccl_gap');
INSERT INTO `rf_gap` VALUES (561,'09RG109',693.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.570663576848038,-0.570663575945954,-0.0872664625997165,154.377771072779,0.51216610765777,0.0,0.0,0.882278,0.035401,0.050476,9,1,9,1259,'ccl_gap');
INSERT INTO `rf_gap` VALUES (562,'09RG110',694.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.563217640508281,-0.563217639606197,-0.0872664625997165,154.485000013625,0.512306954705617,0.0,0.0,0.882278,0.035401,0.050476,9,1,10,1260,'ccl_gap');
INSERT INTO `rf_gap` VALUES (563,'09RG111',695.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.556639643139537,-0.556639642237453,-0.0872664625997165,154.592675751489,0.512448351615218,0.0,0.0,0.882278,0.035401,0.050476,9,1,11,1261,'ccl_gap');
INSERT INTO `rf_gap` VALUES (564,'09RG112',696.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.55093216345632,-0.550932162554236,-0.0872664625997165,154.700735917751,0.512590214311674,0.0,0.0,0.882278,0.035401,0.050476,9,1,12,1262,'ccl_gap');
INSERT INTO `rf_gap` VALUES (565,'09RG113',697.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.546097265766509,-0.546097264864425,-0.0872664625997165,154.809119594292,0.512732460939396,0.0,0.0,0.882278,0.035401,0.050476,9,1,13,1263,'ccl_gap');
INSERT INTO `rf_gap` VALUES (566,'09RG114',698.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.542136514068229,-0.542136513166145,-0.0872664625997165,154.917767114138,0.51287501160155,0.0,0.0,0.882278,0.035401,0.050476,9,1,14,1264,'ccl_gap');
INSERT INTO `rf_gap` VALUES (567,'09RG115',699.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.539050984480941,-0.539050983578857,-0.0872664625997165,155.026619854757,0.513017788089381,0.0,0.0,0.882278,0.035401,0.050476,9,1,15,1265,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (568,'09RG116',700.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.536841275959074,-0.53684127505699,-0.0872664625997165,155.135620025503,0.513160713603523,0.0,0.882278,0.035401,0.050476,9,1,16,1266,'ccl_gap');
INSERT INTO `rf_gap` VALUES (569,'09RG117',701.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.535507519250178,-0.535507518348094,-0.0872664625997165,155.244710450751,0.513303712469347,0.0,0.882278,0.035401,0.050476,9,1,17,1267,'ccl_gap');
INSERT INTO `rf_gap` VALUES (570,'09RG118',702.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.535049384072263,-0.535049383170179,-0.0872664625997165,155.353834350167,0.513446709848333,0.0,0.882278,0.035401,0.050476,9,1,18,1268,'ccl_gap');
INSERT INTO `rf_gap` VALUES (571,'09RG119',703.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.53546608449685,-0.535466083594766,-0.0872664625997165,155.462935117587,0.513589631447429,0.0,0.882278,0.035401,0.050476,9,1,19,1269,'ccl_gap');
INSERT INTO `rf_gap` VALUES (572,'09RG120',704.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.536756382536791,-0.536756381634707,-0.0872664625997165,155.571956099914,0.513732403228281,0.0,0.882278,0.035401,0.050476,9,1,20,1270,'ccl_gap');
INSERT INTO `rf_gap` VALUES (573,'09RG121',705.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.53891858994864,-0.538918589046556,-0.0872664625997451,155.680840377451,0.5138749511182,0.0,0.882278,0.035401,0.050476,9,1,21,1271,'ccl_gap');
INSERT INTO `rf_gap` VALUES (574,'09RG122',706.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.541950568271556,-0.541950567369472,-0.0872664625997165,155.789530547085,0.514017200724709,0.0,0.882278,0.035401,0.050476,9,1,22,1272,'ccl_gap');
INSERT INTO `rf_gap` VALUES (575,'09RG123',707.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.545849727134712,-0.545849726232628,-0.0872664625997165,155.897968509697,0.514159077055465,0.0,0.882278,0.035401,0.050476,9,1,23,1273,'ccl_gap');
INSERT INTO `rf_gap` VALUES (576,'09RG124',708.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.550613020876906,-0.550613019974822,-0.0872664625997165,156.006095263211,0.514300504245355,0.0,0.882278,0.035401,0.050476,9,1,24,1274,'ccl_gap');
INSERT INTO `rf_gap` VALUES (577,'09RG125',709.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.556236943531776,-0.556236942629692,-0.0872664625997165,156.113850702678,0.514441405292553,0.0,0.882278,0.035401,0.050476,9,1,25,1275,'ccl_gap');
INSERT INTO `rf_gap` VALUES (578,'09RG126',710.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.562717522243542,-0.562717521341458,-0.0872664625997165,156.221173428801,0.514581701805303,0.0,0.882278,0.035401,0.050476,9,1,26,1276,'ccl_gap');
INSERT INTO `rf_gap` VALUES (579,'09RG127',711.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.570050309187455,-0.570050308285371,-0.0872664625997165,156.328000566311,0.514721313761204,0.0,0.882278,0.035401,0.050476,9,1,27,1277,'ccl_gap');
INSERT INTO `rf_gap` VALUES (580,'09RG128',712.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.578230372080352,-0.578230371178268,-0.0872664625997165,156.434267593628,0.514860159280779,0.0,0.882278,0.035401,0.050476,9,1,28,1278,'ccl_gap');
INSERT INTO `rf_gap` VALUES (581,'09RG129',713.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.587252283376319,-0.587252282474235,-0.0872664625997165,156.539908185236,0.514998154417082,0.0,0.882278,0.035401,0.050476,9,1,29,1279,'ccl_gap');
INSERT INTO `rf_gap` VALUES (582,'09RG130',714.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.597110108253116,-0.597110107351032,-0.0872664625997165,156.644854068218,0.51513521296314,0.0,0.882278,0.035401,0.050476,9,1,30,1280,'ccl_gap');
INSERT INTO `rf_gap` VALUES (583,'09RG131',715.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.607797391504566,-0.607797390602482,-0.0872664625997165,156.749034894384,0.515271246278971,0.0,0.882278,0.035401,0.050476,9,1,31,1281,'ccl_gap');
INSERT INTO `rf_gap` VALUES (584,'09RG132',716.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.619307143464593,-0.619307142562509,-0.0872664625997165,156.852378129447,0.515406163139961,0.0,0.882278,0.035401,0.050476,9,1,32,1282,'ccl_gap');
INSERT INTO `rf_gap` VALUES (585,'09RG133',717.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.631631825098101,-0.631631824196017,-0.0872664625997165,156.954808960675,0.515539869608316,0.0,0.882278,0.035401,0.050476,9,1,33,1283,'ccl_gap');
INSERT INTO `rf_gap` VALUES (586,'09RG134',718.0,805.0,0.0956064705882,1.50387943950661,1.50387943950661,0.0,1.50387943862365,-0.644763332403141,-0.644763331501057,-0.0872664625997165,157.056250224415,0.515672268929312,0.0,0.882278,0.035401,0.050476,9,1,34,1284,'ccl_gap');
INSERT INTO `rf_gap` VALUES (587,'09RG201',727.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.611835904541533,-0.611835903693045,3.05432619099008,157.160851820724,0.515806005962166,0.0,0.882796,0.035259,0.05046,9,2,1,1292,'ccl_gap');
INSERT INTO `rf_gap` VALUES (588,'09RG202',728.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.602457948302018,-0.60245794745353,3.05432619099008,157.266140562825,0.515942165908941,0.0,0.882796,0.035259,0.05046,9,2,2,1293,'ccl_gap');
INSERT INTO `rf_gap` VALUES (589,'09RG203',729.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.593914521433038,-0.59391452058455,3.05432619099008,157.372047614231,0.516079097031032,0.0,0.882796,0.035259,0.05046,9,2,3,1294,'ccl_gap');
INSERT INTO `rf_gap` VALUES (590,'09RG204',730.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.586209559370307,-0.586209558521819,3.05432619099008,157.478506064616,0.516216710057169,0.0,0.882796,0.035259,0.05046,9,2,4,1295,'ccl_gap');
INSERT INTO `rf_gap` VALUES (591,'09RG205',731.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.579346453461227,-0.579346452612739,3.05432619099008,157.585450782589,0.516354918305939,0.0,0.882796,0.035259,0.05046,9,2,5,1296,'ccl_gap');
INSERT INTO `rf_gap` VALUES (592,'09RG206',732.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.573328067426649,-0.57332806657816,3.05432619099008,157.692818255995,0.516493637482516,0.0,0.882796,0.035259,0.05046,9,2,6,1297,'ccl_gap');
INSERT INTO `rf_gap` VALUES (593,'09RG207',733.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.568156752501236,-0.568156751652747,3.05432619099008,157.800546421305,0.516632785460565,0.0,0.882796,0.035259,0.05046,9,2,7,1298,'ccl_gap');
INSERT INTO `rf_gap` VALUES (594,'09RG208',734.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.563834361170752,-0.563834360322264,3.05432619099008,157.908574483633,0.516772282051412,0.0,0.882796,0.035259,0.05046,9,2,8,1299,'ccl_gap');
INSERT INTO `rf_gap` VALUES (595,'09RG209',735.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.560362259438021,-0.560362258589532,3.05432619099008,158.016842728862,0.516912048762521,0.0,0.882796,0.035259,0.05046,9,2,9,1300,'ccl_gap');
INSERT INTO `rf_gap` VALUES (596,'09RG210',736.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.557741337561685,-0.557741336713196,3.05432619099008,158.125292329383,0.517052008547267,0.0,0.882796,0.035259,0.05046,9,2,10,1301,'ccl_gap');
INSERT INTO `rf_gap` VALUES (597,'09RG211',737.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.555972019224865,-0.555972018376377,3.05432619099008,158.233865144859,0.517192085547959,0.0,0.882796,0.035259,0.05046,9,2,11,1302,'ccl_gap');
INSERT INTO `rf_gap` VALUES (598,'09RG212',738.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.555054269102092,-0.555054268253603,3.05432619099008,158.342503519457,0.517332204833988,0.0,0.882796,0.035259,0.05046,9,2,12,1303,'ccl_gap');
INSERT INTO `rf_gap` VALUES (599,'09RG213',739.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.55498759880521,-0.554987597956721,3.05432619099008,158.45115007693,0.517472292136971,0.0,0.882796,0.035259,0.05046,9,2,13,1304,'ccl_gap');
INSERT INTO `rf_gap` VALUES (600,'09RG214',740.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.555771071199463,-0.555771070350975,3.05432619099008,158.559747514932,0.517612273584671,0.0,0.882796,0.035259,0.05046,9,2,14,1305,'ccl_gap');
INSERT INTO `rf_gap` VALUES (601,'09RG215',741.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.557403303092724,-0.557403302244236,3.05432619099008,158.668238399912,0.517752075435492,0.0,0.882796,0.035259,0.05046,9,2,15,1306,'ccl_gap');
INSERT INTO `rf_gap` VALUES (602,'09RG216',742.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.559882466310857,-0.559882465462369,3.05432619099008,158.776564963942,0.51789162381527,0.0,0.882796,0.035259,0.05046,9,2,16,1307,'ccl_gap');
INSERT INTO `rf_gap` VALUES (603,'09RG217',743.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.563206287182692,-0.563206286334204,3.05432619099008,158.884668904826,0.518030844458072,0.0,0.882796,0.035259,0.05046,9,2,17,1308,'ccl_gap');
INSERT INTO `rf_gap` VALUES (604,'09RG218',744.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.56737204446873,-0.567372043620242,3.05432619099008,158.992491190792,0.518169662452725,0.0,0.882796,0.035259,0.05046,9,2,18,1309,'ccl_gap');
INSERT INTO `rf_gap` VALUES (605,'09RG219',745.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.572376565777159,-0.572376564928671,3.05432619099008,159.099971871137,0.518308001996709,0.0,0.882796,0.035259,0.05046,9,2,19,1310,'ccl_gap');
INSERT INTO `rf_gap` VALUES (606,'09RG220',746.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.578216222520684,-0.578216221672196,3.05432619099008,159.207049894133,0.518445786159128,0.0,0.882796,0.035259,0.05046,9,2,20,1311,'ccl_gap');
INSERT INTO `rf_gap` VALUES (607,'09RG221',747.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.584886923477993,-0.584886922629504,3.05432619099008,159.313662933538,0.518582936654383,0.0,0.882796,0.035259,0.05046,9,2,21,1312,'ccl_gap');
INSERT INTO `rf_gap` VALUES (608,'09RG222',748.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.592384107032236,-0.592384106183747,3.05432619099008,159.419747225064,0.518719373628223,0.0,0.882796,0.035259,0.05046,9,2,22,1313,'ccl_gap');
INSERT INTO `rf_gap` VALUES (609,'09RG223',749.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.600702732169435,-0.600702731320947,3.05432619099008,159.525237414127,0.518855015457804,0.0,0.882796,0.035259,0.05046,9,2,23,1314,'ccl_gap');
INSERT INTO `rf_gap` VALUES (610,'09RG224',750.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.609837268328482,-0.609837267479993,3.05432619099008,159.630066416256,0.518989778567418,0.0,0.882796,0.035259,0.05046,9,2,24,1315,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (611,'09RG225',751.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.619781684203869,-0.619781683355381,3.05432619099008,159.734165291486,0.519123577261509,0.0,0.882796,0.035259,0.05046,9,2,25,1316,'ccl_gap');
INSERT INTO `rf_gap` VALUES (612,'09RG226',752.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.63052943561171,-0.630529437463222,3.05432619099008,159.837463134089,0.519256323576603,0.0,0.882796,0.035259,0.05046,9,2,26,1317,'ccl_gap');
INSERT INTO `rf_gap` VALUES (613,'09RG227',753.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.642073452537984,-0.642073451689495,3.05432619099008,159.93988697898,0.519387927153752,0.0,0.882796,0.035259,0.05046,9,2,27,1318,'ccl_gap');
INSERT INTO `rf_gap` VALUES (614,'09RG228',754.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.654406125497762,-0.654406124649274,3.05432619099008,160.041361726096,0.519518295133066,0.0,0.882796,0.035259,0.05046,9,2,28,1319,'ccl_gap');
INSERT INTO `rf_gap` VALUES (615,'09RG229',755.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.667519291341787,-0.667519290493299,3.05432619099008,160.141810084051,0.519647332071856,0.0,0.882796,0.035259,0.05046,9,2,29,1320,'ccl_gap');
INSERT INTO `rf_gap` VALUES (616,'09RG230',756.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.681404218655406,-0.681404217806918,3.05432619099008,160.241152534248,0.519774939887887,0.0,0.882796,0.035259,0.05046,9,2,30,1321,'ccl_gap');
INSERT INTO `rf_gap` VALUES (617,'09RG231',757.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.696051592903172,-0.696051592054683,3.05432619099008,160.339307316937,0.51990101782914,0.0,0.882796,0.035259,0.05046,9,2,31,1322,'ccl_gap');
INSERT INTO `rf_gap` VALUES (618,'09RG232',758.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.711451501478994,-0.711451500630506,3.05432619099008,160.436190439472,0.520025462471414,0.0,0.882796,0.035259,0.05046,9,2,32,1323,'ccl_gap');
INSERT INTO `rf_gap` VALUES (619,'09RG233',759.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.727593418829256,-0.727593417980767,3.05432619099008,160.53171570922,0.520148167745006,0.0,0.882796,0.035259,0.05046,9,2,33,1324,'ccl_gap');
INSERT INTO `rf_gap` VALUES (620,'09RG234',760.0,805.0,0.0963444117647,1.50299700511671,1.50299700511671,0.0,1.50299700423427,-0.744466191822302,-0.744466190973814,3.05432619099008,160.625794790625,0.520269024991561,0.0,0.882796,0.035259,0.05046,9,2,34,1325,'ccl_gap');
INSERT INTO `rf_gap` VALUES (621,'09RG301',769.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.719632290180019,-0.719632289298532,-0.0872664625997165,160.722940887861,0.52039085531561,0.0,0.883268,0.035128,0.050443,9,3,1,1335,'ccl_gap');
INSERT INTO `rf_gap` VALUES (622,'09RG302',770.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.703026667576824,-0.703026666695337,-0.0872664625997165,160.821490252667,0.520515471275919,0.0,0.883268,0.035128,0.050443,9,3,2,1336,'ccl_gap');
INSERT INTO `rf_gap` VALUES (623,'09RG303',771.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.687183245682514,-0.687183244801027,-0.0872664625997165,160.921353401729,0.520641753031918,0.0,0.883268,0.035128,0.050443,9,3,3,1337,'ccl_gap');
INSERT INTO `rf_gap` VALUES (624,'09RG304',772.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.672111369340799,-0.672111368459312,-0.0872664625997165,161.022443354575,0.52076958575602,0.0,0.883268,0.035128,0.050443,9,3,4,1338,'ccl_gap');
INSERT INTO `rf_gap` VALUES (625,'09RG305',773.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.657819681357465,-0.657819680475978,-0.0872664625997165,161.12467566487,0.52089885802681,0.0,0.883268,0.035128,0.050443,9,3,5,1339,'ccl_gap');
INSERT INTO `rf_gap` VALUES (626,'09RG306',774.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.644316144624545,-0.644316143743058,-0.0872664625997165,161.227968425947,0.521029461850657,0.0,0.883268,0.035128,0.050443,9,3,6,1340,'ccl_gap');
INSERT INTO `rf_gap` VALUES (627,'09RG307',775.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.631608064255302,-0.631608063373815,-0.0872664625997165,161.332242251913,0.521161292650588,0.0,0.883268,0.035128,0.050443,9,3,7,1341,'ccl_gap');
INSERT INTO `rf_gap` VALUES (628,'09RG308',776.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.619702109532602,-0.619702108651115,-0.0872664625997165,161.437420235773,0.521294249224397,0.0,0.883268,0.035128,0.050443,9,3,8,1342,'ccl_gap');
INSERT INTO `rf_gap` VALUES (629,'09RG309',777.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.60860433548636,-0.608604334604873,-0.0872664625997165,161.543427886058,0.52142823367399,5,0.0,0.883268,0.035128,0.050443,9,3,9,1343,'ccl_gap');
INSERT INTO `rf_gap` VALUES (630,'09RG310',778.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.598320203929168,-0.598320203047681,-0.0872664625997165,161.650193043501,0.521563151308074,0.0,0.883268,0.035128,0.050443,9,3,10,1344,'ccl_gap');
INSERT INTO `rf_gap` VALUES (631,'09RG311',779.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.588854603793307,-0.58885460291182,-0.0872664625997165,161.757645779294,0.521698910520209,0.0,0.883268,0.035128,0.050443,9,3,11,1345,'ccl_gap');
INSERT INTO `rf_gap` VALUES (632,'09RG312',780.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.580211870625595,-0.580211869744108,-0.0872664625997165,161.865718276513,0.521835422644504,0.0,0.883268,0.035128,0.050443,9,3,12,1346,'ccl_gap');
INSERT INTO `rf_gap` VALUES (633,'09RG313',781.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.572395805110658,-0.572395804229171,-0.0872664625997165,161.974344696246,0.52197260179089,0.0,0.883268,0.035128,0.050443,9,3,13,1347,'ccl_gap');
INSERT INTO `rf_gap` VALUES (634,'09RG314',782.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.565409690506462,-0.565409689624975,-0.0872664625997165,162.083461029991,0.522110364662182,0.0,0.883268,0.035128,0.050443,9,3,14,1348,'ccl_gap');
INSERT INTO `rf_gap` VALUES (635,'09RG315',783.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.5592563088895,-0.559256308008013,-0.0872664625997165,162.193004939833,0.522248630354925,0.0,0.883268,0.035128,0.050443,9,3,15,1349,'ccl_gap');
INSERT INTO `rf_gap` VALUES (636,'09RG316',784.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.553937956119645,-0.553937955238158,-0.0872664625997165,162.302915587912,0.52238732014606,0.0,0.883268,0.035128,0.050443,9,3,16,1350,'ccl_gap');
INSERT INTO `rf_gap` VALUES (637,'09RG317',785.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.549456455447766,-0.549456454566279,-0.0872664625997165,162.413133456648,0.522526357267383,0.0,0.883268,0.035128,0.050443,9,3,17,1351,'ccl_gap');
INSERT INTO `rf_gap` VALUES (638,'09RG318',786.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.545813169700983,-0.545813168819496,-0.0872664625997165,162.523600161158,0.522665666669696,0.0,0.883268,0.035128,0.050443,9,3,18,1352,'ccl_gap');
INSERT INTO `rf_gap` VALUES (639,'09RG319',787.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.543009011992636,-0.543009011111149,-0.0872664625997165,162.634258255287,0.52280517477853,0.0,0.883268,0.035128,0.050443,9,3,19,1353,'ccl_gap');
INSERT INTO `rf_gap` VALUES (640,'09RG320',788.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.541044454915342,-0.541044454033855,-0.0872664625997165,162.74505103262,0.522944809243253,0.0,0.883268,0.035128,0.050443,9,3,20,1354,'ccl_gap');
INSERT INTO `rf_gap` VALUES (641,'09RG321',789.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.539919538186664,-0.539919537305177,-0.0872664625997165,162.85592232383,0.523084498681328,0.0,0.883268,0.035128,0.050443,9,3,21,1355,'ccl_gap');
INSERT INTO `rf_gap` VALUES (642,'09RG322',790.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.539633874727448,-0.539633873845961,-0.0872664625997165,162.966816291699,0.523224172419443,0.0,0.883268,0.035128,0.050443,9,3,22,1356,'ccl_gap');
INSERT INTO `rf_gap` VALUES (643,'09RG323',791.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.540186655163593,-0.540186654282106,-0.0872664625997165,163.077677225096,0.52336376023319,0.0,0.883268,0.035128,0.050443,9,3,23,1357,'ccl_gap');
INSERT INTO `rf_gap` VALUES (644,'09RG324',792.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.541576650751983,-0.541576649870496,-0.0872664625997165,163.188449333221,0.523503192086947,0.0,0.883268,0.035128,0.050443,9,3,24,1358,'ccl_gap');
INSERT INTO `rf_gap` VALUES (645,'09RG325',793.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.543802214740508,-0.543802213859021,-0.0872664625997165,163.299076541377,0.52364239787556,0.0,0.883268,0.035128,0.050443,9,3,25,1359,'ccl_gap');
INSERT INTO `rf_gap` VALUES (646,'09RG326',794.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.546861282182865,-0.546861281301378,-0.0872664625997165,163.409502289551,0.523781307169438,0.0,0.883268,0.035128,0.050443,9,3,26,1360,'ccl_gap');
INSERT INTO `rf_gap` VALUES (647,'09RG327',795.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.550751368237043,-0.550751367355556,-0.0872664625997165,163.519669335043,0.523919848964608,0.0,0.883268,0.035128,0.050443,9,3,27,1361,'ccl_gap');
INSERT INTO `rf_gap` VALUES (648,'09RG328',796.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.55546956498589,-0.555469564104403,-0.0872664625997165,163.629519560437,0.524057951439295,0.0,0.883268,0.035128,0.050443,9,3,28,1362,'ccl_gap');
INSERT INTO `rf_gap` VALUES (649,'09RG329',797.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.561012536827972,-0.561012535946485,-0.0872664625997165,163.73899378815,0.524195541718583,0.0,0.883268,0.035128,0.050443,9,3,29,1363,'ccl_gap');
INSERT INTO `rf_gap` VALUES (650,'09RG330',798.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.567376514494518,-0.567376513613031,-0.0872664625997165,163.848031602849,0.524332545648681,0.0,0.883268,0.035128,0.050443,9,3,30,1364,'ccl_gap');
INSERT INTO `rf_gap` VALUES (651,'09RG331',799.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.574557287758109,-0.574557286876622,-0.0872664625997165,163.956571183011,0.524468887582344,0.0,0.883268,0.035128,0.050443,9,3,31,1365,'ccl_gap');
INSERT INTO `rf_gap` VALUES (652,'09RG332',800.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.582550196907453,-0.582550196025966,-0.0872664625997165,164.064549142897,0.524604490176984,0.0,0.883268,0.035128,0.050443,9,3,32,1366,'ccl_gap');
INSERT INTO `rf_gap` VALUES (653,'09RG333',801.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.591350123070525,-0.591350122189038,-0.0872664625997165,164.171900386257,0.524739274206999,0.0,0.883268,0.035128,0.050443,9,3,33,1367,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (654,'09RG334',802.0,805.0,0.0974223529412,1.50219383485988,1.50219383485988,0.0,1.50219383397791,-0.600951477478068,-0.600951476596581,-0.087266462599716,164.278557973039,0.524873158391873,0.0,0.883268,0.035128,0.050443,9,3,34,1368,'ccl_gap');
INSERT INTO `rf_gap` VALUES (655,'09RG401',811.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.596466903769963,-0.596466902674495,3.05432619099008,164.386340522102,0.525007239112485,0.0,0.883715,0.035005,0.050428,9,4,1,1376,'ccl_gap');
INSERT INTO `rf_gap` VALUES (656,'09RG402',812.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.581094073182498,-0.58109407208703,3.05432619099008,164.495238742758,0.52514264636604,0.0,0.883715,0.035005,0.050428,9,4,2,1377,'ccl_gap');
INSERT INTO `rf_gap` VALUES (657,'09RG403',813.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.566540073409223,-0.566540072313755,3.05432619099008,164.605169782983,0.525279320372326,0.0,0.883715,0.035005,0.050428,9,4,3,1378,'ccl_gap');
INSERT INTO `rf_gap` VALUES (658,'09RG404',814.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.552811727558999,-0.552811726463531,3.05432619099008,164.716054006851,0.525417157562636,0.0,0.883715,0.035005,0.050428,9,4,4,1379,'ccl_gap');
INSERT INTO `rf_gap` VALUES (659,'09RG405',815.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.539915236591166,-0.539915235495698,3.05432619099008,164.827814927912,0.525556058550839,0.0,0.883715,0.035005,0.050428,9,4,5,1380,'ccl_gap');
INSERT INTO `rf_gap` VALUES (660,'09RG406',816.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.527856205521835,-0.527856204426367,3.05432619099008,164.940379119186,0.525695928028851,0.0,0.883715,0.035005,0.050428,9,4,6,1381,'ccl_gap');
INSERT INTO `rf_gap` VALUES (661,'09RG407',817.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.51663966886516,-0.516639667769692,3.05432619099008,165.053676101567,0.525836674633776,0.0,0.883715,0.035005,0.050428,9,4,7,1382,'ccl_gap');
INSERT INTO `rf_gap` VALUES (662,'09RG408',818.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.506270115145738,-0.50627011405027,3.05432619099008,165.167638212483,0.525978210789174,0.0,0.883715,0.035005,0.050428,9,4,8,1383,'ccl_gap');
INSERT INTO `rf_gap` VALUES (663,'09RG409',819.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.496751510334057,-0.496751509238589,3.05432619099008,165.282200456581,0.526120452522858,0.0,0.883715,0.035005,0.050428,9,4,9,1384,'ccl_gap');
INSERT INTO `rf_gap` VALUES (664,'09RG410',820.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.488087320072025,-0.488087318976557,3.05432619099008,165.397300340184,0.526263319263572,0.0,0.883715,0.035005,0.050428,9,4,10,1385,'ccl_gap');
INSERT INTO `rf_gap` VALUES (665,'09RG411',821.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.480280530570546,-0.480280529475078,3.05432619099008,165.51287769124,0.526406733618829,0.0,0.883715,0.035005,0.050428,9,4,11,1386,'ccl_gap');
INSERT INTO `rf_gap` VALUES (666,'09RG412',822.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.473333668075511,-0.473333666980043,3.05432619099008,165.628874466401,0.52655062113614,0.0,0.883715,0.035005,0.050428,9,4,12,1387,'ccl_gap');
INSERT INTO `rf_gap` VALUES (667,'09RG413',823.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.467248816812023,-0.467248815716555,3.05432619099008,165.745234546836,0.526694910049743,0.0,0.883715,0.035005,0.050428,9,4,13,1388,'ccl_gap');
INSERT INTO `rf_gap` VALUES (668,'09RG414',824.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.462027635330144,-0.46202763423467,3.05432619099008,165.861903524308,0.526839531014882,0.0,0.883715,0.035005,0.050428,9,4,14,1389,'ccl_gap');
INSERT INTO `rf_gap` VALUES (669,'09RG415',825.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.457671371187977,-0.457671370092509,3.05432619099008,165.978828479003,0.526984416831616,0.0,0.883715,0.035005,0.050428,9,4,15,1390,'ccl_gap');
INSERT INTO `rf_gap` VALUES (670,'09RG416',826.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.454180873919184,-0.454180872823716,3.05432619099008,166.095957750529,0.52712950215999,0.0,0.883715,0.035005,0.050428,9,4,16,1391,'ccl_gap');
INSERT INTO `rf_gap` VALUES (671,'09RG417',827.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.451556606244714,-0.451556605149246,3.05432619099008,166.213240703456,0.527274723228415,0.0,0.883715,0.035005,0.050428,9,4,17,1392,'ccl_gap');
INSERT INTO `rf_gap` VALUES (672,'09RG418',828.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.449798653497722,-0.449798652402254,3.05432619099008,166.330627488733,0.52742001753693,0.0,0.883715,0.035005,0.050428,9,4,18,1393,'ccl_gap');
INSERT INTO `rf_gap` VALUES (673,'09RG419',829.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.448906731242466,-0.448906730146998,3.05432619099008,166.448068802256,0.527565323557043,0.0,0.883715,0.035005,0.050428,9,4,19,1394,'ccl_gap');
INSERT INTO `rf_gap` VALUES (674,'09RG420',830.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.448880191076625,-0.448880189981157,3.05432619099008,166.565515641837,0.527710580429714,0.0,0.883715,0.035005,0.050428,9,4,20,1395,'ccl_gap');
INSERT INTO `rf_gap` VALUES (675,'09RG421',831.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.449718024616878,-0.4497180235214,3.05432619099008,166.682919063813,0.527855727663043,0.0,0.883715,0.035005,0.050428,9,4,21,1396,'ccl_gap');
INSERT INTO `rf_gap` VALUES (676,'09RG422',832.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.451418865675904,-0.451418864580436,3.05432619099008,166.800229940477,0.528000704831175,0.0,0.883715,0.035005,0.050428,9,4,22,1397,'ccl_gap');
INSERT INTO `rf_gap` VALUES (677,'09RG423',833.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.453980990648496,-0.453980989553028,3.05432619099008,166.917398719544,0.528145451275886,0.0,0.883715,0.035005,0.050428,9,4,23,1398,'ccl_gap');
INSERT INTO `rf_gap` VALUES (678,'09RG424',834.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.457402317132675,-0.457402316037207,3.05432619099008,167.034375186834,0.528289905812305,0.0,0.883715,0.035005,0.050428,9,4,24,1399,'ccl_gap');
INSERT INTO `rf_gap` VALUES (679,'09RG425',835.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.461680400820107,-0.46168039972463 9,3.05432619099008,167.15110823336,0.528434006440236,0.0,0.883715,0.035005,0.050428,9,4,25,1400,'ccl_gap');
INSERT INTO `rf_gap` VALUES (680,'09RG426',836.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.466812430698936,-0.466812429603468,3.05432619099008,167.267545628038,0.528577690062506,0.0,0.883715,0.035005,0.050428,9,4,26,1401,'ccl_gap');
INSERT INTO `rf_gap` VALUES (681,'09RG427',837.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.472795222619943,-0.472795221524475,3.05432619099008,167.383633797229,0.528720892211795,0.0,0.883715,0.035005,0.050428,9,4,27,1402,'ccl_gap');
INSERT INTO `rf_gap` VALUES (682,'09RG428',838.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.479625211285337,-0.479625210189869,3.05432619099008,167.499317612367,0.528863546787407,0.0,0.883715,0.035005,0.050428,9,4,28,1403,'ccl_gap');
INSERT INTO `rf_gap` VALUES (683,'09RG429',839.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.487298440728373,-0.48729843963290 5,3.05432619099008,167.61454018693,0.529005585803478,0.0,0.883715,0.035005,0.050428,9,4,29,1404,'ccl_gap');
INSERT INTO `rf_gap` VALUES (684,'09RG430',840.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.495810553359532,-0.495810552264064,3.05432619099008,167.729242684069,0.529146939150108,0.0,0.883715,0.035005,0.050428,9,4,30,1405,'ccl_gap');
INSERT INTO `rf_gap` VALUES (685,'09RG431',841.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.505156777663849,-0.505156776568381,3.05432619099008,167.843364136212,0.529287534368966,0.0,0.883715,0.035005,0.050428,9,4,31,1406,'ccl_gap');
INSERT INTO `rf_gap` VALUES (686,'09RG432',842.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.515331914643183,-0.515331913547715,3.05432619099008,167.956841278015,0.529427296444912,0.0,0.883715,0.035005,0.050428,9,4,32,1407,'ccl_gap');
INSERT INTO `rf_gap` VALUES (687,'09RG433',843.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.526330323104524,-0.526330322009056,3.05432619099008,168.069608394051,0.529566147615246,0.0,0.883715,0.035005,0.050428,9,4,33,1408,'ccl_gap');
INSERT INTO `rf_gap` VALUES (688,'09RG434',844.0,805.0,0.0982494117647,1.50143399640044,1.50143399640044,0.0,1.50143399551892,-0.538145903905686,-0.538145902810218,3.05432619099008,168.181597182643,0.529704007198163,0.0,0.883715,0.035005,0.050428,9,4,34,1409,'ccl_gap');
INSERT INTO `rf_gap` VALUES (689,'10RG101',854.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.73676153726895,-0.736761536500689,0.00872664625997165,168.278339759233,0.529831968041079,0.0,0.88414,0.034887,0.050414,10,1,1,1425,'ccl_gap');
INSERT INTO `rf_gap` VALUES (690,'10RG102',855.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.723890720165232,-0.722890719396971,0.00872664625997165,168.376206563318,0.529951211128473,0.0,0.88414,0.034887,0.050414,10,1,2,1426,'ccl_gap');
INSERT INTO `rf_gap` VALUES (691,'10RG103',856.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.711734220338257,-0.711734219569996,0.00872664625997165,168.475120555736,0.530071725493876,0.0,0.88414,0.034887,0.050414,10,1,3,1427,'ccl_gap');
INSERT INTO `rf_gap` VALUES (692,'10RG104',857.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.700298956678162,-0.700298955909901,0.00872664625997165,168.575006515133,0.530193416039734,0.0,0.88414,0.034887,0.050414,10,1,4,1428,'ccl_gap');
INSERT INTO `rf_gap` VALUES (693,'10RG105',858.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.689591278409385,-0.689591277641124,0.00872664625997165,168.675791016648,0.530316190048637,0.0,0.88414,0.034887,0.050414,10,1,5,1429,'ccl_gap');
INSERT INTO `rf_gap` VALUES (694,'10RG106',859.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.679616980231413,-0.679616979463152,0.00872664625997165,168.777402393587,0.530439957145454,0.0,0.88414,0.034887,0.050414,10,1,6,1430,'ccl_gap');
INSERT INTO `rf_gap` VALUES (695,'10RG107',860.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.670381317158562,-0.670381316390301,0.00872664625997165,168.879770683194,0.530564629233897,0.0,0.88414,0.034887,0.050414,10,1,7,1431,'ccl_gap');
INSERT INTO `rf_gap` VALUES (696,'10RG108',861.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.661889018939218,-0.661889018170957,0.00872664625997165,168.982827557637,0.530690120444503,0.0,0.88414,0.034887,0.050414,10,1,8,1432,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (697,'10RG109',862.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.654144303944567,-
0.654144303176306,0.0087266462599716,169.086506241388,0.530816346988993,0.0,0.88414,0.034887,0.050414,10,1,9,1433,'ccl_gap');
INSERT INTO `rf_gap` VALUES (698,'10RG110',863.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.647150892426237,-
0.647150891657976,0.0087266462599716,169.190741416174,0.530943227100094,0.0,0.88414,0.034887,0.050414,10,1,10,1434,'ccl_gap');
INSERT INTO `rf_gap` VALUES (699,'10RG111',864.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.64091201905227,-
0.640912018284009,0.0087266462599716,169.295469114666,0.5310706808808,0.0,0.88414,0.034887,0.050414,10,1,11,1435,'ccl_gap');
INSERT INTO `rf_gap` VALUES (700,'10RG112',865.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.635430444640162,-
0.635430443871901,0.0087266462599716,169.400626604131,0.53119863017113,0.0,0.88414,0.034887,0.050414,10,1,12,1436,'ccl_gap');
INSERT INTO `rf_gap` VALUES (701,'10RG113',866.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.630708467015357,-
0.630708466247096,0.0087266462599716,169.506152261201,0.531326998398399,0.0,0.88414,0.034887,0.050414,10,1,13,1437,'ccl_gap');
INSERT INTO `rf_gap` VALUES (702,'10RG114',867.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.626747930933033,-
0.626747930164772,0.0087266462599716,169.611985438954,0.531455710417587,0.0,0.88414,0.034887,0.050414,10,1,14,1438,'ccl_gap');
INSERT INTO `rf_gap` VALUES (703,'10RG115',868.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.623550237010311,-
0.62355023624205,0.0087266462599716,169.718066327485,0.531584692343282,0.0,0.88414,0.034887,0.050414,10,1,15,1439,'ccl_gap');
INSERT INTO `rf_gap` VALUES (704,'10RG116',869.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.621116349624882,-
0.62111634856621,0.0087266462599716,169.824435809111,0.531713871374686,0.0,0.88414,0.034887,0.050414,10,1,16,1440,'ccl_gap');
INSERT INTO `rf_gap` VALUES (705,'10RG117',870.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.619446803745238,-
0.619446802976977,0.0087266462599716,169.930735309372,0.531843175615111,0.0,0.88414,0.034887,0.050414,10,1,17,1441,'ccl_gap');
INSERT INTO `rf_gap` VALUES (706,'10RG118',871.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.618541710666375,-
0.618541709898114,0.0087266462599716,170.037206644957,0.531972533887402,0.0,0.88414,0.034887,0.050414,10,1,18,1442,'ccl_gap');
INSERT INTO `rf_gap` VALUES (707,'10RG119',872.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.618400762632992,-
0.618400761864731,0.0087266462599716,170.143691869679,0.53210187554667,0.0,0.88414,0.034887,0.050414,10,1,19,1443,'ccl_gap');
INSERT INTO `rf_gap` VALUES (708,'10RG120',873.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.619023236340991,-
0.61902323557273,0.0087266462599716,170.250133119607,0.53223113029173,0.0,0.88414,0.034887,0.050414,10,1,20,1444,'ccl_gap');
INSERT INTO `rf_gap` VALUES (709,'10RG121',874.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.620407995316019,-
0.62040799454758,0.0087266462599716,170.356472458476,0.532360227976572,0.0,0.88414,0.034887,0.050414,10,1,21,1445,'ccl_gap');
INSERT INTO `rf_gap` VALUES (710,'10RG122',875.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.622553491175464,-
0.622553490407203,0.0087266462599716,170.462651724435,0.532489098423222,0.0,0.88414,0.034887,0.050414,10,1,22,1446,'ccl_gap');
INSERT INTO `rf_gap` VALUES (711,'10RG123',876.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.625457763788678,-
0.625457763020417,0.0087266462599716,170.568612379247,0.532617671237287,0.0,0.88414,0.034887,0.050414,10,1,23,1447,'ccl_gap');
INSERT INTO `rf_gap` VALUES (712,'10RG124',877.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.62911844035703,-
0.629118439588769,0.0087266462599716,170.674295361007,0.53274587562749,0.0,0.88414,0.034887,0.050414,10,1,24,1448,'ccl_gap');
INSERT INTO `rf_gap` VALUES (713,'10RG125',878.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.633532733444132,-
0.633532732675871,0.0087266462599716,170.779640941451,0.532873640230475,0.0,0.88414,0.034887,0.050414,10,1,25,1449,'ccl_gap');
INSERT INTO `rf_gap` VALUES (714,'10RG126',879.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.638697437991934,-
0.638697437223673,0.0087266462599716,170.884588588921,0.533000892942145,0.0,0.88414,0.034887,0.050414,10,1,26,1450,'ccl_gap');
INSERT INTO `rf_gap` VALUES (715,'10RG127',880.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.644608927367604,-
0.644608926599343,0.0087266462599716,170.989076838053,0.533127560756778,0.0,0.88414,0.034887,0.050414,10,1,27,1451,'ccl_gap');
INSERT INTO `rf_gap` VALUES (716,'10RG128',881.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.651263148492188,-
0.651263147723927,0.0087266462599716,171.093043167243,0.533253569615176,0.0,0.88414,0.034887,0.050414,10,1,28,1452,'ccl_gap');
INSERT INTO `rf_gap` VALUES (717,'10RG129',882.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.658655616108693,-
0.658655615340432,0.0087266462599716,171.196423884938,0.533378844263043,0.0,0.88414,0.034887,0.050414,10,1,29,1453,'ccl_gap');
INSERT INTO `rf_gap` VALUES (718,'10RG130',883.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.666781406254811,-
0.66678140548655,0.0087266462599716,171.299154025798,0.53350330812082,0.0,0.88414,0.034887,0.050414,10,1,30,1454,'ccl_gap');
INSERT INTO `rf_gap` VALUES (719,'10RG131',884.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.675635149011659,-
0.675635148243398,0.0087266462599716,171.401167257745,0.53362688316615,0.0,0.88414,0.034887,0.050414,10,1,31,1455,'ccl_gap');
INSERT INTO `rf_gap` VALUES (720,'10RG132',885.0,805.0,0.099071875,1.49198705911336,1.49198705911336,0.0,1.49198705823738,-0.6852110206063,-
0.685211019838039,0.0087266462599716,171.502395800934,0.533749489830139,0.0,0.88414,0.034887,0.050414,10,1,32,1456,'ccl_gap');
INSERT INTO `rf_gap` VALUES (721,'10RG201',894.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.652248477971617,-
0.652248477092248,3.15031929984976,171.60696327613,0.533873574392686,0.0,0.88452,0.034784,0.050396,10,2,1,1464,'ccl_gap');
INSERT INTO `rf_gap` VALUES (722,'10RG202',895.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.640433006769207,-
0.640433005889838,3.15031929984976,171.712470132031,0.534000173275176,0.0,0.88452,0.034784,0.050396,10,2,2,1465,'ccl_gap');
INSERT INTO `rf_gap` VALUES (723,'10RG203',896.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.629368858511242,-
0.629368857631873,3.15031929984976,171.818843555498,0.534127793742413,0.0,0.88452,0.034784,0.050396,10,2,3,1466,'ccl_gap');
INSERT INTO `rf_gap` VALUES (724,'10RG204',897.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.619061400857754,-
0.619061399978385,3.15031929984976,171.92601285111,0.534256347772869,0.0,0.88452,0.034784,0.050396,10,2,4,1467,'ccl_gap');
INSERT INTO `rf_gap` VALUES (725,'10RG205',898.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.609515480963699,-
0.60951548008433,3.15031929984976,172.03390936385,0.534385750018841,0.0,0.88452,0.034784,0.050396,10,2,5,1468,'ccl_gap');
INSERT INTO `rf_gap` VALUES (726,'10RG206',899.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.600735442022964,-
0.600735441143595,3.15031929984976,172.142466386444,0.534515917700583,0.0,0.88452,0.034784,0.050396,10,2,6,1469,'ccl_gap');
INSERT INTO `rf_gap` VALUES (727,'10RG207',900.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.592725139107754,-
0.592725138228385,3.15031929984976,172.251619052636,0.534646770482682,0.0,0.88452,0.034784,0.050396,10,2,7,1470,'ccl_gap');
INSERT INTO `rf_gap` VALUES (728,'10RG208',901.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.58548795420315,-
0.585487953323781,3.15031929984976,172.361304217709,0.534778230334335,0.0,0.88452,0.034784,0.050396,10,2,8,1471,'ccl_gap');
INSERT INTO `rf_gap` VALUES (729,'10RG209',902.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.579026810347384,-
0.579026809468015,3.15031929984976,172.471460327508,0.53491022137515,0.0,0.88452,0.034784,0.050396,10,2,9,1472,'ccl_gap');
INSERT INTO `rf_gap` VALUES (730,'10RG210',903.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.57334418479825,-
0.573344183918881,3.15031929984976,172.582027277262,0.535042669708116,0.0,0.88452,0.034784,0.050396,10,2,10,1473,'ccl_gap');
INSERT INTO `rf_gap` VALUES (731,'10RG211',904.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.568442121155994,-
0.568442120276625,3.15031929984976,172.692946261434,0.535175503241299,0.0,0.88452,0.034784,0.050396,10,2,11,1474,'ccl_gap');
INSERT INTO `rf_gap` VALUES (732,'10RG212',905.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.564322240383182,-
0.564322239503813,3.15031929984976,172.80415961583,0.535308651499853,0.0,0.88452,0.034784,0.050396,10,2,12,1475,'ccl_gap');
INSERT INTO `rf_gap` VALUES (733,'10RG213',906.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.560985750670623,-
0.560985749791254,3.15031929984976,172.915610653198,0.535442045429845,0.0,0.88452,0.034784,0.050396,10,2,13,1476,'ccl_gap');
INSERT INTO `rf_gap` VALUES (734,'10RG214',907.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.558433456108707,-
0.558433455229338,3.15031929984976,173.027243493463,0.535575617195383,0.0,0.88452,0.034784,0.050396,10,2,14,1477,'ccl_gap');
INSERT INTO `rf_gap` VALUES (735,'10RG215',908.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.556665764131237,-
0.556665763251868,3.15031929984976,173.139002889805,0.535709299970512,0.0,0.88452,0.034784,0.050396,10,2,15,1478,'ccl_gap');
INSERT INTO `rf_gap` VALUES (736,'10RG216',909.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.555682691708602,-
0.555682690829233,3.15031929984976,173.250834051684,0.535843027727271,0.0,0.88452,0.034784,0.050396,10,2,16,1479,'ccl_gap');
INSERT INTO `rf_gap` VALUES (737,'10RG217',910.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.555483870274526,-
0.55548386939515,3.15031929984976,173.362682465969,0.535976735021306,0.0,0.88452,0.034784,0.050396,10,2,17,1480,'ccl_gap');
INSERT INTO `rf_gap` VALUES (738,'10RG218',911.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.556068549379352,-
0.556068548499983,3.15031929984976,173.474493717261,0.536110356776398,0.0,0.88452,0.034784,0.050396,10,2,18,1481,'ccl_gap');
INSERT INTO `rf_gap` VALUES (739,'10RG219',912.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.557435599070798,-
0.557435598191429,3.15031929984976,173.586213308508,0.53624382806921,0.0,0.88452,0.034784,0.050396,10,2,19,1482,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (740,'10RG220',913.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.559583511010265,-0.559583510130896,3.15031929984976,173.697786483015,0.536377083915587,0.0,0.88452,0.034784,0.050396,10,2,20,1483,'ccl_gap');
INSERT INTO `rf_gap` VALUES (741,'10RG221',914.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.562510398340846,-0.562510397461477,3.15031929984976,173.809158048907,0.536510059509669,0.0,0.88452,0.034784,0.050396,10,2,21,1484,'ccl_gap');
INSERT INTO `rf_gap` VALUES (742,'10RG222',915.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.566213994330416,-0.566213993451047,3.15031929984976,173.92027220713,0.536642687767096,0.0,0.88452,0.034784,0.050396,10,2,22,1485,'ccl_gap');
INSERT INTO `rf_gap` VALUES (743,'10RG223',916.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.570691649820615,-0.570691648941246,3.15031929984976,174.031072384073,0.536774903623569,0.0,0.88452,0.034784,0.050396,10,2,23,1486,'ccl_gap');
INSERT INTO `rf_gap` VALUES (744,'10RG224',917.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.575940329518678,-0.575940328639309,3.15031929984976,174.141501069871,0.536906639340004,0.0,0.88452,0.034784,0.050396,10,2,24,1487,'ccl_gap');
INSERT INTO `rf_gap` VALUES (745,'10RG225',918.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.581956607178353,-0.581956606298984,3.15031929984976,174.251499663473,0.537037826565528,0.0,0.88452,0.034784,0.050396,10,2,25,1488,'ccl_gap');
INSERT INTO `rf_gap` VALUES (746,'10RG226',919.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.588736659720188,-0.588736658840819,3.15031929984976,174.361008325561,0.537168395709557,0.0,0.88452,0.034784,0.050396,10,2,26,1489,'ccl_gap');
INSERT INTO `rf_gap` VALUES (747,'10RG227',920.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.59627626035086,-0.596276259471491,3.15031929984976,174.469965840398,0.53729827577418,0.0,0.88452,0.034784,0.050396,10,2,27,1490,'ccl_gap');
INSERT INTO `rf_gap` VALUES (748,'10RG228',921.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.604570770746837,-0.604570769867468,3.15031929984976,174.57830948769,0.537427394198091,0.0,0.88452,0.034784,0.050396,10,2,28,1491,'ccl_gap');
INSERT INTO `rf_gap` VALUES (749,'10RG229',922.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.613615132374532,-0.613615131495163,3.15031929984976,174.685974925559,0.537555676713281,0.0,0.88452,0.034784,0.050396,10,2,29,1492,'ccl_gap');
INSERT INTO `rf_gap` VALUES (750,'10RG230',923.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.62340385702601,-0.62340385146641,3.15031929984976,174.792896085712,0.537683047215717,0.0,0.88452,0.034784,0.050396,10,2,30,1493,'ccl_gap');
INSERT INTO `rf_gap` VALUES (751,'10RG231',924.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.633931016655877,-0.633931015776508,3.15031929984976,174.899005081876,0.537809427651213,0.0,0.88452,0.034784,0.050396,10,2,31,1494,'ccl_gap');
INSERT INTO `rf_gap` VALUES (752,'10RG232',925.0,805.0,0.099795,1.49134608425416,1.49134608425416,0.0,1.49134608337856,-0.645190232611488,-0.645190231732119,3.15031929984976,175.004232132586,0.537934737917664,0.0,0.88452,0.034784,0.050396,10,2,32,1495,'ccl_gap');
INSERT INTO `rf_gap` VALUES (753,'10RG301',934.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.556247481273803,-0.556247480269126,0.0087266462599716 5,175.116785321933,0.538063801413061,0.0,0.884902,0.034678,0.050385,10,3,1,1505,'ccl_gap');
INSERT INTO `rf_gap` VALUES (754,'10RG302',935.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.546538386709455,-0.546538385704778,0.00872664625997165,175.230016066026,0.538197535549101,0.0,0.884902,0.034678,0.050385,10,3,2,1506,'ccl_gap');
INSERT INTO `rf_gap` VALUES (755,'10RG303',936.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.537614945951874,-0.537614944947197,0.00872664625997165,175.343860461071,0.538331960003097,0.0,0.884902,0.034678,0.050385,10,3,3,1507,'ccl_gap');
INSERT INTO `rf_gap` VALUES (756,'10RG304',937.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.529480536214498,-0.529480535209821,0.00872664625997165,175.458256708463,0.538466999222822,0.0,0.884902,0.034678,0.050385,10,3,4,1508,'ccl_gap');
INSERT INTO `rf_gap` VALUES (757,'10RG305',938.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.522138094321031,-0.52213809331634,0.00872664625997165,175.573144968689,0.538602580220533,0.0,0.884902,0.034678,0.050385,10,3,5,1509,'ccl_gap');
INSERT INTO `rf_gap` VALUES (758,'10RG306',939.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.515590132141797,-0.51559013113712,0.00872664625997165,175.68846720403,0.538738632388586,0.0,0.884902,0.034678,0.050385,10,3,6,1510,'ccl_gap');
INSERT INTO `rf_gap` VALUES (759,'10RG307',940.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.509838750881821,-0.509838749877144,0.00872664625997165,175.804167011358,0.538875087302903,0.0,0.884902,0.034678,0.050385,10,3,7,1511,'ccl_gap');
INSERT INTO `rf_gap` VALUES (760,'10RG308',941.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.50488565415664,-0.50488565315 1963,0.00872664625997165,175.920189446327,0.539011878515911,0.0,0.884902,0.034678,0.050385,10,3,8,1512,'ccl_gap');
INSERT INTO `rf_gap` VALUES (761,'10RG309',942.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.500732159801652,-0.500732158796975,0.00872664625997165,176.036480840186,0.539148941340499,0.0,0.884902,0.034678,0.050385,10,3,9,1513,'ccl_gap');
INSERT INTO `rf_gap` VALUES (762,'10RG310',943.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.497379210369788,-0.497379209365111,0.00872664625997165,176.152988610431,0.539286212626509,0.0,0.884902,0.034678,0.050385,10,3,10,1514,'ccl_gap');
INSERT INTO `rf_gap` VALUES (763,'10RG311',944.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.494827382281963,-0.494827381277286,0.00872664625997165,176.26966106646,0.53942363053121 2,0.0,0.884902,0.034678,0.050385,10,3,11,1515,'ccl_gap');
INSERT INTO `rf_gap` VALUES (764,'10RG312',945.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.493076893602238,-0.493076892597561,0.00872664625997165,176.386447211388,0.539561134285176,0.0,0.884902,0.034678,0.050385,10,3,12,1516,'ccl_gap');
INSERT INTO `rf_gap` VALUES (765,'10RG313',946.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.492127610419269,-0.49212760941459 2,0.00872664625997165,176.503296541124,0.539698663954883,0.0,0.884902,0.034678,0.050385,10,3,13,1517,'ccl_gap');
INSERT INTO `rf_gap` VALUES (766,'10RG314',947.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.491979051822143,-0.491979050817466,0.00872664625997165,176.620158841801,0.539836160203428,0.0,0.884902,0.034678,0.050385,10,3,14,1518,'ccl_gap');
INSERT INTO `rf_gap` VALUES (767,'10RG315',948.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.492630393467715,-0.49263039246303 8,0.00872664625997165,176.73698398664,0.539973540050573,0.0,0.884902,0.034678,0.050385,10,3,15,1519,'ccl_gap');
INSERT INTO `rf_gap` VALUES (768,'10RG316',949.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.494080469742984,-0.494080468738307,0.00872664625997165,176.853721733296,0.540110816633426,0.0,0.884902,0.034678,0.050385,10,3,16,1520,'ccl_gap');
INSERT INTO `rf_gap` VALUES (769,'10RG317',950.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.496327774533819,-0.496327773529142,0.00872664625997165,176.970321522726,0.540247858968966,0.0,0.884902,0.034678,0.050385,10,3,17,1521,'ccl_gap');
INSERT INTO `rf_gap` VALUES (770,'10RG318',951.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.499370460618282,-0.499370459613605,0.00872664625997165,177.08673228064,0.540384631719641,0.0,0.884902,0.034678,0.050385,10,3,18,1522,'ccl_gap');
INSERT INTO `rf_gap` VALUES (771,'10RG319',952.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.503206337709679,-0.503206336705002,0.00872664625997165,177.202902222548,0.540521074963239,0.0,0.884902,0.034678,0.050385,10,3,19,1523,'ccl_gap');
INSERT INTO `rf_gap` VALUES (772,'10RG320',953.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.507832869181387,-0.50783286817671,0.00872664625997165,177.318778663474,0.540657127968228,0.0,0.884902,0.034678,0.050385,10,3,20,1524,'ccl_gap');
INSERT INTO `rf_gap` VALUES (773,'10RG321',954.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.513247167512057,-0.51324716650738,0.00872664625997165,177.434307833369,0.540792728975759,0.0,0.884902,0.034678,0.050385,10,3,21,1525,'ccl_gap');
INSERT INTO `rf_gap` VALUES (774,'10RG322',955.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.519445988496786,-0.519445987492109,0.00872664625997165,177.549434699296,0.540927814989533,0.0,0.884902,0.034678,0.050385,10,3,22,1526,'ccl_gap');
INSERT INTO `rf_gap` VALUES (775,'10RG323',956.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.526425724276288,-0.526425723271611,0.00872664625997165,177.664102795461,0.54106232157474,0.0,0.884902,0.034678,0.050385,10,3,23,1527,'ccl_gap');
INSERT INTO `rf_gap` VALUES (776,'10RG324',957.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.534182395242895,-0.534182394238218,0.00872664625997165,177.778254062177,0.541196182667271,0.0,0.884902,0.034678,0.050385,10,3,24,1528,'ccl_gap');
INSERT INTO `rf_gap` VALUES (777,'10RG325',958.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.542711640888777,-0.5427116398841,0.00872664625997165,177.89182869488,0.541329330394434,0.0,0.884902,0.034678,0.050385,10,3,25,1529,'ccl_gap');
INSERT INTO `rf_gap` VALUES (778,'10RG326',959.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.552008709668913,-0.552008708664236,0.00872664625997165,178.004765004307,0.541461694908407,0.0,0.884902,0.034678,0.050385,10,3,26,1530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (779,'10RG327',960.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.562068447957012,-0.562068446952335,0.00872664625997165,178.116999288975,0.541593204233661,0.0,0.884902,0.034678,0.050385,10,3,27,1531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (780,'10RG328',961.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.572885288180957,-0.57288528717628,0.00872664625997165,178.228465721116,0.54172378412961,0.0,0.884902,0.034678,0.050385,10,3,28,1532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (781,'10RG329',962.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.584453236229231,-0.584453235224554,0.00872664625997165,178.339096247212,0.541853357969733,0.0,0.884902,0.034678,0.050385,10,3,29,1533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (782,'10RG330',963.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.596765858227885,-0.596765857223208,0.00872664625997165,178.448820504288,0.541981846638411,0.0,0.884902,0.034678,0.050385,10,3,30,1534,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (783,'10RG331',964.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.609816266793411,-0.609816265788734,0.0087266462599716,178.557565753097,0.54210916844673,0.0,0.884902,0.034678,0.050385,10,3,31,1535,'ccl_gap');
INSERT INTO `rf_gap` VALUES (784,'10RG332',965.0,805.0,0.100511875,1.4907022906994,1.4907022906994,0.0,1.49070228982418,-0.623597106873506,-0.623597105868829,0.0087266462599716,178.665256829355,0.54223523906844,0.0,0.884902,0.034678,0.050385,10,3,32,1536,'ccl_gap');
INSERT INTO `rf_gap` VALUES (785,'10RG401',974.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.5864595999249,-0.586459599007326,3.15031929984976,178.776496608525,0.542362695670569,0.0,0.885277,0.034575,0.050375,10,4,1,1544,'ccl_gap');
INSERT INTO `rf_gap` VALUES (786,'10RG402',975.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.577714354164762,-0.577714353247188,3.15031929984976,178.888381775058,0.542492524664721,0.0,0.885277,0.034575,0.050375,10,4,2,1545,'ccl_gap');
INSERT INTO `rf_gap` VALUES (787,'10RG403',976.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.569725420791004,-0.56972541987343,3.15031929984976,179.000849370602,0.542622997601525,0.0,0.885277,0.034575,0.050375,10,4,3,1546,'ccl_gap');
INSERT INTO `rf_gap` VALUES (788,'10RG404',977.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.562495915739537,-0.562495914821962,3.15031929984976,179.113838203618,0.542754041246982,0.0,0.885277,0.034575,0.050375,10,4,4,1547,'ccl_gap');
INSERT INTO `rf_gap` VALUES (789,'10RG405',978.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.556028530976364,-0.556028530058789,3.15031929984976,179.227288714997,0.542885584494655,0.0,0.885277,0.034575,0.050375,10,4,5,1548,'ccl_gap');
INSERT INTO `rf_gap` VALUES (790,'10RG406',979.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.550325547264752,-0.550325546347178,3.15031929984976,179.341142834015,0.5430175582001,0.0,0.885277,0.034575,0.050375,10,4,6,1549,'ccl_gap');
INSERT INTO `rf_gap` VALUES (791,'10RG407',980.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.545388845915813,-0.545388844998239,3.15031929984976,179.455343825811,0.543149895005055,0.0,0.885277,0.034575,0.050375,10,4,7,1550,'ccl_gap');
INSERT INTO `rf_gap` VALUES (792,'10RG408',981.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.54121991946904,-0.54121991855146,3.15031929984976,179.569836131544,0.543282529152804,0.0,0.885277,0.034575,0.050375,10,4,8,1551,'ccl_gap');
INSERT INTO `rf_gap` VALUES (793,'10RG409',982.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.537819881258007,-0.537819880340432,3.15031929984976,179.684565202373,0.543415396296088,0.0,0.885277,0.034575,0.050375,10,4,9,1552,'ccl_gap');
INSERT INTO `rf_gap` VALUES (794,'10RG410',983.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.535189473824258,-0.535189472906684,3.15031929984976,179.799477328345,0.54354843329893,0.0,0.885277,0.034575,0.050375,10,4,10,1553,'ccl_gap');
INSERT INTO `rf_gap` VALUES (795,'10RG411',984.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.533329076150839,-0.533329075233265,3.15031929984976,179.914519463303,0.543681578033663,0.0,0.885277,0.034575,0.050375,10,4,11,1554,'ccl_gap');
INSERT INTO `rf_gap` VALUES (796,'10RG412',985.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.53223870969428,-0.532238708776706,3.15031929984976,180.029639046861,0.543814769174456,0.0,0.885277,0.034575,0.050375,10,4,12,1555,'ccl_gap');
INSERT INTO `rf_gap` VALUES (797,'10RG413',986.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.53191804320122,-0.53191804228364,3.15031929984976,180.144783824492,0.543947945988573,0.0,0.885277,0.034575,0.050375,10,4,13,1556,'ccl_gap');
INSERT INTO `rf_gap` VALUES (798,'10RG414',987.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.532366396303399,-0.532366395385825,3.15031929984976,180.259901666756,0.544081048126575,0.0,0.885277,0.034575,0.050375,10,4,14,1557,'ccl_gap');
INSERT INTO `rf_gap` VALUES (799,'10RG415',988.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.533582741891355,-0.533582740973781,3.15031929984976,180.374940388698,0.54421401541266,0.0,0.885277,0.034575,0.050375,10,4,15,1558,'ccl_gap');
INSERT INTO `rf_gap` VALUES (800,'10RG416',989.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.535565707274328,-0.535565706356753,3.15031929984976,180.489847570392,0.544346787636316,0.0,0.885277,0.034575,0.050375,10,4,16,1559,'ccl_gap');
INSERT INTO `rf_gap` VALUES (801,'10RG417',990.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.538313574140151,-0.538313573222577,3.15031929984976,180.604570379658,0.544479304346419,0.0,0.885277,0.034575,0.050375,10,4,17,1560,'ccl_gap');
INSERT INTO `rf_gap` VALUES (802,'10RG418',991.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.541824277335845,-0.541824276418271,3.15031929984976,180.719055397927,0.544611150464893,0.0,0.885277,0.034575,0.050375,10,4,18,1561,'ccl_gap');
INSERT INTO `rf_gap` VALUES (803,'10RG419',992.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.546095402495713,-0.546095401578139,3.15031929984976,180.833248450264,0.544743327009309,0.0,0.885277,0.034575,0.050375,10,4,19,1562,'ccl_gap');
INSERT INTO `rf_gap` VALUES (804,'10RG420',993.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.551124182550194,-0.55112418163262,3.15031929984976,180.947094440535,0.544874709060771,0.0,0.885277,0.034575,0.050375,10,4,20,1563,'ccl_gap');
INSERT INTO `rf_gap` VALUES (805,'10RG421',994.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.556907493154956,-0.556907492237382,3.15031929984976,181.060537192724,0.545005587419496,0.0,0.885277,0.034575,0.050375,10,4,21,1564,'ccl_gap');
INSERT INTO `rf_gap` VALUES (806,'10RG422',995.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.563441847085852,-0.563441846168278,3.15031929984976,181.173519299412,0.54513589750791,0.0,0.885277,0.034575,0.050375,10,4,22,1565,'ccl_gap');
INSERT INTO `rf_gap` VALUES (807,'10RG423',996.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.570723387651757,-0.570723386734183,3.15031929984976,181.285981978428,0.545265573387166,0.0,0.885277,0.034575,0.050375,10,4,23,1566,'ccl_gap');
INSERT INTO `rf_gap` VALUES (808,'10RG424',997.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.578747881182917,-0.578747880265343,3.15031929984976,181.397864938701,0.545394547599912,0.0,0.885277,0.034575,0.050375,10,4,24,1567,'ccl_gap');
INSERT INTO `rf_gap` VALUES (809,'10RG425',998.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.587510708659114,-0.58751070774154,3.15031929984976,181.50910625633,0.545522751024503,0.0,0.885277,0.034575,0.050375,10,4,25,1568,'ccl_gap');
INSERT INTO `rf_gap` VALUES (810,'10RG426',999.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.597006856547591,-0.597006855630017,3.15031929984976,181.619642261924,0.545650112741732,0.0,0.885277,0.034575,0.050375,10,4,26,1569,'ccl_gap');
INSERT INTO `rf_gap` VALUES (811,'10RG427',1000.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.607230906926678,-0.607230906009104,3.15031929984976,181.729407440225,0.545776559915233,0.0,0.885277,0.034575,0.050375,10,4,27,1570,'ccl_gap');
INSERT INTO `rf_gap` VALUES (812,'10RG428',1001.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.618177026977375,-0.618177026059801,3.15031929984976,181.838834343064,0.545902017686627,0.0,0.885277,0.034575,0.050375,10,4,28,1571,'ccl_gap');
INSERT INTO `rf_gap` VALUES (813,'10RG429',1002.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.629838957930521,-0.629838957012947,3.15031929984976,181.946353516662,0.546026409086536,0.0,0.885277,0.034575,0.050375,10,4,29,1572,'ccl_gap');
INSERT INTO `rf_gap` VALUES (814,'10RG430',1003.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.64221000356336,-0.64221000264578,3.15031929984976,182.053393444295,0.546149654962513,0.0,0.885277,0.034575,0.050375,10,4,30,1573,'ccl_gap');
INSERT INTO `rf_gap` VALUES (815,'10RG431',1004.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.655283018344197,-0.655283017426623,3.15031929984976,182.159380505294,0.546271673924961,0.0,0.885277,0.034575,0.050375,10,4,31,1574,'ccl_gap');
INSERT INTO `rf_gap` VALUES (816,'10RG432',1005.0,805.0,0.1012834375,1.49007083482852,1.49007083482852,0.0,1.49007083395367,-0.669050395330484,-0.66905039441291,3.15031929984976,182.264238951358,0.546392382312042,0.0,0.885277,0.034575,0.050375,10,4,32,1575,'ccl_gap');
INSERT INTO `rf_gap` VALUES (817,'11RG101',1015.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.638650693297319,-0.638650692429184,0.10471975511966,182.371716493161,0.546513882664855,0.0,0.885641,0.034474,0.050366,11,1,1,1591,'ccl_gap');
INSERT INTO `rf_gap` VALUES (818,'11RG102',1016.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.628528410392872,-0.628528409524737,0.10471975511966,182.479999209137,0.546637279425291,0.0,0.885641,0.034474,0.050366,11,1,2,1592,'ccl_gap');
INSERT INTO `rf_gap` VALUES (819,'11RG103',1017.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.619120516107235,-0.6191205152391,0.10471975511966,182.589020598584,0.546761495020196,0.0,0.885641,0.034474,0.050366,11,1,3,1593,'ccl_gap');
INSERT INTO `rf_gap` VALUES (820,'11RG104',1018.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.610431145534862,-0.610431144666727,0.10471975511966,182.698715961574,0.546886453198012,0.0,0.885641,0.034474,0.050366,11,1,4,1594,'ccl_gap');
INSERT INTO `rf_gap` VALUES (821,'11RG105',1019.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.602463994105439,-0.602463993237304,0.10471975511966,182.809022308138,0.547012079861147,0.0,0.885641,0.034474,0.050366,11,1,5,1595,'ccl_gap');
INSERT INTO `rf_gap` VALUES (822,'11RG106',1020.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.595222330540961,-0.595222329672826,0.10471975511966,182.91987825596,0.547138302952597,0.0,0.885641,0.034474,0.050366,11,1,6,1596,'ccl_gap');
INSERT INTO `rf_gap` VALUES (823,'11RG107',1021.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.588709009101668,-0.588709008233533,0.10471975511966,183.03122391767,0.54726505233012,0.0,0.885641,0.034474,0.050366,11,1,7,1597,'ccl_gap');
INSERT INTO `rf_gap` VALUES (824,'11RG108',1022.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.58292648105363,-0.582926480185495,0.10471975511966,183.1430007788,0.547392259629272,0.0,0.885641,0.034474,0.050366,11,1,8,1598,'ccl_gap');
INSERT INTO `rf_gap` VALUES (825,'11RG109',1023.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.577876805298435,-0.5778768044303,0.10471975511966,183.255151567486,0.547519858116602,0.0,0.885641,0.034474,0.050366,11,1,9,1599,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (826,'11RG110',1024.0,805.0,0.1021025,1.48096082147288,1.48096082147288,0.0,1.48096082060338,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319,-0.57356165811319);
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INSERT INTO `rf_gap` VALUES (869,'11RG221',1075.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.570392279033768,-0.570392278156373,3.24631240870945,188.183927983898,0.55306970681842,0.0,0.886022,0.03437,0.050363,11,2,21,1650,'ccl_gap');
INSERT INTO `rf_gap` VALUES (870,'11RG222',1076.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.57490491378305,-0.574904912905655,3.24631240870945,188.297157936876,0.553195900355241,0.0,0.886022,0.03437,0.050363,11,2,22,1651,'ccl_gap');
INSERT INTO `rf_gap` VALUES (871,'11RG223',1077.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.580131598365326,-0.580131597487931,3.24631240870945,188.410006036454,0.553321633080018,0.0,0.886022,0.03437,0.050363,11,2,23,1652,'ccl_gap');
INSERT INTO `rf_gap` VALUES (872,'11RG224',1078.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.586069186272829,-0.586069185395434,3.24631240870945,188.522416142312,0.553446843852302,0.0,0.886022,0.03437,0.050363,11,2,24,1653,'ccl_gap');
INSERT INTO `rf_gap` VALUES (873,'11RG225',1079.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.592714186501808,-0.592714185624413,3.24631240870945,188.634330960823,0.553571470447558,0.0,0.886022,0.03437,0.050363,11,2,25,1654,'ccl_gap');
INSERT INTO `rf_gap` VALUES (874,'11RG226',1080.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.600062757705806,-0.600062756828411,3.24631240870945,188.745691925553,0.553695449421782,0.0,0.886022,0.03437,0.050363,11,2,26,1655,'ccl_gap');
INSERT INTO `rf_gap` VALUES (875,'11RG227',1081.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.608110701615501,-0.608110700738106,3.24631240870945,188.856439086426,0.553818715985454,0.0,0.886022,0.03437,0.050363,11,2,27,1656,'ccl_gap');
INSERT INTO `rf_gap` VALUES (876,'11RG228',1082.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.616853455781302,-0.616853454903907,3.24631240870945,188.966511008449,0.553941203887771,0.0,0.886022,0.03437,0.050363,11,2,28,1657,'ccl_gap');
INSERT INTO `rf_gap` VALUES (877,'11RG229',1083.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.626286085700655,-0.62628608482326,3.24631240870945,189.075844680886,0.554062845312076,0.0,0.886022,0.03437,0.050363,11,2,29,1658,'ccl_gap');
INSERT INTO `rf_gap` VALUES (878,'11RG230',1084.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.63640327639586,-0.636403275518465,3.24631240870945,189.184375437756,0.554183570783419,0.0,0.886022,0.03437,0.050363,11,2,30,1659,'ccl_gap');
INSERT INTO `rf_gap` VALUES (879,'11RG231',1085.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.647199323514157,-0.647199322636762,3.24631240870945,189.292036890543,0.554303309089132,0.0,0.886022,0.03437,0.050363,11,2,31,1660,'ccl_gap');
INSERT INTO `rf_gap` VALUES (880,'11RG232',1086.0,805.0,0.1028478125,1.48032399070234,1.48032399070234,0.0,1.48032398983321,-0.658668124025303,-0.658668123147908,3.24631240870945,189.398760873966,0.554421987213339,0.0,0.886022,0.03437,0.050363,11,2,32,1661,'ccl_gap');
INSERT INTO `rf_gap` VALUES (881,'11RG301',1095.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.636037686884758,-0.636037685948746,0.10471975511966,189.508086540286,0.554541526714074,0.0,0.886361,0.034276,0.050356,11,3,1,1669,'ccl_gap');
INSERT INTO `rf_gap` VALUES (882,'11RG302',1096.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.624007397299234,-0.624007396363222,0.10471975511966,189.618378346455,0.554662978714707,0.0,0.886361,0.034276,0.050356,11,3,2,1670,'ccl_gap');
INSERT INTO `rf_gap` VALUES (883,'11RG303',1097.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.612671044950833,-0.612671044014821,0.10471975511966,189.729566197944,0.554785397729312,0.0,0.886361,0.034276,0.050356,11,3,3,1671,'ccl_gap');
INSERT INTO `rf_gap` VALUES (884,'11RG304',1098.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.602033562086984,-0.602033561150972,0.10471975511966,189.84158211172,0.554908705962885,0.0,0.886361,0.034276,0.050356,11,3,4,1672,'ccl_gap');
INSERT INTO `rf_gap` VALUES (885,'11RG305',1099.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.592099438254223,-0.592099437318211,0.10471975511966,189.954360152414,0.555032828060615,0.0,0.886361,0.034276,0.050356,11,3,5,1673,'ccl_gap');
INSERT INTO `rf_gap` VALUES (886,'11RG306',1100.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.5828727348004,-0.582872733864388,0.10471975511966,190.067836354655,0.55515769104914,0.0,0.886361,0.034276,0.050356,11,3,6,1674,'ccl_gap');
INSERT INTO `rf_gap` VALUES (887,'11RG307',1101.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.574357098849187,-0.574357097913175,0.10471975511966,190.181948632632,0.555283224194831,0.0,0.886361,0.034276,0.050356,11,3,7,1675,'ccl_gap');
INSERT INTO `rf_gap` VALUES (888,'11RG308',1102.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.566555776666309,-0.566555775730297,0.10471975511966,190.296636677961,0.555409358939505,0.0,0.886361,0.034276,0.050356,11,3,8,1676,'ccl_gap');
INSERT INTO `rf_gap` VALUES (889,'11RG309',1103.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.559471626344628,-0.559471625408616,0.10471975511966,190.411841846908,0.555536028755677,0.0,0.886361,0.034276,0.050356,11,3,9,1677,'ccl_gap');
INSERT INTO `rf_gap` VALUES (890,'11RG310',1104.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.553107129742575,-0.553107128806563,0.10471975511966,190.527507038023,0.555663169018067,0.0,0.886361,0.034276,0.050356,11,3,10,1678,'ccl_gap');
INSERT INTO `rf_gap` VALUES (891,'11RG311',1105.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.547464403617649,-0.547464402681637,0.10471975511966,190.643576561217,0.555790716860755,0.0,0.886361,0.034276,0.050356,11,3,11,1679,'ccl_gap');
INSERT INTO `rf_gap` VALUES (892,'11RG312',1106.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.542545209904222,-0.54254520896821,0.10471975511966,190.759995999284,0.555918611025694,0.0,0.886361,0.034276,0.050356,11,3,12,1680,'ccl_gap');
INSERT INTO `rf_gap` VALUES (893,'11RG313',1107.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.538350965091222,-0.53835096415521,0.10471975511966,190.87671206287,0.556046791703761,0.0,0.886361,0.034276,0.050356,11,3,13,1681,'ccl_gap');
INSERT INTO `rf_gap` VALUES (894,'11RG314',1108.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.534882748662685,-0.534882747726673,0.10471975511966,190.993672439857,0.556175200369451,0.0,0.886361,0.034276,0.050356,11,3,14,1682,'ccl_gap');
INSERT INTO `rf_gap` VALUES (895,'11RG315',1109.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.532141310569923,-0.532141309633911,0.10471975511966,191.110825640105,0.556303779610321,0.0,0.886361,0.034276,0.050356,11,3,15,1683,'ccl_gap');
INSERT INTO `rf_gap` VALUES (896,'11RG316',1110.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.530127077711103,-0.530127076775091,0.10471975511966,191.228120836495,0.556432472952246,0.0,0.886361,0.034276,0.050356,11,3,16,1684,'ccl_gap');
INSERT INTO `rf_gap` VALUES (897,'11RG317',1111.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.528840159399546,-0.528840158463534,0.10471975511966,191.345507703166,0.556561224681526,0.0,0.886361,0.034276,0.050356,11,3,17,1685,'ccl_gap');
INSERT INTO `rf_gap` VALUES (898,'11RG318',1112.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.528280351808252,-0.52828035087224,0.10471975511966,191.46293625186,0.556699979664847,0.0,0.886361,0.034276,0.050356,11,3,18,1686,'ccl_gap');
INSERT INTO `rf_gap` VALUES (899,'11RG319',1113.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.528447141384046,-0.528447140448034,0.10471975511966,191.580356667238,0.556818683168104,0.0,0.886361,0.034276,0.050356,11,3,19,1687,'ccl_gap');
INSERT INTO `rf_gap` VALUES (900,'11RG320',1114.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.529339707229685,-0.529339706293673,0.10471975511966,191.697719142045,0.556947280675027,0.0,0.886361,0.034276,0.050356,11,3,20,1688,'ccl_gap');
INSERT INTO `rf_gap` VALUES (901,'11RG321',1115.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.530956922458539,-0.530956921522527,0.10471975511966,191.814973712974,0.557075717706582,0.0,0.886361,0.034276,0.050356,11,3,21,1689,'ccl_gap');
INSERT INTO `rf_gap` VALUES (902,'11RG322',1116.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.533297354530962,-0.53329735359495,0.10471975511966,191.932070098101,0.557203939642059,0.0,0.886361,0.034276,0.050356,11,3,22,1690,'ccl_gap');
INSERT INTO `rf_gap` VALUES (903,'11RG323',1117.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.536359264587272,-0.536359263652126,0.10471975511966,192.04895753671,0.557331891542794,0.0,0.886361,0.034276,0.050356,11,3,23,1691,'ccl_gap');
INSERT INTO `rf_gap` VALUES (904,'11RG324',1118.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.540140605796967,-0.540140604860955,0.10471975511966,192.165584632383,0.557459517979413,0.0,0.886361,0.034276,0.050356,11,3,24,1692,'ccl_gap');
INSERT INTO `rf_gap` VALUES (905,'11RG325',1119.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.544639020748786,-0.544639019812774,0.10471975511966,192.281899200195,0.557586762863527,0.0,0.886361,0.034276,0.050356,11,3,25,1693,'ccl_gap');
INSERT INTO `rf_gap` VALUES (906,'11RG326',1120.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.549851837911777,-0.549851836975765,0.10471975511966,192.397848118861,0.557713569284767,0.0,0.886361,0.034276,0.050356,11,3,26,1694,'ccl_gap');
INSERT INTO `rf_gap` VALUES (907,'11RG327',1121.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.555776067201545,-0.555776066265533,0.10471975511966,192.513377188704,0.557839879354072,0.0,0.886361,0.034276,0.050356,11,3,27,1695,'ccl_gap');
INSERT INTO `rf_gap` VALUES (908,'11RG328',1122.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.562408394691392,-0.56240839375538,0.10471975511966,192.628430996298,0.557965634054125,0.0,0.886361,0.034276,0.050356,11,3,28,1696,'ccl_gap');
INSERT INTO `rf_gap` VALUES (909,'11RG329',1123.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.569745176513049,-0.569745175577037,0.10471975511966,192.742952786667,0.558090773097845,0.0,0.886361,0.034276,0.050356,11,3,29,1697,'ccl_gap');
INSERT INTO `rf_gap` VALUES (910,'11RG330',1124.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.577782431995448,-0.577782431059436,0.10471975511966,192.856884343907,0.558215234795845,0.0,0.886361,0.034276,0.050356,11,3,30,1698,'ccl_gap');
INSERT INTO `rf_gap` VALUES (911,'11RG331',1125.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.586515836096591,-0.586515835160579,0.10471975511966,192.970165881124,0.558338955933746,0.0,0.886361,0.034276,0.050356,11,3,31,1699,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (912,'11RG332',1126.0,805.0,0.1036646875,1.47975782202744,1.47975782202744,0.0,1.47975782115865,-0.595940711186205,-0.595940710250193,0.10471975511966,193.082735940562,0.558461871660277,0.0,0.886361,0.034276,0.050356,11,3,32,1700,'ccl_gap');
INSERT INTO `rf_gap` VALUES (913,'11RG401',1135.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.566026108988638,-0.566026107960363,3.24631240870945,193.198222194227,0.558585922522743,0.0,0.886694,0.034185,0.050349,11,4,1,1708,'ccl_gap');
INSERT INTO `rf_gap` VALUES (914,'11RG402',1136.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.555731923919409,-0.555731922891134,3.24631240870945,193.314460830582,0.558711902327105,0.0,0.886694,0.034185,0.050349,11,4,2,1709,'ccl_gap');
INSERT INTO `rf_gap` VALUES (915,'11RG403',1137.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.546151012025682,-0.546151010997407,3.24631240870945,193.431388927635,0.558838598333781,0.0,0.886694,0.034185,0.050349,11,4,3,1710,'ccl_gap');
INSERT INTO `rf_gap` VALUES (916,'11RG404',1138.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.537286855978904,-0.537286854950629,3.24631240870945,193.548945639539,0.558965942148688,0.0,0.886694,0.034185,0.050349,11,4,4,1711,'ccl_gap');
INSERT INTO `rf_gap` VALUES (917,'11RG405',1139.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.529142553965193,-0.529142552936918,3.24631240870945,193.667072085081,0.559093867710343,0.0,0.886694,0.034185,0.050349,11,4,5,1712,'ccl_gap');
INSERT INTO `rf_gap` VALUES (918,'11RG406',1140.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.521720833230669,-0.521720832202394,3.24631240870945,193.785711225384,0.55922231115873,0.0,0.886694,0.034185,0.050349,11,4,6,1713,'ccl_gap');
INSERT INTO `rf_gap` VALUES (919,'11RG407',1141.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.515024062830394,-0.515024061802119,3.24631240870945,193.904807731882,0.559351210693214,0.0,0.886694,0.034185,0.050349,11,4,7,1714,'ccl_gap');
INSERT INTO `rf_gap` VALUES (920,'11RG408',1142.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.509054265523782,-0.509054264495507,3.24631240870945,194.024307845632,0.559480506420706,0.0,0.886694,0.034185,0.050349,11,4,8,1715,'ccl_gap');
INSERT INTO `rf_gap` VALUES (921,'11RG409',1143.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.503813128766484,-0.503813127738209,3.24631240870945,194.144159228971,0.55961014019527,0.0,0.886694,0.034185,0.050349,11,4,9,1716,'ccl_gap');
INSERT INTO `rf_gap` VALUES (922,'11RG410',1144.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.499302014755453,-0.499302013727178,3.24631240870945,194.264310810511,0.559740055450313,0.0,0.886694,0.034185,0.050349,11,4,10,1717,'ccl_gap');
INSERT INTO `rf_gap` VALUES (923,'11RG411',1145.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.495521969490769,-0.495521968462494,3.24631240870945,194.384712624437,0.559870197024462,0.0,0.886694,0.034185,0.050349,11,4,11,1718,'ccl_gap');
INSERT INTO `rf_gap` VALUES (924,'11RG412',1146.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.492473730823714,-0.492473729795439,3.24631240870945,194.505315645047,0.560000510982201,0.0,0.886694,0.034185,0.050349,11,4,12,1719,'ccl_gap');
INSERT INTO `rf_gap` VALUES (925,'11RG413',1147.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.490157735467224,-0.490157734438949,3.24631240870945,194.626071617451,0.560130944430304,0.0,0.886694,0.034185,0.050349,11,4,13,1720,'ccl_gap');
INSERT INTO `rf_gap` VALUES (926,'11RG414',1148.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.488574124950271,-0.488574123921996,3.24631240870945,194.746932885301,0.560261445331057,0.0,0.886694,0.034185,0.050349,11,4,14,1721,'ccl_gap');
INSERT INTO `rf_gap` VALUES (927,'11RG415',1149.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.487722750503638,-0.487722749475363,3.24631240870945,194.867852216444,0.560391962313259,0.0,0.886694,0.034185,0.050349,11,4,15,1722,'ccl_gap');
INSERT INTO `rf_gap` VALUES (928,'11RG416',1150.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.487603176869878,-0.487603175841603,3.24631240870945,194.988782627326,0.560522444481919,0.0,0.886694,0.034185,0.050349,11,4,16,1723,'ccl_gap');
INSERT INTO `rf_gap` VALUES (929,'11RG417',1151.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.488214685035703,-0.488214684007428,3.24631240870945,195.109677206998,0.560652841227595,0.0,0.886694,0.034185,0.050349,11,4,17,1724,'ccl_gap');
INSERT INTO `rf_gap` VALUES (930,'11RG418',1152.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.489556273889984,-0.489556272861709,3.24631240870945,195.230488941542,0.560783102036262,0.0,0.886694,0.034185,0.050349,11,4,18,1725,'ccl_gap');
INSERT INTO `rf_gap` VALUES (931,'11RG419',1153.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.4916266608156,-0.491626659787325,3.24631240870945,195.351170539735,0.560913170530059,0.0,0.886694,0.034185,0.050349,11,4,19,1726,'ccl_gap');
INSERT INTO `rf_gap` VALUES (932,'11RG420',1154.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.494424281228286,-0.494424280200011,3.24631240870945,195.471674260774,0.561043013133516,0.0,0.886694,0.034185,0.050349,11,4,20,1727,'ccl_gap');
INSERT INTO `rf_gap` VALUES (933,'11RG421',1155.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.497947287080353,-0.497947286052078,3.24631240870945,195.591951744856,0.561172561184962,0.0,0.886694,0.034185,0.050349,11,4,21,1728,'ccl_gap');
INSERT INTO `rf_gap` VALUES (934,'11RG422',1156.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.502193544352006,-0.502193543323731,3.24631240870945,195.711953847455,0.561301768462565,0.0,0.886694,0.034185,0.050349,11,4,22,1729,'ccl_gap');
INSERT INTO `rf_gap` VALUES (935,'11RG423',1157.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.50716062955752,-0.507160628529245,3.24631240870945,195.831630478098,0.561430582157273,0.0,0.886694,0.034185,0.050349,11,4,23,1730,'ccl_gap');
INSERT INTO `rf_gap` VALUES (936,'11RG424',1158.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.512845825297996,-0.512845824269721,3.24631240870945,195.950930444479,0.56155894847467,0.0,0.886694,0.034185,0.050349,11,4,24,1731,'ccl_gap');
INSERT INTO `rf_gap` VALUES (937,'11RG425',1159.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.519246114898027,-0.519246113869752,3.24631240870945,196.069801302752,0.561686812472888,0.0,0.886694,0.034185,0.050349,11,4,25,1732,'ccl_gap');
INSERT INTO `rf_gap` VALUES (938,'11RG426',1160.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.526358176166165,-0.52635817513789,3.24631240870945,196.188189214862,0.561814117907985,0.0,0.886694,0.034185,0.050349,11,4,26,1733,'ccl_gap');
INSERT INTO `rf_gap` VALUES (939,'11RG427',1161.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.534178374326674,-0.534178373298399,3.24631240870945,196.306038813759,0.561940807087653,0.0,0.886694,0.034185,0.050349,11,4,27,1734,'ccl_gap');
INSERT INTO `rf_gap` VALUES (940,'11RG428',1162.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.542702754171638,-0.542702753143363,3.24631240870945,196.423293077402,0.562066820734158,0.0,0.886694,0.034185,0.050349,11,4,28,1735,'ccl_gap');
INSERT INTO `rf_gap` VALUES (941,'11RG429',1163.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.551927031489543,-0.55192703046126 8,3.24631240870945,196.539893212418,0.562192097857378,0.0,0.886694,0.034185,0.050349,11,4,29,1736,'ccl_gap');
INSERT INTO `rf_gap` VALUES (942,'11RG430',1164.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.561846583829758,-0.561846582801483,3.24631240870945,196.655778548331,0.562316575638871,0.0,0.886694,0.034185,0.050349,11,4,30,1737,'ccl_gap');
INSERT INTO `rf_gap` VALUES (943,'11RG431',1165.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.572456440667653,-0.572456439639378,3.24631240870945,196.770886443257,0.562440189327844,0.0,0.886694,0.034185,0.050349,11,4,31,1738,'ccl_gap');
INSERT INTO `rf_gap` VALUES (944,'11RG432',1166.0,805.0,0.10436375,1.4792020955257,1.4792020955257,0.0,1.47920209465723,-0.583751273039378,-0.583751272011103,3.24631240870945,196.885152201991,0.562562872149947,0.0,0.886694,0.034185,0.050349,11,4,32,1739,'ccl_gap');
INSERT INTO `rf_gap` VALUES (945,'12RG101',1176.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.633184660143225,-0.633184659235777,0.130899693899575,196.995650617543,0.562683027573909,0.0,0.887011,0.034098,0.050344,12,1,1,1755,'ccl_gap');
INSERT INTO `rf_gap` VALUES (946,'12RG102',1177.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.622560331479889,-0.622560330572441,0.130899693899575,197.107007294337,0.562801567743884,0.0,0.887011,0.034098,0.050344,12,1,2,1756,'ccl_gap');
INSERT INTO `rf_gap` VALUES (947,'12RG103',1178.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.612602790841197,-0.612602789933749,0.130899693899575,197.219157195853,0.56292092999626,0.0,0.887011,0.034098,0.050344,12,1,3,1757,'ccl_gap');
INSERT INTO `rf_gap` VALUES (948,'12RG104',1179.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.603316129067391,-0.603316128159943,0.130899693899575,197.332037108271,0.563041044602753,0.0,0.887011,0.034098,0.050344,12,1,4,1758,'ccl_gap');
INSERT INTO `rf_gap` VALUES (949,'12RG105',1180.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.594704046363805,-0.594704045456357,0.130899693899575,197.445585567233,0.563161843873298,0.0,0.887011,0.034098,0.050344,12,1,5,1759,'ccl_gap');
INSERT INTO `rf_gap` VALUES (950,'12RG106',1181.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.5867698641859,-0.586769863278452,0.130899693899575,197.559742773578,0.563283262069167,0.0,0.887011,0.034098,0.050344,12,1,6,1760,'ccl_gap');
INSERT INTO `rf_gap` VALUES (951,'12RG107',1182.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.579516536587885,-0.579516535680437,0.130899693899575,197.674450498972,0.563405235304811,0.0,0.887011,0.034098,0.050344,12,1,7,1761,'ccl_gap');
INSERT INTO `rf_gap` VALUES (952,'12RG108',1183.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.572946660974896,-0.572946660067448,0.130899693899575,197.789651982363,0.56352770143948 6,0.0,0.887011,0.034098,0.050344,12,1,8,1762,'ccl_gap');
INSERT INTO `rf_gap` VALUES (953,'12RG109',1184.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.567062488205106,-0.567062487297658,0.130899693899575,197.90529181815,0.563650599995687,0.0,0.887011,0.034098,0.050344,12,1,9,1763,'ccl_gap');
INSERT INTO `rf_gap` VALUES (954,'12RG110',1185.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.56186593199391,-0.561865931086462,0.130899693899575,198.021315836991,0.563773871853412,0.0,0.887011,0.034098,0.050344,12,1,10,1764,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (955,'12RG111',1186.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.557358577578366,-0.557358576670918,0.130899693899575,198.137670980107,0.563897459477247,0.0,0.887011,0.034098,0.050344,12,1,11,1765,'ccl_gap');
INSERT INTO `rf_gap` VALUES (956,'12RG112',1187.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.553541689605783,-0.553541688698335,0.130899693899575,198.254305167969,0.564021306417251,0.0,0.887011,0.034098,0.050344,12,1,12,1766,'ccl_gap');
INSERT INTO `rf_gap` VALUES (957,'12RG113',1188.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.550416219215844,-0.550416218308396,0.130899693899575,198.371167164213,0.564145357344587,0.0,0.887011,0.034098,0.050344,12,1,13,1767,'ccl_gap');
INSERT INTO `rf_gap` VALUES (958,'12RG114',1189.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.547982810291291,-0.547982809383843,0.130899693899575,198.488206435613,0.56426955786684,0.0,0.887011,0.034098,0.050344,12,1,14,1768,'ccl_gap');
INSERT INTO `rf_gap` VALUES (959,'12RG115',1190.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.546241804857185,-0.546241803949737,0.130899693899575,198.605373008948,0.564393854375907,0.0,0.887011,0.034098,0.050344,12,1,15,1769,'ccl_gap');
INSERT INTO `rf_gap` VALUES (960,'12RG116',1191.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.545193247614012,-0.545193246706564,0.130899693899575,198.722617325551,0.564518193893373,0.0,0.887011,0.034098,0.050344,12,1,16,1770,'ccl_gap');
INSERT INTO `rf_gap` VALUES (961,'12RG117',1192.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.544836889595085,-0.544836888687637,0.130899693899575,198.839890094349,0.56464252391421,0.0,0.887011,0.034098,0.050344,12,1,17,1771,'ccl_gap');
INSERT INTO `rf_gap` VALUES (962,'12RG118',1193.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.545172190942981,-0.545172190035533,0.130899693899575,198.957142144171,0.564766792249669,0.0,0.887011,0.034098,0.050344,12,1,18,1772,'ccl_gap');
INSERT INTO `rf_gap` VALUES (963,'12RG119',1194.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.546198322805107,-0.546198321897659,0.130899693899575,199.074324276091,0.564890946870181,0.0,0.887011,0.034098,0.050344,12,1,19,1773,'ccl_gap');
INSERT INTO `rf_gap` VALUES (964,'12RG120',1195.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.547914168352466,-0.547914167445018,0.130899693899575,199.191387116587,0.565014935749094,0.0,0.887011,0.034098,0.050344,12,1,20,1774,'ccl_gap');
INSERT INTO `rf_gap` VALUES (965,'12RG121',1196.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.550318322930803,-0.550318322023355,0.130899693899575,199.308280972267,0.56513870670804,0.0,0.887011,0.034098,0.050344,12,1,21,1775,'ccl_gap');
INSERT INTO `rf_gap` VALUES (966,'12RG122',1197.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.553409093356979,-0.553409092449531,0.130899693899575,199.42495568692,0.565262207264742,0.0,0.887011,0.034098,0.050344,12,1,22,1776,'ccl_gap');
INSERT INTO `rf_gap` VALUES (967,'12RG123',1198.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.557184496378649,-0.557184495471201,0.130899693899575,199.54136050166,0.565385384484037,0.0,0.887011,0.034098,0.050344,12,1,23,1777,'ccl_gap');
INSERT INTO `rf_gap` VALUES (968,'12RG124',1199.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.561642256318823,-0.561642255411375,0.130899693899575,199.657443918909,0.565508184832908,0.0,0.887011,0.034098,0.050344,12,1,24,1778,'ccl_gap');
INSERT INTO `rf_gap` VALUES (969,'12RG125',1200.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.566779801931328,-0.56677980102388,0.130899693899575,199.773153570987,0.565630554040293,0.0,0.887011,0.034098,0.050344,12,1,25,1779,'ccl_gap');
INSERT INTO `rf_gap` VALUES (970,'12RG126',1201.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.572594262497748,-0.5725942615903,0.130899693899575,199.888436094073,0.565752436962461,0.0,0.887011,0.034098,0.050344,12,1,26,1780,'ccl_gap');
INSERT INTO `rf_gap` VALUES (971,'12RG127',1202.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.579082463199963,-0.579082462292515,0.130899693899575,200.003237008297,0.565873777454721,0.0,0.887011,0.034098,0.050344,12,1,27,1781,'ccl_gap');
INSERT INTO `rf_gap` VALUES (972,'12RG128',1203.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.586240919806943,-0.586240918899495,0.130899693899575,200.117500604738,0.565994518250237,0.0,0.887011,0.034098,0.050344,12,1,28,1782,'ccl_gap');
INSERT INTO `rf_gap` VALUES (973,'12RG129',1204.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.594065832718438,-0.5940658318109,0.130899693899575,200.231169840109,0.566114600846736,0.0,0.887011,0.034098,0.050344,12,1,29,1783,'ccl_gap');
INSERT INTO `rf_gap` VALUES (974,'12RG130',1205.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.602553080412182,-0.602553079504734,0.130899693899575,200.344186239889,0.566233965401865,0.0,0.887011,0.034098,0.050344,12,1,30,1784,'ccl_gap');
INSERT INTO `rf_gap` VALUES (975,'12RG131',1206.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.611698212345143,-0.611698211437695,0.130899693899575,200.456489810691,0.566352550637974,0.0,0.887011,0.034098,0.050344,12,1,31,1785,'ccl_gap');
INSERT INTO `rf_gap` VALUES (976,'12RG132',1207.0,805.0,0.105139375,1.47039659366767,1.47039659366767,0.0,1.47039659280437,-0.621496441363934,-0.621496440456486,0.130899693899575,200.568018962643,0.566470293757083,0.0,0.887011,0.034098,0.050344,12,1,32,1786,'ccl_gap');
INSERT INTO `rf_gap` VALUES (977,'12RG201',1216.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.659755025443104,-0.659755024683862,3.27249234748937,200.676949915592,0.566586204966109,0.0,0.887323,0.034012,0.05034,12,2,1,1794,'ccl_gap');
INSERT INTO `rf_gap` VALUES (978,'12RG202',1217.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.653228723302484,-0.653228722543242,3.27249234748937,200.786432671049,0.566700983718895,0.0,0.887323,0.034012,0.05034,12,2,2,1795,'ccl_gap');
INSERT INTO `rf_gap` VALUES (979,'12RG203',1218.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.64734172827445,-0.647341727515208,3.27249234748937,200.896409472286,0.566816255459114,0.0,0.887323,0.034012,0.05034,12,2,3,1796,'ccl_gap');
INSERT INTO `rf_gap` VALUES (980,'12RG204',1219.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.642096317129229,-0.642096316369987,3.27249234748937,201.00682359072,0.566931959333934,0.0,0.887323,0.034012,0.05034,12,2,4,1797,'ccl_gap');
INSERT INTO `rf_gap` VALUES (981,'12RG205',1220.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.637494428818583,-0.637494428059341,3.27249234748937,201.117619233546,0.567048035637449,0.0,0.887323,0.034012,0.05034,12,2,5,1798,'ccl_gap');
INSERT INTO `rf_gap` VALUES (982,'12RG206',1221.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.633537671170446,-0.633537670411204,3.27249234748937,201.228741445722,0.567164425709233,0.0,0.887323,0.034012,0.05034,12,2,6,1799,'ccl_gap');
INSERT INTO `rf_gap` VALUES (983,'12RG207',1222.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.630227326994865,-0.630227326235623,3.27249234748937,201.340136007062,0.567281071827494,0.0,0.887323,0.034012,0.05034,12,2,7,1800,'ccl_gap');
INSERT INTO `rf_gap` VALUES (984,'12RG208',1223.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.627564359574466,-0.627564358815224,3.27249234748937,201.451749325191,0.567397917097648,0.0,0.887323,0.034012,0.05034,12,2,8,1801,'ccl_gap');
INSERT INTO `rf_gap` VALUES (985,'12RG209',1224.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.625549417517059,-0.625549416757817,3.27249234748937,201.563528325107,0.567514905337131,0.0,0.887323,0.034012,0.05034,12,2,9,1802,'ccl_gap');
INSERT INTO `rf_gap` VALUES (986,'12RG210',1225.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.624182838952807,-0.624182838193565,3.27249234748937,201.675420336087,0.567631980957242,0.0,0.887323,0.034012,0.05034,12,2,10,1803,'ccl_gap');
INSERT INTO `rf_gap` VALUES (987,'12RG211',1226.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.623464655062913,-0.623464654303671,3.27249234748937,201.787372976677,0.567749088842806,0.0,0.887323,0.034012,0.05034,12,2,11,1804,'ccl_gap');
INSERT INTO `rf_gap` VALUES (988,'12RG212',1227.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.623394592930824,-0.623394592171582,3.27249234748937,201.899334038483,0.567866174230441,0.0,0.887323,0.034012,0.05034,12,2,12,1805,'ccl_gap');
INSERT INTO `rf_gap` VALUES (989,'12RG213',1228.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.623972077711807,-0.623972076952565,3.27249234748937,202.011251369492,0.567983182586173,0.0,0.887323,0.034012,0.05034,12,2,13,1806,'ccl_gap');
INSERT INTO `rf_gap` VALUES (990,'12RG214',1229.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.625196234120326,-0.625196233361084,3.27249234748937,202.123072757621,0.568100059483181,0.0,0.887323,0.034012,0.05034,12,2,14,1807,'ccl_gap');
INSERT INTO `rf_gap` VALUES (991,'12RG215',1230.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.627065887239605,-0.627065886480363,3.27249234748937,202.234745815223,0.568216750480388,0.0,0.887323,0.034012,0.05034,12,2,15,1808,'ccl_gap');
INSERT INTO `rf_gap` VALUES (992,'12RG216',1231.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.629579562660981,-0.629579561901739,3.27249234748937,202.346217865233,0.568333201002643,0.0,0.887323,0.034012,0.05034,12,2,16,1809,'ccl_gap');
INSERT INTO `rf_gap` VALUES (993,'12RG217',1232.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.632735485965237,-0.632735485205995,3.27249234748937,202.457435829669,0.568449356223225,0.0,0.887323,0.034012,0.05034,12,2,17,1810,'ccl_gap');
INSERT INTO `rf_gap` VALUES (994,'12RG218',1233.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.636531581561757,-0.636531580802515,3.27249234748937,202.568346121176,0.568565160949367,0.0,0.887323,0.034012,0.05034,12,2,18,1811,'ccl_gap');
INSERT INTO `rf_gap` VALUES (995,'12RG219',1234.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.640965470905295,-0.640965470146053,3.27249234748937,202.678894538309,0.568680559511528,0.0,0.887323,0.034012,0.05034,12,2,19,1812,'ccl_gap');
INSERT INTO `rf_gap` VALUES (996,'12RG220',1235.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.646034470113892,-0.64603446935465,3.27249234748937,202.789026165241,0.56879549565709,0.0,0.887323,0.034012,0.05034,12,2,20,1813,'ccl_gap');
INSERT INTO `rf_gap` VALUES (997,'12RG221',1236.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.651735587015191,-0.651735586255949,3.27249234748937,202.898685276585,0.5689099124492,0.0,0.887323,0.034012,0.05034,12,2,21,1814,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (998,'12RG222',1237.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.658065517652135,-
0.658065516892893,3.27249234748937,203.007815248015,0.569023752171416,0.0,0.887323,0.034012,0.05034,12,2,22,1815,'ccl_gap');
INSERT INTO `rf_gap` VALUES (999,'12RG223',1238.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.66502064228275,-
0.665020641523508,3.27249234748937,203.116358473351,0.56913695623885,0.0,0.887323,0.034012,0.05034,12,2,23,1816,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1000,'12RG224',1239.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.67259702091147,-
0.672597020152228,3.27249234748937,203.224256288795,0.569249465116466,0.0,0.887323,0.034012,0.05034,12,2,24,1817,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1001,'12RG225',1240.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.680790388394565,-
0.680790387635323,3.27249234748937,203.331448904965,0.56936121824519,0.0,0.887323,0.034012,0.05034,12,2,25,1818,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1002,'12RG226',1241.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.689596149163565,-
0.689596148404323,3.27249234748937,203.437875347398,0.569472153976483,0.0,0.887323,0.034012,0.05034,12,2,26,1819,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1003,'12RG227',1242.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.699009371615413,-
0.699009370856171,3.27249234748937,203.543473406134,0.569582209515987,0.0,0.887323,0.034012,0.05034,12,2,27,1820,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1004,'12RG228',1243.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.709024782220896,-
0.709024781461654,3.27249234748937,203.648179595031,0.569691320876871,0.0,0.887323,0.034012,0.05034,12,2,28,1821,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1005,'12RG229',1244.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.719636759405285,-
0.719636758646043,3.27249234748937,203.751929121399,0.569799422843455,0.0,0.887323,0.034012,0.05034,12,2,29,1822,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1006,'12RG230',1245.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.730839327258837,-
0.730839326499595,3.27249234748937,203.854655866529,0.569906448945674,0.0,0.887323,0.034012,0.05034,12,2,30,1823,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1007,'12RG231',1246.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.742626149137275,-
0.742626148378033,3.27249234748937,203.956292377673,0.570012331444921,0.0,0.887323,0.034012,0.05034,12,2,31,1824,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1008,'12RG232',1247.0,805.0,0.105730625,1.46987957366794,1.46987957366794,0.0,1.46987957280494,-0.754990521215208,-
0.754990520455966,3.27249234748937,204.056769871987,0.570117001331761,0.0,0.887323,0.034012,0.05034,12,2,32,1825,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1009,'12RG301',1256.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.659121746139324,-
0.659121745315757,0.130899693899575,204.166530374276,0.570225828608391,0.0,0.887626,0.033929,0.050336,12,3,1,1833,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1010,'12RG302',1257.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.650117776712531,-
0.650117775888964,0.130899693899575,204.277054673695,0.570339802033464,0.0,0.887626,0.033929,0.050336,12,3,2,1834,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1011,'12RG303',1258.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.64174578576883,-
0.641745784945263,0.130899693899575,204.388281358323,0.570454477801228,0.0,0.887626,0.033929,0.050336,12,3,3,1835,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1012,'12RG304',1259.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.634009190951252,-
0.634009190127685,0.130899693899575,204.500150439969,0.570569792105646,0.0,0.887626,0.033929,0.050336,12,3,4,1836,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1013,'12RG305',1260.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.626911057175194,-
0.626911056351627,0.130899693899575,204.612603281601,0.570685682693175,0.0,0.887626,0.033929,0.050336,12,3,5,1837,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1014,'12RG306',1261.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.620454105593973,-
0.620454104770406,0.130899693899575,204.725582516294,0.57080208878143,0.0,0.887626,0.033929,0.050336,12,3,6,1838,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1015,'12RG307',1262.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.614640722079487,-
0.61464072125592,0.130899693899575,204.839031958455,0.570918950969506,0.0,0.887626,0.033929,0.050336,12,3,7,1839,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1016,'12RG308',1263.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.609472965174712,-
0.609472964351145,0.130899693899575,204.952896508117,0.571036211140814,0.0,0.887626,0.033929,0.050336,12,3,8,1840,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1017,'12RG309',1264.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.604952573479297,-
0.60495257265573,0.130899693899575,205.067122049057,0.571153812359262,0.0,0.887626,0.033929,0.050336,12,3,9,1841,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1018,'12RG310',1265.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.601080972434852,-
0.601080971611285,0.130899693899575,205.181655341515,0.57127169875961,0.0,0.887626,0.033929,0.050336,12,3,10,1842,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1019,'12RG311',1266.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.597859280480636,-
0.597859279657069,0.130899693899575,205.296443910256,0.571389815432819,0.0,0.887626,0.033929,0.050336,12,3,11,1843,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1020,'12RG312',1267.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.595288314555356,-
0.595288313731789,0.130899693899575,205.411435928726,0.57150810830719,0.0,0.887626,0.033929,0.050336,12,3,12,1844,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1021,'12RG313',1268.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.593368594925197,-
0.59336859410163,0.130899693899575,205.526580100033,0.571626524026071,0.0,0.887626,0.033929,0.050336,12,3,13,1845,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1022,'12RG314',1269.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.592100349322601,-
0.592100348499034,0.130899693899575,205.641825535486,0.571745009822929,0.0,0.887626,0.033929,0.050336,12,3,14,1846,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1023,'12RG315',1270.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.591483516384374,-
0.591483515560807,0.130899693899575,205.757121631405,0.571863513394514,0.0,0.887626,0.033929,0.050336,12,3,15,1847,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1024,'12RG316',1271.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.591517748382424,-
0.591517747558857,0.130899693899575,205.872417944909,0.571981982772895,0.0,0.887626,0.033929,0.050336,12,3,16,1848,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1025,'12RG317',1272.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.592202413244012,-
0.592202412420445,0.130899693899575,205.9876640694,0.572100366197068,0.0,0.887626,0.033929,0.050336,12,3,17,1849,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1026,'12RG318',1273.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.593536595862725,-
0.593536595039158,0.130899693899575,206.102809510413,0.572218611984882,0.0,0.887626,0.033929,0.050336,12,3,18,1850,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1027,'12RG319',1274.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.595519098705212,-
0.595519097881645,0.130899693899575,206.217803562551,0.572336668405983,0.0,0.887626,0.033929,0.050336,12,3,19,1851,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1028,'12RG320',1275.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.598148441722566,-
0.598148440898999,0.130899693899575,206.332595188176,0.572454483556483,0.0,0.887626,0.033929,0.050336,12,3,20,1852,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1029,'12RG321',1276.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.601422861579183,-
0.601422860755616,0.130899693899575,206.447132898542,0.572572005236043,0.0,0.887626,0.033929,0.050336,12,3,21,1853,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1030,'12RG322',1277.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.605340310215178,-
0.605340309391611,0.130899693899575,206.561364638056,0.572689180828068,0.0,0.887626,0.033929,0.050336,12,3,22,1854,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1031,'12RG323',1278.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.609898452763064,-
0.609898451939497,0.130899693899575,206.675237672354,0.572805957183679,0.0,0.887626,0.033929,0.050336,12,3,23,1855,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1032,'12RG324',1279.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.6150946648418,-
0.615094664018233,0.130899693899575,206.788698480853,0.572922280510157,0.0,0.887626,0.033929,0.050336,12,3,24,1856,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1033,'12RG325',1280.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.620926029255772,-
0.620926028432205,0.130899693899575,206.901692654479,0.57303809626451,0.0,0.887626,0.033929,0.050336,12,3,25,1857,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1034,'12RG326',1281.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.627389332129775,-
0.627389331306208,0.130899693899575,207.01416479923,0.573153349052844,0.0,0.887626,0.033929,0.050336,12,3,26,1858,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1035,'12RG327',1282.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.634481058513545,-
0.634481057689978,0.130899693899575,207.12605844627,0.573267982536197,0.0,0.887626,0.033929,0.050336,12,3,27,1859,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1036,'12RG328',1283.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.642197387494585,-
0.642197386671018,0.130899693899575,207.237315969204,0.573381939343471,0.0,0.887626,0.033929,0.050336,12,3,28,1860,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1037,'12RG329',1284.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.650534186859376,-
0.650534186035809,0.130899693899575,207.347878509224,0.57349516099214,0.0,0.887626,0.033929,0.050336,12,3,29,1861,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1038,'12RG330',1285.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.659487007348099,-
0.659487006524532,0.130899693899575,207.457685908772,0.573607587817343,0.0,0.887626,0.033929,0.050336,12,3,30,1862,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1039,'12RG331',1286.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.669051076550021,-
0.669051075726454,0.130899693899575,207.566676654382,0.573719158910005,0.0,0.887626,0.033929,0.050336,12,3,31,1863,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1040,'12RG332',1287.0,805.0,0.1064934375,1.46937781559548,1.46937781559548,0.0,1.46937781473278,-0.679221292490846,-
0.679221291667279,0.130899693899575,207.674787829339,0.5738298120646,0.0,0.887626,0.033929,0.050336,12,3,32,1864,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1041,'12RG401',1296.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.613196651138569,-
0.61319665013323
1,3.27249234748937,207.789175917372,0.573943161431615,0.0,0.887916,0.033849,0.050333,12,4,1,1872,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1042,'12RG402',1297.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.6010929302156,-
0.60109292921026
2,3.27249234748937,207.904532668551,0.574060143883392,0.0,0.887916,0.033849,0.050333,12,4,2,1873,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1043,'12RG403',1298.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.589634925885313,-
0.58963492487997
5,3.27249234748937,208.020791052541,0.574178018977516,0.0,0.887916,0.033849,0.050333,12,4,3,1874,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1044,'12RG404',1299.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.57882705604535,-
0.57882705504001
2,3.27249234748937,208.137886146749,0.574296718211307,0.0,0.887916,0.033849,0.050333,12,4,4,1875,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1045,'12RG405',1300.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.568673362295742,-
0.56867336129040
4,3.27249234748937,208.255755079729,0.574416175325018,0.0,0.887916,0.033849,0.050333,12,4,5,1876,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1046,'12RG406',1301.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.559177522734716,-
0.55917752172937
8,3.27249234748937,208.374336962286,0.574536326234811,0.0,0.887916,0.033849,0.050333,12,4,6,1877,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1047,'12RG407',1302.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.55034286433373,-
0.55034286332839
2,3.27249234748937,208.493572807196,0.574657108953613,0.0,0.887916,0.033849,0.050333,12,4,7,1878,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1048,'12RG408',1303.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.542172374827865,-
0.54217237382252
7,3.27249234748937,208.613405438428,0.574778463500857,0.0,0.887916,0.033849,0.050333,12,4,8,1879,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1049,'12RG409',1304.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.534668714063274,-
0.53466871305793
6,3.27249234748937,208.73377939076,0.574900331802052,0.0,0.887916,0.033849,0.050333,12,4,9,1880,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1050,'12RG410',1305.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.527834224748924,-
0.52783422374358
6,3.27249234748937,208.854640800674,0.575022657579154,0.0,0.887916,0.033849,0.050333,12,4,10,1881,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1051,'12RG411',1306.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.521670942565722,-
0.52167094156038
4,3.27249234748937,208.975937289373,0.575145386232669,0.0,0.887916,0.033849,0.050333,12,4,11,1882,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1052,'12RG412',1307.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.516180605590685,-
0.51618060458534
7,3.27249234748937,209.097617838787,0.575268464716394,0.0,0.887916,0.033849,0.050333,12,4,12,1883,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1053,'12RG413',1308.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.511364662999869,-
0.51136466199453
1,3.27249234748937,209.219632661355,0.575391841405696,0.0,0.887916,0.033849,0.050333,12,4,13,1884,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1054,'12RG414',1309.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.507224283018099,-
0.50722428201276
1,3.27249234748937,209.341933064423,0.575515465960179,0.0,0.887916,0.033849,0.050333,12,4,14,1885,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1055,'12RG415',1310.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.503760360088622,-
0.50376035908328
4,3.27249234748937,209.464471310007,0.575639289181577,0.0,0.887916,0.033849,0.050333,12,4,15,1886,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1056,'12RG416',1311.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.500973521240406,-
0.50097352023506
8,3.27249234748937,209.587200470703,0.575763262867686,0.0,0.887916,0.033849,0.050333,12,4,16,1887,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1057,'12RG417',1312.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.49886413163553,-
0.49886413063019
2,3.27249234748937,209.710074282472,0.575887339663129,0.0,0.887916,0.033849,0.050333,12,4,17,1888,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1058,'12RG418',1313.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.497432299282886,-
0.49743229827754
8,3.27249234748937,209.833046995041,0.576011472907693,0.0,0.887916,0.033849,0.050333,12,4,18,1889,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1059,'12RG419',1314.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.496677878909397,-
0.49667787790405
9,3.27249234748937,209.956073220612,0.576135616483004,0.0,0.887916,0.033849,0.050333,12,4,19,1890,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1060,'12RG420',1315.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.49660047498312,-
0.49660047397778
2,3.27249234748937,210.079107781596,0.57625972465825,0.0,0.887916,0.033849,0.050333,12,4,20,1891,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1061,'12RG421',1316.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.49719944388737,-
0.49719944288203
2,3.27249234748937,210.202105558039,0.57638375193566,0.0,0.887916,0.033849,0.050333,12,4,21,1892,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1062,'12RG422',1317.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.498473895248233,-
0.49847389424289
5,3.27249234748937,210.325021335433,0.576507652896425,0.0,0.887916,0.033849,0.050333,12,4,22,1893,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1063,'12RG423',1318.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.500422692421752,-
0.50042269141641
4,3.27249234748937,210.44780965358,0.576631382047757,0.0,0.887916,0.033849,0.050333,12,4,23,1894,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1064,'12RG424',1319.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.503044452150812,-
0.50304445114547
4,3.27249234748937,210.570424657177,0.576754893671730,0.0,0.887916,0.033849,0.050333,12,4,24,1895,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1065,'12RG425',1320.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.506337543405424,-
0.50633754240008
6,3.27249234748937,210.692819948792,0.576878141676596,0.0,0.887916,0.033849,0.050333,12,4,25,1896,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1066,'12RG426',1321.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.510300085422992,-
0.51030008441765
4,3.27249234748937,210.814948444911,0.577001079451218,0.0,0.887916,0.033849,0.050333,12,4,26,1897,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1067,'12RG427',1322.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.514929944969852,-
0.51492994396451
4,3.27249234748937,210.936762235707,0.577123659723282,0.0,0.887916,0.033849,0.050333,12,4,27,1898,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1068,'12RG428',1323.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.520224732847277,-
0.52022473184193
9,3.27249234748937,211.058212449251,0.577245834421957,0.0,0.887916,0.033849,0.050333,12,4,28,1899,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1069,'12RG429',1324.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.526181799670455,-
0.52618179866511
7,3.27249234748937,211.179249120808,0.57736755454565,0.0,0.887916,0.033849,0.050333,12,4,29,1900,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1070,'12RG430',1325.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.53279823095057,-
0.53279822994523
2,3.27249234748937,211.29982106795,0.577488770035537,0.0,0.887916,0.033849,0.050333,12,4,30,1901,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1071,'12RG431',1326.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.540070841514821,-
0.54007084050948
3,3.27249234748937,211.419857772175,0.577609429655518,0.0,0.887916,0.033849,0.050333,12,4,31,1902,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1072,'12RG432',1327.0,805.0,0.1072934375,1.4688979058219,1.4688979058219,0.0,1.46889790495948,-0.547996169302332,-
0.54799616829699
4,3.27249234748937,211.539359267744,0.577729480879297,0.0,0.887916,0.033849,0.050333,12,4,32,1903,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1073,'13RG101',1337.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.688887390139627,-
0.68888738850964
1,0.349065850398866,211.647837149169,0.577843672099745,0.0,0.868721,0.039296,0.052304,13,1,1,1919,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1074,'13RG102',1338.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.663943044758574,-
0.66394304312858
8,0.349065850398866,211.758512217977,0.577953397728351,0.0,0.868721,0.039296,0.052304,13,1,2,1920,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1075,'13RG103',1339.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.639607021180074,-
0.63960701955008
8,0.349065850398866,211.871264781879,0.57806520991961,0.0,0.868721,0.039296,0.052304,13,1,3,1921,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1076,'13RG104',1340.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.615890165446435,-
0.61589016381644
9,0.349065850398866,211.98597798936,0.578178987318609,0.0,0.868721,0.039296,0.052304,13,1,4,1922,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1077,'13RG105',1341.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.592802651689405,-
0.59280265005941
9,0.349065850398866,212.102538087596,0.578294611722215,0.0,0.868721,0.039296,0.052304,13,1,5,1923,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1078,'13RG106',1342.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.570354001079051,-
0.57035399944906
5,0.349065850398866,212.220834647201,0.578411968322414,0.0,0.868721,0.039296,0.052304,13,1,6,1924,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1079,'13RG107',1343.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.548553102015359,-
0.54855310038537
3,0.349065850398866,212.340760754359,0.578530945915106,0.0,0.868721,0.039296,0.052304,13,1,7,1925,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1080,'13RG108',1344.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.527408231366867,-
0.52740822973688
1,0.349065850398866,212.462213171094,0.578651437075146,0.0,0.868721,0.039296,0.052304,13,1,8,1926,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1081,'13RG109',1345.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.506927076566453,-
0.50692707493646
7,0.349065850398866,212.585092464668,0.578773338298657,0.0,0.868721,0.039296,0.052304,13,1,9,1927,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1082,'13RG110',1346.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.487116758381338,-
0.48711675675135
2,0.349065850398866,212.709303107226,0.578896550113807,0.0,0.868721,0.039296,0.052304,13,1,10,1928,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1083,'13RG111',1347.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.467983854182191,-
0.46798385255220
5,0.349065850398866,212.834753546959,0.57902097716142,0.0,0.868721,0.039296,0.052304,13,1,11,1929,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1084,'13RG112',1348.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.449534421544887,-0.449534419914901,0.349065850398866,212.961356252188,0.579146528246894,0.0,0.868721,0.039296,0.052304,13,1,12,1930,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1085,'13RG113',1349.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.43177402202785,-0.431774020397864,0.349065850398866,213.0890277298,0.579273116365002,0.0,0.868721,0.039296,0.052304,13,1,13,1931,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1086,'13RG114',1350.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.414707744976984,-0.414707743346998,0.349065850398866,213.217688519587,0.579400658699211,0.0,0.868721,0.039296,0.052304,13,1,14,1932,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1087,'13RG115',1351.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.398340231220812,-0.398340229590826,0.349065850398866,213.34726316601,0.579529076597198,0.0,0.868721,0.039296,0.052304,13,1,15,1933,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1088,'13RG116',1352.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.382675696527689,-0.382675694897703,0.349065850398866,213.477680168981,0.579658295524254,0.0,0.868721,0.039296,0.052304,13,1,16,1934,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1089,'13RG117',1353.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.367717954707342,-0.367717953077356,0.349065850398866,213.608871915197,0.579788224996256,0.0,0.868721,0.039296,0.052304,13,1,17,1935,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1090,'13RG118',1354.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.353470440248931,-0.353470438618945,0.349065850398866,213.740774591585,0.579918858493895,0.0,0.868721,0.039296,0.052304,13,1,18,1936,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1091,'13RG119',1355.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.339936230396686,-0.3399362287667,0.349065850398866,213.873328082339,0.580050073359759,0.0,0.868721,0.039296,0.052304,13,1,19,1937,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1092,'13RG120',1356.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.327118066574731,-0.327118064944745,0.349065850398866,214.006475851023,0.580181830679873,0.0,0.868721,0.039296,0.052304,13,1,20,1938,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1093,'13RG121',1357.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.315018375080467,-0.315018373450481,0.349065850398866,214.14016480913,0.580314075151199,0.0,0.868721,0.039296,0.052304,13,1,21,1939,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1094,'13RG122',1358.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.303639286975316,-0.30363928534533,0.349065850398866,214.274345172419,0.580446754936556,0.0,0.868721,0.039296,0.052304,13,1,22,1940,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1095,'13RG123',1359.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.292982657109147,-0.292982655479161,0.349065850398866,214.408970306328,0.580579821508326,0.0,0.868721,0.039296,0.052304,13,1,23,1941,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1096,'13RG124',1360.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.283050082223146,-0.28305008059316,0.349065850398866,214.543996561613,0.580713229482238,0.0,0.868721,0.039296,0.052304,13,1,24,1942,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1097,'13RG125',1361.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.273842918081852,-0.273842916451866,0.349065850398866,214.679383101375,0.580846936442457,0.0,0.868721,0.039296,0.052304,13,1,25,1943,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1098,'13RG126',1362.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.265362295593353,-0.265362293963367,0.349065850398866,214.815091720477,0.580980902759083,0.0,0.868721,0.039296,0.052304,13,1,26,1944,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1099,'13RG127',1363.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.257609135881038,-0.257609134251052,0.349065850398866,214.951086658344,0.581115091399137,0.0,0.868721,0.039296,0.052304,13,1,27,1945,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1100,'13RG128',1364.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.250584164277588,-0.250584162647602,0.349065850398866,215.087334406029,0.581249467731973,0.0,0.868721,0.039296,0.052304,13,1,28,1946,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1101,'13RG129',1365.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.244287923216132,-0.244287921586146,0.349065850398866,215.223803508367,0.581383999330022,0.0,0.868721,0.039296,0.052304,13,1,29,1947,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1102,'13RG130',1366.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.238720783998621,-0.238720782368635,0.349065850398866,215.360464361975,0.581518655765672,0.0,0.868721,0.039296,0.052304,13,1,30,1948,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1103,'13RG131',1367.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.233882957426002,-0.233882955796016,0.349065850398866,215.497289009785,0.581653408405035,0.0,0.868721,0.039296,0.052304,13,1,31,1949,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1104,'13RG132',1368.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.229774503278027,-0.229774501648041,0.349065850398866,215.63425093275,0.58178823019927,0.0,0.868721,0.039296,0.052304,13,1,32,1950,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1105,'13RG133',1369.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.226395338635354,-0.226395337005368,0.349065850398866,215.771324839302,0.581923095474093,0.0,0.868721,0.039296,0.052304,13,1,33,1951,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1106,'13RG134',1370.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.223745245038406,-0.22374524340842,0.349065850398866,215.908486453087,0.582057979718029,0.0,0.868721,0.039296,0.052304,13,1,34,1952,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1107,'13RG135',1371.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.221823874481882,-0.221823872851896,0.349065850398866,216.045712299492,0.582192859369925,0.0,0.868721,0.039296,0.052304,13,1,35,1953,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1108,'13RG136',1372.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.220630754245112,-0.220630752615126,0.349065850398866,216.182979491395,0.582327711606212,0.0,0.868721,0.039296,0.052304,13,1,36,1954,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1109,'13RG137',1373.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.220165290562176,-0.22016528893219,0.349065850398866,216.320265514598,0.582462514128342,0.0,0.868721,0.039296,0.052304,13,1,37,1955,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1110,'13RG138',1374.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.220426771137459,-0.220426769507473,0.349065850398866,216.457548013327,0.582597244950834,0.0,0.868721,0.039296,0.052304,13,1,38,1956,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1111,'13RG139',1375.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.221414366514037,-0.221414364884051,0.349065850398866,216.594804576217,0.58273188219031,0.0,0.868721,0.039296,0.052304,13,1,39,1957,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1112,'13RG140',1376.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.223127130305461,-0.22312712867475,0.349065850398866,216.732012523156,0.582866403855909,0.0,0.868721,0.039296,0.052304,13,1,40,1958,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1113,'13RG141',1377.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.225563998302346,-0.22556399667236,0.349065850398866,216.869148693381,0.583000787641455,0.0,0.868721,0.039296,0.052304,13,1,41,1959,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1114,'13RG142',1378.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.228723786468014,-0.228723784838028,0.349065850398866,217.006189235217,0.583135010719754,0.0,0.868721,0.039296,0.052304,13,1,42,1960,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1115,'13RG143',1379.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.232605187838712,-0.232605186208726,0.349065850398866,217.143109397869,0.583269049539386,0.0,0.868721,0.039296,0.052304,13,1,43,1961,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1116,'13RG144',1380.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.237206768346955,-0.237206766716969,0.349065850398866,217.279883325683,0.583402879624404,0.0,0.868721,0.039296,0.052304,13,1,44,1962,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1117,'13RG145',1381.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.242526961586163,-0.242526959956177,0.349065850398866,217.416483855329,0.583536475377339,0.0,0.868721,0.039296,0.052304,13,1,45,1963,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1118,'13RG146',1382.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.248564062540997,-0.248564060911011,0.349065850398866,217.552882316381,0.583669809885937,0.0,0.868721,0.039296,0.052304,13,1,46,1964,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1119,'13RG147',1383.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.255316220306011,-0.255316218676025,0.349065850398866,217.689048335806,0.583802854734099,0.0,0.868721,0.039296,0.052304,13,1,47,1965,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1120,'13RG148',1384.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.262781429819246,-0.26278142818926,0.349065850398866,217.824949646918,0.583935579817521,0.0,0.868721,0.039296,0.052304,13,1,48,1966,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1121,'13RG149',1385.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.270957522641948,-0.270957521011962,0.349065850398866,217.960551903388,0.584067953164541,0.0,0.868721,0.039296,0.052304,13,1,49,1967,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1122,'13RG150',1386.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.279842156814003,-0.279842155184017,0.349065850398866,218.095818498957,0.584199940762801,0.0,0.868721,0.039296,0.052304,13,1,50,1968,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1123,'13RG151',1387.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.289432805821943,-0.289432804191957,0.349065850398866,218.230710393554,0.584331506392299,0.0,0.868721,0.039296,0.052304,13,1,51,1969,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1124,'13RG152',1388.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.29972674671787,-0.299726745087884,0.349065850398866,218.365185946548,0.584462611465533,0.0,0.868721,0.039296,0.052304,13,1,52,1970,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1125,'13RG153',1389.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.310721047429451,-0.310721045799465,0.349065850398866,218.499200757971,0.584593214875409,0.0,0.868721,0.039296,0.052304,13,1,53,1971,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1126,'13RG154',1390.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.322412553308429,-0.322412551678443,0.349065850398866,218.632707518539,0.584723272851698,0.0,0.868721,0.039296,0.052304,13,1,54,1972,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1127,'13RG155',1391.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.334797872965536,-0.33479787133555,0.349065850398866,218.765655869409,0.584852738826836,0.0,0.868721,0.039296,0.052304,13,1,55,1973,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1128,'13RG156',1392.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.347873363446344,-0.347873361816358,0.349065850398866,218.897992272636,0.584981563311924,0.0,0.868721,0.039296,0.052304,13,1,56,1974,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1129,'13RG157',1393.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.361635114805165,-0.361635113175179,0.349065850398866,219.029659893344,0.585109693783823,0.0,0.868721,0.039296,0.052304,13,1,57,1975,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1130,'13RG158',1394.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.376078934140058,-0.376078932510072,0.349065850398866,219.160598494697,0.585237074584299,0.0,0.868721,0.039296,0.052304,13,1,58,1976,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1131,'13RG159',1395.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.391200329155706,-0.39120032752572,0.349065850398866,219.290744346772,0.585363646832182,0.0,0.868721,0.039296,0.052304,13,1,59,1977,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1132,'13RG160',1396.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.406994491326732,-0.406994489696746,0.349065850398866,219.420030150485,0.585489348349554,0.0,0.868721,0.039296,0.052304,13,1,60,1978,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1133,'13RG161',1397.0,805.0,0.108461311475,1.49311026723372,1.49311026723372,0.0,1.49311026635709,-0.42345627873878,-0.423456277108794,0.349065850398866,219.548384977758,0.585614113603021,0.0,0.868721,0.039296,0.052304,13,1,61,1979,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1134,'13RG201',1406.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.825126058638355,-0.825126057750323,0.349065850398866,219.644886865794,0.58572294718308,0.0,0.869354,0.039123,0.052291,13,2,1,1987,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1135,'13RG202',1407.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.805441103398171,-0.805441102510139,0.349065850398866,219.743429036914,0.585817309029152,0.0,0.869354,0.039123,0.052291,13,2,2,1988,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1136,'13RG203',1408.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.786271421752029,-0.786271420863997,0.349065850398866,219.843921586427,0.585913561334153,0.0,0.869354,0.039123,0.052291,13,2,3,1989,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1137,'13RG204',1409.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.767626794180653,-0.76762679329621,0.349065850398866,219.946275870029,0.586011615393957,0.0,0.869354,0.039123,0.052291,13,2,4,1990,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1138,'13RG205',1410.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.749516514519605,-0.749516513631573,0.349065850398866,220.050404668145,0.586111383907204,0.0,0.869354,0.039123,0.052291,13,2,5,1991,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1139,'13RG206',1411.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.73194939851092,-0.73194939762888,0.349065850398866,220.156222332067,0.586212781129016,0.0,0.869354,0.039123,0.052291,13,2,6,1992,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1140,'13RG207',1412.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.714933793149718,-0.714933792261686,0.349065850398866,220.263644911916,0.586315723006287,0.0,0.869354,0.039123,0.052291,13,2,7,1993,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1141,'13RG208',1413.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.69847758672229,-0.69847758583425,0.349065850398866,220.372590266564,0.58642012729464,0.0,0.869354,0.039123,0.052291,13,2,8,1994,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1142,'13RG209',1414.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.682588219433291,-0.682588218545259,0.349065850398866,220.482978155784,0.586525913657352,0.0,0.869354,0.039123,0.052291,13,2,9,1995,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1143,'13RG210',1415.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.667272694522082,-0.66727269363405,0.349065850398866,220.594730314973,0.586633003746546,0.0,0.869354,0.039123,0.052291,13,2,10,1996,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1144,'13RG211',1416.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.652537589770282,-0.65253758888225,0.349065850398866,220.707770512907,0.586741321267186,0.0,0.869354,0.039123,0.052291,13,2,11,1997,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1145,'13RG212',1417.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.638389069306057,-0.638389068418025,0.349065850398866,220.822024593035,0.586850792024329,0.0,0.869354,0.039123,0.052291,13,2,12,1998,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1146,'13RG213',1418.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.62483289561404,-0.62483289472600,0.349065850398866,220.937420498918,0.586961343954296,0.0,0.869354,0.039123,0.052291,13,2,13,1999,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1147,'13RG214',1419.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.611874441663246,-0.611874440775214,0.349065850398866,221.053888284437,0.587072907140403,0.0,0.869354,0.039123,0.052291,13,2,14,2000,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1148,'13RG215',1420.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.599518703069854,-0.599518702181822,0.349065850398866,221.171360109476,0.587185413813974,0.0,0.869354,0.039123,0.052291,13,2,15,2001,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1149,'13RG216',1421.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.587770310215773,-0.587770309327741,0.349065850398866,221.289770221784,0.587298798341371,0.0,0.869354,0.039123,0.052291,13,2,16,2002,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1150,'13RG217',1422.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.576633540248515,-0.576633539360483,0.349065850398866,221.40905492578,0.587412997197833,0.0,0.869354,0.039123,0.052291,13,2,17,2003,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1151,'13RG218',1423.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.566112328892202,-0.56611232800417,0.349065850398866,221.529152539059,0.587527948928912,0.0,0.869354,0.039123,0.052291,13,2,18,2004,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1152,'13RG219',1424.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.556210282004535,-0.556210281116503,0.349065850398866,221.650003337372,0.587643594100305,0.0,0.869354,0.039123,0.052291,13,2,19,2005,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1153,'13RG220',1425.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.546930686818825,-0.546930685930793,0.349065850398866,221.771549488874,0.587759875236908,0.0,0.869354,0.039123,0.052291,13,2,20,2006,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1154,'13RG221',1426.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.538276522815244,-0.538276521927212,0.349065850398866,221.893734978404,0.587876736751881,0.0,0.869354,0.039123,0.052291,13,2,21,2007,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1155,'13RG222',1427.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.53025047216974,-0.530250471281708,0.349065850398866,222.016505522588,0.587994124866542,0.0,0.869354,0.039123,0.052291,13,2,22,2008,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1156,'13RG223',1428.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.522854929733476,-0.522854928845444,0.349065850398866,222.139808476512,0.588111987521867,0.0,0.869354,0.039123,0.052291,13,2,23,2009,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1157,'13RG224',1429.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.51609201250072,-0.51609201161688,0.349065850398866,222.263592732732,0.588230274282379,0.0,0.869354,0.039123,0.052291,13,2,24,2010,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1158,'13RG225',1430.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.509963568526678,-0.509963567638646,0.349065850398866,222.38780861335,0.588348936233177,0.0,0.869354,0.039123,0.052291,13,2,25,2011,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1159,'13RG226',1431.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.504471185261365,-0.504471184373333,0.349065850398866,222.512407755878,0.588467925870845,0.0,0.869354,0.039123,0.052291,13,2,26,2012,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1160,'13RG227',1432.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.499616197269652,-0.49961619638162,0.349065850398866,222.63734299358,0.588587196988961,0.0,0.869354,0.039123,0.052291,13,2,27,2013,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1161,'13RG228',1433.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.495399693311796,-0.495399692423764,0.349065850398866,222.762568231007,0.588706704558894,0.0,0.869354,0.039123,0.052291,13,2,28,2014,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1162,'13RG229',1434.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.491822522761772,-0.49182252187374,0.349065850398866,222.888038315348,0.588826404606568,0.0,0.869354,0.039123,0.052291,13,2,29,2015,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1163,'13RG230',1435.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.488885301345419,-0.488885300457387,0.349065850398866,223.01370890428,0.588946254085847,0.0,0.869354,0.039123,0.052291,13,2,30,2016,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1164,'13RG231',1436.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.486588416183074,-0.486588415295042,0.349065850398866,223.139536330926,0.58906621074916,0.0,0.869354,0.039123,0.052291,13,2,31,2017,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1165,'13RG232',1437.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.484932030125676,-0.484932029237644,0.349065850398866,223.265477466552,0.589186233016003,0.0,0.869354,0.039123,0.052291,13,2,32,2018,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1166,'13RG233',1438.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.48391608537549,-0.483916084487458,0.349065850398866,223.391489581587,0.58930627983988,0.0,0.869354,0.039123,0.052291,13,2,33,2019,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1167,'13RG234',1439.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.483540306386828,-0.483540305498796,0.349065850398866,223.517530205578,0.589426310574294,0.0,0.869354,0.039123,0.052291,13,2,34,2020,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1168,'13RG235',1440.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.483804202044687,-0.483804201156655,0.349065850398866,223.643556986635,0.589546284838329,0.0,0.869354,0.039123,0.052291,13,2,35,2021,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1169,'13RG236',1441.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.484707067122044,-0.484707066234012,0.349065850398866,223.769527550961,0.589666162382386,0.0,0.869354,0.039123,0.052291,13,2,36,2022,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1170,'13RG237',1442.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.486247983020241,-0.486247982132209,0.349065850398866,223.895399363019,0.589785902954613,0.0,0.869354,0.039123,0.052291,13,2,37,2023,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1171,'13RG238',1443.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.488425817798826,-0.488425816910794,0.349065850398866,224.021129586899,0.589905466168558,0.0,0.869354,0.039123,0.052291,13,2,38,2024,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1172,'13RG239',1444.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.491239225504663,-0.491239224616631,0.349065850398866,224.146674949464,0.59002481137259,0.0,0.869354,0.039123,0.052291,13,2,39,2025,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1173,'13RG240',1445.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.49468664481229,-0.494686643924258,0.349065850398866,224.271991605809,0.590143897521586,0.0,0.869354,0.039123,0.052291,13,2,40,2026,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1174,'13RG241',1446.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.498766296991312,-0.49876629610328,0.349065850398866,224.397035007629,0.590262683051433,0.0,0.869354,0.039123,0.052291,13,2,41,2027,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1175,'13RG242',1447.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.503476183217685,-0.503476182329653,0.349065850398866,224.521759775042,0.590381125756858,0.0,0.869354,0.039123,0.052291,13,2,42,2028,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1176,'13RG243',1448.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.5088140812501,-0.508814080362068,0.349065850398866,224.646119572462,0.590499182673102,0.0,0.869354,0.039123,0.052291,13,2,43,2029,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1177,'13RG244',1449.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.514777541494524,-0.514777540606492,0.349065850398866,224.770066989092,0.590616809961981,0.0,0.869354,0.039123,0.052291,13,2,44,2030,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1178,'13RG245',1450.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.521363882481814,-0.521363881593782,0.349065850398866,224.893553424638,0.590733962802859,0.0,0.869354,0.039123,0.052291,13,2,45,2031,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1179,'13RG246',1451.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.528570185788595,-0.528570184900563,0.349065850398866,225.016528980834,0.590850595289065,0.0,0.869354,0.039123,0.052291,13,2,46,2032,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1180,'13RG247',1452.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.536393290431582,-0.53639328954355,0.349065850398866,225.138942359403,0.590966660330301,0.0,0.869354,0.039123,0.052291,13,2,47,2033,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1181,'13RG248',1453.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.544829786769142,-0.54482978588111,0.349065850398866,225.260740767057,0.591082109561587,0.0,0.869354,0.039123,0.052291,13,2,48,2034,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1182,'13RG249',1454.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.553876009947692,-0.55387600905966,0.349065850398866,225.381869828168,0.591196893259283,0.0,0.869354,0.039123,0.052291,13,2,49,2035,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1183,'13RG250',1455.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.563528032931969,-0.563528032043937,0.349065850398866,225.502273505736,0.591310960264756,0.0,0.869354,0.039123,0.052291,13,2,50,2036,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1184,'13RG251',1456.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.573781659161077,-0.573781658273045,0.349065850398866,225.621894031295,0.591424257916239,0.0,0.869354,0.039123,0.052291,13,2,51,2037,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1185,'13RG252',1457.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.584632414876281,-0.584632413988249,0.349065850398866,225.740671844391,0.591536731989426,0.0,0.869354,0.039123,0.052291,13,2,52,2038,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1186,'13RG253',1458.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.596075541166335,-0.596075540278303,0.349065850398866,225.858545542256,0.591648326647378,0.0,0.869354,0.039123,0.052291,13,2,53,2039,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1187,'13RG254',1459.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.608105985783282,-0.60810598489525,0.349065850398866,225.97545184033,0.591758984400258,0.0,0.869354,0.039123,0.052291,13,2,54,2040,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1188,'13RG255',1460.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.620718394779195,-0.620718393891163,0.349065850398866,226.091325544217,0.591868646075453,0.0,0.869354,0.039123,0.052291,13,2,55,2041,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1189,'13RG256',1461.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.633907104020877,-0.633907103132845,0.349065850398866,226.206099533707,0.591977250798585,0.0,0.869354,0.039123,0.052291,13,2,56,2042,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1190,'13RG257',1462.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.647666130640039,-0.647666129752007,0.349065850398866,226.319704759433,0.592084735985927,0.0,0.869354,0.039123,0.052291,13,2,57,2043,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1191,'13RG258',1463.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.661989164479279,-0.66198916359147,0.349065850398866,226.432070252709,0.592191037348697,0.0,0.869354,0.039123,0.052291,13,2,58,2044,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1192,'13RG259',1464.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.676869559596432,-0.6768695587084,0.349065850398866,226.543123149096,0.592296088909673,0.0,0.869354,0.039123,0.052291,13,2,59,2045,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1193,'13RG260',1465.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.692300325891536,-0.692300325003504,0.349065850398866,226.652788726137,0.592399823032553,0.0,0.869354,0.039123,0.052291,13,2,60,2046,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1194,'13RG261',1466.0,805.0,0.109755901639,1.49202309354021,1.49202309354021,0.0,1.49202309266421,-0.708274120923654,-0.708274120035622,0.349065850398866,226.760990455736,0.592502170464424,0.0,0.869354,0.039123,0.052291,13,2,61,2047,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1195,'14RG101',1476.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.695627082598077,-0.695627081514754,0.680678408277789,226.870831352109,0.592604553849843,0.0,0.869946,0.038961,0.05228,14,1,1,2061,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1196,'14RG102',1477.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.677140353772047,-0.677140352688724,0.680678408277789,226.982351325688,0.592708447884924,0.0,0.869946,0.038961,0.05228,14,1,2,2062,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1197,'14RG103',1478.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.659212466357203,-0.659212465273388,0.680678408277789,227.095463424638,0.59281382839355,0.0,0.869946,0.038961,0.05228,14,1,3,2063,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1198,'14RG104',1479.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.641850905138239,-0.641850904054916,0.680678408277789,227.210082913015,0.59292061277901,0.0,0.869946,0.038961,0.05228,14,1,4,2064,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1199,'14RG105',1480.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.625062710877726,-0.625062709794403,0.680678408277789,227.326127362572,0.593028720690568,0.0,0.869946,0.038961,0.05228,14,1,5,2065,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1200,'14RG106',1481.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.608854493128544,-0.608854492045221,0.680678408277789,227.443516725877,0.593138074100407,0.0,0.869946,0.038961,0.05228,14,1,6,2066,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1201,'14RG107',1482.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.593232443403548,-0.593232442320225,0.680678408277789,227.562173391294,0.593248597362647,0.0,0.869946,0.038961,0.05228,14,1,7,2067,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1202,'14RG108',1483.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.57820234860542,-0.578202347522097,0.680678408277789,227.682022220494,0.593360217255069,0.0,0.869946,0.038961,0.05228,14,1,8,2068,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1203,'14RG109',1484.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.563769604623841,-0.563769603540518,0.680678408277789,227.80299056919,0.593472863004285,0.0,0.869946,0.038961,0.05228,14,1,9,2069,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1204,'14RG110',1485.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.549939230011295,-0.549939228927972,0.680678408277789,227.925008291867,0.593586466295095,0.0,0.869946,0.038961,0.05228,14,1,10,2070,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1205,'14RG111',1486.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.536715879653483,-0.53671587857016,0.680678408277789,228.04800773129,0.593700961264851,0.0,0.869946,0.038961,0.05228,14,1,11,2071,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1206,'14RG112',1487.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.524103858355038,-0.524103857271715,0.680678408277789,228.171923693613,0.593816284483648,0.0,0.869946,0.038961,0.05228,14,1,12,2072,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1207,'14RG113',1488.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.512107134266114,-0.512107133182791,0.680678408277789,228.296693409935,0.593932374921205,0.0,0.869946,0.038961,0.05228,14,1,13,2073,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1208,'14RG114',1489.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.500729352080147,-0.500729350996824,0.680678408277789,228.42225648514,0.594049173901276,0.0,0.869946,0.038961,0.05228,14,1,14,2074,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1209,'14RG115',1490.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.489973845938306,-0.489973844854983,0.680678408277789,228.54855483487,0.594166625044469,0.0,0.869946,0.038961,0.05228,14,1,15,2075,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1210,'14RG116',1491.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.47984365198072,-0.47984365089739,0.680678408277789,228.675532611481,0.594284674200311,0.0,0.869946,0.038961,0.05228,14,1,16,2076,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1211,'14RG117',1492.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.470341520489552,-0.470341519406229,0.680678408277789,228.803136119807,0.594403269369412,0.0,0.869946,0.038961,0.05228,14,1,17,2077,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1212,'14RG118',1493.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.461469927573593,-0.46146992649027,0.680678408277789,228.931313723538,0.594522360616547,0.0,0.869946,0.038961,0.05228,14,1,18,2078,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1213,'14RG119',1494.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.453231086348749,-0.45323108526426,0.680678408277789,229.060015743032,0.594641899975457,0.0,0.869946,0.038961,0.05228,14,1,19,2079,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1214,'14RG120',1495.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.445626957573201,-0.445626956489878,0.680678408277789,229.189194345304,0.594761841346508,0.0,0.869946,0.038961,0.05228,14,1,20,2080,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1215,'14RG121',1496.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.438659259700086,-0.438659258616763,0.680678408277789,229.318803426964,0.594882140385499,0.0,0.869946,0.038961,0.05228,14,1,21,2081,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1216,'14RG122',1497.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.432329478315045,-0.432329477231722,0.680678408277789,229.448798490805,0.595002754391705,0.0,0.869946,0.038961,0.05228,14,1,22,2082,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1217,'14RG123',1498.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.426638874929776,-0.426638873846453,0.680678408277789,229.579136516759,0.595123642183594,0.0,0.869946,0.038961,0.05228,14,1,23,2083,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1218,'14RG124',1499.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.421588495106041,-0.421588494022718,0.680678408277789,229.709775827861,0.595244763975132,0.0,0.869946,0.038961,0.05228,14,1,24,2084,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1219,'14RG125',1500.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.4171791758893,-0.417179174805977,0.680678408277789,229.840675951885,0.595366081245975,0.0,0.869946,0.038961,0.05228,14,1,25,2085,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1220,'14RG126',1501.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.413411552533039,-0.41341155149716,0.680678408277789,229.971797479254,0.595487556608594,0.0,0.869946,0.038961,0.05228,14,1,26,2086,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1221,'14RG127',1502.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.410286064499443,-0.41028606341612,0.680678408277789,230.103101917824,0.59560915367257,0.0,0.869946,0.038961,0.05228,14,1,27,2087,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1222,'14RG128',1503.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.407802960724714,-0.407802959641391,0.680678408277789,230.234551545101,0.595730836906626,0.0,0.869946,0.038961,0.05228,14,1,28,2088,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1223,'14RG129',1504.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.405962304139576,-0.405962303056253,0.680678408277789,230.366109258449,0.595852571498908,0.0,0.869946,0.038961,0.05228,14,1,29,2089,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1224,'14RG130',1505.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.404763975439697,-0.404763974356374,0.680678408277789,230.497738423814,0.59597432321605,0.0,0.869946,0.038961,0.05228,14,1,30,2090,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1225,'14RG131',1506.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.404207676102286,-0.404207675018963,0.680678408277789,230.629402723489,0.596096058261503,0.0,0.869946,0.038961,0.05228,14,1,31,2091,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1226,'14RG132',1507.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.40429293064823,-0.404292929564907,0.680678408277789,230.761066003407,0.596217743133612,0.0,0.869946,0.038961,0.05228,14,1,32,2092,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1227,'14RG133',1508.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.405019088151574,-0.405019087068251,0.680678408277789,230.892692120482,0.596339344483904,0.0,0.869946,0.038961,0.05228,14,1,33,2093,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1228,'14RG134',1509.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.406385323000653,-0.40638532191733,0.680678408277789,231.024244790459,0.596460828976046,0.0,0.869946,0.038961,0.05228,14,1,34,2094,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1229,'14RG135',1510.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.408390634917109,-0.408390633833786,0.680678408277789,231.155687436779,0.596582163145907,0.0,0.869946,0.038961,0.05228,14,1,35,2095,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1230,'14RG136',1511.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.41103384824199,-0.411033847158667,0.680678408277789,231.286983040933,0.596703313263186,0.0,0.869946,0.038961,0.05228,14,1,36,2096,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1231,'14RG137',1512.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.414313610499801,-0.414313609416478,0.680678408277789,231.418093994798,0.596824245195028,0.0,0.869946,0.038961,0.05228,14,1,37,2097,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1232,'14RG138',1513.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.418228390254318,-0.418228389170995,0.680678408277789,231.548981955439,0.596944924272079,0.0,0.869946,0.038961,0.05228,14,1,38,2098,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1233,'14RG139',1514.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.422776474271243,-0.4227764731879,0.680678408277789,231.679607702889,0.59706531515742,0.0,0.869946,0.038961,0.05228,14,1,39,2099,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1234,'14RG140',1515.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.427955964006135,-0.427955962922812,0.680678408277789,231.809931001405,0.597185381718827,0.0,0.869946,0.038961,0.05228,14,1,40,2100,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1235,'14RG141',1516.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.43376477143745,-0.433764770354127,0.680678408277789,231.939910464728,0.597305086904813,0.0,0.869946,0.038961,0.05228,14,1,41,2101,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1236,'14RG142',1517.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.4402006142677,-0.440200613184377,0.680678408277789,232.069503425891,0.597424392624923,0.0,0.869946,0.038961,0.05228,14,1,42,2102,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1237,'14RG143',1518.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.447261010517022,-0.447261009433699,0.680678408277789,232.198665812104,0.597543259634744,0.0,0.869946,0.038961,0.05228,14,1,43,2103,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1238,'14RG144',1519.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.454943272536714,-0.454943271453391,0.680678408277789,232.327352025311,0.597661647426127,0.0,0.869946,0.038961,0.05228,14,1,44,2104,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1239,'14RG145',1520.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.463244500472553,-0.46324449938923,0.680678408277789,232.455514828981,0.597779514123115,0.0,0.869946,0.038961,0.05228,14,1,45,2105,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1240,'14RG146',1521.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.472161575209957,-0.472161574126634,0.680678408277789,232.583105241748,0.597896816384083,0.0,0.869946,0.038961,0.05228,14,1,46,2106,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1241,'14RG147',1522.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.481691150835528,-0.481691149752205,0.680678408277789,232.710072438508,0.598013509310617,0.0,0.869946,0.038961,0.05228,14,1,47,2107,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1242,'14RG148',1523.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.491829646652652,-0.491829645569329,0.680678408277789,232.836363659619,0.59812954636367,0.0,0.869946,0.038961,0.05228,14,1,48,2108,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1243,'14RG149',1524.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.502573238791297,-0.502573237707974,0.680678408277789,232.961924128837,0.598244879287852,0.0,0.869946,0.038961,0.05228,14,1,49,2109,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1244,'14RG150',1525.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.513917851453504,-0.51391785037018,0.680678408277789,233.086696980647,0.598359458042108,0.0,0.869946,0.038961,0.05228,14,1,50,2110,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1245,'14RG151',1526.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.525859147841399,-0.525859146758076,0.680678408277789,233.210623197677,0.598473230744291,0.0,0.869946,0.038961,0.05228,14,1,51,2111,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1246,'14RG152',1527.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.538392520814928,-0.538392519731605,0.680678408277789,233.333641558834,0.598586143618584,0.0,0.869946,0.038961,0.05228,14,1,52,2112,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1247,'14RG153',1528.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.551513083330048,-0.551513082246725,0.680678408277789,233.455688598864,0.598698140957954,0.0,0.869946,0.038961,0.05228,14,1,53,2113,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1248,'14RG154',1529.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.565215658710945,-0.565215657627622,0.680678408277789,233.57669857999,0.59880916509521,0.0,0.869946,0.038961,0.05228,14,1,54,2114,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1249,'14RG155',1530.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.579494770812315,-0.579494769728992,0.680678408277789,233.696603476288,0.598919156385555,0.0,0.869946,0.038961,0.05228,14,1,55,2115,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1250,'14RG156',1531.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.594344634130825,-0.594344633047502,0.680678408277789,233.815332971451,0.59902805320082,0.0,0.869946,0.038961,0.05228,14,1,56,2116,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1251,'14RG157',1532.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.609759143925783,-0.60975914284246,0.680678408277789,233.932814470551,0.599135791935902,0.0,0.869946,0.038961,0.05228,14,1,57,2117,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1252,'14RG158',1533.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.625731866413706,-0.625731865330383,0.680678408277789,234.048973126395,0.599242307027897,0.0,0.869946,0.038961,0.05228,14,1,58,2118,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1253,'14RG159',1534.0,805.0,0.11100440678,1.482977641184,1.482977641184,0.0,1.48297764031331,-0.642256029101415,-0.642256028018092,0.680678408277789,234.163731881023,0.599347530988383,0.0,0.869946,0.038961,0.05228,14,1,59,2119,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1254,'14RG201',1543.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.646922679593019,-0.646922678555367,0.680678408277789,234.279145697401,0.59945236626265,0.0,0.870507,0.038808,0.05227,14,2,1,2127,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1255,'14RG202',1544.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.631017227807275,-0.631017226769623,0.680678408277789,234.395934333142,0.599558076260373,0.0,0.870507,0.038808,0.05227,14,2,2,2128,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1256,'14RG203',1545.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.615672369864278,-0.61567236826626,0.680678408277789,234.514021532365,0.599664952453307,0.0,0.870507,0.038808,0.05227,14,2,3,2129,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1257,'14RG204',1546.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.600893838173352,-0.6008938371357,0.680678408277789,234.633333288751,0.599772924810868,0.0,0.870507,0.038808,0.05227,14,2,4,2130,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1258,'14RG205',1547.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.586686994758846,-0.586686993721194,0.680678408277789,234.753797872972,0.599881925476056,0.0,0.870507,0.038808,0.05227,14,2,5,2131,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1259,'14RG206',1548.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.57305684330111,-0.573056842263458,0.680678408277789,234.875345845254,0.599991888781763,0.0,0.870507,0.038808,0.05227,14,2,6,2132,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1260,'14RG207',1549.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.560008041216122,-0.56000804017847,0.680678408277789,234.997910053734,0.600102751253483,0.0,0.870507,0.038808,0.05227,14,2,7,2133,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1261,'14RG208',1550.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.547544911702382,-0.547544910664473,0.680678408277789,235.121425619343,0.600214451599131,0.0,0.870507,0.038808,0.05227,14,2,8,2134,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1262,'14RG209',1551.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.535671455687762,-0.53567145465011,0.680678408277789,235.245829907912,0.60032693068667,0.0,0.870507,0.038808,0.05227,14,2,9,2135,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1263,'14RG210',1552.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.524391363613099,-0.52439136257547,0.680678408277789,235.371062490272,0.600440131510291,0.0,0.870507,0.038808,0.05227,14,2,10,2136,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1264,'14RG211',1553.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.513708026993428,-0.513708025955776,0.680678408277789,235.49706509107,0.600553999145872,0.0,0.870507,0.038808,0.05227,14,2,11,2137,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1265,'14RG212',1554.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.503624549701805,-0.503624548664153,0.680678408277789,235.623781527068,0.600668480696458,0.0,0.870507,0.038808,0.05227,14,2,12,2138,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1266,'14RG213',1555.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.494143758925148,-0.494143757887496,0.680678408277789,235.751157635651,0.600783525228491,0.0,0.870507,0.038808,0.05227,14,2,13,2139,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1267,'14RG214',1556.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.485268215745158,-0.485268214707506,0.680678408277789,235.879141194296,0.600899083699502,0.0,0.870507,0.038808,0.05227,14,2,14,2140,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1268,'14RG215',1557.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.477000225301552,-0.4770002242639,0.680678408277789,236.00768183171,0.601015108877994,0.0,0.870507,0.038808,0.05227,14,2,15,2141,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1269,'14RG216',1558.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.469341846498715,-0.469341845461063,0.680678408277789,236.136730931346,0.601131555256188,0.0,0.870507,0.038808,0.05227,14,2,16,2142,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1270,'14RG217',1559.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.462294901220901,-0.462294900183249,0.680678408277789,236.26624152799,0.601248378956299,0.0,0.870507,0.038808,0.05227,14,2,17,2143,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1271,'14RG218',1560.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.455860983024074,-0.455860981986422,0.680678408277789,236.396168198016,0.601365537631017,0.0,0.870507,0.038808,0.05227,14,2,18,2144,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1272,'14RG219',1561.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.450041465276741,-0.450041464239089,0.680678408277789,236.526466944176,0.601482990358796,0.0,0.870507,0.038808,0.05227,14,2,19,2145,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1273,'14RG220',1562.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.444837508725122,-0.44483750768747,0.680678408277789,236.657095075169,0.601600697534557,0.0,0.870507,0.038808,0.05227,14,2,20,2146,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1274,'14RG221',1563.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.440250068461254,-0.440250067423602,0.680678408277789,236.788011080969,0.601718620756404,0.0,0.870507,0.038808,0.05227,14,2,21,2147,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1275,'14RG222',1564.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.436279900275686,-0.436279899238034,0.680678408277789,236.919174504266,0.601836722708892,0.0,0.870507,0.038808,0.05227,14,2,22,2148,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1276,'14RG223',1565.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.432927566379732,-0.43292756534208,0.680678408277789,237.050545808652,0.60195496704339,0.0,0.870507,0.038808,0.05227,14,2,23,2149,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1277,'14RG224',1566.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.430193440484423,-0.430193439446771,0.680678408277789,237.182086244085,0.602073318256048,0.0,0.870507,0.038808,0.05227,14,2,24,2150,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1278,'14RG225',1567.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.428077712226738,-0.428077711189086,0.680678408277789,237.313757710147,0.602191741563876,0.0,0.870507,0.038808,0.05227,14,2,25,2151,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1279,'14RG226',1568.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.426580390935847,-0.426580389898195,0.680678408277789,237.445522617608,0.602310202779392,0.0,0.870507,0.038808,0.05227,14,2,26,2152,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1280,'14RG227',1569.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.42570130873429,-0.425701307696638,0.680678408277789,237.577343748788,0.602428668184311,0.0,0.870507,0.038808,0.05227,14,2,27,2153,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1281,'14RG228',1570.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.425440122972496,-0.425440121934844,0.680678408277789,237.709184117194,0.602547104402719,0.0,0.870507,0.038808,0.05227,14,2,28,2154,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1282,'14RG229',1571.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.425796317995961,-0.425796316958309,0.680678408277789,237.841006826911,0.602665478274159,0.0,0.870507,0.038808,0.05227,14,2,29,2155,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1283,'14RG230',1572.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.42676920624789,-0.426769205210238,0.680678408277789,237.972774932196,0.602783756727057,0.0,0.870507,0.038808,0.05227,14,2,30,2156,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1284,'14RG231',1573.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.428357928711194,-0.428357927673542,0.680678408277789,238.10445129776,0.602901906652895,0.0,0.870507,0.038808,0.05227,14,2,31,2157,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1285,'14RG232',1574.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.430561454696765,-0.430561453659113,0.680678408277789,238.235999460173,0.603019894781556,0.0,0.870507,0.038808,0.05227,14,2,32,2158,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1286,'14RG233',1575.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.43337858098657,-0.433378579948918,0.680678408277789,238.367378490862,0.603137687558225,0.0,0.870507,0.038808,0.05227,14,2,33,2159,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1287,'14RG234',1576.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.436807930342163,-0.436807929304511,0.680678408277789,238.498552861163,0.603255251022263,0.0,0.870507,0.038808,0.05227,14,2,34,2160,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1288,'14RG235',1577.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.440847949391326,-0.440847948353674,0.680678408277789,238.629482309889,0.603372550688456,0.0,0.870507,0.038808,0.05227,14,2,35,2161,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1289,'14RG236',1578.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.445496905907952,-0.4454969048703,0.680678408277789,238.760126713889,0.603489551431046,0.0,0.870507,0.038808,0.05227,14,2,36,2162,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1290,'14RG237',1579.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.450752885501786,-0.450752884464134,0.680678408277789,238.890444962078,0.603606217370952,0.0,0.870507,0.038808,0.05227,14,2,37,2163,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1291,'14RG238',1580.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.456613787736593,-0.456613786698941,0.680678408277789,239.020394833433,0.603722511766601,0.0,0.870507,0.038808,0.05227,14,2,38,2164,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1292,'14RG239',1581.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.463077321698705,-0.463077320661053,0.680678408277789,239.149932879453,0.603838396908785,0.0,0.870507,0.038808,0.05227,14,2,39,2165,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1293,'14RG240',1582.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.47014100103808,-0.470141000000428,0.680678408277789,239.279014311594,0.60395383401999,0.0,0.870507,0.038808,0.05227,14,2,40,2166,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1294,'14RG241',1583.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.477802138507613,-0.477802137469961,0.680678408277789,239.407592894226,0.604068783158618,0.0,0.870507,0.038808,0.05227,14,2,41,2167,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1295,'14RG242',1584.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.486057840028316,-0.486057838990664,0.680678408277789,239.535620843625,0.604183203128558,0.0,0.870507,0.038808,0.05227,14,2,42,2168,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1296,'14RG243',1585.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.494904998309409,-0.494904997271757,0.680678408277789,239.663048733574,0.604297051394574,0.0,0.870507,0.038808,0.05227,14,2,43,2169,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1297,'14RG244',1586.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.504340286056099,-0.504340285018447,0.680678408277789,239.789825408136,0.604410284003948,0.0,0.870507,0.038808,0.05227,14,2,44,2170,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1298,'14RG245',1587.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.514360148798076,-0.514360147760424,0.680678408277789,239.915897902161,0.604522855514883,0.0,0.870507,0.038808,0.05227,14,2,45,2171,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1299,'14RG246',1588.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.524960797376856,-
0.524960796339204,0.680678408277789,240.041211370137,0.604634718932115,0.0,0.870507,0.038808,0.05227,14,2,46,2172,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1300,'14RG247',1589.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.536138200128562,-
0.536138199909091,0.680678408277789,240.165709023954,0.604745825650238,0.0,0.870507,0.038808,0.05227,14,2,47,2173,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1301,'14RG248',1590.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.547888074805734,-
0.547888073768082,0.680678408277789,240.289332080191,0.60485612540522,0.0,0.870507,0.038808,0.05227,14,2,48,2174,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1302,'14RG249',1591.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.56020588027927,-
0.560205879241618,0.680678408277789,240.412019717526,0.604965566234591,0.0,0.870507,0.038808,0.05227,14,2,49,2175,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1303,'14RG250',1592.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.573086808068304,-
0.573086807030652,0.680678408277789,240.53370904485,0.605074094446795,0.0,0.870507,0.038808,0.05227,14,2,50,2176,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1304,'14RG251',1593.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.586525773744626,-
0.586525772706974,0.680678408277789,240.654335080688,0.605181654600169,0.0,0.870507,0.038808,0.05227,14,2,51,2177,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1305,'14RG252',1594.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.600517408262413,-
0.600517407224761,0.680678408277789,240.773830744489,0.605288189492033,0.0,0.870507,0.038808,0.05227,14,2,52,2178,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1306,'14RG253',1595.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.615056049265675,-
0.61505604828023,0.680678408277789,240.892126860346,0.605393640158312,0.0,0.870507,0.038808,0.05227,14,2,53,2179,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1307,'14RG254',1596.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.630135732428279,-
0.630135731390627,0.680678408277789,241.009152173677,0.605497945884142,0.0,0.870507,0.038808,0.05227,14,2,54,2180,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1308,'14RG255',1597.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.645750182881784,-
0.645750181844132,0.680678408277789,241.124833381363,0.605601044225858,0.0,0.870507,0.038808,0.05227,14,2,55,2181,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1309,'14RG256',1598.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.661892806790341,-
0.66189280575269,0.680678408277789,241.239095175808,0.60570287104726,0.0,0.870507,0.038808,0.05227,14,2,56,2182,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1310,'14RG257',1599.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.678556683132442,-
0.67855668209479,0.680678408277789,241.351860303334,0.605803360552759,0.0,0.870507,0.038808,0.05227,14,2,57,2183,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1311,'14RG258',1600.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.695734555749148,-
0.695734554711496,0.680678408277789,241.463049637267,0.605902445370919,0.0,0.870507,0.038808,0.05227,14,2,58,2184,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1312,'14RG259',1601.0,805.0,0.11219559322,1.48202193323827,1.48202193323827,0.0,1.48202193236815,-0.713418825723892,-
0.71341882468624,0.680678408277789,241.572582266022,0.60600005659992,0.0,0.870507,0.038808,0.05227,14,2,59,2185,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1313,'15RG101',1611.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.624750887538359,-
0.62475088633226,1.12573736753634,241.690614778852,0.606100649027672,0.0,0.871061,0.038657,0.052264,15,1,1,2201,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1314,'15RG102',1612.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.607623200261201,-
0.607623199055102,1.12573736753634,241.810090566153,0.606205587909597,0.0,0.871061,0.038657,0.052264,15,1,2,2202,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1315,'15RG103',1613.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.591046268497703,-
0.591046267291604,1.12573736753634,241.930930038001,0.606311716306508,0.0,0.871061,0.038657,0.052264,15,1,3,2203,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1316,'15RG104',1614.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.575025889541471,-
0.575025888335372,1.12573736753634,242.053056055377,0.606418963307703,0.0,0.871061,0.038657,0.052264,15,1,4,2204,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1317,'15RG105',1615.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.559567489883686,-
0.559567488677587,1.12573736753634,242.176393972807,0.606527260301052,0.0,0.871061,0.038657,0.052264,15,1,5,2205,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1318,'15RG106',1616.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.544676137806035,-
0.544676136599936,1.12573736753634,242.300871665171,0.606636541001581,0.0,0.871061,0.038657,0.052264,15,1,6,2206,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1319,'15RG107',1617.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.530356556073804,-
0.530356554867705,1.12573736753634,242.426419539383,0.60674674146595,0.0,0.871061,0.038657,0.052264,15,1,7,2207,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1320,'15RG108',1618.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.516613134655769,-
0.51661313344967,1.12573736753634,242.552970531655,0.606857800093528,0.0,0.871061,0.038657,0.052264,15,1,8,2208,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1321,'15RG109',1619.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.503449943401214,-
0.503449942195115,1.12573736753634,242.680460091095,0.606969657614781,0.0,0.871061,0.038657,0.052264,15,1,9,2209,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1322,'15RG110',1620.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.490870744608982,-
0.490870743402883,1.12573736753634,242.808826150417,0.607082257067713,0.0,0.871061,0.038657,0.052264,15,1,10,2210,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1323,'15RG111',1621.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.478879005427123,-
0.478879004221024,1.12573736753634,242.938009084522,0.607195543763081,0.0,0.871061,0.038657,0.052264,15,1,11,2211,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1324,'15RG112',1622.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.467477910026033,-
0.46747790819934,1.12573736753634,243.067951657736,0.607309465239156,0.0,0.871061,0.038657,0.052264,15,1,12,2212,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1325,'15RG113',1623.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.456670371492143,-
0.456670370286044,1.12573736753634,243.198598960474,0.607423971206743,0.0,0.871061,0.038657,0.052264,15,1,13,2213,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1326,'15RG114',1624.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.44645904339353,-
0.446459042187431,1.12573736753634,243.329898336089,0.607539013485213,0.0,0.871061,0.038657,0.052264,15,1,14,2214,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1327,'15RG115',1625.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.436846330971923,-
0.436846329765824,1.12573736753634,243.461799298657,0.607654545930232,0.0,0.871061,0.038657,0.052264,15,1,15,2215,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1328,'15RG116',1626.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.427834401920804,-
0.427834400714705,1.12573736753634,243.594253442422,0.607770524353918,0.0,0.871061,0.038657,0.052264,15,1,16,2216,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1329,'15RG117',1627.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.419425196711805,-
0.419425195505706,1.12573736753634,243.727214343614,0.607886906438074,0.0,0.871061,0.038657,0.052264,15,1,17,2217,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1330,'15RG118',1628.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.411620438436102,-
0.411620437230003,1.12573736753634,243.860637455313,0.608003651641156,0.0,0.871061,0.038657,0.052264,15,1,18,2218,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1331,'15RG119',1629.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.404421642130436,-
0.404421640924337,1.12573736753634,243.994479996022,0.60812072109961,0.0,0.871061,0.038657,0.052264,15,1,19,2219,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1332,'15RG120',1630.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.397830123561248,-
0.397830122355149,1.12573736753634,244.128700832592,0.608238077524172,0.0,0.871061,0.038657,0.052264,15,1,20,2220,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1333,'15RG121',1631.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.391847007442954,-
0.391847006236855,1.12573736753634,244.263260358072,0.608355685091694,0.0,0.871061,0.038657,0.052264,15,1,21,2221,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1334,'15RG122',1632.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.386473235070126,-
0.386473233864027,1.12573736753634,244.398120365101,0.608473509333062,0.0,0.871061,0.038657,0.052264,15,1,22,2222,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1335,'15RG123',1633.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.381709571345474,-
0.381709570139375,1.12573736753634,244.533243915358,0.608591517017709,0.0,0.871061,0.038657,0.052264,15,1,23,2223,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1336,'15RG124',1634.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.377556611189034,-
0.377556609982935,1.12573736753634,244.668595205622,0.608709676035225,0.0,0.871061,0.038657,0.052264,15,1,24,2224,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1337,'15RG125',1635.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.374014785315757,-
0.374014784109658,1.12573736753634,244.804139430925,0.60882795527452,0.0,0.871061,0.038657,0.052264,15,1,25,2225,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1338,'15RG126',1636.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.371084365371643,-
0.371084364165544,1.12573736753634,244.93984264529,0.60894632450101,0.0,0.871061,0.038657,0.052264,15,1,26,2226,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1339,'15RG127',1637.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.368765468420824,-
0.368765467214725,1.12573736753634,245.07567162051,0.609064754232221,0.0,0.871061,0.038657,0.052264,15,1,27,2227,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1340,'15RG128',1638.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.367058060777721,-
0.367058059571622,1.12573736753634,245.211593703408,0.609183215612238,0.0,0.871061,0.038657,0.052264,15,1,28,2228,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1341,'15RG129',1639.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.365961961181404,-
0.365961959975305,1.12573736753634,245.347576672007,0.609301680285372,0.0,0.871061,0.038657,0.052264,15,1,29,2229,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1342,'15RG130',1640.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.365476843310175,-0.365476842104076,1.12573736753634,245.483588591013,0.609420120269426,0.0,0.871061,0.038657,0.052264,15,1,30,2230,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1343,'15RG131',1641.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.365602237636941,-0.365602236430842,1.12573736753634,245.619597667029,0.609538507828915,0.0,0.871061,0.038657,0.052264,15,1,31,2231,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1344,'15RG132',1642.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.366337532627837,-0.366337531421738,1.12573736753634,245.755572103884,0.609656815348586,0.0,0.871061,0.038657,0.052264,15,1,32,2232,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1345,'15RG133',1643.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.367681975288071,-0.367681974081972,1.12573736753634,245.891479958463,0.609775015207583,0.0,0.871061,0.038657,0.052264,15,1,33,2233,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1346,'15RG134',1644.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.369634671060594,-0.369634669854495,1.12573736753634,246.027288997436,0.609893079654593,0.0,0.871061,0.038657,0.052264,15,1,34,2234,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1347,'15RG135',1645.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.372194583085124,-0.372194581879025,1.12573736753634,246.162966555261,0.610010980684301,0.0,0.871061,0.038657,0.052264,15,1,35,2235,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1348,'15RG136',1646.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.375360530826738,-0.375360529620639,1.12573736753634,246.298479393861,0.610128689915478,0.0,0.871061,0.038657,0.052264,15,1,36,2236,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1349,'15RG137',1647.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.379131188084904,-0.37913118687880 5,1.12573736753634,246.433793564364,0.610246178471057,0.0,0.871061,0.038657,0.052264,15,1,37,2237,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1350,'15RG138',1648.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.383505080394967,-0.383505079188868,1.12573736753634,246.568874271314,0.610363416860509,0.0,0.871061,0.038657,0.052264,15,1,38,2238,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1351,'15RG139',1649.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.388480581836822,-0.388480580630723,1.12573736753634,246.70368573976,0.610480374864868,0.0,0.871061,0.038657,0.052264,15,1,39,2239,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1352,'15RG140',1650.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.394055911266334,-0.394055910060235,1.12573736753634,246.838191085663,0.610597021424756,0.0,0.871061,0.038657,0.052264,15,1,40,2240,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1353,'15RG141',1651.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.40022912798674,-0.400229126780641,1.12573736753634,246.972352190035,0.610713324531772,0.0,0.871061,0.038657,0.052264,15,1,41,2241,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1354,'15RG142',1652.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.40699812688021,-0.406998125674111,1.12573736753634,247.106129577297,0.610829251123591,0.0,0.871061,0.038657,0.052264,15,1,42,2242,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1355,'15RG143',1653.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.414360633019831,-0.414360631813732,1.12573736753634,247.239482298296,0.610944766983176,0.0,0.871061,0.038657,0.052264,15,1,43,2243,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1356,'15RG144',1654.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.422314195785829,-0.42231419457973,1.12573736753634,247.372367818498,0.611059836642474,0.0,0.871061,0.038657,0.052264,15,1,44,2244,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1357,'15RG145',1655.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.430856182510786,-0.430856181304687,1.12573736753634,247.504741911839,0.611174423291019,0.0,0.871061,0.038657,0.052264,15,1,45,2245,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1358,'15RG146',1656.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.439983771679805,-0.439983770473706,1.12573736753634,247.636558560777,0.611288488689836,0.0,0.871061,0.038657,0.052264,15,1,46,2246,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1359,'15RG147',1657.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.449693945717022,-0.449693944510923,1.12573736753634,247.767769863078,0.611401993091095,0.0,0.871061,0.038657,0.052264,15,1,47,2247,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1360,'15RG148',1658.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.459983483386152,-0.459983482180053,1.12573736753634,247.898325945892,0.611514895163945,0.0,0.871061,0.038657,0.052264,15,1,48,2248,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1361,'15RG149',1659.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.470848951842078,-0.470848950635979,1.12573736753634,248.028174887709,0.611627151926983,0.0,0.871061,0.038657,0.052264,15,1,49,2249,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1362,'15RG150',1660.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.482286698365242,-0.482286697159143,1.12573736753634,248.15726264876,0.61173871868782,0.0,0.871061,0.038657,0.052264,15,1,50,2250,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1363,'15RG151',1661.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.494292841819564,-0.494292840613465,1.12573736753634,248.28553301048,0.611849548990211,0.0,0.871061,0.038657,0.052264,15,1,51,2251,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1364,'15RG152',1662.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.506863263871323,-0.506863262665224,1.12573736753634,248.412927524636,0.611959594569232,0.0,0.871061,0.038657,0.052264,15,1,52,2252,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1365,'15RG153',1663.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.519993600012731,-0.519993598806632,1.12573736753634,248.539385472719,0.612068805314977,0.0,0.871061,0.038657,0.052264,15,1,53,2253,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1366,'15RG154',1664.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.533679230433676,-0.533679229227577,1.12573736753634,248.664843836231,0.612177129245248,0.0,0.871061,0.038657,0.052264,15,1,54,2254,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1367,'15RG155',1665.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.547915270788869,-0.54791526958277,1.12573736753634,248.789237278461,0.6122845124877 3,0.0,0.871061,0.038657,0.052264,15,1,55,2255,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1368,'15RG156',1666.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.562696562908612,-0.562696561702513,1.12573736753634,248.912498138349,0.612390899272092,0.0,0.871061,0.038657,0.052264,15,1,56,2256,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1369,'15RG157',1667.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.578017665504666,-0.578017664298567,1.12573736753634,249.034556437023,0.612496231932492,0.0,0.871061,0.038657,0.052264,15,1,57,2257,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1370,'15RG158',1668.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.593872844923765,-0.593872843717666,1.12573736753634,249.155339897567,0.612600450920907,0.0,0.871061,0.038657,0.052264,15,1,58,2258,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1371,'15RG159',1669.0,805.0,0.113483728814,1.47325702527544,1.47325702527544,0.0,1.47325702441046,-0.610256066004118,-0.61025606479 8019,1.12573736753634,249.274773978545,0.612703494831703,0.0,0.871061,0.038657,0.052264,15,1,59,2259,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1372,'15RG201',1678.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.677228014016931,-0.67722801288417,1.12573736753634,249.389445158616,0.612803870096249,0.0,0.871571,0.038517,0.052261,15,2,1,2267,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1373,'15RG202',1679.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.65973064701502,-0.659730645882259,1.12573736753634,249.505714635379,0.612902843350319,0.0,0.871571,0.038517,0.052261,15,2,2,2268,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1374,'15RG203',1680.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.642747563784501,-0.64274756265174,1.12573736753634,249.623501573012,0.613003106190076,0.0,0.871571,0.038517,0.052261,15,2,3,2269,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1375,'15RG204',1681.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.626285043845221,-0.62628504271246,1.12573736753634,249.742727216841,0.613104588495882,0.0,0.871571,0.038517,0.052261,15,2,4,2270,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1376,'15RG205',1682.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.610349002820715,-0.610349001687954,1.12573736753634,249.863314964055,0.613207222066071,0.0,0.871571,0.038517,0.052261,15,2,5,2271,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1377,'15RG206',1683.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.594945002942576,-0.594945001809815,1.12573736753634,249.985190419204,0.613310940670316,0.0,0.871571,0.038517,0.052261,15,2,6,2272,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1378,'15RG207',1684.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.580078263790323,-0.580078262657562,1.12573736753634,250.108281434976,0.613415680089689,0.0,0.871571,0.038517,0.052261,15,2,7,2273,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1379,'15RG208',1685.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.565753673197409,-0.565753672064648,1.12573736753634,250.232518138781,0.613521378143909,0.0,0.871571,0.038517,0.052261,15,2,8,2274,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1380,'15RG209',1686.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.551975798256915,-0.551975797124154,1.12573736753634,250.35783294574,0.61362797470633,0.0,0.871571,0.038517,0.052261,15,2,9,2275,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1381,'15RG210',1687.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.538748896363717,-0.538748895230956,1.12573736753634,250.484160558674,0.61373541170722,0.0,0.871571,0.038517,0.052261,15,2,10,2276,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1382,'15RG211',1688.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.526076926233042,-0.526076925100281,1.12573736753634,250.611437955748,0.613843633125936,0.0,0.871571,0.038517,0.052261,15,2,11,2277,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1383,'15RG212',1689.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.5139635588387,-0.513963557705939,1.12573736753634,250.739604366412,0.613952584972595,0.0,0.871571,0.038517,0.052261,15,2,12,2278,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1384,'15RG213',1690.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.502412188217629,-0.502412187084868,1.12573736753634,250.868601236316,0.614062215259867,0.0,0.871571,0.038517,0.052261,15,2,13,2279,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1385,'15RG214',1691.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.491425942091073,-0.491425940958312,1.12573736753634,250.998372181853,0.614172473965501,0.0,0.871571,0.038517,0.052261,15,2,14,2280,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1386,'15RG215',1692.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.481007692255641,-0.48100769112288,1.12573736753634,251.128862935028,0.614283312986214,0.0,0.871571,0.038517,0.052261,15,2,15,2281,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1387,'15RG216',1693.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.47116006470144,-0.471160063568679,1.12573736753634,251.260021279281,0.614394686083562,0.0,0.871571,0.038517,0.052261,15,2,16,2282,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1388,'15RG217',1694.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.461885449417291,-0.46188544828453,1.12573736753634,251.391796976951,0.61450654882238,0.0,0.871571,0.038517,0.052261,15,2,17,2283,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1389,'15RG218',1695.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.453186009846948,-0.453186008714187,1.12573736753634,251.524141689003,0.614618858502414,0.0,0.871571,0.038517,0.052261,15,2,18,2284,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1390,'15RG219',1696.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.445063691962555,-0.445063690829794,1.12573736753634,251.657008887651,0.614731574083702,0.0,0.871571,0.038517,0.052261,15,2,19,2285,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1391,'15RG220',1697.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.437520232925582,-0.437520231792821,1.12573736753634,251.790353762482,0.614844656106267,0.0,0.871571,0.038517,0.052261,15,2,20,2286,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1392,'15RG221',1698.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.430557169307743,-0.430557168174982,1.12573736753634,251.924133120684,0.61495806660468,0.0,0.871571,0.038517,0.052261,15,2,21,2287,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1393,'15RG222',1699.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.42417584484777,-0.424175843715009,1.12573736753634,252.058305281917,0.615071769017998,0.0,0.871571,0.038517,0.052261,15,2,22,2288,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1394,'15RG223',1700.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.418377417722222,-0.418377416589461,1.12573736753634,252.19282996841,0.615185728095592,0.0,0.871571,0.038517,0.052261,15,2,23,2289,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1395,'15RG224',1701.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.413162867311488,-0.413162866178727,1.12573736753634,252.327668190781,0.615299909799334,0.0,0.871571,0.038517,0.052261,15,2,24,2290,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1396,'15RG225',1702.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.408533000444716,-0.408532999311955,1.12573736753634,252.462782130104,0.615414281202619,0.0,0.871571,0.038517,0.052261,15,2,25,2291,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1397,'15RG226',1703.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.404488457108971,-0.404488457597621,1.12573736753634,252.598135016704,0.615528810386645,0.0,0.871571,0.038517,0.052261,15,2,26,2292,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1398,'15RG227',1704.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.401029715611724,-0.401029714478963,1.12573736753634,252.733691006133,0.615643466334384,0.0,0.871571,0.038517,0.052261,15,2,27,2293,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1399,'15RG228',1705.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.398157097186246,-0.398157096053485,1.12573736753634,252.869415052798,0.615758218822645,0.0,0.871571,0.038517,0.052261,15,2,28,2294,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1400,'15RG229',1706.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.395870770032612,-0.395870768899851,1.12573736753634,253.005272781653,0.61587303832603,0.0,0.871571,0.038517,0.052261,15,2,29,2295,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1401,'15RG230',1707.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.394170752789069,-0.394170751656308,1.12573736753634,253.141230358378,0.615987895839178,0.0,0.871571,0.038517,0.052261,15,2,30,2296,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1402,'15RG231',1708.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.393056917429287,-0.393056916296526,1.12573736753634,253.27725435845,0.616102762899608,0.0,0.871571,0.038517,0.052261,15,2,31,2297,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1403,'15RG232',1709.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.39252899158453,-0.392528990451769,1.12573736753634,253.413311635498,0.616217611341564,0.0,0.871571,0.038517,0.052261,15,2,32,2298,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1404,'15RG233',1710.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.392586560289654,-0.392586559156893,1.12573736753634,253.549369189316,0.616332413251134,0.0,0.871571,0.038517,0.052261,15,2,33,2299,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1405,'15RG234',1711.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.393229067154766,-0.393229066022005,1.12573736753634,253.685394033922,0.616447140841,0.0,0.871571,0.038517,0.052261,15,2,34,2300,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1406,'15RG235',1712.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.394455814966288,-0.394455813833527,1.12573736753634,253.821353066034,0.61656176633913,0.0,0.871571,0.038517,0.052261,15,2,35,2301,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1407,'15RG236',1713.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.396265965720662,-0.396265964587901,1.12573736753634,253.957212934315,0.61667626187828,0.0,0.871571,0.038517,0.052261,15,2,36,2302,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1408,'15RG237',1714.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.398658540098605,-0.398658538965844,1.12573736753634,254.092939909784,0.616790599386632,0.0,0.871571,0.038517,0.052261,15,2,37,2303,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1409,'15RG238',1715.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.401632416386537,-0.401632415253776,1.12573736753634,254.228499757732,0.616904750479856,0.0,0.871571,0.038517,0.052261,15,2,38,2304,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1410,'15RG239',1716.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.405186328854664,-0.405186327721903,1.12573736753634,254.363857611546,0.617018686354918,0.0,0.871571,0.038517,0.052261,15,2,39,2305,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1411,'15RG240',1717.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.409318865603072,-0.409318864470311,1.12573736753634,254.498977848798,0.617132377685922,0.0,0.871571,0.038517,0.052261,15,2,40,2306,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1412,'15RG241',1718.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.414028465887721,-0.41402846475496,1.12573736753634,254.633823970004,0.617245794522323,0.0,0.871571,0.038517,0.052261,15,2,41,2307,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1413,'15RG242',1719.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.419313416940287,-0.419313415807526,1.12573736753634,254.768358480434,0.617358906189798,0.0,0.871571,0.038517,0.052261,15,2,42,2308,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1414,'15RG243',1720.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.425171850297186,-0.425171849164425,1.12573736753634,254.902542775397,0.617471681194129,0.0,0.871571,0.038517,0.052261,15,2,43,2309,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1415,'15RG244',1721.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.431601737655174,-0.431601736522413,1.12573736753634,255.036337029405,0.617584087128392,0.0,0.871571,0.038517,0.052261,15,2,44,2310,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1416,'15RG245',1722.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.43860088627164,-0.438600885138879,1.12573736753634,255.169700089653,0.617696090583822,0.0,0.871571,0.038517,0.052261,15,2,45,2311,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1417,'15RG246',1723.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.446166933930772,-0.446166932798011,1.12573736753634,255.302589374263,0.617807657064679,0.0,0.871571,0.038517,0.052261,15,2,46,2312,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1418,'15RG247',1724.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.454297343495977,-0.454297342363216,1.12573736753634,255.434960775743,0.617918750907481,0.0,0.871571,0.038517,0.052261,15,2,47,2313,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1419,'15RG248',1725.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.46298939707427,-0.462989395941509,1.12573736753634,255.566768570143,0.618029335204957,0.0,0.871571,0.038517,0.052261,15,2,48,2314,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1420,'15RG249',1726.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.472240189816144,-0.472240188683383,1.12573736753634,255.697965332376,0.618139371735106,0.0,0.871571,0.038517,0.052261,15,2,49,2315,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1421,'15RG250',1727.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.482046623379535,-0.482046622246774,1.12573736753634,255.828501858225,0.618248820895734,0.0,0.871571,0.038517,0.052261,15,2,50,2316,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1422,'15RG251',1728.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.492405399086333,-0.492405397953572,1.12573736753634,255.958327093515,0.618357641644862,0.0,0.871571,0.038517,0.052261,15,2,51,2317,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1423,'15RG252',1729.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.503313010802688,-0.503313009669927,1.12573736753634,256.087388070997,0.618465791447396,0.0,0.871571,0.038517,0.052261,15,2,52,2318,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1424,'15RG253',1730.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.514765737575057,-0.514765736442296,1.12573736753634,256.215629855451,0.618573226228467,0.0,0.871571,0.038517,0.052261,15,2,53,2319,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1425,'15RG254',1731.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.526759636058319,-0.526759634925558,1.12573736753634,256.342995497537,0.618679900333833,0.0,0.871571,0.038517,0.052261,15,2,54,2320,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1426,'15RG255',1732.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.539290532770575,-0.539290531637814,1.12573736753634,256.469425996943,0.618785766497761,0.0,0.871571,0.038517,0.052261,15,2,55,2321,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1427,'15RG256',1733.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.552354016214767,-0.552354015082006,1.12573736753634,256.59486027534,0.618890775818778,0.0,0.871571,0.038517,0.052261,15,2,56,2322,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1428,'15RG257',1734.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.565945428906555,-0.565945427773794,1.12573736753634,256.719235159683,0.618994877743695,0.0,0.871571,0.038517,0.052261,15,2,57,2323,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1429,'15RG258',1735.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.580059859350189,-0.580059858217428,1.12573736753634,256.842485376365,0.619098020060296,0.0,0.871571,0.038517,0.052261,15,2,58,2324,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1430,'15RG259',1736.0,805.0,0.114751525424,1.47239494853942,1.47239494853942,0.0,1.47239494767495,-0.594692134007953,-0.594692132875192,1.12573736753634,256.964543556729,0.619200148899064,0.0,0.871571,0.038517,0.052261,15,2,59,2325,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1431,'16RG101',1746.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.702228867447055,-0.70222886645339,1.53588974175501,257.077424691263,0.619297915565113,0.0,0.872064,0.038383,0.052256,16,1,1,2339,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1432,'16RG102',1747.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.686411037867102,-0.686411036873437,1.53588974175501,257.191804780588,0.619392445025609,0.0,0.872064,0.038383,0.052256,16,1,2,2340,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1433,'16RG103',1748.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.671078774029702,-0.671078773036037,1.53588974175501,257.30761066522,0.619488148888091,0.0,0.872064,0.038383,0.052256,16,1,3,2341,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1434,'16RG104',1749.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.656237738517212,-0.656237737523547,1.53588974175501,257.424770905004,0.6195849654869,0.0,0.872064,0.038383,0.052256,16,1,4,2342,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1435,'16RG105',1750.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.641893277211682,-0.641893276218017,1.53588974175501,257.543215830612,0.61968283469662,0.0,0.872064,0.038383,0.052256,16,1,5,2343,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1436,'16RG106',1751.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.628050427635731,-0.628050426642066,1.53588974175501,257.662877582836,0.619781697969438,0.0,0.872064,0.038383,0.052256,16,1,6,2344,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1437,'16RG107',1752.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.614713927454243,-0.614713926460578,1.53588974175501,257.78369014007,0.619881498362174,0.0,0.872064,0.038383,0.052256,16,1,7,2345,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1438,'16RG108',1753.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.60188822308358,-0.601888222089915,1.53588974175501,257.905589334406,0.619982180553351,0.0,0.872064,0.038383,0.052256,16,1,8,2346,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1439,'16RG109',1754.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.589577478357423,-0.589577477363758,1.53588974175501,258.028512856793,0.620083690850718,0.0,0.872064,0.038383,0.052256,16,1,9,2347,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1440,'16RG110',1755.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.577785583200426,-0.577785582206761,1.53588974175501,258.152400251741,0.620185977189645,0.0,0.872064,0.038383,0.052256,16,1,10,2348,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1441,'16RG111',1756.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.566516162263677,-0.566516161270012,1.53588974175501,258.277192902065,0.62028898912286,0.0,0.872064,0.038383,0.052256,16,1,11,2349,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1442,'16RG112',1757.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.555772583477921,-0.555772582484256,1.53588974175501,258.402834004184,0.620392677801952,0.0,0.872064,0.038383,0.052256,16,1,12,2350,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1443,'16RG113',1758.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.54555796648351,-0.545557965489845,1.53588974175501,258.529268534487,0.620496995951152,0.0,0.872064,0.038383,0.052256,16,1,13,2351,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1444,'16RG114',1759.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.535875190898398,-0.535875189904733,1.53588974175501,258.656443207309,0.620601897833823,0.0,0.872064,0.038383,0.052256,16,1,14,2352,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1445,'16RG115',1760.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.526726904387967,-0.526726903394302,1.53588974175501,258.784306425019,0.620707339212161,0.0,0.872064,0.038383,0.052256,16,1,15,2353,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1446,'16RG116',1761.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.518115530503283,-0.518115529509618,1.53588974175501,258.912808220778,0.620813277300562,0.0,0.872064,0.038383,0.052256,16,1,16,2354,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1447,'16RG117',1762.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.510043276256776,-0.510043275263111,1.53588974175501,259.041900194446,0.620919670713132,0.0,0.872064,0.038383,0.052256,16,1,17,2355,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1448,'16RG118',1763.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.502512139406565,-0.5025121384129,1.53588974175501,259.171535442202,0.621026479405788,0.0,0.872064,0.038383,0.052256,16,1,18,2356,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1449,'16RG119',1764.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.49552391542377,-0.495523914430105,1.53588974175501,259.301668480326,0.62113366461341,0.0,0.872064,0.038383,0.052256,16,1,19,2357,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1450,'16RG120',1765.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.489080204118611,-0.489080203124946,1.53588974175501,259.43225516369,0.621241188782488,0.0,0.872064,0.038383,0.052256,16,1,20,2358,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1451,'16RG121',1766.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.483182415904277,-0.483182414910612,1.53588974175501,259.563252599398,0.621349015499652,0.0,0.872064,0.038383,0.052256,16,1,21,2359,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1452,'16RG122',1767.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.477831777679188,-0.477831776685523,1.53588974175501,259.69461905607,0.621457109416579,0.0,0.872064,0.038383,0.052256,16,1,22,2360,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1453,'16RG123',1768.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.473029338310663,-0.473029337316998,1.53588974175501,259.826313869219,0.621565436171604,0.0,0.872064,0.038383,0.052256,16,1,23,2361,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1454,'16RG124',1769.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.46877597370528,-0.468775972711615,1.53588974175501,259.958297343158,0.621673962308461,0.0,0.872064,0.038383,0.052256,16,1,24,2362,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1455,'16RG125',1770.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.465072391452647,-0.465072390458982,1.53588974175501,260.090530649885,0.621782655192531,0.0,0.872064,0.038383,0.052256,16,1,25,2363,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1456,'16RG126',1771.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.46191913503198,-0.461919134038315,1.53588974175501,260.222975725346,0.621891482924955,0.0,0.872064,0.038383,0.052256,16,1,26,2364,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1457,'16RG127',1772.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.459316587572469,-0.459316586578804,1.53588974175501,260.355595163492,0.622000414254964,0.0,0.872064,0.038383,0.052256,16,1,27,2365,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1458,'16RG128',1773.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.457264975159549,-0.457264974165884,1.53588974175501,260.488352108529,0.622109418490771,0.0,0.872064,0.038383,0.052256,16,1,28,2366,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1459,'16RG129',1774.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.455764369682238,-0.455764368688573,1.53588974175501,260.621210145735,0.622218465409357,0.0,0.872064,0.038383,0.052256,16,1,29,2367,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1460,'16RG130',1775.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.454814691217439,-0.454814690223774,1.53588974175501,260.754133191235,0.622327525165462,0.0,0.872064,0.038383,0.052256,16,1,30,2368,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1461,'16RG131',1776.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.454415709948459,-0.454415708954794,1.53588974175501,260.887085381093,0.622436568200102,0.0,0.872064,0.038383,0.052256,16,1,31,2369,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1462,'16RG132',1777.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.454567047617903,-0.454567046624238,1.53588974175501,261.020030960084,0.622545565148914,0.0,0.872064,0.038383,0.052256,16,1,32,2370,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1463,'16RG133',1778.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.455268178515122,-0.455268177521457,1.53588974175501,261.152934170512,0.622654486750627,0.0,0.872064,0.038383,0.052256,16,1,33,2371,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1464,'16RG134',1779.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.456518430000801,-0.456518429007136,1.53588974175501,261.285759141424,0.622763303755943,0.0,0.872064,0.038383,0.052256,16,1,34,2372,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1465,'16RG135',1780.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.458316982572352,-0.458316981578687,1.53588974175501,261.418469778565,0.622871986837129,0.0,0.872064,0.038383,0.052256,16,1,35,2373,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1466,'16RG136',1781.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.46066286947553,-0.460662868481865,1.53588974175501,261.551029655444,0.622980506498599,0.0,0.872064,0.038383,0.052256,16,1,36,2374,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1467,'16RG137',1782.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.463554975868586,-0.463554974874921,1.53588974175501,261.68340190584,0.623088832988763,0.0,0.872064,0.038383,0.052256,16,1,37,2375,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1468,'16RG138',1783.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.466992037547289,-0.466992036553624,1.53588974175501,261.815549118127,0.623196936213443,0.0,0.872064,0.038383,0.052256,16,1,38,2376,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1469,'16RG139',1784.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.470972639240027,-0.470972638246362,1.53588974175501,261.947433231757,0.623304785651113,0.0,0.872064,0.038383,0.052256,16,1,39,2377,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1470,'16RG140',1785.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.47549521248371,-0.475495211490045,1.53588974175501,262.079015436267,0.623412350270274,0.0,0.872064,0.038383,0.052256,16,1,40,2378,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1471,'16RG141',1786.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.480558033092957,-0.48055803209929,1.53588974175501,262.21025607319,0.623519598449234,0.0,0.872064,0.038383,0.052256,16,1,41,2379,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1472,'16RG142',1787.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.486159218235929,-0.486159217242264,1.53588974175501,262.341114541224,0.62362649789858,0.0,0.872064,0.038383,0.052256,16,1,42,2380,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1473,'16RG143',1788.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.492296723131726,-0.492296722138061,1.53588974175501,262.471549205049,0.623733015586648,0.0,0.872064,0.038383,0.052256,16,1,43,2381,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1474,'16RG144',1789.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.498968337385807,-0.498968336392142,1.53588974175501,262.601517308184,0.623839117668274,0.0,0.872064,0.038383,0.052256,16,1,44,2382,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1475,'16RG145',1790.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.506171680981676,-0.506171679988011,1.53588974175501,262.730974890264,0.623944769417133,0.0,0.872064,0.038383,0.052256,16,1,45,2383,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1476,'16RG146',1791.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.513904199947081,-0.513904198953416,1.53588974175501,262.85987670915,0.624049935161962,0.0,0.872064,0.038383,0.052256,16,1,46,2384,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1477,'16RG147',1792.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.522163161716559,-0.522163160722894,1.53588974175501,262.988176168272,0.62415457822699,0.0,0.872064,0.038383,0.052256,16,1,47,2385,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1478,'16RG148',1793.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.530945650211979,-0.530945649218314,1.53588974175501,263.115825249626,0.624258660876865,0.0,0.872064,0.038383,0.052256,16,1,48,2386,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1479,'16RG149',1794.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.54024856066422,-0.540248559670555,1.53588974175501,263.242774452837,0.624362144266413,0.0,0.872064,0.038383,0.052256,16,1,49,2387,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1480,'16RG150',1795.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.550068594202361,-0.550068593208696,1.53588974175501,263.368972740715,0.624464988395526,0.0,0.872064,0.038383,0.052256,16,1,50,2388,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1481,'16RG151',1796.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.560402252235899,-0.560402251242234,1.53588974175501,263.49436749173,0.624567152069515,0.0,0.872064,0.038383,0.052256,16,1,51,2389,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1482,'16RG152',1797.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.5712458306586,-0.571245829664935,1.53588974175501,263.618904459827,0.624668592865228,0.0,0.872064,0.038383,0.052256,16,1,52,2390,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1483,'16RG153',1798.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.582595413903415,-0.58259541290975,1.53588974175501,263.742527742012,0.624769267103259,0.0,0.872064,0.038383,0.052256,16,1,53,2391,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1484,'16RG154',1799.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.594446868879561,-0.594446867885896,1.53588974175501,263.865179754123,0.624869129826549,0.0,0.872064,0.038383,0.052256,16,1,54,2392,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1485,'16RG155',1800.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.606795838823881,-0.606795837830216,1.53588974175501,263.986801215205,0.624968134785697,0.0,0.872064,0.038383,0.052256,16,1,55,2393,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1486,'16RG156',1801.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.619637737101275,-0.61963773610761,1.53588974175501,264.107331140879,0.625066234431269,0.0,0.872064,0.038383,0.052256,16,1,56,2394,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1487,'16RG157',1802.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.632967740987563,-0.632967739993898,1.53588974175501,264.226706846114,0.625163379913385,0.0,0.872064,0.038383,0.052256,16,1,57,2395,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1488,'16RG158',1803.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.646780785473385,-0.64678078447972,1.53588974175501,264.34486395775,0.625259521088877,0.0,0.872064,0.038383,0.052256,16,1,58,2396,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1489,'16RG159',1804.0,805.0,0.115905423729,1.46394222776029,1.46394222776029,0.0,1.46394222690078,-0.661071557124937,-0.661071556131272,1.53588974175501,264.46173643713,0.625354606536251,0.0,0.872064,0.038383,0.052256,16,1,59,2397,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1490,'16RG201',1813.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.684465621553626,-0.684465620628963,1.53588974175501,264.577369045108,0.625448629034943,0.0,0.872535,0.038255,0.052252,16,2,1,2405,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1491,'16RG202',1814.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.670711401269058,-0.670711400344395,1.53588974175501,264.694290986871,0.625542630161145,0.0,0.872535,0.038255,0.052252,16,2,2,2406,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1492,'16RG203',1815.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.657434388000452,-0.65743438707 5789,1.53588974175501,264.812436709941,0.625637605093975,0.0,0.872535,0.038255,0.052252,16,2,3,2407,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1493,'16RG204',1816.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.644639195974692,-0.644639195050029,1.53588974175501,264.931742261575,0.625733500219813,0.0,0.872535,0.038255,0.052252,16,2,4,2408,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1494,'16RG205',1817.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.632330167488613,-0.6323301 6656395,1.53588974175501,265.052145307195,0.625830263306003,0.0,0.872535,0.038255,0.052252,16,2,5,2409,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1495,'16RG206',1818.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.620511380241746,-0.620511379317083,1.53588974175501,265.173585139018,0.625927843510965,0.0,0.872535,0.038255,0.052252,16,2,6,2410,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1496,'16RG207',1819.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.609186654695266,-0.609186653770603,1.53588974175501,265.296002675327,0.626026191386348,0.0,0.872535,0.038255,0.052252,16,2,7,2411,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1497,'16RG208',1820.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.598359561416965,-0.598359560492302,1.53588974175501,265.419340450754,0.626125258871591,0.0,0.872535,0.038255,0.052252,16,2,8,2412,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1498,'16RG209',1821.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.588033428374205,-0.588033427449542,1.53588974175501,265.543542598038,0.626224999281253,0.0,0.872535,0.038255,0.052252,16,2,9,2413,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1499,'16RG210',1822.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.578211348138803,-0.57821134721414,1.53588974175501,265.66855482167,0.62632536728551,0.0,0.872535,0.038255,0.052252,16,2,10,2414,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1500,'16RG211',1823.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.56889618496996,-0.568896184045297,1.53588974175501,265.79432436389,0.626426318884195,0.0,0.872535,0.038255,0.052252,16,2,11,2415,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1501,'16RG212',1824.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.560090581743276,-0.560090580818613,1.53588974175501,265.920799963478,0.626527811374787,0.0,0.872535,0.038255,0.052252,16,2,12,2416,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1502,'16RG213',1825.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.551796966696203,-0.55179696577154,1.53588974175501,266.047931807799,0.62662980314736,0.0,0.872535,0.038255,0.052252,16,2,13,2417,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1503,'16RG214',1826.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.544017559962436,-0.544017559037773,1.53588974175501,266.17567147855,0.626732254478516,0.0,0.872535,0.038255,0.052252,16,2,14,2418,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1504,'16RG215',1827.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.536754379869366,-0.536754378944703,1.53588974175501,266.303971891651,0.62683512580981,0.0,0.872535,0.038255,0.052252,16,2,15,2419,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1505,'16RG216',1828.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.530009248975526,-0.530009248050863,1.53588974175501,266.432787231745,0.626938379369186,0.0,0.872535,0.038255,0.052252,16,2,16,2420,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1506,'16RG217',1829.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.523783799826235,-0.523783798901572,1.53588974175501,266.562072881721,0.627041978277672,0.0,0.872535,0.038255,0.052252,16,2,17,2421,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1507,'16RG218',1830.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.518079480408142,-0.518079479483479,1.53588974175501,266.691785347705,0.627145886656576,0.0,0.872535,0.038255,0.052252,16,2,18,2422,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1508,'16RG219',1831.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.512897559285095,-0.512897558360432,1.53588974175501,266.821882179934,0.627250069563931,0.0,0.872535,0.038255,0.052252,16,2,19,2423,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1509,'16RG220',1832.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.508239130399469,-0.508239129474806,1.53588974175501,266.952321889938,0.62735449292791,0.0,0.872535,0.038255,0.052252,16,2,20,2424,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1510,'16RG221',1833.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.504105117525457,-0.504105116600794,1.53588974175501,267.083063864411,0.627459123477555,0.0,0.872535,0.038255,0.052252,16,2,21,2425,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1511,'16RG222',1834.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.500496278361732,-0.500496277437069,1.53588974175501,267.214068276188,0.627563928671165,0.0,0.872535,0.038255,0.052252,16,2,22,2426,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1512,'16RG223',1835.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.49741320825372,-0.49741320732 9057,1.53588974175501,267.345295992704,0.627668876622655,0.0,0.872535,0.038255,0.052252,16,2,23,2427,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1513,'16RG224',1836.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.49485634353608,-0.494856342611417,1.53588974175501,267.476708482308,0.627773936026216,0.0,0.872535,0.038255,0.052252,16,2,24,2428,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1514,'16RG225',1837.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.492825964488903,-0.49282596356424,1.53588974175501,267.608267718807,0.627879076079571,0.0,0.872535,0.038255,0.052252,16,2,25,2429,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1515,'16RG226',1838.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.49132219790169,-0.491322196977027,1.53588974175501,267.739936084595,0.627984266406143,0.0,0.872535,0.038255,0.052252,16,2,26,2430,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1516,'16RG227',1839.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.490345019241134,-0.490345018316471,1.53588974175501,267.871676272724,0.628089476976412,0.0,0.872535,0.038255,0.052252,16,2,27,2431,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1517,'16RG228',1840.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.48989425442023,-0.48989425349557,1.53588974175501,268.00345118826,0.62819467802875,0.0,0.872535,0.038255,0.052252,16,2,28,2432,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1518,'16RG229',1841.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.489969581167545,-0.489969580242882,1.53588974175501,268.135223849272,0.628299839990024,0.0,0.872535,0.038255,0.052252,16,2,29,2433,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1519,'16RG230',1842.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.49057052999674,-0.490570529072077,1.53588974175501,268.26695728779,0.628404933396225,0.0,0.872535,0.038255,0.052252,16,2,30,2434,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1520,'16RG231',1843.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.491696484778162,-0.491696483853499,1.53588974175501,268.398614451059,0.628509928813403,0.0,0.872535,0.038255,0.052252,16,2,31,2435,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1521,'16RG232',1844.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.493346682914998,-0.493346681990335,1.53588974175501,268.530158103437,0.62861479675916,0.0,0.872535,0.038255,0.052252,16,2,32,2436,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1522,'16RG233',1845.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.495520215129035,-0.495520214204372,1.53588974175501,268.661550729253,0.62871950762499,0.0,0.872535,0.038255,0.052252,16,2,33,2437,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1523,'16RG234',1846.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.498216024860563,-0.4982160239359,1.53588974175501,268.792754436971,0.628824031599689,0.0,0.872535,0.038255,0.052252,16,2,34,2438,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1524,'16RG235',1847.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.50143290729004,-0.501432906365377,1.53588974175501,268.923730864978,0.628928338594129,0.0,0.872535,0.038255,0.052252,16,2,35,2439,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1525,'16RG236',1848.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.505169507989004,-0.505169507064341,1.53588974175501,269.054441089348,0.629032398167626,0.0,0.872535,0.038255,0.052252,16,2,36,2440,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1526,'16RG237',1849.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.509424321209908,-0.509424320285245,1.53588974175501,269.184845533895,0.629136179456187,0.0,0.872535,0.038255,0.052252,16,2,37,2441,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1527,'16RG238',1850.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.514195687825259,-0.514195686900596,1.53588974175501,269.314903882882,0.629239651102868,0.0,0.872535,0.038255,0.052252,16,2,38,2442,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1528,'16RG239',1851.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.519481792927978,-0.519481792003315,1.53588974175501,269.44457499671,0.629342781190526,0.0,0.872535,0.038255,0.052252,16,2,39,2443,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1529,'16RG240',1852.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.525280663106097,-0.525280662181434,1.53588974175501,269.573816830938,0.629445537177212,0.0,0.872535,0.038255,0.052252,16,2,40,2444,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1530,'16RG241',1853.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.531590163405754,-0.531590162481091,1.53588974175501,269.702586358999,0.629547885834479,0.0,0.872535,0.038255,0.052252,16,2,41,2445,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1531,'16RG242',1854.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.538407993998726,-0.538407993074063,1.53588974175501,269.830839498949,0.629649793188856,0.0,0.872535,0.038255,0.052252,16,2,42,2446,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1532,'16RG243',1855.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.545731686570535,-0.545731685645872,1.53588974175501,269.958531044623,0.629751224466778,0.0,0.872535,0.038255,0.052252,16,2,43,2447,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1533,'16RG244',1856.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.553558600448193,-0.55355859952353,1.53588974175501,270.085614601561,0.629852144043216,0.0,0.872535,0.038255,0.052252,16,2,44,2448,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1534,'16RG245',1857.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.561885918485958,-0.561885917561295,1.53588974175501,270.212042528065,0.62995251539429,0.0,0.872535,0.038255,0.052252,16,2,45,2449,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1535,'16RG246',1858.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.570710642730825,-0.570710641806162,1.53588974175501,270.337765881765,0.630052301054144,0.0,0.872535,0.038255,0.052252,16,2,46,2450,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1536,'16RG247',1859.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.580029589888186,-0.580029588963523,1.53588974175501,270.462734372058,0.630151462576329,0.0,0.872535,0.038255,0.052252,16,2,47,2451,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1537,'16RG248',1860.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.58983938661269,-0.589839385688027,1.53588974175501,270.586896318794,0.630249960499993,0.0,0.872535,0.038255,0.052252,16,2,48,2452,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1538,'16RG249',1861.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.600136464647166,-0.600136463722503,1.53588974175501,270.710198617582,0.630347754321128,0.0,0.872535,0.038255,0.052252,16,2,49,2453,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1539,'16RG250',1862.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.610917055836262,-0.610917054911599,1.53588974175501,270.832586712078,0.630444802469136,0.0,0.872535,0.038255,0.052252,16,2,50,2454,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1540,'16RG251',1863.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.622177187040664,-0.622177186116001,1.53588974175501,270.954004573604,0.630541062288997,0.0,0.872535,0.038255,0.052252,16,2,51,2455,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1541,'16RG252',1864.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.63391267498117,-0.633912674056507,1.53588974175501,271.074394688479,0.630636490029257,0.0,0.872535,0.038255,0.052252,16,2,52,2456,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1542,'16RG253',1865.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.646119121040813,-0.64611912011615,1.53588974175501,271.193698053365,0.630731040836121,0.0,0.872535,0.038255,0.052252,16,2,53,2457,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1543,'16RG254',1866.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.658791906055564,-0.658791905130901,1.53588974175501,271.311854178986,0.630824668753849,0.0,0.872535,0.038255,0.052252,16,2,54,2458,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1544,'16RG255',1867.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.671926185125033,-0.67192618420037,1.53588974175501,271.428801102509,0.630917326731704,0.0,0.872535,0.038255,0.052252,16,2,55,2459,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1545,'16RG256',1868.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.685516882475534,-0.685516881550871,1.53588974175501,271.544475408891,0.63100896663764,0.0,0.872535,0.038255,0.052252,16,2,56,2460,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1546,'16RG257',1869.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.699558686408183,-0.69955868548352,1.53588974175501,271.658812261441,0.631099539278938,0.0,0.872535,0.038255,0.052252,16,2,57,2461,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1547,'16RG258',1870.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.714046044366194,-0.714046043441531,1.53588974175501,271.771745441848,0.631188994429939,0.0,0.872535,0.038255,0.052252,16,2,58,2462,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1548,'16RG259',1871.0,805.0,0.11698,1.4631519823383,1.4631519823383,0.0,1.46315198147925,-0.728973158156281,-0.728973157231618,1.53588974175501,271.883207399874,0.631277280867033,0.0,0.872535,0.038255,0.052252,16,2,59,2463,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1549,'17RG101',1881.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.678580921854107,-0.678580920871712,1.90240888467382,271.999913713714,0.631367014004303,0.0,0.872983,0.038133,0.05225,17,1,1,2479,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1550,'17RG102',1882.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.664318613213981,-0.664318612231586,1.90240888467382,272.117952573539,0.631459293919354,0.0,0.872983,0.038133,0.05225,17,1,2,2480,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1551,'17RG103',1883.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.650520540070876,-0.650520539088481,1.90240888467382,272.237257910313,0.631552554558412,0.0,0.872983,0.038133,0.05225,17,1,3,2481,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1552,'17RG104',1884.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.63719131901302,-0.637191318030624,1.90240888467382,272.357765278028,0.631646743348003,0.0,0.872983,0.038133,0.05225,17,1,4,2482,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1553,'17RG105',1885.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.624335302428555,-0.624335301446159,1.90240888467382,272.479411879148,0.631741809078144,0.0,0.872983,0.038133,0.05225,17,1,5,2483,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1554,'17RG106',1886.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.611956585679261,-0.611956584696866,1.90240888467382,272.60213658029,0.631837701917733,0.0,0.872983,0.038133,0.05225,17,1,6,2484,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1555,'17RG107',1887.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.600059014327396,-0.600059013345,1.90240888467382,272.725879918509,0.631934373422177,0.0,0.872983,0.038133,0.05225,17,1,7,2485,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1556,'17RG108',1888.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.588646191376785,-0.588646190394389,1.90240888467382,272.850584098579,0.632031776533598,0.0,0.872983,0.038133,0.05225,17,1,8,2486,'ccl_gap');

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INSERT INTO `rf_gap` VALUES (1557,'17RG109',1889.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.577721484491316,-
0.57772148350892,1.90240888467382,272.97619298166,0.632129865573945,0.0,0.872983,0.038133,0.05225,17,1,9,2487,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1558,'17RG110',1890.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.56728803315548,-
0.567288032173085,1.90240888467382,273.102652065792,0.632228596231389,0.0,0.872983,0.038133,0.05225,17,1,10,2488,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1559,'17RG111',1891.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.557348755743954,-
0.557348754761559,1.90240888467382,273.229908458625,0.63232792554034,0.0,0.872983,0.038133,0.05225,17,1,11,2489,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1560,'17RG112',1892.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.547906356468889,-
0.547906355486493,1.90240888467382,273.357910842821,0.63242781185548,0.0,0.872983,0.038133,0.05225,17,1,12,2490,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1561,'17RG113',1893.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.538963332175637,-
0.538963331193241,1.90240888467382,273.486609434569,0.632528214820151,0.0,0.872983,0.038133,0.05225,17,1,13,2491,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1562,'17RG114',1894.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.530521978959573,-
0.530521977977177,1.90240888467382,273.615955935637,0.632629095329496,0.0,0.872983,0.038133,0.05225,17,1,14,2492,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1563,'17RG115',1895.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.522584398578668,-
0.522584397596273,1.90240888467382,273.745903479405,0.632730415488704,0.0,0.872983,0.038133,0.05225,17,1,15,2493,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1564,'17RG116',1896.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.51515250463824,-
0.51515250365845,1.90240888467382,273.876406571295,0.632832138566709,0.0,0.872983,0.038133,0.05225,17,1,16,2494,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1565,'17RG117',1897.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.508228028526398,-
0.508228027544003,1.90240888467382,274.007421024027,0.632934228945735,0.0,0.872983,0.038133,0.05225,17,1,17,2495,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1566,'17RG118',1898.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.501812525080399,-
0.501812524098003,1.90240888467382,274.138903888113,0.633036652066992,0.0,0.872983,0.038133,0.05225,17,1,18,2496,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1567,'17RG119',1899.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.49590737796593,-
0.49590737698353,1.90240888467382,274.270813377999,0.6331393743729,0.0,0.872983,0.038133,0.05225,17,1,19,2497,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1568,'17RG120',1900.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.490513804753238,-
0.490513803770842,1.90240888467382,274.403108794238,0.63324236324615,0.0,0.872983,0.038133,0.05225,17,1,20,2498,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1569,'17RG121',1901.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.485632861675508,-
0.485632860693112,1.90240888467382,274.5357504421,0.633345586945944,0.0,0.872983,0.038133,0.05225,17,1,21,2499,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1570,'17RG122',1902.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.481265448056635,-
0.481265447074239,1.90240888467382,274.668699546981,0.633449014541706,0.0,0.872983,0.038133,0.05225,17,1,22,2500,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1571,'17RG123',1903.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.477412310397364,-
0.47741230941496,1.90240888467382,274.801918166986,0.633552615844594,0.0,0.872983,0.038133,0.05225,17,1,23,2501,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1572,'17RG124',1904.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.474074046109865,-
0.47407404512747,1.90240888467382,274.935369103042,0.633656361337084,0.0,0.872983,0.038133,0.05225,17,1,24,2502,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1573,'17RG125',1905.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.471251106892406,-
0.47125110591001,1.90240888467382,275.069015806885,0.633760222100926,0.0,0.872983,0.038133,0.05225,17,1,25,2503,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1574,'17RG126',1906.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.468943801737853,-
0.46894380075548,1.90240888467382,275.202822287265,0.633864169743753,0.0,0.872983,0.038133,0.05225,17,1,26,2504,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1575,'17RG127',1907.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.467152299570099,-
0.46715229858703,1.90240888467382,275.3367530147,0.633968176324591,0.0,0.872983,0.038133,0.05225,17,1,27,2505,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1576,'17RG128',1908.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.465876631504603,-
0.465876630522207,1.90240888467382,275.470772825096,0.634072214278562,0.0,0.872983,0.038133,0.05225,17,1,28,2506,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1577,'17RG129',1909.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.465116692730087,-
0.465116691747692,1.90240888467382,275.60484682256,0.634176256340998,0.0,0.872983,0.038133,0.05225,17,1,29,2507,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1578,'17RG130',1910.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.464872244010255,-
0.464872243027859,1.90240888467382,275.738940281708,0.63428027547125,0.0,0.872983,0.038133,0.05225,17,1,30,2508,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1579,'17RG131',1911.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.465142912804931,-
0.465142911822536,1.90240888467382,275.873018549777,0.634384244776407,0.0,0.872983,0.038133,0.05225,17,1,31,2509,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1580,'17RG132',1912.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.465928194011428,-
0.465928193029033,1.90240888467382,276.007046948856,0.634488137435175,0.0,0.872983,0.038133,0.05225,17,1,32,2510,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1581,'17RG133',1913.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.467227450329016,-
0.46722744934662,1.90240888467382,276.140990678507,0.634591926622151,0.0,0.872983,0.038133,0.05225,17,1,33,2511,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1582,'17RG134',1914.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.469039912248408,-
0.469039911266012,1.90240888467382,276.274814719117,0.634695585432715,0.0,0.872983,0.038133,0.05225,17,1,34,2512,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1583,'17RG135',1915.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.47136467767191,-
0.471364676689515,1.90240888467382,276.408483736239,0.634799086808777,0.0,0.872983,0.038133,0.05225,17,1,35,2513,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1584,'17RG136',1916.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.474200711168907,-
0.474200710186512,1.90240888467382,276.541961986249,0.634902403465599,0.0,0.872983,0.038133,0.05225,17,1,36,2514,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1585,'17RG137',1917.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.477546842873475,-
0.47754684189108,1.90240888467382,276.675213223609,0.635005507819925,0.0,0.872983,0.038133,0.05225,17,1,37,2515,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1586,'17RG138',1918.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.4814017670318,-
0.48140176604405,1.90240888467382,276.808200610039,0.635108371919645,0.0,0.872983,0.038133,0.05225,17,1,38,2516,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1587,'17RG139',1919.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.485764040208291,-
0.485764039225895,1.90240888467382,276.940886625909,0.635210967375211,0.0,0.872983,0.038133,0.05225,17,1,39,2517,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1588,'17RG140',1920.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.490632079159855,-
0.490632078177459,1.90240888467382,277.073232984155,0.635313265293051,0.0,0.872983,0.038133,0.05225,17,1,40,2518,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1589,'17RG141',1921.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.496004158389563,-
0.496004157407167,1.90240888467382,277.205200547046,0.635415236211197,0.0,0.872983,0.038133,0.05225,17,1,41,2519,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1590,'17RG142',1922.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.501878407391759,-
0.501878406409364,1.90240888467382,277.336749246105,0.635516850037366,0.0,0.872983,0.038133,0.05225,17,1,42,2520,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1591,'17RG143',1923.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.508252807601731,-
0.508252806619335,1.90240888467382,277.467838005527,0.635618075989734,0.0,0.872983,0.038133,0.05225,17,1,43,2521,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1592,'17RG144',1924.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.515125189063939,-
0.515125188081544,1.90240888467382,277.598424669406,0.635718882540626,0.0,0.872983,0.038133,0.05225,17,1,44,2522,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1593,'17RG145',1925.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.522493226834693,-
0.522493225852298,1.90240888467382,277.728465933126,0.635819237363387,0.0,0.872983,0.038133,0.05225,17,1,45,2523,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1594,'17RG146',1926.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.53035443713529,-
0.530354436152894,1.90240888467382,277.857917279241,0.635919107282649,0.0,0.872983,0.038133,0.05225,17,1,46,2524,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1595,'17RG147',1927.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.538706173273619,-
0.538706172291224,1.90240888467382,277.986732918193,0.636018458228264,0.0,0.872983,0.038133,0.05225,17,1,47,2525,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1596,'17RG148',1928.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.547545621352771,-
0.547545620370375,1.90240888467382,278.114865734226,0.636117255193138,0.0,0.872983,0.038133,0.05225,17,1,48,2526,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1597,'17RG149',1929.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.556869795786989,-
0.556869794804594,1.90240888467382,278.24226723683,0.636215462195211,0.0,0.872983,0.038133,0.05225,17,1,49,2527,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1598,'17RG150',1930.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.566675534645586,-
0.56667553366319,1.90240888467382,278.368887518081,0.636313042243843,0.0,0.872983,0.038133,0.05225,17,1,50,2528,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1599,'17RG151',1931.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,1.45497746487618,-0.576959494847496,-
0.5769594938651,1.90240888467382,278.494675216232,0.636409957310847,0.0,0.872983,0.038133,0.05225,17,1,51,2529,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1600,'17RG152',1932.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.5877181472291,-0.587718146246704,1.90240888467382,278.619577485886,0.636506168306419,0.0,0.872983,0.038133,0.05225,17,1,52,2530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1601,'17RG153',1933.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.598947771511244,-0.598947770528849,1.90240888467382,278.743539975128,0.636601635060202,0.0,0.872983,0.038133,0.05225,17,1,53,2531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1602,'17RG154',1934.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.610644451189418,-0.610644450207023,1.90240888467382,278.866506809934,0.636696316307733,0.0,0.872983,0.038133,0.05225,17,1,54,2532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1603,'17RG155',1935.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.622804068374416,-0.622804067392021,1.90240888467382,278.988420586201,0.636790169682495,0.0,0.872983,0.038133,0.05225,17,1,55,2533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1604,'17RG156',1936.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.63542229861186,-0.635422297629464,1.90240888467382,279.109222369725,0.636883151713815,0.0,0.872983,0.038133,0.05225,17,1,56,2534,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1605,'17RG157',1937.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.648494605708076,-0.648494604725681,1.90240888467382,279.22885170442,0.636975217830796,0.0,0.872983,0.038133,0.05225,17,1,57,2535,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1606,'17RG158',1938.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.662016236592708,-0.662016235610313,1.90240888467382,279.347246629091,0.637066322372521,0.0,0.872983,0.038133,0.05225,17,1,58,2536,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1607,'17RG159',1939.0,805.0,0.118105762712,1.45497746573043,1.45497746573043,0.0,0.0,1.45497746487618,-0.675982216248112,-0.675982215265716,1.90240888467382,279.464343703012,0.637156418604682,0.0,0.872983,0.038133,0.05225,17,1,59,2537,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1608,'17RG201',1948.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.671714511822516,-0.671714510802353,1.90240888467382,279.582790567175,0.637246495852332,0.0,0.873417,0.038015,0.052249,17,2,1,2545,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1609,'17RG202',1949.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.657322892479511,-0.657322891459348,1.90240888467382,279.702582710722,0.637337564252078,0.0,0.873417,0.038015,0.052249,17,2,2,2546,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1610,'17RG203',1950.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.643385197663254,-0.643385196643091,1.90240888467382,279.82365420443,0.63742959557517,0.0,0.873417,0.038015,0.052249,17,2,3,2547,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1611,'17RG204',1951.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.629905922788958,-0.629905921768795,1.90240888467382,279.945940751207,0.637522538798961,0.0,0.873417,0.038015,0.052249,17,2,4,2548,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1612,'17RG205',1952.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.616889309284387,-0.616889308264224,1.90240888467382,280.069379713105,0.637616344233801,0.0,0.873417,0.038015,0.052249,17,2,5,2549,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1613,'17RG206',1953.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.604339351532187,-0.604339350512024,1.90240888467382,280.193910128792,0.63771096353926,0.0,0.873417,0.038015,0.052249,17,2,6,2550,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1614,'17RG207',1954.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.592259803870041,-0.592259802849878,1.90240888467382,280.319472721839,0.637806349732962,0.0,0.873417,0.038015,0.052249,17,2,7,2551,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1615,'17RG208',1955.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.58065418761201,-0.580654186591847,1.90240888467382,280.446009900204,0.637902457192357,0.0,0.873417,0.038015,0.052249,17,2,8,2552,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1616,'17RG209',1956.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.569525798056139,-0.569525797035976,1.90240888467382,280.573465747283,0.637999241649744,0.0,0.873417,0.038015,0.052249,17,2,9,2553,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1617,'17RG210',1957.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.558877711445189,-0.558877710425026,1.90240888467382,280.701786004944,0.638096660180878,0.0,0.873417,0.038015,0.052249,17,2,10,2554,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1618,'17RG211',1958.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.548712791849146,-0.548712790828983,1.90240888467382,280.830918048949,0.638194671187499,0.0,0.873417,0.038015,0.052249,17,2,11,2555,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1619,'17RG212',1959.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.539033697939727,-0.539033696919564,1.90240888467382,280.960810857167,0.638293234374129,0.0,0.873417,0.038015,0.052249,17,2,12,2556,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1620,'17RG213',1960.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.529842889629298,-0.529842888609135,1.90240888467382,281.091414971017,0.63839231071948,0.0,0.873417,0.038015,0.052249,17,2,13,2557,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1621,'17RG214',1961.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.521142634548267,-0.52114263528104,1.90240888467382,281.222682450538,0.638491862442819,0.0,0.873417,0.038015,0.052249,17,2,14,2558,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1622,'17RG215',1962.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.512935014336553,-0.51293501331639,1.90240888467382,281.35456682351,0.638591852965632,0.0,0.873417,0.038015,0.052249,17,2,15,2559,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1623,'17RG216',1963.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.505221930726888,-0.505221929706725,1.90240888467382,281.487023029032,0.638692246868917,0.0,0.873417,0.038015,0.052249,17,2,16,2560,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1624,'17RG217',1964.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.498005111399498,-0.498005110379335,1.90240888467382,281.620007355967,0.638793009846459,0.0,0.873417,0.038015,0.052249,17,2,17,2561,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1625,'17RG218',1965.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.491286115588762,-0.491286114568599,1.90240888467382,281.753477376645,0.638894108654388,0.0,0.873417,0.038015,0.052249,17,2,18,2562,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1626,'17RG219',1966.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.485066339425079,-0.485066338404916,1.90240888467382,281.887391876216,0.638995511057359,0.0,0.873417,0.038015,0.052249,17,2,19,2563,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1627,'17RG220',1967.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.479347020995957,-0.479347019975794,1.90240888467382,282.021710778032,0.639097185771649,0.0,0.873417,0.038015,0.052249,17,2,20,2564,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1628,'17RG221',1968.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.474129245112413,-0.47412924409225,1.90240888467382,282.156395065424,0.639199102405487,0.0,0.873417,0.038015,0.052249,17,2,21,2565,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1629,'17RG222',1969.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.469413947768229,-0.469413946748066,1.90240888467382,282.291406700242,0.639301231396895,0.0,0.873417,0.038015,0.052249,17,2,22,2566,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1630,'17RG223',1970.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.465201920280511,-0.465201919260348,1.90240888467382,282.4267085385,0.639403543949333,0.0,0.873417,0.038015,0.052249,17,2,23,2567,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1631,'17RG224',1971.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.461493813102846,-0.461493812082683,1.90240888467382,282.562264243471,0.63950601196542,0.0,0.873417,0.038015,0.052249,17,2,24,2568,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1632,'17RG225',1972.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.458290139301515,-0.458290138281352,1.90240888467382,282.698038196559,0.639608607978993,0.0,0.873417,0.038015,0.052249,17,2,25,2569,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1633,'17RG226',1973.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.455591277689022,-0.455591276668859,1.90240888467382,282.833995406267,0.639711305085761,0.0,0.873417,0.038015,0.052249,17,2,26,2570,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1634,'17RG227',1974.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.453397475608445,-0.453397474588282,1.90240888467382,282.970101415588,0.63981407687281,0.0,0.873417,0.038015,0.052249,17,2,27,2571,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1635,'17RG228',1975.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.45170885136447,-0.451708850344307,1.90240888467382,283.106322208096,0.639916897347184,0.0,0.873417,0.038015,0.052249,17,2,28,2572,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1636,'17RG229',1976.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.450525396297598,-0.450525395277435,1.90240888467382,283.242624113063,0.640019740863789,0.0,0.873417,0.038015,0.052249,17,2,29,2573,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1637,'17RG230',1977.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.449846976499797,-0.449846975479634,1.90240888467382,283.378973709876,0.640122582052845,0.0,0.873417,0.038015,0.052249,17,2,30,2574,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1638,'17RG231',1978.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.449673334170276,-0.449673333150113,1.90240888467382,283.515337732045,0.640225395747093,0.0,0.873417,0.038015,0.052249,17,2,31,2575,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1639,'17RG232',1979.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.450004088611349,-0.450004087591186,1.90240888467382,283.651682971082,0.640328156908998,0.0,0.873417,0.038015,0.052249,17,2,32,2576,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1640,'17RG233',1980.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.450838736865852,-0.450838735845689,1.90240888467382,283.787976180534,0.640430840558134,0.0,0.873417,0.038015,0.052249,17,2,33,2577,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1641,'17RG234',1981.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.452176653997922,-0.452176652977759,1.90240888467382,283.92418398044,0.640533421698976,0.0,0.873417,0.038015,0.052249,17,2,34,2578,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1642,'17RG235',1982.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,0.0,1.4542544880853,-0.454017093020402,-0.454017092000239,1.90240888467382,284.060272762489,0.640635875249303,0.0,0.873417,0.038015,0.052249,17,2,35,2579,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1643,'17RG236',1983.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.456359184473269,-0.456359183453106,1.90240888467382,284.196208596156,0.640738175969409,0.0,0.873417,0.038015,0.052249,17,2,36,2580,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1644,'17RG237',1984.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.45920193565758,-0.459201934637417,1.90240888467382,284.331957136094,0.640840298392331,0.0,0.873417,0.038015,0.052249,17,2,37,2581,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1645,'17RG238',1985.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.46254422953177,-0.462544228511607,1.90240888467382,284.46748353105,0.640942216755299,0.0,0.873417,0.038015,0.052249,17,2,38,2582,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1646,'17RG239',1986.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.466384823276902,-0.466384822256739,1.90240888467382,284.602752334598,0.641043904932601,0.0,0.873417,0.038015,0.052249,17,2,39,2583,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1647,'17RG240',1987.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.470722346539004,-0.470722345518841,1.90240888467382,284.73772741796,0.641145336370081,0.0,0.873417,0.038015,0.052249,17,2,40,2584,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1648,'17RG241',1988.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.475555299357784,-0.475555298337621,1.90240888467382,284.872371885214,0.641246484021467,0.0,0.873417,0.038015,0.052249,17,2,41,2585,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1649,'17RG242',1989.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.480882049791061,-0.480882048770898,1.90240888467382,285.006647991173,0.641347320286736,0.0,0.873417,0.038015,0.052249,17,2,42,2586,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1650,'17RG243',1990.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.486700831246812,-0.486700830226649,1.90240888467382,285.140517062244,0.641447816952738,0.0,0.873417,0.038015,0.052249,17,2,43,2587,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1651,'17RG244',1991.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.493009739533716,-0.493009738513553,1.90240888467382,285.273939420552,0.641547945136272,0.0,0.873417,0.038015,0.052249,17,2,44,2588,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1652,'17RG245',1992.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.49980672964441,-0.499806728624247,1.90240888467382,285.406874311661,0.641647675229852,0.0,0.873417,0.038015,0.052249,17,2,45,2589,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1653,'17RG246',1993.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.507089612284287,-0.507089611264124,1.90240888467382,285.53927983618,0.641746976850367,0.0,0.873417,0.038015,0.052249,17,2,46,2590,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1654,'17RG247',1994.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.514856050161446,-0.514856049141283,1.90240888467382,285.671112885606,0.641845818790859,0.0,0.873417,0.038015,0.052249,17,2,47,2591,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1655,'17RG248',1995.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.523103554053859,-0.523103553033696,1.90240888467382,285.802329082692,0.641944168975656,0.0,0.873417,0.038015,0.052249,17,2,48,2592,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1656,'17RG249',1996.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.531829478670436,-0.531829477650273,1.90240888467382,285.932882726707,0.642041994419063,0.0,0.873417,0.038015,0.052249,17,2,49,2593,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1657,'17RG250',1997.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.54103101832433,-0.541031017304167,1.90240888467382,286.062726743887,0.642139261187862,0.0,0.873417,0.038015,0.052249,17,2,50,2594,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1658,'17RG251',1998.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.5507052024381,-0.550705201417937,1.90240888467382,286.191812643439,0.642235934367842,0.0,0.873417,0.038015,0.052249,17,2,51,2595,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1659,'17RG252',1999.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.560848890899945,-0.560848889879782,1.90240888467382,286.320090479419,0.642331978034586,0.0,0.873417,0.038015,0.052249,17,2,52,2596,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1660,'17RG253',2000.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.571458769293121,-0.57145876272958,1.90240888467382,286.447508818826,0.642427355228746,0.0,0.873417,0.038015,0.052249,17,2,53,2597,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1661,'17RG254',2001.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.582531344020479,-0.582531343000316,1.90240888467382,286.574014716247,0.64252202793604,0.0,0.873417,0.038015,0.052249,17,2,54,2598,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1662,'17RG255',2002.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.594062937347493,-0.59406293632733,1.90240888467382,286.699553695385,0.642615957072186,0.0,0.873417,0.038015,0.052249,17,2,55,2599,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1663,'17RG256',2003.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.606049682387988,-0.606049681367825,1.90240888467382,286.824069737791,0.642709102472998,0.0,0.873417,0.038015,0.052249,17,2,56,2600,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1664,'17RG257',2004.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.618487518058435,-0.618487517038272,1.90240888467382,286.947505279119,0.642801422889863,0.0,0.873417,0.038015,0.052249,17,2,57,2601,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1665,'17RG258',2005.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.631372184025705,-0.631372183005542,1.90240888467382,287.06980121321,0.642892875990789,0.0,0.873417,0.038015,0.052249,17,2,58,2602,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1666,'17RG259',2006.0,805.0,0.119210338983,1.45425448893912,1.45425448893912,0.0,1.4542544880853,-0.644699215677169,-0.644699214657006,1.90240888467382,287.190896904291,0.642983418367237,0.0,0.873417,0.038015,0.052249,17,2,59,2603,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1667,'18RG101',2016.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.610919942170421,-0.610919941064811,2.2165681500328,287.315948472121,0.643074945479387,0.0,0.873846,0.037898,0.05225,18,1,1,2617,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1668,'18RG102',2017.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.59746905091806,-0.59746904981245,2.2165681500328,287.442169093898,0.643168336397479,0.0,0.873846,0.037898,0.05225,18,1,2,2618,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1669,'18RG103',2018.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.584478804078242,-0.584478802972631,2.2165681500328,287.569497210244,0.643262530626403,0.0,0.873846,0.037898,0.05225,18,1,3,2619,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1670,'18RG104',2019.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.571952877131614,-0.571952876026003,2.2165681500328,287.697873042656,0.643357481992537,0.0,0.873846,0.037898,0.05225,18,1,4,2620,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1671,'18RG105',2020.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.559894718663674,-0.559894717558063,2.2165681500328,287.827238595114,0.64345314571939,0.0,0.873846,0.037898,0.05225,18,1,5,2621,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1672,'18RG106',2021.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.548307557491025,-0.548307556385414,2.2165681500328,287.957537647174,0.64354947842413,0.0,0.873846,0.037898,0.05225,18,1,6,2622,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1673,'18RG107',2022.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.537194409748255,-0.537194408642645,2.2165681500328,288.088715738922,0.643646438107772,0.0,0.873846,0.037898,0.05225,18,1,7,2623,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1674,'18RG108',2023.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.526558085904933,-0.526558084799323,2.2165681500328,288.220720148233,0.643743984139382,0.0,0.873846,0.037898,0.05225,18,1,8,2624,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1675,'18RG109',2024.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.516401197683467,-0.516401196577856,2.2165681500328,288.353499860731,0.643842077234612,0.0,0.873846,0.037898,0.05225,18,1,9,2625,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1676,'18RG110',2025.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.506726164850912,-0.506726163745302,2.2165681500328,288.487005532867,0.643940679428919,0.0,0.873846,0.037898,0.05225,18,1,10,2626,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1677,'18RG111',2026.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.497535221859099,-0.497535220753488,2.2165681500328,288.621189448552,0.6440397540458,0.0,0.873846,0.037898,0.05225,18,1,11,2627,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1678,'18RG112',2027.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.488830424309536,-0.488830423203925,2.2165681500328,288.756005469736,0.644139265660375,0.0,0.873846,0.037898,0.05225,18,1,12,2628,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1679,'18RG113',2028.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.480613655220896,-0.480613654115285,2.2165681500328,288.891408981359,0.644239180058651,0.0,0.873846,0.037898,0.05225,18,1,13,2629,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1680,'18RG114',2029.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.472886631079031,-0.47288662997342,2.2165681500328,289.027356831069,0.644339464192783,0.0,0.873846,0.037898,0.05225,18,1,14,2630,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1681,'18RG115',2030.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.465650907650587,-0.465650906544976,2.2165681500328,289.163807264099,0.644440086132666,0.0,0.873846,0.037898,0.05225,18,1,15,2631,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1682,'18RG116',2031.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.458907885543549,-0.458907884437938,2.2165681500328,289.300719853697,0.644541015014141,0.0,0.873846,0.037898,0.05225,18,1,16,2632,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1683,'18RG117',2032.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.452658815498924,-0.452658814393313,2.2165681500328,289.438055427473,0.644642220984138,0.0,0.873846,0.037898,0.05225,18,1,17,2633,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1684,'18RG118',2033.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.4469048033996,-0.446904802293989,2.2165681500328,289.575775990033,0.644743675143028,0.0,0.873846,0.037898,0.05225,18,1,18,2634,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1685,'18RG119',2034.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,1.45354054629763,-0.441646814984128,-0.441646813878517,2.2165681500328,289.713844642252,0.644845349484477,0.0,0.873846,0.037898,0.05225,18,1,19,2635,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1686,'18RG120',2035.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.436885680253919,-0.436885679148308,2.2165681500328,289.85222549752,0.644947216833067,0.0,0.0,0.873846,0.037898,0.05225,18,1,20,2636,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1687,'18RG121',2036.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.432622097564337,-0.432622096458726,2.2165681500328,289.990883595303,0.645049250779939,0.0,0.0,0.873846,0.037898,0.05225,18,1,21,2637,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1688,'18RG122',2037.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.428856637391088,-0.428856636285477,2.2165681500328,290.129784812334,0.645151425616725,0.0,0.0,0.873846,0.037898,0.05225,18,1,22,2638,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1689,'18RG123',2038.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.425589745764828,-0.425589744659217,2.2165681500328,290.268895771725,0.645253716267987,0.0,0.0,0.873846,0.037898,0.05225,18,1,23,2639,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1690,'18RG124',2039.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.422821747367432,-0.422821746261821,2.2165681500328,290.408183750335,0.645356098222424,0.0,0.0,0.873846,0.037898,0.05225,18,1,24,2640,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1691,'18RG125',2040.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.420552848285684,-0.420552847180073,2.2165681500328,290.547616584642,0.645458547746304,0.0,0.0,0.873846,0.037898,0.05225,18,1,25,2641,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1692,'18RG126',2041.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.418783138418103,-0.418783137312492,2.2165681500328,290.687162575431,0.645561040396519,0.0,0.0,0.873846,0.037898,0.05225,18,1,26,2642,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1693,'18RG127',2042.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.417512593532169,-0.417512592426558,2.2165681500328,290.826790391556,0.645663553781992,0.0,0.0,0.873846,0.037898,0.05225,18,1,27,2643,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1694,'18RG128',2043.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.416741076970165,-0.416741075864554,2.2165681500328,290.966468973041,0.645766064659409,0.0,0.0,0.873846,0.037898,0.05225,18,1,28,2644,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1695,'18RG129',2044.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.416468341003412,-0.416468339897801,2.2165681500328,291.106167433797,0.645868550277719,0.0,0.0,0.873846,0.037898,0.05225,18,1,29,2645,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1696,'18RG130',2045.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.416694027833852,-0.416694026728241,2.2165681500328,291.245854964182,0.645970988023034,0.0,0.0,0.873846,0.037898,0.05225,18,1,30,2646,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1697,'18RG131',2046.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.417417670245587,-0.417417669139976,2.2165681500328,291.385500733692,0.646073355346977,0.0,0.0,0.873846,0.037898,0.05225,18,1,31,2647,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1698,'18RG132',2047.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.418638691907087,-0.418638690801476,2.2165681500328,291.525073794006,0.646175629695391,0.0,0.0,0.873846,0.037898,0.05225,18,1,32,2648,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1699,'18RG133',2048.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.420356407327648,-0.420356406222037,2.2165681500328,291.664542982651,0.646277788437601,0.0,0.0,0.873846,0.037898,0.05225,18,1,33,2649,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1700,'18RG134',2049.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.422570021471709,-0.422570020366098,2.2165681500328,291.80387682752,0.646379808796397,0.0,0.0,0.873846,0.037898,0.05225,18,1,34,2650,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1701,'18RG135',2050.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.425278629035492,-0.425278627929881,2.2165681500328,291.943043452518,0.64648166777892,0.0,0.0,0.873846,0.037898,0.05225,18,1,35,2651,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1702,'18RG136',2051.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.428481213391531,-0.42848121228592,2.2165681500328,292.082010484564,0.646583342108642,0.0,0.0,0.873846,0.037898,0.05225,18,1,36,2652,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1703,'18RG137',2052.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.432176645207665,-0.432176644102054,2.2165681500328,292.220744962218,0.646684808158607,0.0,0.0,0.873846,0.037898,0.05225,18,1,37,2653,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1704,'18RG138',2053.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.436363680746932,-0.436363679641321,2.2165681500328,292.359213246191,0.646786041886116,0.0,0.0,0.873846,0.037898,0.05225,18,1,38,2654,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1705,'18RG139',2054.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.441040959857421,-0.4410409587518,2.2165681500328,292.497380931997,0.646887018769049,0.0,0.0,0.873846,0.037898,0.05225,18,1,39,2655,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1706,'18RG140',2055.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.446207003659932,-0.446207002554321,2.2165681500328,292.635212765021,0.646987713744001,0.0,0.0,0.873846,0.037898,0.05225,18,1,40,2656,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1707,'18RG141',2056.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.45186021194404,-0.45186021083842,2.2165681500328,292.772672558284,0.647088101146421,0.0,0.0,0.873846,0.037898,0.05225,18,1,41,2657,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1708,'18RG142',2057.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.457998860282696,-0.457998859177085,2.2165681500328,292.909723113169,0.647188154652953,0.0,0.0,0.873846,0.037898,0.05225,18,1,42,2658,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1709,'18RG143',2058.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.464621096877184,-0.464621095771573,2.2165681500328,293.046326143415,0.647287847226171,0.0,0.0,0.873846,0.037898,0.05225,18,1,43,2659,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1710,'18RG144',2059.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.471724939144816,-0.471724938039205,2.2165681500328,293.182442202672,0.647387151061904,0.0,0.0,0.873846,0.037898,0.05225,18,1,44,2660,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1711,'18RG145',2060.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.47930827006262,-0.47930826957009,2.2165681500328,293.318030615906,0.647486037539365,0.0,0.0,0.873846,0.037898,0.05225,18,1,45,2661,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1712,'18RG146',2061.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.487368834282062,-0.487368833176451,2.2165681500328,293.453049414981,0.647584477174279,0.0,0.0,0.873846,0.037898,0.05225,18,1,46,2662,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1713,'18RG147',2062.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.495904234028191,-0.49590423292258,2.2165681500328,293.587455278721,0.64768243957523,0.0,0.0,0.873846,0.037898,0.05225,18,1,47,2663,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1714,'18RG148',2063.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.504911924802508,-0.504911923696898,2.2165681500328,293.721203477781,0.647779893403441,0.0,0.0,0.873846,0.037898,0.05225,18,1,48,2664,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1715,'18RG149',2064.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.514389210903875,-0.51438920979826,2.2165681500328,293.854247824649,0.647876806336195,0.0,0.0,0.873846,0.037898,0.05225,18,1,49,2665,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1716,'18RG150',2065.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.524333240787523,-0.524333239681912,2.2165681500328,293.986540629114,0.647973145034129,0.0,0.0,0.873846,0.037898,0.05225,18,1,50,2666,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1717,'18RG151',2066.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.534741002280274,-0.534741001174663,2.2165681500328,294.118032659528,0.648068875112611,0.0,0.0,0.873846,0.037898,0.05225,18,1,51,2667,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1718,'18RG152',2067.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.54560931767352,-0.545609316567909,2.2165681500328,294.248673110202,0.648163961117431,0.0,0.0,0.873846,0.037898,0.05225,18,1,52,2668,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1719,'18RG153',2068.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.556934838713335,-0.556934837607724,2.2165681500328,294.378409575264,0.648258366505012,0.0,0.0,0.873846,0.037898,0.05225,18,1,53,2669,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1720,'18RG154',2069.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.568714041511849,-0.568714040406238,2.2165681500328,294.507188029324,0.648352053623776,0.0,0.0,0.873846,0.037898,0.05225,18,1,54,2670,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1721,'18RG155',2070.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.580943221401557,-0.580943220295946,2.2165681500328,294.63495281525,0.648444983722068,0.0,0.0,0.873846,0.037898,0.05225,18,1,55,2671,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1722,'18RG156',2071.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.593618487757676,-0.593618486652066,2.2165681500328,294.761646639405,0.648537116907253,0.0,0.0,0.873846,0.037898,0.05225,18,1,56,2672,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1723,'18RG157',2072.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.606735758812891,-0.60673575770728,2.2165681500328,294.887210574629,0.648628412182192,0.0,0.0,0.873846,0.037898,0.05225,18,1,57,2673,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1724,'18RG158',2073.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.620290756490742,-0.620290755385131,2.2165681500328,295.011584071286,0.648718827433285,0.0,0.0,0.873846,0.037898,0.05225,18,1,58,2674,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1725,'18RG159',2074.0,805.0,0.120265084746,1.45354054715103,1.45354054715103,0.0,0.0,1.45354054629763,-0.634279001284429,-0.634279000178818,2.2165681500328,295.134704976646,0.648808319445876,0.0,0.0,0.873846,0.037898,0.05225,18,1,59,2675,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1726,'18RG201',2083.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,0.0,1.45288546877288,-0.636954528669439,-0.636954527665685,2.2165681500328,295.25851320185,0.648897567947419,0.0,0.0,0.87424,0.037791,0.052253,18,2,1,2683,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1727,'18RG202',2084.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,0.0,1.45288546877288,-0.624460760871239,-0.624460759867485,2.2165681500328,295.383458444008,0.648987436350232,0.0,0.0,0.87424,0.037791,0.052253,18,2,2,2684,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1728,'18RG203',2085.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,0.0,1.45288546877288,-0.612406087089099,-0.612406086085345,2.2165681500328,295.509482400688,0.649078065117457,0.0,0.0,0.87424,0.037791,0.052253,18,2,3,2685,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1729,'18RG204',2086.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.600793961235889,-0.600793960232135,2.2165681500328,295.63652830071,0.649169411683176,0.0,0.87424,0.037791,0.052253,18,2,4,2686,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1730,'18RG205',2087.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.589627629791699,-0.589627628787945,2.2165681500328,295.764540903947,0.649261434653166,0.0,0.87424,0.037791,0.052253,18,2,5,2687,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1731,'18RG206',2088.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.578910137733035,-0.578910136729281,2.2165681500328,295.893466493783,0.649354093801,0.0,0.87424,0.037791,0.052253,18,2,6,2688,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1732,'18RG207',2089.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.568644334425296,-0.568644333421542,2.2165681500328,296.023252862581,0.649447350058845,0.0,0.87424,0.037791,0.052253,18,2,7,2689,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1733,'18RG208',2090.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.558832879452981,-0.558832878449227,2.2165681500328,296.153849290494,0.649541165503244,0.0,0.87424,0.037791,0.052253,18,2,8,2690,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1734,'18RG209',2091.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.54947824836358,-0.549478247359826,2.2165681500328,296.285206517968,0.649635503336138,0.0,0.87424,0.037791,0.052253,18,2,9,2691,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1735,'18RG210',2092.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.540582738302592,-0.540582737298838,2.2165681500328,296.417276712283,0.649730327861414,0.0,0.87424,0.037791,0.052253,18,2,10,2692,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1736,'18RG211',2093.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.532148473518215,-0.532148472514461,2.2165681500328,296.550013428498,0.649825604457255,0.0,0.87424,0.037791,0.052253,18,2,11,2693,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1737,'18RG212',2094.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.52417741071618,-0.524177409712426,2.2165681500328,296.683371565127,0.649921299544553,0.0,0.87424,0.037791,0.052253,18,2,12,2694,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1738,'18RG213',2095.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.516671344246044,-0.51667134324229,2.2165681500328,296.817307314915,0.650017380551664,0.0,0.87424,0.037791,0.052253,18,2,13,2695,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1739,'18RG214',2096.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.509631911102064,-0.50963191009831,2.2165681500328,296.951778111043,0.650113815875778,0.0,0.87424,0.037791,0.052253,18,2,14,2696,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1740,'18RG215',2097.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.503060595722725,-0.503060594718971,2.2165681500328,297.086742569098,0.65021057484115,0.0,0.87424,0.037791,0.052253,18,2,15,2697,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1741,'18RG216',2098.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.496958734574877,-0.496958733571123,2.2165681500328,297.22216042516,0.650307627654468,0.0,0.87424,0.037791,0.052253,18,2,16,2698,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1742,'18RG217',2099.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.491327520508984,-0.49132751950523,2.2165681500328,297.357992470298,0.650404945357595,0.0,0.87424,0.037791,0.052253,18,2,17,2699,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1743,'18RG218',2100.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.486168006874041,-0.486168005870287,2.2165681500328,297.49420048182,0.650502499777933,0.0,0.87424,0.037791,0.052253,18,2,18,2700,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1744,'18RG219',2101.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.481481111381024,-0.48148111037727,2.2165681500328,297.630747151576,0.650600263476654,0.0,0.87424,0.037791,0.052253,18,2,19,2701,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1745,'18RG220',2102.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.4772676197061,-0.477267618702346,2.2165681500328,297.767596011611,0.65069820969502,0.0,0.87424,0.037791,0.052253,18,2,20,2702,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1746,'18RG221',2103.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.473528188824555,-0.473528187820801,2.2165681500328,297.904711357472,0.650796312299018,0.0,0.87424,0.037791,0.052253,18,2,21,2703,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1747,'18RG222',2104.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.470263350068779,-0.470263349065025,2.2165681500328,298.042058169442,0.650894545722538,0.0,0.87424,0.037791,0.052253,18,2,22,2704,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1748,'18RG223',2105.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.467473511903857,-0.467473510900103,2.2165681500328,298.179602032001,0.650992884909287,0.0,0.87424,0.037791,0.052253,18,2,23,2705,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1749,'18RG224',2106.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.465158962415816,-0.465158961412062,2.2165681500328,298.317309051755,0.651091305253657,0.0,0.87424,0.037791,0.052253,18,2,24,2706,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1750,'18RG225',2107.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.463319871508527,-0.463319870504773,2.2165681500328,298.455145774131,0.651189782540742,0.0,0.87424,0.037791,0.052253,18,2,25,2707,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1751,'18RG226',2108.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.461956292805399,-0.461956291801645,2.2165681500328,298.593079099076,0.651288292885698,0.0,0.87424,0.037791,0.052253,18,2,26,2708,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1752,'18RG227',2109.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.461068165254867,-0.461068164251113,2.2165681500328,298.731076196013,0.651386812672625,0.0,0.87424,0.037791,0.052253,18,2,27,2709,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1753,'18RG228',2110.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.460655314437136,-0.460655313433382,2.2165681500328,298.869104418329,0.651485318493171,0.0,0.87424,0.037791,0.052253,18,2,28,2710,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1754,'18RG229',2111.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.460717453572608,-0.460717452568854,2.2165681500328,299.007131217601,0.651583787085019,0.0,0.87424,0.037791,0.052253,18,2,29,2711,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1755,'18RG230',2112.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.461254184231779,-0.461254183228025,2.2165681500328,299.145124057841,0.651682195270443,0.0,0.87424,0.037791,0.052253,18,2,30,2712,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1756,'18RG231',2113.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.462264996748625,-0.462264995744871,2.2165681500328,299.283050329976,0.651780519895107,0.0,0.87424,0.037791,0.052253,18,2,31,2713,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1757,'18RG232',2114.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.463749270338612,-0.463749269334858,2.2165681500328,299.42087726681,0.651878737767271,0.0,0.87424,0.037791,0.052253,18,2,32,2714,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1758,'18RG233',2115.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.465706272925071,-0.465706271921317,2.2165681500328,299.558571858709,0.651976825597571,0.0,0.87424,0.037791,0.052253,18,2,33,2715,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1759,'18RG234',2116.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.468135160677166,-0.468135159673412,2.2165681500328,299.696100770243,0.652074759939547,0.0,0.87424,0.037791,0.052253,18,2,34,2716,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1760,'18RG235',2117.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.471034977264007,-0.471034976260253,2.2165681500328,299.833430258028,0.65217251713109,0.0,0.87424,0.037791,0.052253,18,2,35,2717,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1761,'18RG236',2118.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.474404652830489,-0.474404651826735,2.2165681500328,299.970526090003,0.652270073236951,0.0,0.87424,0.037791,0.052253,18,2,36,2718,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1762,'18RG237',2119.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.478243002700163,-0.478243001696409,2.2165681500328,300.107353466401,0.652367403992509,0.0,0.87424,0.037791,0.052253,18,2,37,2719,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1763,'18RG238',2120.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.482548725813006,-0.482548724809252,2.2165681500328,300.243876942633,0.652464484748944,0.0,0.87424,0.037791,0.052253,18,2,38,2720,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1764,'18RG239',2121.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.487320402904695,-0.487320401900941,2.2165681500328,300.380060354364,0.652561290419994,0.0,0.87424,0.037791,0.052253,18,2,39,2721,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1765,'18RG240',2122.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.492556494436601,-0.492556493432847,2.2165681500328,300.515866745014,0.652657795430456,0.0,0.87424,0.037791,0.052253,18,2,40,2722,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1766,'18RG241',2123.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.498255338284987,-0.498255337281233,2.2165681500328,300.651258295947,0.652753973666623,0.0,0.87424,0.037791,0.052253,18,2,41,2723,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1767,'18RG242',2124.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.504415147200052,-0.504415146196298,2.2165681500328,300.786196259616,0.652849798428804,0.0,0.87424,0.037791,0.052253,18,2,42,2724,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1768,'18RG243',2125.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.511034006045132,-0.511034005041378,2.2165681500328,300.920640895913,0.65294524238612,0.0,0.87424,0.037791,0.052253,18,2,43,2725,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1769,'18RG244',2126.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.518109868827966,-0.518109867824212,2.2165681500328,301.054551412015,0.653040277533753,0.0,0.87424,0.037791,0.052253,18,2,44,2726,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1770,'18RG245',2127.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.525640555535967,-0.525640554532213,2.2165681500328,301.187885905981,0.653134875152823,0.0,0.87424,0.037791,0.052253,18,2,45,2727,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1771,'18RG246',2128.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.533623748789597,-0.533623747785843,2.2165681500328,301.320601314387,0.65322900577307,0.0,0.87424,0.037791,0.052253,18,2,46,2728,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1772,'18RG247',2129.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.542056990326822,-0.542056989323068,2.2165681500328,301.452653364277,0.653322639138532,0.0,0.87424,0.037791,0.052253,18,2,47,2729,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1773,'18RG248',2130.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.550937677334277,-0.550937676330523,2.2165681500328,301.583996529715,0.653415744176404,0.0,0.87424,0.037791,0.052253,18,2,48,2730,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1774,'18RG249',2131.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.560263058640852,-0.560263057637098,2.2165681500328,301.714583993215,0.653508288969251,0.0,0.87424,0.037791,0.052253,18,2,49,2731,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1775,'18RG250',2132.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.570030230789757,-0.570030229786003,2.2165681500328,301.844367612344,0.653600240730762,0.0,0.87424,0.037791,0.052253,18,2,50,2732,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1776,'18RG251',2133.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.580236134006564,-0.58023613300281,2.2165681500328,301.973297891771,0.653691565785245,0.0,0.87424,0.037791,0.052253,18,2,51,2733,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1777,'18RG252',2134.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.590877548082093,-0.590877547078339,2.2165681500328,302.101323961054,0.653782229551015,0.0,0.87424,0.037791,0.052253,18,2,52,2734,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1778,'18RG253',2135.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.601951088187827,-0.601951087184073,2.2165681500328,302.228393558435,0.653872196527877,0.0,0.87424,0.037791,0.052253,18,2,53,2735,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1779,'18RG254',2136.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.613453200644943,-0.61345319964189,2.2165681500328,302.354453020922,0.653961430288868,0.0,0.87424,0.037791,0.052253,18,2,54,2736,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1780,'18RG255',2137.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.625380158666454,-0.6253801576627,2.2165681500328,302.479447280918,0.65404989347643,0.0,0.87424,0.037791,0.052253,18,2,55,2737,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1781,'18RG256',2138.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.637728058094185,-0.637728057090431,2.2165681500328,302.603319869654,0.654137547803178,0.0,0.87424,0.037791,0.052253,18,2,56,2738,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1782,'18RG257',2139.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.650492813152506,-0.650492812148752,2.2165681500328,302.726012927672,0.654224354057412,0.0,0.87424,0.037791,0.052253,18,2,57,2739,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1783,'18RG258',2140.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.663670152241354,-0.6636701512376,2.2165681500328,302.847467222586,0.65431027211353,0.0,0.87424,0.037791,0.052253,18,2,58,2740,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1784,'18RG259',2141.0,805.0,0.121316779661,1.4528854696259,1.4528854696259,0.0,1.45288546877288,-0.677255613791667,-0.677255612787913,2.2165681500328,302.967622174336,0.654395260947468,0.0,0.87424,0.037791,0.052253,18,2,59,2741,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1785,'19RG101',2151.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.588574091054982,-0.58857408989388,2.58308729295161,303.09682832307,0.654482939019445,0.0,0.874618,0.037688,0.052254,19,1,1,2757,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1786,'19RG102',2152.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.575793872497217,-0.575793871336115,2.58308729295161,303.227128548453,0.654574143788243,0.0,0.874618,0.037688,0.052254,19,1,2,2758,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1787,'19RG103',2153.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.563455364268196,-0.563455363107094,2.58308729295161,303.35846499045,0.654666055479337,0.0,0.874618,0.037688,0.052254,19,1,3,2759,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1788,'19RG104',2154.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.551561734362612,-0.55156173320151,2.58308729295161,303.49078150837,0.654758633077918,0.0,0.874618,0.037688,0.052254,19,1,4,2760,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1789,'19RG105',2155.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.54011595304214,-0.54011595188038,2.58308729295161,303.624023674306,0.654851836840708,0.0,0.874618,0.037688,0.052254,19,1,5,2761,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1790,'19RG106',2156.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.529120799178664,-0.529120798017562,2.58308729295161,303.758138759234,0.654945628287234,0.0,0.874618,0.037688,0.052254,19,1,6,2762,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1791,'19RG107',2157.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.518578866536828,-0.518578865375726,2.58308729295161,303.893075712151,0.655039970185987,0.0,0.874618,0.037688,0.052254,19,1,7,2763,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1792,'19RG108',2158.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.508492569971715,-0.508492568810613,2.58308729295161,304.028785132612,0.655134826535727,0.0,0.874618,0.037688,0.052254,19,1,8,2764,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1793,'19RG109',2159.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.49886415151859,-0.498864150357488,2.58308729295161,304.165219237035,0.655230162542235,0.0,0.874618,0.037688,0.052254,19,1,9,2765,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1794,'19RG110',2160.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.489695686353308,-0.489695685192206,2.58308729295161,304.302331819148,0.655325944590791,0.0,0.874618,0.037688,0.052254,19,1,10,2766,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1795,'19RG111',2161.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.480989088603707,-0.480989087442605,2.58308729295161,304.440078204945,0.655422140214646,0.0,0.874618,0.037688,0.052254,19,1,11,2767,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1796,'19RG112',2162.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.472746116992703,-0.472746115831601,2.58308729295161,304.578415202503,0.655518718059781,0.0,0.874618,0.037688,0.052254,19,1,12,2768,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1797,'19RG113',2163.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.464968380296782,-0.46496837913568,2.58308729295161,304.71730104703,0.65561564784621,0.0,0.874618,0.037688,0.052254,19,1,13,2769,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1798,'19RG114',2164.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.457657342603107,-0.457657341442005,2.58308729295161,304.85669534148,0.655712900326102,0.0,0.874618,0.037688,0.052254,19,1,14,2770,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1799,'19RG115',2165.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.450814328351584,-0.450814327190482,2.58308729295161,304.996558993079,0.655810447238969,0.0,0.874618,0.037688,0.052254,19,1,15,2771,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1800,'19RG116',2166.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.444440527147912,-0.44444052598681,2.58308729295161,305.136854146094,0.655908261264185,0.0,0.874618,0.037688,0.052254,19,1,16,2772,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1801,'19RG117',2167.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.438536998336006,-0.438536997174904,2.58308729295161,305.277544111164,0.656006315971062,0.0,0.874618,0.037688,0.052254,19,1,17,2773,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1802,'19RG118',2168.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.43310467531898,-0.433104674157878,2.58308729295161,305.418593291503,0.65610458576673,0.0,0.874618,0.037688,0.052254,19,1,18,2774,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1803,'19RG119',2169.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.428144369618778,-0.428144368457676,2.58308729295161,305.559967106281,0.656203045842045,0.0,0.874618,0.037688,0.052254,19,1,19,2775,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1804,'19RG120',2170.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.423656774666065,-0.423656773504963,2.58308729295161,305.701631911464,0.656301672115736,0.0,0.874618,0.037688,0.052254,19,1,20,2776,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1805,'19RG121',2171.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.419642469312919,-0.419642468151817,2.58308729295161,305.843554918411,0.65640044117701,0.0,0.874618,0.037688,0.052254,19,1,21,2777,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1806,'19RG122',2172.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.416101921061646,-0.416101919900544,2.58308729295161,305.985704110473,0.656499330226811,0.0,0.874618,0.037688,0.052254,19,1,22,2778,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1807,'19RG123',2173.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.413035489004344,-0.413035487843242,2.58308729295161,306.128048157888,0.656598317017927,0.0,0.874618,0.037688,0.052254,19,1,23,2779,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1808,'19RG124',2174.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.410443426468711,-0.410443425307609,2.58308729295161,306.270556331193,0.656697379794138,0.0,0.874618,0.037688,0.052254,19,1,24,2780,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1809,'19RG125',2175.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.408325883366246,-0.408325882205144,2.58308729295161,306.413198413426,0.65679649722857,0.0,0.874618,0.037688,0.052254,19,1,25,2781,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1810,'19RG126',2176.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.40668290824015,-0.406682907079048,2.58308729295161,306.555944611341,0.65689564836145,0.0,0.874618,0.037688,0.052254,19,1,26,2782,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1811,'19RG127',2177.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.405514450010899,-0.405514448849797,2.58308729295161,306.698765465868,0.656994812537405,0.0,0.874618,0.037688,0.052254,19,1,27,2783,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1812,'19RG128',2178.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.404820359418388,-0.404820358257286,2.58308729295161,306.841631762051,0.657093969342493,0.0,0.874618,0.037688,0.052254,19,1,28,2784,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1813,'19RG129',2179.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.404600390159829,-0.404600388998727,2.58308729295161,306.984514438681,0.657193098541099,0.0,0.874618,0.037688,0.052254,19,1,29,2785,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1814,'19RG130',2180.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.404854199724689,-0.404854198563587,2.58308729295161,307.127384497843,0.657292180012869,0.0,0.874618,0.037688,0.052254,19,1,30,2786,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1815,'19RG131',2181.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.405581349926437,-
0.405581348765335,2.58308729295161,307.270212914591,0.65739119368982,0.0,0.874618,0.037688,0.052254,19,1,31,2787,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1816,'19RG132',2182.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.406781307133948,-
0.406781305972846,2.58308729295161,307.412970546966,0.657490119493783,0.0,0.874618,0.037688,0.052254,19,1,32,2788,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1817,'19RG133',2183.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.408453442204632,-
0.40845344104353,2.58308729295161,307.555628046567,0.657588937274319,0.0,0.874618,0.037688,0.052254,19,1,33,2789,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1818,'19RG134',2184.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.410597030122283,-
0.410597028961181,2.58308729295161,307.698155769891,0.657687626747255,0.0,0.874618,0.037688,0.052254,19,1,34,2790,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1819,'19RG135',2185.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.413211249343633,-
0.413211248182531,2.58308729295161,307.840523690648,0.657786167433989,0.0,0.874618,0.037688,0.052254,19,1,35,2791,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1820,'19RG136',2186.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.416295180858363,-
0.416295179697261,2.58308729295161,307.982701313278,0.657884538601694,0.0,0.874618,0.037688,0.052254,19,1,36,2792,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1821,'19RG137',2187.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.419847806967454,-
0.419847805806352,2.58308729295161,308.124657587875,0.657982719204592,0.0,0.874618,0.037688,0.052254,19,1,37,2793,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1822,'19RG138',2188.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.423868009785701,-
0.423868008624599,2.58308729295161,308.266360826752,0.658080687826413,0.0,0.874618,0.037688,0.052254,19,1,38,2794,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1823,'19RG139',2189.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.428354569475275,-
0.428354568314173,2.58308729295161,308.40777862286,0.658178422624214,0.0,0.874618,0.037688,0.052254,19,1,39,2795,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1824,'19RG140',2190.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.433306162217243,-
0.433306161056141,2.58308729295161,308.5488777703,0.658275901273692,0.0,0.874618,0.037688,0.052254,19,1,40,2796,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1825,'19RG141',2191.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.438721357929098,-
0.438721356767996,2.58308729295161,308.68962418717,0.658373100916151,0.0,0.874618,0.037688,0.052254,19,1,41,2797,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1826,'19RG142',2192.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.444598617737022,-
0.44459861657592,2.58308729295161,308.829982840964,0.658469998107276,0.0,0.874618,0.037688,0.052254,19,1,42,2798,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1827,'19RG143',2193.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.450936291211989,-
0.450936290050887,2.58308729295161,308.969917676803,0.658566568767878,0.0,0.874618,0.037688,0.052254,19,1,43,2799,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1828,'19RG144',2194.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.457732613380337,-
0.457732612219235,2.58308729295161,309.109391548729,0.658662788136761,0.0,0.874618,0.037688,0.052254,19,1,44,2800,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1829,'19RG145',2195.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.464985701518629,-
0.464985700357527,2.58308729295161,309.248366154331,0.658758630725891,0.0,0.874618,0.037688,0.052254,19,1,45,2801,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1830,'19RG146',2196.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.472693551745544,-
0.472693550584442,2.58308729295161,309.386801972969,0.658854070278025,0.0,0.874618,0.037688,0.052254,19,1,46,2802,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1831,'19RG147',2197.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.480854035422497,-
0.480854034261395,2.58308729295161,309.524658207867,0.658949079726979,0.0,0.874618,0.037688,0.052254,19,1,47,2803,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1832,'19RG148',2198.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.489464895375769,-
0.489464894214667,2.58308729295161,309.661892732362,0.659043631160704,0.0,0.874618,0.037688,0.052254,19,1,48,2804,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1833,'19RG149',2199.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.498523741955495,-
0.498523740794393,2.58308729295161,309.798462040578,0.659137695787358,0.0,0.874618,0.037688,0.052254,19,1,49,2805,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1834,'19RG150',2200.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.508028048944248,-
0.508028047783146,2.58308729295161,309.934321202825,0.659231243904543,0.0,0.874618,0.037688,0.052254,19,1,50,2806,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1835,'19RG151',2201.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.517975149332373,-
0.517975148171271,2.58308729295161,310.069423826014,0.659324244871898,0.0,0.874618,0.037688,0.052254,19,1,51,2807,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1836,'19RG152',2202.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.528362230975724,-
0.52836229814622,2.58308729295161,310.203722019372,0.659416667087229,0.0,0.874618,0.037688,0.052254,19,1,52,2808,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1837,'19RG153',2203.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.539186332153179,-
0.539186330992077,2.58308729295161,310.337166365773,0.659508477966358,0.0,0.874618,0.037688,0.052254,19,1,53,2809,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1838,'19RG154',2204.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.550444337041505,-
0.550444335880403,2.58308729295161,310.469705898948,0.659599643926877,0.0,0.874618,0.037688,0.052254,19,1,54,2810,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1839,'19RG155',2205.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.5621329711269,-
0.562132969965798,2.58308729295161,310.601288086907,0.659690130375986,0.0,0.874618,0.037688,0.052254,19,1,55,2811,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1840,'19RG156',2206.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.574248796572654,-
0.574248795411552,2.58308729295161,310.731858821822,0.6597799017026,0.0,0.874618,0.037688,0.052254,19,1,56,2812,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1841,'19RG157',2207.0,805.0,0.122372280702,1.4522575489708,1.4522575489708,0.0,1.45225754811815,-0.586788207562876,-
0.586788206401774,2.58308729295161,310.861362416687,0.659868921273887,0.0,0.874618,0.037688,0.052254,19,1,57,2813,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1842,'19RG201',2216.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.591282777306813,-
0.591282776093059,2.58308729295161,310.99143218846,0.659957729710149,0.0,0.874972,0.037592,0.052257,19,2,1,2821,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1843,'19RG202',2217.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.577975899070009,-
0.57797589785625,2.58308729295161,311.122654889824,0.660047086317053,0.0,0.874972,0.037592,0.052257,19,2,2,2822,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1844,'19RG203',2218.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.565098367215434,-
0.56509836600168,2.58308729295161,311.254971337282,0.660137170626626,0.0,0.874972,0.037592,0.052257,19,2,3,2823,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1845,'19RG204',2219.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.552653430648549,-
0.552653429434795,2.58308729295161,311.388324080564,0.660227941783635,0.0,0.874972,0.037592,0.052257,19,2,4,2824,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1846,'19RG205',2220.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.540644142831704,-
0.54064414161795,2.58308729295161,311.522657404293,0.660319360182806,0.0,0.874972,0.037592,0.052257,19,2,5,2825,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1847,'19RG206',2221.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.529073367978165,-
0.529073366764411,2.58308729295161,311.657917322172,0.660411387465985,0.0,0.874972,0.037592,0.052257,19,2,6,2826,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1848,'19RG207',2222.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.517943787214621,-
0.517943786000867,2.58308729295161,311.794051564046,0.660503986514183,0.0,0.874972,0.037592,0.052257,19,2,7,2827,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1849,'19RG208',2223.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.507257904688112,-
0.507257903474358,2.58308729295161,311.931009556193,0.660597121434781,0.0,0.874972,0.037592,0.052257,19,2,8,2828,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1850,'19RG209',2224.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.497018053594375,-
0.497018052380621,2.58308729295161,312.068742395201,0.660690757544149,0.0,0.874972,0.037592,0.052257,19,2,9,2829,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1851,'19RG210',2225.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.487226402106467,-
0.487226400892713,2.58308729295161,312.207202815778,0.66078486134596,0.0,0.874972,0.037592,0.052257,19,2,10,2830,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1852,'19RG211',2226.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.477884959183102,-
0.477884957969348,2.58308729295161,312.346345152866,0.66087940050544,0.0,0.874972,0.037592,0.052257,19,2,11,2831,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1853,'19RG212',2227.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.468995580238379,-
0.468995579024625,2.58308729295161,312.486125298404,0.660974343819849,0.0,0.874972,0.037592,0.052257,19,2,12,2832,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1854,'19RG213',2228.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.460559972655049,-
0.460559971441295,2.58308729295161,312.626500653079,0.661069661185415,0.0,0.874972,0.037592,0.052257,19,2,13,2833,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1855,'19RG214',2229.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.452579701125339,-
0.452579699911585,2.58308729295161,312.767430073431,0.661165323561013,0.0,0.874972,0.037592,0.052257,19,2,14,2834,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1856,'19RG215',2230.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.44505619280436,-
0.44505619159060,2.58308729295161,312.908873814616,0.661261302928799,0.0,0.874972,0.037592,0.052257,19,2,15,2835,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1857,'19RG216',2231.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.437990742262394,-
0.43799074104864,2.58308729295161,313.050793469177,0.661357572252068,0.0,0.874972,0.037592,0.052257,19,2,16,2836,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1858,'19RG217',2232.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.431384516223476,-0.431384515009722,2.58308729295161,313.193151902129,0.661454105430562,0.0,0.874972,0.037592,0.052257,19,2,17,2837,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1859,'19RG218',2233.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.425238558078939,-0.425238556865185,2.58308729295161,313.335913182666,0.661550877253442,0.0,0.874972,0.037592,0.052257,19,2,18,2838,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1860,'19RG219',2234.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.41955379216573,-0.419553790951976,2.58308729295161,313.479042512785,0.661647863350167,0.0,0.874972,0.037592,0.052257,19,2,19,2839,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1861,'19RG220',2235.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.414331027800154,-0.4143310265864,2.58308729295161,313.622506153123,0.661745040139464,0.0,0.874972,0.037592,0.052257,19,2,20,2840,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1862,'19RG221',2236.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.409570963058842,-0.409570961845088,2.58308729295161,313.766271346276,0.661842384776609,0.0,0.874972,0.037592,0.052257,19,2,21,2841,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1863,'19RG222',2237.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.405274188299936,-0.405274187086182,2.58308729295161,313.910306237864,0.661939875099211,0.0,0.874972,0.037592,0.052257,19,2,22,2842,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1864,'19RG223',2238.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.401441189417939,-0.401441188204185,2.58308729295161,314.054579795613,0.66203748957168,0.0,0.874972,0.037592,0.052257,19,2,23,2843,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1865,'19RG224',2239.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.398072350827101,-0.398072349613347,2.58308729295161,314.199061726681,0.662135207228558,0.0,0.874972,0.037592,0.052257,19,2,24,2844,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1866,'19RG225',2240.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.395167958168501,-0.395167956954747,2.58308729295161,314.34372239349,0.662233007616893,0.0,0.874972,0.037592,0.052257,19,2,25,2845,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1867,'19RG226',2241.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.39272820073763,-0.392728199523876,2.58308729295161,314.488532728276,0.662330870737811,0.0,0.874972,0.037592,0.052257,19,2,26,2846,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1868,'19RG227',2242.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.390753173628867,-0.390753172415113,2.58308729295161,314.633464146592,0.662428776987458,0.0,0.874972,0.037592,0.052257,19,2,27,2847,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1869,'19RG228',2243.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.389242879595309,-0.389242878381555,2.58308729295161,314.778488459968,0.662526707097442,0.0,0.874972,0.037592,0.052257,19,2,28,2848,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1870,'19RG229',2244.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.388197230622113,-0.388197229408359,2.58308729295161,314.923577787954,0.662624642074948,0.0,0.874972,0.037592,0.052257,19,2,29,2849,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1871,'19RG230',2245.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.387616049212889,-0.387616047999135,2.58308729295161,315.068704469743,0.662722563142657,0.0,0.874972,0.037592,0.052257,19,2,30,2850,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1872,'19RG231',2246.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.38749906938864,-0.387499068174886,2.58308729295161,315.213840975563,0.662820451678601,0.0,0.874972,0.037592,0.052257,19,2,31,2851,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1873,'19RG232',2247.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.387845937400408,-0.387845936186654,2.58308729295161,315.358959818063,0.662918289156106,0.0,0.874972,0.037592,0.052257,19,2,32,2852,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1874,'19RG233',2248.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.388656212156222,-0.388656210942468,2.58308729295161,315.504033463864,0.663016057083938,0.0,0.874972,0.037592,0.052257,19,2,33,2853,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1875,'19RG234',2249.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.389929365364688,-0.389929364150934,2.58308729295161,315.649034245473,0.663113736946798,0.0,0.874972,0.037592,0.052257,19,2,34,2854,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1876,'19RG235',2250.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.39166478139751,-0.39166478183756,2.58308729295161,315.793934273768,0.663211310146281,0.0,0.874972,0.037592,0.052257,19,2,35,2855,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1877,'19RG236',2251.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.393861756873656,-0.393861755659902,2.58308729295161,315.938705351227,0.663308757942441,0.0,0.874972,0.037592,0.052257,19,2,36,2856,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1878,'19RG237',2252.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.396519499969246,-0.396519498755492,2.58308729295161,316.08331888611,0.663406061396076,0.0,0.874972,0.037592,0.052257,19,2,37,2857,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1879,'19RG238',2253.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.399637129457156,-0.399637128243402,2.58308729295161,316.22774580778,0.663503201311873,0.0,0.874972,0.037592,0.052257,19,2,38,2858,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1880,'19RG239',2254.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.403213673481305,-0.403213672267551,2.58308729295161,316.371956483381,0.663600158182529,0.0,0.874972,0.037592,0.052257,19,2,39,2859,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1881,'19RG240',2255.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.407248068070794,-0.40724806685704,2.58308729295161,316.515920636046,0.663696912133998,0.0,0.874972,0.037592,0.052257,19,2,40,2860,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1882,'19RG241',2256.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.411739155400242,-0.411739154186488,2.58308729295161,316.659607264878,0.66379344287197,0.0,0.874972,0.037592,0.052257,19,2,41,2861,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1883,'19RG242',2257.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.416685681802571,-0.416685680588817,2.58308729295161,316.802984566888,0.663889729629741,0.0,0.874972,0.037592,0.052257,19,2,42,2862,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1884,'19RG243',2258.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.422086295541733,-0.422086294327979,2.58308729295161,316.94601986112,0.663985751117597,0.0,0.874972,0.037592,0.052257,19,2,43,2863,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1885,'19RG244',2259.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.427939544353472,-0.427939543139718,2.58308729295161,317.088679515198,0.664081485473854,0.0,0.874972,0.037592,0.052257,19,2,44,2864,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1886,'19RG245',2260.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.434243872761912,-0.434243871548158,2.58308729295161,317.230928874494,0.664176910217703,0.0,0.874972,0.037592,0.052257,19,2,45,2865,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1887,'19RG246',2261.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.440997619181851,-0.440997617968097,2.58308729295161,317.372732194195,0.664272002204,0.0,0.874972,0.037592,0.052257,19,2,46,2866,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1888,'19RG247',2262.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.448199012816134,-0.44819901160238,2.58308729295161,317.514052574476,0.664366737580154,0.0,0.874972,0.037592,0.052257,19,2,47,2867,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1889,'19RG248',2263.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.455846170359189,-0.455846169145435,2.58308729295161,317.65485189905,0.664461091745269,0.0,0.874972,0.037592,0.052257,19,2,48,2868,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1890,'19RG249',2264.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.463937092517015,-0.463937091303261,2.58308729295161,317.795090777348,0.664555039311695,0.0,0.874972,0.037592,0.052257,19,2,49,2869,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1891,'19RG250',2265.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.472469660356589,-0.472469659142835,2.58308729295161,317.934728490585,0.664648554069145,0.0,0.874972,0.037592,0.052257,19,2,50,2870,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1892,'19RG251',2266.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.481441631496325,-0.481441630282571,2.58308729295161,318.073722941989,0.664741608951549,0.0,0.874972,0.037592,0.052257,19,2,51,2871,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1893,'19RG252',2267.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.490850636151771,-0.490850634938017,2.58308729295161,318.212030611457,0.664834176006807,0.0,0.874972,0.037592,0.052257,19,2,52,2872,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1894,'19RG253',2268.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.500694173050208,-0.500694171836454,2.58308729295161,318.349606514931,0.664926226369609,0.0,0.874972,0.037592,0.052257,19,2,53,2873,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1895,'19RG254',2269.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.510969605229357,-0.510969604015603,2.58308729295161,318.486404168752,0.665017730237493,0.0,0.874972,0.037592,0.052257,19,2,54,2874,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1896,'19RG255',2270.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.521674155734958,-0.521674154521204,2.58308729295161,318.622375559296,0.665108656850312,0.0,0.874972,0.037592,0.052257,19,2,55,2875,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1897,'19RG256',2271.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.532804903234898,-0.532804902021144,2.58308729295161,318.757471118168,0.665198974473282,0.0,0.874972,0.037592,0.052257,19,2,56,2876,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1898,'19RG257',2272.0,805.0,0.123416315789,1.45166998825761,1.45166998825761,0.0,1.45166998740531,-0.544358777565991,-0.544358776352237,2.58308729295161,318.891639703234,0.665288650383782,0.0,0.874972,0.037592,0.052257,19,2,57,2877,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1899,'20RG101',2282.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.635813851590669,-0.635813850523648,2.94960643587042,319.018702207398,0.665375611906195,0.0,0.87531,0.037501,0.05226,20,1,1,2891,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1900,'20RG102',2283.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.623232884036354,-0.623232882969333,2.94960643587042,319.146936646688,0.665460560867255,0.0,0.87531,0.037501,0.05226,20,1,2,2892,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1901,'20RG103',2284.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.611056722815786,-0.611056721748765,2.94960643587042,319.276286115001,0.665546233626218,0.0,0.87531,0.037501,0.05226,20,1,3,2893,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1902,'20RG104',2285.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.599288590897465,-0.599288589830444,2.94960643587042,319.406695154831,0.665632591866156,0.0,0.87531,0.037501,0.05226,20,1,4,2894,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1903,'20RG105',2286.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.587931529117163,-0.587931528050142,2.94960643587042,319.538109763095,0.6657195982933,0.0,0.87531,0.037501,0.05226,20,1,5,2895,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1904,'20RG106',2287.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.576988401225878,-0.576988400158857,2.94960643587042,319.67047739041,0.665807216637827,0.0,0.87531,0.037501,0.05226,20,1,6,2896,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1905,'20RG107',2288.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.566461898927438,-0.566461897860417,2.94960643587042,319.803746934066,0.665895411650276,0.0,0.87531,0.037501,0.05226,20,1,7,2897,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1906,'20RG108',2289.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.556354546885134,-0.556354545818113,2.94960643587042,319.937868724996,0.665984149093763,0.0,0.87531,0.037501,0.05226,20,1,8,2898,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1907,'20RG109',2290.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.546668707677763,-0.546668706610742,2.94960643587042,320.072794509025,0.666073395732229,0.0,0.87531,0.037501,0.05226,20,1,9,2899,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1908,'20RG110',2291.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.537406586686305,-0.537406585619284,2.94960643587042,320.208477422671,0.666163119314921,0.0,0.87531,0.037501,0.05226,20,1,10,2900,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1909,'20RG111',2292.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.528570236894164,-0.528570235827143,2.94960643587042,320.344871963821,0.666253288557312,0.0,0.87531,0.037501,0.05226,20,1,11,2901,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1910,'20RG112',2293.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.520161563583985,-0.520161562516964,2.94960643587042,320.481933957541,0.666343873118676,0.0,0.87531,0.037501,0.05226,20,1,12,2902,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1911,'20RG113',2294.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.512182328916107,-0.512182327849086,2.94960643587042,320.619620517332,0.666434843576531,0.0,0.87531,0.037501,0.05226,20,1,13,2903,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1912,'20RG114',2295.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.504634156373828,-0.504634155306807,2.94960643587042,320.75789000211,0.666526171398149,0.0,0.87531,0.037501,0.05226,20,1,14,2904,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1913,'20RG115',2296.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.497518535062634,-0.497518533995613,2.94960643587042,320.896701969197,0.666617828909343,0.0,0.87531,0.037501,0.05226,20,1,15,2905,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1914,'20RG116',2297.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.490836823850645,-0.490836822783624,2.94960643587042,321.036017123606,0.66670978926073,0.0,0.87531,0.037501,0.05226,20,1,16,2906,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1915,'20RG117',2298.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.484590255339124,-0.484590254272103,2.94960643587042,321.175797263886,0.66680202639167,0.0,0.87531,0.037501,0.05226,20,1,17,2907,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1916,'20RG118',2299.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.478779939652614,-0.478779938585593,2.94960643587042,321.3160052248,0.666894514992064,0.0,0.87531,0.037501,0.05226,20,1,18,2908,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1917,'20RG119',2300.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.473406868039229,-0.473406866972208,2.94960643587042,321.456604817104,0.66698723046221,0.0,0.87531,0.037501,0.05226,20,1,19,2909,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1918,'20RG120',2301.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.468471916272551,-0.46847191520553,2.94960643587042,321.597560764673,0.667080148870889,0.0,0.87531,0.037501,0.05226,20,1,20,2910,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1919,'20RG121',2302.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.463975847847531,-0.4639758467805l,2.94960643587042,321.738838639231,0.667173246911863,0.0,0.87531,0.037501,0.05226,20,1,21,2911,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1920,'20RG122',2303.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.459919316963311,-0.45991931589629,2.94960643587042,321.880404792916,0.667266501858954,0.0,0.87531,0.037501,0.05226,20,1,22,2912,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1921,'20RG123',2304.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.456302871287401,-0.45630287022038,2.94960643587042,322.022226288936,0.667359891519869,0.0,0.87531,0.037501,0.05226,20,1,23,2913,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1922,'20RG124',2305.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.453126954495476,-0.453126953428455,2.94960643587042,322.16427083052,0.667453394188937,0.0,0.87531,0.037501,0.05226,20,1,24,2914,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1923,'20RG125',2306.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.450391908582783,-0.450391907515762,2.94960643587042,322.306506688411,0.6675469885989,0.0,0.87531,0.037501,0.05226,20,1,25,2915,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1924,'20RG126',2307.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.448097975943244,-0.448097974876223,2.94960643587042,322.448902627097,0.667640653871931,0.0,0.87531,0.037501,0.05226,20,1,26,2916,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1925,'20RG127',2308.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.446245301213206,-0.446245300146185,2.94960643587042,322.591427830007,0.667734369469995,0.0,0.87531,0.037501,0.05226,20,1,27,2917,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1926,'20RG128',2309.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.444833932877688,-0.444833931810667,2.94960643587042,322.734051823874,0.667828115144729,0.0,0.87531,0.037501,0.05226,20,1,28,2918,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1927,'20RG129',2310.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.4438638246373,-0.443863823570279,2.94960643587042,322.876744402463,0.667921870886946,0.0,0.87531,0.037501,0.05226,20,1,29,2919,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1928,'20RG130',2311.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.44333483653516,-0.443334835468139,2.94960643587042,323.019475549868,0.668015616875921,0.0,0.87531,0.037501,0.05226,20,1,30,2920,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1929,'20RG131',2312.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.443246735842943,-0.443246734775922,2.94960643587042,323.162215363573,0.668109333428577,0.0,0.87531,0.037501,0.05226,20,1,31,2921,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1930,'20RG132',2313.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.443599197706933,-0.443599196639912,2.94960643587042,323.304933977465,0.668203000948712,0.0,0.87531,0.037501,0.05226,20,1,32,2922,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1931,'20RG133',2314.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.444391805554171,-0.44439180448715,2.94960643587042,323.447601484994,0.668296599876368,0.0,0.87531,0.037501,0.05226,20,1,33,2923,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1932,'20RG134',2315.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.445624051261109,-0.445624050194088,2.94960643587042,323.590187862673,0.668390110637505,0.0,0.87531,0.037501,0.05226,20,1,34,2924,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1933,'20RG135',2316.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.447295335085708,-0.447295334018687,2.94960643587042,323.732662894091,0.668483513594065,0.0,0.87531,0.037501,0.05226,20,1,35,2925,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1934,'20RG136',2317.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.449404965366486,-0.449404964299465,2.94960643587042,323.874996094653,0.668576788994571,0.0,0.87531,0.037501,0.05226,20,1,36,2926,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1935,'20RG137',2318.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.451952157991026,-0.451952156924005,2.94960643587042,324.017156637211,0.668669916925372,0.0,0.87531,0.037501,0.05226,20,1,37,2927,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1936,'20RG138',2319.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.454936035638002,-0.454936034570981,2.94960643587042,324.159113278792,0.668762877262668,0.0,0.87531,0.037501,0.05226,20,1,38,2928,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1937,'20RG139',2320.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.458355626796854,-0.458355625729833,2.94960643587042,324.300834288615,0.668855649625415,0.0,0.87531,0.037501,0.05226,20,1,39,2929,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1938,'20RG140',2321.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.462209864569959,-0.462209863502938,2.94960643587042,324.44228737758,0.668948213329251,0.0,0.87531,0.037501,0.05226,20,1,40,2930,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1939,'20RG141',2322.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.466497585262654,-0.466497584195633,2.94960643587042,324.583439629442,0.669040547341562,0.0,0.87531,0.037501,0.05226,20,1,41,2931,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1940,'20RG142',2323.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.471217526767009,-0.471217525699988,2.94960643587042,324.724257433853,0.669132630237804,0.0,0.87531,0.037501,0.05226,20,1,42,2932,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1941,'20RG143',2324.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.476368326746079,-0.476368325679058,2.94960643587042,324.864706421497,0.669224440159212,0.0,0.87531,0.037501,0.05226,20,1,43,2933,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1942,'20RG144',2325.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.481948520625368,-0.481948519558347,2.94960643587042,325.004751401503,0.66931595477203,0.0,0.87531,0.037501,0.05226,20,1,44,2934,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1943,'20RG145',2326.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.487956539399188,-0.487956538332167,2.94960643587042,325.144356301362,0.669407151228372,0.0,0.87531,0.037501,0.05226,20,1,45,2935,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1944,'20RG146',2327.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.494390707260794,-0.494390706193773,2.94960643587042,325.283484109557,0.669498006128866,0.0,0.87531,0.037501,0.05226,20,1,46,2936,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1945,'20RG147',2328.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.501249239063877,-0.501249237996856,2.94960643587042,325.422096821131,0.669588495487195,0.0,0.87531,0.037501,0.05226,20,1,47,2937,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1946,'20RG148',2329.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.508530237626078,-0.508530236559057,2.94960643587042,325.560155386402,0.669678594696686,0.0,0.87531,0.037501,0.05226,20,1,48,2938,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1947,'20RG149',2330.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.516231690883809,-0.516231689816788,2.94960643587042,325.697619663068,0.669768278499063,0.0,0.87531,0.037501,0.05226,20,1,49,2939,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1948,'20RG150',2331.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.524351468908708,-0.524351467841687,2.94960643587042,325.834448371921,0.669857520955516,0.0,0.87531,0.037501,0.05226,20,1,50,2940,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1949,'20RG151',2332.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.532887320798248,-0.532887319731227,2.94960643587042,325.970599056402,0.669946295420226,0.0,0.87531,0.037501,0.05226,20,1,51,2941,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1950,'20RG152',2333.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.541836871450729,-0.541836870383708,2.94960643587042,326.106028046231,0.67003457451646,0.0,0.87531,0.037501,0.05226,20,1,52,2942,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1951,'20RG153',2334.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.551197618237945,-0.55119761717 0924,2.94960643587042,326.240690425358,0.670122330115417,0.0,0.87531,0.037501,0.05226,20,1,53,2943,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1952,'20RG154',2335.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.560966927588896,-0.560966926521875,2.94960643587042,326.374540004444,0.670209533317918,0.0,0.87531,0.037501,0.05226,20,1,54,2944,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1953,'20RG155',2336.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.571142031497042,-0.57114203043 0021,2.94960643587042,326.507529298143,0.670296154439117,0.0,0.87531,0.037501,0.05226,20,1,55,2945,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1954,'20RG156',2337.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.581720023966571,-0.58172002289955,2.94960643587042,326.639609507381,0.670382162996347,0.0,0.87531,0.037501,0.05226,20,1,56,2946,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1955,'20RG157',2338.0,805.0,0.124400350877,1.45110942747797,1.45110942747797,0.0,1.45110942662599,-0.592697857411873,-0.592697856344852,2.94960643587042,326.770730506894,0.670467527700242,0.0,0.87531,0.037501,0.05226,20,1,57,2947,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1956,'20RG201',2347.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.605390841745349,-0.605390840737572,2.94960643587042,326.901519479783,0.670552436410447,0.0,0.875638,0.037412,0.052263,20,2,1,2955,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1957,'20RG202',2348.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.594977141230505,-0.594977140222728,2.94960643587042,327.033246184254,0.670637504268407,0.0,0.875638,0.037412,0.052263,20,2,2,2956,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1958,'20RG203',2349.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.584964925780394,-0.584964924772617,2.94960643587042,327.165861130389,0.670723126207398,0.0,0.875638,0.037412,0.052263,20,2,3,2957,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1959,'20RG204',2350.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.575356607673847,-0.57535660666607,2.94960643587042,327.299316121233,0.670809269850577,0.0,0.875638,0.037412,0.052263,20,2,4,2958,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1960,'20RG205',2351.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.56615444693745,-0.566154445929673,2.94960643587042,327.433564235224,0.670895903704178,0.0,0.875638,0.037412,0.052263,20,2,5,2959,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1961,'20RG206',2352.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.557360555630108,-0.557360554622331,2.94960643587042,327.568559803733,0.670982997143507,0.0,0.875638,0.037412,0.052263,20,2,6,2960,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1962,'20RG207',2353.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.548976902050523,-0.548976901042746,2.94960643587042,327.704258383952,0.671070520395808,0.0,0.875638,0.037412,0.052263,20,2,7,2961,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1963,'20RG208',2354.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.541005314853198,-0.541005313845421,2.94960643587042,327.84061672741,0.671158444520176,0.0,0.875638,0.037412,0.052263,20,2,8,2962,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1964,'20RG209',2355.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.533447487059501,-0.533447486051724,2.94960643587042,327.977592744353,0.671246741384708,0.0,0.875638,0.037412,0.052263,20,2,9,2963,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1965,'20RG210',2356.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.526304979951082,-0.526304978943305,2.94960643587042,328.115145464256,0.671335383641063,0.0,0.875638,0.037412,0.052263,20,2,10,2964,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1966,'20RG211',2357.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.51957922683415,-0.519579225826373,2.94960643587042,328.253234992716,0.671424344696609,0.0,0.875638,0.037412,0.052263,20,2,11,2965,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1967,'20RG212',2358.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.513271536663428,-0.513271535655651,2.94960643587042,328.391822464974,0.671513598684337,0.0,0.875638,0.037412,0.052263,20,2,12,2966,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1968,'20RG213',2359.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.507383097516165,-0.507383096508388,2.94960643587042,328.530869996316,0.671603120430707,0.0,0.875638,0.037412,0.052263,20,2,13,2967,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1969,'20RG214',2360.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.501914979906633,-0.501914978898856,2.94960643587042,328.670340629587,0.671692885421597,0.0,0.875638,0.037412,0.052263,20,2,14,2968,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1970,'20RG215',2361.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.496868139933024,-0.496868138925247,2.94960643587042,328.810198280068,0.67178286976652,0.0,0.875638,0.037412,0.052263,20,2,15,2969,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1971,'20RG216',2362.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.492243422249135,-0.492243421241358,2.94960643587042,328.95040767793,0.671873050161265,0.0,0.875638,0.037412,0.052263,20,2,16,2970,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1972,'20RG217',2363.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.488041562853891,-0.488041561846114,2.94960643587042,329.090934308505,0.671963403849122,0.0,0.875638,0.037412,0.052263,20,2,17,2971,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1973,'20RG218',2364.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.484263191692751,-0.484263190684974,2.94960643587042,329.231744350591,0.672053908580849,0.0,0.875638,0.037412,0.052263,20,2,18,2972,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1974,'20RG219',2365.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.480908835065744,-0.480908834057967,2.94960643587042,329.372804613004,0.672144542573506,0.0,0.875638,0.037412,0.052263,20,2,19,2973,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1975,'20RG220',2366.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.477978917837252,-0.477978916829475,2.94960643587042,329.514082469595,0.672235284468333,0.0,0.875638,0.037412,0.052263,20,2,20,2974,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1976,'20RG221',2367.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.475473765443876,-0.475473764436099,2.94960643587042,329.655545792928,0.672326113287778,0.0,0.875638,0.037412,0.052263,20,2,21,2975,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1977,'20RG222',2368.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.473393605696916,-0.473393604689139,2.94960643587042,329.797162886828,0.672417008391839,0.0,0.875638,0.037412,0.052263,20,2,22,2976,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1978,'20RG223',2369.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.471738570376797,-0.47173856936902,2.94960643587042,329.938902417998,0.672507949433832,0.0,0.875638,0.037412,0.052263,20,2,23,2977,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1979,'20RG224',2370.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.470508696617362,-0.470508695609585,2.94960643587042,330.080733346888,0.672598916315723,0.0,0.875638,0.037412,0.052263,20,2,24,2978,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1980,'20RG225',2371.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.469703928079138,-0.469703927071361,2.94960643587042,330.222624858015,0.672689889143152,0.0,0.875638,0.037412,0.052263,20,2,25,2979,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1981,'20RG226',2372.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.469324115909618,-0.469324114901841,2.94960643587042,330.364546289918,0.672780848180264,0.0,0.875638,0.037412,0.052263,20,2,26,2980,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1982,'20RG227',2373.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.469369019491577,-0.4693690184838,2.94960643587042,330.506467064935,0.672871773804468,0.0,0.875638,0.037412,0.052263,20,2,27,2981,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1983,'20RG228',2374.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.469838306978563,-0.469838305970786,2.94960643587042,330.64835661897,0.67296264646126,0.0,0.875638,0.037412,0.052263,20,2,28,2982,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1984,'20RG229',2375.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.470731555619391,-0.470731554611614,2.94960643587042,330.790184331457,0.67305344661919,0.0,0.875638,0.037412,0.052263,20,2,29,2983,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1985,'20RG230',2376.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.472048251872227,-0.47204825086445,2.94960643587042,330.931919455674,0.67314415472513,0.0,0.875638,0.037412,0.052263,20,2,30,2984,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1986,'20RG231',2377.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.47378779131051,-0.473787790302733,2.94960643587042,331.073531049601,0.673234751159923,0.0,0.875638,0.037412,0.052263,20,2,31,2985,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (1987,'20RG232',2378.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.475949478323219,-0.47594947731544,2.94960643587042,331.214987907495,0.673325216194548,0.0,0.875638,0.037412,0.052263,20,2,32,2986,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1988,'20RG233',2379.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.478532525612206,-0.478532524604429,2.94960643587042,331.356258492372,0.673415529946892,0.0,0.875638,0.037412,0.052263,20,2,33,2987,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1989,'20RG234',2380.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.481536053490206,-0.481536052482429,2.94960643587042,331.497310869553,0.673505672339272,0.0,0.875638,0.037412,0.052263,20,2,34,2988,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1990,'20RG235',2381.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.484959088983285,-0.484959087975508,2.94960643587042,331.63811264149,0.673595623056778,0.0,0.875638,0.037412,0.052263,20,2,35,2989,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1991,'20RG236',2382.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.488800564742764,-0.488800563734987,2.94960643587042,331.778630884017,0.673685361506591,0.0,0.875638,0.037412,0.052263,20,2,36,2990,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1992,'20RG237',2383.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.493059317770427,-0.49305931676265,2.94960643587042,331.918832084246,0.673774866778359,0.0,0.875638,0.037412,0.052263,20,2,37,2991,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1993,'20RG238',2384.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.497734087964037,-0.49773408695626,2.94960643587042,332.058682080273,0.673864117605757,0.0,0.875638,0.037412,0.052263,20,2,38,2992,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1994,'20RG239',2385.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.502823516487975,-0.502823515480198,2.94960643587042,332.198146002893,0.673953092329344,0.0,0.875638,0.037412,0.052263,20,2,39,2993,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1995,'20RG240',2386.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.508326143976024,-0.508326142968247,2.94960643587042,332.337188219514,0.674041768860832,0.0,0.875638,0.037412,0.052263,20,2,40,2994,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1996,'20RG241',2387.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.514240408573198,-0.514240407565421,2.94960643587042,332.475772280473,0.674130124648887,0.0,0.875638,0.037412,0.052263,20,2,41,2995,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1997,'20RG242',2388.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.520564643824319,-0.520564642816542,2.94960643587042,332.613860867942,0.674218136646566,0.0,0.875638,0.037412,0.052263,20,2,42,2996,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1998,'20RG243',2389.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.527297076417309,-0.527297075409532,2.94960643587042,332.751415747628,0.674305781280532,0.0,0.875638,0.037412,0.052263,20,2,43,2997,'ccl_gap');
INSERT INTO `rf_gap` VALUES (1999,'20RG244',2390.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.534435823789881,-0.534435822782104,2.94960643587042,332.888397723479,0.674393034422142,0.0,0.875638,0.037412,0.052263,20,2,44,2998,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2000,'20RG245',2391.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.54197889160876,-0.541978890600983,2.94960643587042,333.024766595586,0.674479871360548,0.0,0.875638,0.037412,0.052263,20,2,45,2999,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2001,'20RG246',2392.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.549924171130673,-0.549924170122896,2.94960643587042,333.160481121506,0.674566266777918,0.0,0.875638,0.037412,0.052263,20,2,46,3000,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2002,'20RG247',2393.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.55826943645658,-0.558269435448803,2.94960643587042,333.295498981201,0.674652194726909,0.0,0.875638,0.037412,0.052263,20,2,47,3001,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2003,'20RG248',2394.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.567012341687974,-0.567012340680197,2.94960643587042,333.429776745804,0.674737628610505,0.0,0.875638,0.037412,0.052263,20,2,48,3002,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2004,'20RG249',2395.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.576150417998587,-0.57615041699081,2.94960643587042,333.563269850434,0.674822541164347,0.0,0.875638,0.037412,0.052263,20,2,49,3003,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2005,'20RG250',2396.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.58568107063147,-0.585681069623693,2.94960643587042,333.69593257125,0.674906904441676,0.0,0.875638,0.037412,0.052263,20,2,50,3004,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2006,'20RG251',2397.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.595601575835072,-0.595601574827295,2.94960643587042,333.827718006968,0.674990690980100,4,0.0,0.875638,0.037412,0.052263,20,2,51,3005,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2007,'20RG252',2398.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.605909077750443,-0.605909076742666,2.94960643587042,333.95857806503,0.675073867896625,0.0,0.875638,0.037412,0.052263,20,2,52,3006,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2008,'20RG253',2399.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.616600585263068,-0.616600584255291,2.94960643587042,334.088463452638,0.675156408672106,0.0,0.875638,0.037412,0.052263,20,2,53,3007,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2009,'20RG254',2400.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.627672968833398,-0.627672967825621,2.94960643587042,334.217323672845,0.675238281356831,0.0,0.875638,0.037412,0.052263,20,2,54,3008,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2010,'20RG255',2401.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.639122957319866,-0.639122956312089,2.94960643587042,334.345107025881,0.675319454465741,0.0,0.875638,0.037412,0.052263,20,2,55,3009,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2011,'20RG256',2402.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.650947134809588,-0.650947133801811,2.94960643587042,334.471760615907,0.6753998958023 49,0.0,0.875638,0.037412,0.052263,20,2,56,3010,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2012,'20RG257',2403.0,805.0,0.125282105263,1.45056586507866,1.45056586507866,0.0,1.450565864227,-0.663141937471448,-0.663141936463671,2.94960643587042,334.597230363372,0.675479572465143,0.0,0.875638,0.037412,0.052263,20,2,57,3011,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2013,'21RG101',2413.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.61200314461016,-0.612003143544634,3.35103216382911,334.728423902608,0.675560649911944,0.0,0.875953,0.037327,0.052267,21,1,1,3027,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2014,'21RG102',2414.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.60065743677891,-0.600657435713384,3.35103216382911,334.86065591375,0.675643827905004,0.0,0.875953,0.037327,0.052267,21,1,2,3028,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2015,'21RG103',2415.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.589701676074431,-0.589701675008905,3.35103216382911,334.993874675677,0.675727608929954,0.0,0.875953,0.037327,0.052267,21,1,3,3029,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2016,'21RG104',2416.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.579138490690407,-0.579138489624881,3.35103216382911,335.128029816276,0.675811959973023,0.0,0.875953,0.037327,0.052267,21,1,4,3030,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2017,'21RG105',2417.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.568970354563308,-0.568970353497782,3.35103216382911,335.263072305407,0.67589684892056,0.0,0.875953,0.037327,0.052267,21,1,5,3031,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2018,'21RG106',2418.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.559199591718986,-0.55919959065346,3.35103216382911,335.398954442569,0.675982244551955,0.0,0.875953,0.037327,0.052267,21,1,6,3032,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2019,'21RG107',2419.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.549828380574816,-0.54982837950929,3.35103216382911,335.535629839523,0.676068116529226,0.0,0.875953,0.037327,0.052267,21,1,7,3033,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2020,'21RG108',2420.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.540858758182267,-0.540858757116741,3.35103216382911,335.673053398112,0.676154435383461,0.0,0.875953,0.037327,0.052267,21,1,8,3034,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2021,'21RG109',2421.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.532292624395118,-0.532292623329592,3.35103216382911,335.811181283543,0.676241172498262,0.0,0.875953,0.037327,0.052267,21,1,9,3035,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2022,'21RG110',2422.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.5241317459501,-0.524131744884574,3.35103216382911,335.949970893361,0.67632830009039,0.0,0.875953,0.037327,0.052267,21,1,10,3036,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2023,'21RG111',2423.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.516377760446893,-0.516377759381367,3.35103216382911,336.089380822387,0.676415791187758,0.0,0.875953,0.037327,0.052267,21,1,11,3037,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2024,'21RG112',2424.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.509032180215641,-0.509032179150115,3.35103216382911,336.229370823853,0.676503619604961,0.0,0.875953,0.037327,0.052267,21,1,12,3038,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2025,'21RG113',2425.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.502096396060928,-0.502096394995402,3.35103216382911,336.369901766985,0.676591759916502,0.0,0.875953,0.037327,0.052267,21,1,13,3039,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2026,'21RG114',2426.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.495571680871933,-0.495571679806407,3.35103216382911,336.510935591276,0.676680187427874,0.0,0.875953,0.037327,0.052267,21,1,14,3040,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2027,'21RG115',2427.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.489459193089125,-0.48945919202 3599,3.35103216382911,336.652435257681,0.676768878144674,0.0,0.875953,0.037327,0.052267,21,1,15,3041,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2028,'21RG116',2428.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.483759980018973,-0.483759978953447,3.35103216382911,336.79436469698,0.676857808739896,0.0,0.875953,0.037327,0.052267,21,1,16,3042,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2029,'21RG117',2429.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.478474980988558,-0.478474979923032,3.35103216382911,336.936688755515,0.67694695651955,0.0,0.875953,0.037327,0.052267,21,1,17,3043,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2030,'21RG118',2430.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.473605030332834,-0.473605029267308,3.35103216382911,337.079373138548,0.677036299386785,0.0,0.875953,0.037327,0.052267,21,1,18,3044,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2031,'21RG119',2431.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.46915086020838,-0.469150859142854,3.35103216382911,337.22238435143,0.677125815804624,0.0,0.875953,0.037327,0.052267,21,1,19,3045,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2032,'21RG120',2432.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.46511310322721,-0.465113102161684,3.35103216382911,337.365689638821,0.677215484757488,0.0,0.875953,0.037327,0.052267,21,1,20,3046,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2033,'21RG121',2433.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.461492294906044,-0.461492293840518,3.35103216382911,337.509256922141,0.67730528571162,0.0,0.875953,0.037327,0.052267,21,1,21,3047,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2034,'21RG122',2434.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.458288875926229,-0.458288874860703,3.35103216382911,337.653054735469,0.677395198574557,0.0,0.875953,0.037327,0.052267,21,1,22,3048,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2035,'21RG123',2435.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.455503194200581,-0.455503193135055,3.35103216382911,337.797052160071,0.677485203653776,0.0,0.875953,0.037327,0.052267,21,1,23,3049,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2036,'21RG124',2436.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.45313550674372,-0.453135505678194,3.35103216382911,337.941218757769,0.677575281614637,0.0,0.875953,0.037327,0.052267,21,1,24,3050,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2037,'21RG125',2437.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.451185981343464,-0.451185980277938,3.35103216382911,338.085524503306,0.677665413437745,0.0,0.875953,0.037327,0.052267,21,1,25,3051,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2038,'21RG126',2438.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.449654698030713,-0.449654696965187,3.35103216382911,338.229939715919,0.677755580375851,0.0,0.875953,0.037327,0.052267,21,1,26,3052,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2039,'21RG127',2439.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.448541650347032,-0.448541649281506,3.35103216382911,338.374434990273,0.677845763910409,0.0,0.875953,0.037327,0.052267,21,1,27,3053,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2040,'21RG128',2440.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.447846746407876,-0.44784674534235,3.35103216382911,338.518981126947,0.677935945707891,0.0,0.875953,0.037327,0.052267,21,1,28,3054,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2041,'21RG129',2441.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.447569809761752,-0.447569808696226,3.35103216382911,338.663549062631,0.678026107575984,0.0,0.875953,0.037327,0.052267,21,1,29,3055,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2042,'21RG130',2442.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.447710580045026,-0.447710589795,3.35103216382911,338.808109800215,0.678116231419769,0.0,0.875953,0.037327,0.052267,21,1,30,3056,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2043,'21RG131',2443.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.44826871343286,-0.448268712367334,3.35103216382911,338.952634338921,0.678206299197975,0.0,0.875953,0.037327,0.052267,21,1,31,3057,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2044,'21RG132',2444.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.449243782887052,-0.449243781821526,3.35103216382911,339.097093604662,0.678296292879443,0.0,0.875953,0.037327,0.052267,21,1,32,3058,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2045,'21RG133',2445.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.45063527820259,-0.450635277137064,3.35103216382911,339.241458380779,0.678386194399864,0.0,0.875953,0.037327,0.052267,21,1,33,3059,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2046,'21RG134',2446.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.452442605854543,-0.452442604789017,3.35103216382911,339.385699239324,0.678475985618925,0.0,0.875953,0.037327,0.052267,21,1,34,3060,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2047,'21RG135',2447.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.454665088647793,-0.454665087582267,3.35103216382911,339.529786473058,0.678565648277942,0.0,0.875953,0.037327,0.052267,21,1,35,3061,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2048,'21RG136',2448.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.45730196517222,-0.457301964106694,3.35103216382911,339.673690028325,0.678655163958091,0.0,0.875953,0.037327,0.052267,21,1,36,3062,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2049,'21RG137',2449.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.46035238906709,-0.460352388001564,3.35103216382911,339.817379438968,0.678744514039334,0.0,0.875953,0.037327,0.052267,21,1,37,3063,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2050,'21RG138',2450.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.46381542809766,-0.463815427032134,3.35103216382911,339.960823761461,0.678833679660145,0.0,0.875953,0.037327,0.052267,21,1,38,3064,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2051,'21RG139',2451.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.467690063048984,-0.467690061983458,3.35103216382911,340.103991511417,0.678922641678125,0.0,0.875953,0.037327,0.052267,21,1,39,3065,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2052,'21RG140',2452.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.471975186440872,-0.471975185375346,3.35103216382911,340.24685060166,0.679011380631623,0.0,0.875953,0.037327,0.052267,21,1,40,3066,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2053,'21RG141',2453.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.476669601069495,-0.47666960000396,3.35103216382911,340.389368282015,0.679099876702459,0.0,0.875953,0.037327,0.052267,21,1,41,3067,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2054,'21RG142',2454.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.481772018381292,-0.481772017315766,3.35103216382911,340.531511081015,0.679188109679846,0.0,0.875953,0.037327,0.052267,21,1,42,3068,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2055,'21RG143',2455.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.4872810566847,-0.487281055619174,3.35103216382911,340.673244749693,0.679276058925631,0.0,0.875953,0.037327,0.052267,21,1,43,3069,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2056,'21RG144',2456.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.493195239206684,-0.493195238141158,3.35103216382911,340.814534207643,0.679363703340949,0.0,0.875953,0.037327,0.052267,21,1,44,3070,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2057,'21RG145',2457.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.499512992000838,-0.499512990935312,3.35103216382911,340.955343491547,0.6794510213344,0.0,0.875953,0.037327,0.052267,21,1,45,3071,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2058,'21RG146',2458.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.506232641714518,-0.506232640648992,3.35103216382911,341.095635706346,0.679537990791862,0.0,0.875953,0.037327,0.052267,21,1,46,3072,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2059,'21RG147',2459.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.513352413222968,-0.513352412157442,3.35103216382911,341.235372979261,0.67962458904805,0.0,0.875953,0.037327,0.052267,21,1,47,3073,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2060,'21RG148',2460.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.52087042713866,-0.520870426073134,3.35103216382911,341.374516416843,0.679710792859923,0.0,0.875953,0.037327,0.052267,21,1,48,3074,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2061,'21RG149',2461.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.52878469720526,-0.528784696139734,3.35103216382911,341.513026065271,0.67979657838207,0.0,0.875953,0.037327,0.052267,21,1,49,3075,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2062,'21RG150',2462.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.537093127584654,-0.537093126519128,3.35103216382911,341.650860874081,0.679881921144169,0.0,0.875953,0.037327,0.052267,21,1,50,3076,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2063,'21RG151',2463.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.545793510048263,-0.545793508982737,3.35103216382911,341.787978663537,0.679966796030638,0.0,0.875953,0.037327,0.052267,21,1,51,3077,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2064,'21RG152',2464.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.554883521081663,-0.554883520016137,3.35103216382911,341.924336095846,0.680051177262609,0.0,0.875953,0.037327,0.052267,21,1,52,3078,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2065,'21RG153',2465.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.564360718914351,-0.564360717848825,3.35103216382911,342.059888650411,0.680135038382309,0.0,0.875953,0.037327,0.052267,21,1,53,3079,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2066,'21RG154',2466.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.574222540485379,-0.574222539419853,3.35103216382911,342.194590603346,0.680218352239983,0.0,0.875953,0.037327,0.052267,21,1,54,3080,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2067,'21RG155',2467.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.584466298357391,-0.584466297291865,3.35103216382911,342.328395011422,0.680301090983471,0.0,0.875953,0.037327,0.052267,21,1,55,3081,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2068,'21RG156',2468.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.595089177590566,-0.59508917652504,3.35103216382911,342.461253700672,0.680383226050531,0.0,0.875953,0.037327,0.052267,21,1,56,3082,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2069,'21RG157',2469.0,805.0,0.126254912281,1.45004422950289,1.45004422950289,0.0,1.45004422865154,-0.606088232590089,-0.606088231524563,3.35103216382911,342.59311725983,0.680464728164035,0.0,0.875953,0.037327,0.052267,21,1,57,3083,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2070,'21RG201',2478.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.604081273134721,-0.604081272018631,3.35103216382911,342.726019608346,0.68054620871059,0.0,0.876269,0.037241,0.052272,21,2,1,3091,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2071,'21RG202',2479.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.592467051045744,-0.592467049929654,3.35103216382911,342.859980390388,0.680628299262973,0.0,0.876269,0.037241,0.052272,21,2,2,3092,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2072,'21RG203',2480.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.581234909610208,-0.581234908494118,3.35103216382911,342.994947718687,0.680710989095044,0.0,0.876269,0.037241,0.052272,21,2,3,3093,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2073,'21RG204',2481.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.570387446026613,-0.57038744910523,3.35103216382911,343.130871080734,0.680794245935039,0.0,0.876269,0.037241,0.052272,21,2,4,3094,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2074,'21RG205',2482.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.559927107826562,-0.559927106710472,3.35103216382911,343.267701334197,0.680878038404658,0.0,0.876269,0.037241,0.052272,21,2,5,3095,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2075,'21RG206',2483.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.549856197155842,-0.549856196039752,3.35103216382911,343.405390697077,0.680962336013654,0.0,0.876269,0.037241,0.052272,21,2,6,3096,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2076,'21RG207',2484.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.540176875019534,-0.540176873903444,3.35103216382911,343.543892732831,0.681047109151203,0.0,0.876269,0.037241,0.052272,21,2,7,3097,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2077,'21RG208',2485.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.530891165476278,-0.530891164360188,3.35103216382911,343.683162330715,0.681132329074191,0.0,0.876269,0.037241,0.052272,21,2,8,3098,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2078,'21RG209',2486.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.52200095976786,-0.52200095865177,3.35103216382911,343.823155681586,0.681217967892602,0.0,0.876269,0.037241,0.052272,21,2,9,3099,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2079,'21RG210',2487.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.513508020370723,-0.513508019254633,3.35103216382911,343.963830249397,0.681303998552159,0.0,0.876269,0.037241,0.052272,21,2,10,3100,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2080,'21RG211',2488.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.505413984957224,-0.505413983841134,3.35103216382911,344.105144738651,0.681390394814386,0.0,0.876269,0.037241,0.052272,21,2,11,3101,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2081,'21RG212',2489.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.497720370254898,-0.497720369138808,3.35103216382911,344.247059058027,0.681477131234253,0.0,0.876269,0.037241,0.052272,21,2,12,3102,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2082,'21RG213',2490.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.490428575792984,-0.490428574676894,3.35103216382911,344.389534280441,0.681564183135555,0.0,0.876269,0.037241,0.052272,21,2,13,3103,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2083,'21RG214',2491.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.483539887526094,-0.483539886410004,3.35103216382911,344.532532599759,0.681651526584193,0.0,0.876269,0.037241,0.052272,21,2,14,3104,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2084,'21RG215',2492.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.4770554813258,-0.47705548020971,3.35103216382911,344.676017284405,0.681739138359502,0.0,0.876269,0.037241,0.052272,21,2,15,3105,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2085,'21RG216',2493.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.470976426331477,-0.470976425215387,3.35103216382911,344.819952628079,0.681826995923776,0.0,0.876269,0.037241,0.052272,21,2,16,3106,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2086,'21RG217',2494.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.465303688152611,-0.465303687036521,3.35103216382911,344.964303897816,0.681915077390147,0.0,0.876269,0.037241,0.052272,21,2,17,3107,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2087,'21RG218',2495.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.460038131915384,-0.460038130799294,3.35103216382911,345.109037279591,0.682003361488938,0.0,0.876269,0.037241,0.052272,21,2,18,3108,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2088,'21RG219',2496.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.455180525147037,-0.455180524030947,3.35103216382911,345.25411982169,0.682091827532657,0.0,0.876269,0.037241,0.052272,21,2,19,3109,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2089,'21RG220',2497.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.45073154049213,-0.45073153937604,3.35103216382911,345.39951937604,0.682180455379738,0.0,0.876269,0.037241,0.052272,21,2,20,3110,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2090,'21RG221',2498.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.446691758255562,-0.446691757139472,3.35103216382911,345.54520453771,0.682269225397178,0.0,0.876269,0.037241,0.052272,21,2,21,3111,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2091,'21RG222',2499.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.443061668767713,-0.443061667651623,3.35103216382911,345.691144582755,0.682358118422187,0.0,0.876269,0.037241,0.052272,21,2,22,3112,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2092,'21RG223',2500.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.439841674567583,-0.439841673451493,3.35103216382911,345.837309404611,0.682447115722974,0.0,0.876269,0.037241,0.052272,21,2,23,3113,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2093,'21RG224',2501.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.437032092400715,-0.437032091284625,3.35103216382911,345.983669449216,0.682536198958783,0.0,0.876269,0.037241,0.052272,21,2,24,3114,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2094,'21RG225',2502.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.434633155028601,-0.43463315391251,3.35103216382911,346.130195649021,0.682625350139305,0.0,0.876269,0.037241,0.052272,21,2,25,3115,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2095,'21RG226',2503.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.432645012847674,-0.432645011731584,3.35103216382911,346.276859356084,0.682714551583557,0.0,0.876269,0.037241,0.052272,21,2,26,3116,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2096,'21RG227',2504.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.431067735315645,-0.431067734199555,3.35103216382911,346.4236322744,0.682803785878352,0.0,0.876269,0.037241,0.052272,21,2,27,3117,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2097,'21RG228',2505.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.42990131218376,-0.42990131106767,3.35103216382911,346.570486391633,0.682893035836449,0.0,0.876269,0.037241,0.052272,21,2,28,3118,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2098,'21RG229',2506.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.429145654534446,-0.429145653418356,3.35103216382911,346.717793910424,0.682982284454502,0.0,0.876269,0.037241,0.052272,21,2,29,3119,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2099,'21RG230',2507.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.428800595623615,-0.428800594507525,3.35103216382911,346.864327179407,0.683071514870889,0.0,0.876269,0.037241,0.052272,21,2,30,3120,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2100,'21RG231',2508.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.428865891527573,-0.428865890411483,3.35103216382911,347.011258624115,0.68316701032352,0.0,0.876269,0.037241,0.052272,21,2,31,3121,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2101,'21RG232',2509.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.42934122159521,-0.42934122047912,3.35103216382911,347.158160677915,0.683249854107732,0.0,0.876269,0.037241,0.052272,21,2,32,3122,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2102,'21RG233',2510.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.430226188706095,-0.430226187590005,3.35103216382911,347.305005713124,0.683338929534346,0.0,0.876269,0.037241,0.052272,21,2,33,3123,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2103,'21RG234',2511.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.431520319336046,-0.431520318219956,3.35103216382911,347.451765972465,0.683427919887992,0.0,0.876269,0.037241,0.052272,21,2,34,3124,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2104,'21RG235',2512.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.433223063431677,-0.433223062315587,3.35103216382911,347.599413501007,0.683516808385777,0.0,0.876269,0.037241,0.052272,21,2,35,3125,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2105,'21RG236',2513.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.435333794096026,-0.435333792979936,3.35103216382911,347.744920078742,0.683605578136407,0.0,0.876269,0.037241,0.052272,21,2,36,3126,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2106,'21RG237',2514.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.437851807087904,-0.437851805971814,3.35103216382911,347.891257153958,0.683694212099831,0.0,0.876269,0.037241,0.052272,21,2,37,3127,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2107,'21RG238',2515.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.440776320138015,-0.440776319021925,3.35103216382911,348.037395777546,0.683782693047511,0.0,0.876269,0.037241,0.052272,21,2,38,3128,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2108,'21RG239',2516.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.444106472084593,-0.444106470968503,3.35103216382911,348.18330653841,0.683871003523409,0.0,0.876269,0.037241,0.052272,21,2,39,3129,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2109,'21RG240',2517.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.447841321833481,-0.447841320717391,3.35103216382911,348.328959500134,0.683959125805762,0.0,0.876269,0.037241,0.052272,21,2,40,3130,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2110,'21RG241',2518.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.451979847144978,-0.451979846028888,3.35103216382911,348.474324139055,0.684047041869771,0.0,0.876269,0.037241,0.052272,21,2,41,3131,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2111,'21RG242',2519.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.456520943254192,-0.456520942138102,3.35103216382911,348.619369283919,0.684134733351258,0.0,0.876269,0.037241,0.052272,21,2,42,3132,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2112,'21RG243',2520.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.461463421327915,-0.461463420211825,3.35103216382911,348.764063057274,0.684222181511417,0.0,0.876269,0.037241,0.052272,21,2,43,3133,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2113,'21RG244',2521.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.466806006764431,-0.466806005648341,3.35103216382911,348.908372818769,0.684309367202729,0.0,0.876269,0.037241,0.052272,21,2,44,3134,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2114,'21RG245',2522.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.4725473373423,-0.4725473362621,3.35103216382911,349.052265110537,0.684396270836161,0.0,0.876269,0.037241,0.052272,21,2,45,3135,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2115,'21RG246',2523.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.47868596122325,-0.47868596010716,3.35103216382911,349.195705604828,0.684482872349719,0.0,0.876269,0.037241,0.052272,21,2,46,3136,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2116,'21RG247',2524.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.48522033481691,-
0.48522033370082,3.35103216382911,349.338659054078,0.684569151178482,0.0,0.876269,0.037241,0.052272,21,2,47,3137,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2117,'21RG248',2525.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.492148820513778,-
0.492148819397688,3.35103216382911,349.481089243589,0.6846550862262,0.0,0.876269,0.037241,0.052272,21,2,48,3138,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2118,'21RG249',2526.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.499469684294618,-
0.499469683178528,3.35103216382911,349.62295894701,0.68474065583856,0.0,0.876269,0.037241,0.052272,21,2,49,3139,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2119,'21RG250',2527.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.507181093223382,-
0.507181092107292,3.35103216382911,349.764229884801,0.684825837778236,0.0,0.876269,0.037241,0.052272,21,2,50,3140,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2120,'21RG251',2528.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.515281112833088,-
0.515281111716998,3.35103216382911,349.904862685876,0.684910609201809,0.0,0.876269,0.037241,0.052272,21,2,51,3141,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2121,'21RG252',2529.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.523767704412863,-
0.523767703296773,3.35103216382911,350.044816852615,0.684994946638678,0.0,0.876269,0.037241,0.052272,21,2,52,3142,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2122,'21RG253',2530.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.532638722205556,-
0.532638721089466,3.35103216382911,350.184050729438,0.685078825972059,0.0,0.876269,0.037241,0.052272,21,2,53,3143,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2123,'21RG254',2531.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.541891910526176,-
0.541891909410086,3.35103216382911,350.322521475143,0.685162222422187,0.0,0.876269,0.037241,0.052272,21,2,54,3144,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2124,'21RG255',2532.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.551524900810756,-
0.551524899694666,3.35103216382911,350.460185039189,0.685245110531817,0.0,0.876269,0.037241,0.052272,21,2,55,3145,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2125,'21RG256',2533.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.561535208606999,-
0.561535207490909,3.35103216382911,350.596996142142,0.685327464154141,0.0,0.876269,0.037241,0.052272,21,2,56,3146,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2126,'21RG257',2534.0,805.0,0.127197368421,1.44952131476264,1.44952131476264,0.0,1.4495213139116,-0.571920230517756,-
0.571920229401666,3.35103216382911,350.732908260458,0.685409256443217,0.0,0.876269,0.037241,0.052272,21,2,57,3147,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2127,'22RG101',2544.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.650738924755519,-
0.650738923786894,3.72627795300789,350.862288189586,0.685488785808358,0.0,0.876561,0.037162,0.052277,22,1,1,3159,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2128,'22RG102',2545.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.640043736771775,-
0.64004373580315,3.72627795300789,350.992716200048,0.685566638435239,0.0,0.876561,0.037162,0.052277,22,1,2,3160,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2129,'22RG103',2546.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.629708190577044,-
0.629708189608419,3.72627795300789,351.124142985965,0.68564507168105,0.0,0.876561,0.037162,0.052277,22,1,3,3161,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2130,'22RG104',2547.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.619734794655279,-
0.619734793686654,3.72627795300789,351.256520355181,0.68572405561133,0.0,0.876561,0.037162,0.052277,22,1,4,3162,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2131,'22RG105',2548.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.610125919462397,-
0.610125918493772,3.72627795300789,351.389801226702,0.685803561001881,0.0,0.876561,0.037162,0.052277,22,1,5,3163,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2132,'22RG106',2549.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.60088380081716,-
0.600883799848535,3.72627795300789,351.523939623669,0.685883559335303,0.0,0.876561,0.037162,0.052277,22,1,6,3164,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2133,'22RG107',2550.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.592010543267729,-
0.592010542299104,3.72627795300789,351.658890662044,0.685964022794845,0.0,0.876561,0.037162,0.052277,22,1,7,3165,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2134,'22RG108',2551.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.583508123421739,-
0.583508122453114,3.72627795300789,351.794610535207,0.686044924255699,0.0,0.876561,0.037162,0.052277,22,1,8,3166,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2135,'22RG109',2552.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.575378393228173,-
0.575378392259548,3.72627795300789,351.931056494649,0.686126237273864,0.0,0.876561,0.037162,0.052277,22,1,9,3167,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2136,'22RG110',2553.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.567623083200206,-
0.567623082231581,3.72627795300789,352.06818682697,0.686207936072704,0.0,0.876561,0.037162,0.052277,22,1,10,3168,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2137,'22RG111',2554.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.560243805568599,-
0.56024380459974,3.72627795300789,352.205960827361,0.686289995527335,0.0,0.876561,0.037162,0.052277,22,1,11,3169,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2138,'22RG112',2555.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.553242057355763,-
0.553242056387138,3.72627795300789,352.344338769787,0.686372391146961,0.0,0.876561,0.037162,0.052277,22,1,12,3170,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2139,'22RG113',2556.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.546619223361641,-
0.546619222393016,3.72627795300789,352.483281874052,0.68645509905529,0.0,0.876561,0.037162,0.052277,22,1,13,3171,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2140,'22RG114',2557.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.540376579052679,-
0.540376578084054,3.72627795300789,352.622752269941,0.686538095969155,0.0,0.876561,0.037162,0.052277,22,1,14,3172,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2141,'22RG115',2558.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.534515293345914,-
0.534515292377289,3.72627795300789,352.762712958647,0.686621359175469,0.0,0.876561,0.037162,0.052277,22,1,15,3173,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2142,'22RG116',2559.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.529036431281088,-
0.529036430312463,3.72627795300789,352.903127771652,0.686704866506622,0.0,0.876561,0.037162,0.052277,22,1,16,3174,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2143,'22RG117',2560.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.523940956573876,-
0.523940955605251,3.72627795300789,353.043961327268,0.686788596314462,0.0,0.876561,0.037162,0.052277,22,1,17,3175,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2144,'22RG118',2561.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.519229734043992,-
0.51922973075367,3.72627795300789,353.185178985012,0.686872527442961,0.0,0.876561,0.037162,0.052277,22,1,18,3176,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2145,'22RG119',2562.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.514903531912732,-
0.514903530944107,3.72627795300789,353.326746798,0.68695663919969,0.0,0.876561,0.037162,0.052277,22,1,19,3177,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2146,'22RG120',2563.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.510963023964765,-
0.510963022999614,3.72627795300789,353.468631463543,0.687040911326208,0.0,0.876561,0.037162,0.052277,22,1,20,3178,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2147,'22RG121',2564.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.507408791569584,-
0.507408790600959,3.72627795300789,353.610800272105,0.687125323967492,0.0,0.876561,0.037162,0.052277,22,1,21,3179,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2148,'22RG122',2565.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.50424132555874,-
0.50424132459015,3.72627795300789,353.753221054816,0.6872098576405,0.0,0.876561,0.037162,0.052277,22,1,22,3180,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2149,'22RG123',2566.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.50146102795487,-
0.501461026986245,3.72627795300789,353.895862129689,0.687294493201975,0.0,0.876561,0.037162,0.052277,22,1,23,3181,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2150,'22RG124',2567.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.499068213550518,-
0.499068212581893,3.72627795300789,354.038692246717,0.687379221815606,0.0,0.876561,0.037162,0.052277,22,1,24,3182,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2151,'22RG125',2568.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.497063111332802,-
0.497063110364177,3.72627795300789,354.181680532003,0.687463994918627,0.0,0.876561,0.037162,0.052277,22,1,25,3183,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2152,'22RG126',2569.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.495445865752816,-
0.495445864784191,3.72627795300789,354.324796431098,0.68754882418797,0.0,0.876561,0.037162,0.052277,22,1,26,3184,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2153,'22RG127',2570.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.494216537837967,-
0.494216536869342,3.72627795300789,354.468009651677,0.687633681506055,0.0,0.876561,0.037162,0.052277,22,1,27,3185,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2154,'22RG128',2571.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.493375106145552,-
0.493375105176927,3.72627795300789,354.611290105731,0.687718548926318,0.0,0.876561,0.037162,0.052277,22,1,28,3186,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2155,'22RG129',2572.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.492921467557489,-
0.492921466588864,3.72627795300789,354.75460785142,0.68780340863857,0.0,0.876561,0.037162,0.052277,22,1,29,3187,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2156,'22RG130',2573.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.49285543791517,-
0.492855436946545,3.72627795300789,354.897933034718,0.68788824293427,0.0,0.876561,0.037162,0.052277,22,1,30,3188,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2157,'22RG131',2574.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.493176752495013,-
0.493176751526388,3.72627795300789,355.041235831036,0.687973034171809,0.0,0.876561,0.037162,0.052277,22,1,31,3189,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2158,'22RG132',2575.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.493885066324881,-
0.493885065356256,3.72627795300789,355.184486386927,0.688057764741884,0.0,0.876561,0.037162,0.052277,22,1,32,3190,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2159,'22RG133',2576.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.494979954342393,-
0.494979953373768,3.72627795300789,355.32765476205,0.688142417033064,0.0,0.876561,0.037162,0.052277,22,1,33,3191,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2160,'22RG134',2577.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.496460911396144,-
0.496460910427519,3.72627795300789,355.470710871529,0.688226973397609,0.0,0.876561,0.037162,0.052277,22,1,34,3192,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2161,'22RG135',2578.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.498327352091631,-
0.498327351123006,3.72627795300789,355.613624428846,0.688311416117654,0.0,0.876561,0.037162,0.052277,22,1,35,3193,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2162,'22RG136',2579.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.500578610484044,-
0.500578609515419,3.72627795300789,355.756364889419,0.688395727371817,0.0,0.876561,0.037162,0.052277,22,1,36,3194,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2163,'22RG137',2580.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.503213939619736,-
0.503213938651111,3.72627795300789,355.898901395016,0.688479889202335,0.0,0.876561,0.037162,0.052277,22,1,37,3195,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2164,'22RG138',2581.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.506232510929908,-
0.506232509961283,3.72627795300789,356.041202719136,0.688563883482803,0.0,0.876561,0.037162,0.052277,22,1,38,3196,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2165,'22RG139',2582.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.509633413479018,-
0.509633412510393,3.72627795300789,356.183237213522,0.688647691886594,0.0,0.876561,0.037162,0.052277,22,1,39,3197,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2166,'22RG140',2583.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.513415653071749,-
0.51341565210124,3.72627795300789,356.324972755941,0.688731295856056,0.0,0.876561,0.037162,0.052277,22,1,40,3198,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2167,'22RG141',2584.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.517578151222206,-
0.517578150253581,3.72627795300789,356.466376699383,0.688814676572561,0.0,0.876561,0.037162,0.052277,22,1,41,3199,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2168,'22RG142',2585.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.522119743989878,-
0.522119743021253,3.72627795300789,356.607415822843,0.688897814927494,0.0,0.876561,0.037162,0.052277,22,1,42,3200,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2169,'22RG143',2586.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.527039180686709,-
0.527039179718084,3.72627795300789,356.748056283811,0.688980691494266,0.0,0.876561,0.037162,0.052277,22,1,43,3201,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2170,'22RG144',2587.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.532335122460242,-
0.532335121491617,3.72627795300789,356.888263572655,0.689063286501433,0.0,0.876561,0.037162,0.052277,22,1,44,3202,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2171,'22RG145',2588.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.538006140758734,-
0.538006139790109,3.72627795300789,357.028002469034,0.689145579807015,0.0,0.876561,0.037162,0.052277,22,1,45,3203,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2172,'22RG146',2589.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.544050715682959,-
0.544050714714334,3.72627795300789,357.167237000496,0.689227550874092,0.0,0.876561,0.037162,0.052277,22,1,46,3204,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2173,'22RG147',2590.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.550467234232125,-
0.5504672332635,3.72627795300789,357.305930403438,0.689309178747767,0.0,0.876561,0.037162,0.052277,22,1,47,3205,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2174,'22RG148',2591.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.557253988449193,-
0.557253987480568,3.72627795300789,357.444045086564,0.689390442033583,0.0,0.876561,0.037162,0.052277,22,1,48,3206,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2175,'22RG149',2592.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.564409173473133,-
0.564409172504508,3.72627795300789,357.581542597022,0.689471318877484,0.0,0.876561,0.037162,0.052277,22,1,49,3207,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2176,'22RG150',2593.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.571930885505639,-
0.571930884537014,3.72627795300789,357.718383589369,0.689551786947401,0.0,0.876561,0.037162,0.052277,22,1,50,3208,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2177,'22RG151',2594.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.579817119698656,-
0.579817118730031,3.72627795300789,357.854527797529,0.689631823416553,0.0,0.876561,0.037162,0.052277,22,1,51,3209,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2178,'22RG152',2595.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.588065767972384,-
0.588065767003759,3.72627795300789,357.989934009913,0.689711404948551,0.0,0.876561,0.037162,0.052277,22,1,52,3210,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2179,'22RG153',2596.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.596674616770708,-
0.596674615802083,3.72627795300789,358.124560047844,0.689790507684392,0.0,0.876561,0.037162,0.052277,22,1,53,3211,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2180,'22RG154',2597.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.605641344763756,-
0.605641343795131,3.72627795300789,358.258362747472,0.689869107231418,0.0,0.876561,0.037162,0.052277,22,1,54,3212,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2181,'22RG155',2598.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.614963520506118,-
0.614963519537493,3.72627795300789,358.391297945311,0.689947178654345,0.0,0.876561,0.037162,0.052277,22,1,55,3213,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2182,'22RG156',2599.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.624638600060339,-
0.624638599091714,3.72627795300789,358.523320467573,0.690024696468417,0.0,0.876561,0.037162,0.052277,22,1,56,3214,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2183,'22RG157',2600.0,805.0,0.128083333333,1.44903845022279,1.44903845022279,0.0,1.44903844937203,-0.634663924595453,-
0.634663923626828,3.72627795300789,358.654384123437,0.690101634634787,0.0,0.876561,0.037162,0.052277,22,1,57,3215,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2184,'22RG201',2609.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.626715059309038,-
0.626715058328379,3.72627795300789,358.786965778723,0.690178704251916,0.0,0.876844,0.037086,0.052284,22,2,1,3223,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2185,'22RG202',2610.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.616800169030394,-
0.616800168049735,3.72627795300789,358.920494735528,0.690256462003692,0.0,0.876844,0.037086,0.052284,22,2,2,3224,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2186,'22RG203',2611.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.607241760531467,-
0.607241759550808,3.72627795300789,359.054924620232,0.690334726808322,0.0,0.876844,0.037086,0.052284,22,2,3,3225,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2187,'22RG204',2612.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.598041995204344,-
0.598041994223685,3.72627795300789,359.190210144733,0.690413471246759,0.0,0.876844,0.037086,0.052284,22,2,4,3226,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2188,'22RG205',2613.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.589202909071616,-
0.589202908090957,3.72627795300789,359.326307095655,0.690492668572229,0.0,0.876844,0.037086,0.052284,22,2,5,3227,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2189,'22RG206',2614.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.580726415958452,-
0.580726414977793,3.72627795300789,359.463172319641,0.690572292702092,0.0,0.876844,0.037086,0.052284,22,2,6,3228,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2190,'22RG207',2615.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.572614310620089,-
0.57261430963943,3.72627795300789,359.60076370491,0.690652318207442,0.0,0.876844,0.037086,0.052284,22,2,7,3229,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2191,'22RG208',2616.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.564868271814319,-
0.56486827083366,3.72627795300789,359.739040159272,0.690732720300547,0.0,0.876844,0.037086,0.052284,22,2,8,3230,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2192,'22RG209',2617.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.557489865309613,-
0.557489864328954,3.72627795300789,359.877961584779,0.690813474820262,0.0,0.876844,0.037086,0.052284,22,2,9,3231,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2193,'22RG210',2618.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.550480546819543,-
0.550480545838884,3.72627795300789,360.017488849204,0.690894558215514,0.0,0.876844,0.037086,0.052284,22,2,10,3232,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2194,'22RG211',2619.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.5438416648553,-
0.543841663874641,3.72627795300789,360.157583754527,0.690975947527001,0.0,0.876844,0.037086,0.052284,22,2,11,3233,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2195,'22RG212',2620.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.537574463488113,-
0.537574462507454,3.72627795300789,360.298209002619,0.691057620367193,0.0,0.876844,0.037086,0.052284,22,2,12,3234,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2196,'22RG213',2621.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.531680085014265,-
0.531680084033606,3.72627795300789,360.439328158296,0.691139554898775,0.0,0.876844,0.037086,0.052284,22,2,13,3235,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2197,'22RG214',2622.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.526159572516008,-
0.526159571535349,3.72627795300789,360.580905609933,0.691221729811629,0.0,0.876844,0.037086,0.052284,22,2,14,3236,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2198,'22RG215',2623.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.521013872311819,-
0.52101387133116,3.72627795300789,360.722906527814,0.691304124298471,0.0,0.876844,0.037086,0.052284,22,2,15,3237,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2199,'22RG216',2624.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.516243836290357,-
0.516243835309698,3.72627795300789,360.865296820381,0.691386718029256,0.0,0.876844,0.037086,0.052284,22,2,16,3238,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2200,'22RG217',2625.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.511850224122789,-
0.51185022314213,3.72627795300789,361.008043088568,0.691469491124447,0.0,0.876844,0.037086,0.052284,22,2,17,3239,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2201,'22RG218',2626.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.507833705348744,-
0.507833704368085,3.72627795300789,361.151112578385,0.691552424127267,0.0,0.876844,0.037086,0.052284,22,2,18,3240,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2202,'22RG219',2627.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.504194861331491,-
0.504194860350832,3.72627795300789,361.294473131902,0.691635497975026,0.0,0.876844,0.037086,0.052284,22,2,19,3241,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2203,'22RG220',2628.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.50093418707867,-
0.500934186098011,3.72627795300789,361.438093136823,0.691718693969623,0.0,0.876844,0.037086,0.052284,22,2,20,3242,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2204,'22RG221',2629.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.498052092925043,-
0.498052091944384,3.72627795300789,361.581941474776,0.691801993747325,0.0,0.876844,0.037086,0.052284,22,2,21,3243,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2205,'22RG222',2630.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.495548906074504,-
0.495548905093845,3.72627795300789,361.725987468505,0.691885379247914,0.0,0.876844,0.037086,0.052284,22,2,22,3244,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2206,'22RG223',2631.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.49342487199862,-
0.493424871017961,3.72627795300789,361.870200828091,0.6919688326833,0.0,0.876844,0.037086,0.052284,22,2,23,3245,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2207,'22RG224',2632.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.491680155690162,-
0.491680154709503,3.72627795300789,362.014551596367,0.692052336505682,0.0,0.876844,0.037086,0.052284,22,2,24,3246,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2208,'22RG225',2633.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.490314842769187,-
0.490314841788528,3.72627795300789,362.159010093671,0.69213587337535,0.0,0.876844,0.037086,0.052284,22,2,25,3247,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2209,'22RG226',2634.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.489328940441339,-
0.48932893946068,3.72627795300789,362.303546862075,0.692219426128218,0.0,0.876844,0.037086,0.052284,22,2,26,3248,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2210,'22RG227',2635.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.488722378306527,-
0.488722377325868,3.72627795300789,362.44813260924,0.692302977743168,0.0,0.876844,0.037086,0.052284,22,2,27,3249,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2211,'22RG228',2636.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.488495009018592,-
0.488495008037933,3.72627795300789,362.592738152035,0.692386511309286,0.0,0.876844,0.037086,0.052284,22,2,28,3250,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2212,'22RG229',2637.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.488646608794944,-
0.488646607814285,3.72627795300789,362.737334360054,0.692470009993079,0.0,0.876844,0.037086,0.052284,22,2,29,3251,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2213,'22RG230',2638.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.48917687777714,-
0.489176876796481,3.72627795300789,362.881892099181,0.692553457005744,0.0,0.876844,0.037086,0.052284,22,2,30,3252,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2214,'22RG231',2639.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.490085440242346,-
0.490085439261687,3.72627795300789,363.026382175324,0.692636835570579,0.0,0.876844,0.037086,0.052284,22,2,31,3253,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2215,'22RG232',2640.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.49137184466754,-
0.491371843686881,3.72627795300789,363.170775278468,0.692720128890603,0.0,0.876844,0.037086,0.052284,22,2,32,3254,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2216,'22RG233',2641.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.493035563646863,-
0.493035562666204,3.72627795300789,363.315041927169,0.69280332011647,0.0,0.876844,0.037086,0.052284,22,2,33,3255,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2217,'22RG234',2642.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.495075993664727,-
0.495075992684068,3.72627795300789,363.459152413641,0.692886392314754,0.0,0.876844,0.037086,0.052284,22,2,34,3256,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2218,'22RG235',2643.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.497492454726021,-
0.497492453745362,3.72627795300789,363.603076749559,0.692969328436675,0.0,0.876844,0.037086,0.052284,22,2,35,3257,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2219,'22RG236',2644.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.500284189845999,-
0.50028418886534,3.72627795300789,363.746784612716,0.693052111287351,0.0,0.876844,0.037086,0.052284,22,2,36,3258,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2220,'22RG237',2645.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.503450364402887,-
0.503450363422228,3.72627795300789,363.890245294682,0.693134723495645,0.0,0.876844,0.037086,0.052284,22,2,37,3259,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2221,'22RG238',2646.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.506990065355694,-
0.506990064375035,3.72627795300789,364.033427649582,0.693217147484689,0.0,0.876844,0.037086,0.052284,22,2,38,3260,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2222,'22RG239',2647.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.510902300331217,-
0.510902299350558,3.72627795300789,364.176300044161,0.693299365443158,0.0,0.876844,0.037086,0.052284,22,2,39,3261,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2223,'22RG240',2648.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.51518599658327,-
0.515185995602611,3.72627795300789,364.318830309249,0.693381359297369,0.0,0.876844,0.037086,0.052284,22,2,40,3262,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2224,'22RG241',2649.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.519839999829038,-
0.519839998848379,3.72627795300789,364.460985692785,0.693463110684291,0.0,0.876844,0.037086,0.052284,22,2,41,3263,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2225,'22RG242',2650.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.524863072966326,-
0.524863071985667,3.72627795300789,364.602732814536,0.693544600925533,0.0,0.876844,0.037086,0.052284,22,2,42,3264,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2226,'22RG243',2651.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.530253894676541,-
0.530253893695882,3.72627795300789,364.744037622663,0.693625811002395,0.0,0.876844,0.037086,0.052284,22,2,43,3265,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2227,'22RG244',2652.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.536011057918941,-
0.536011056938282,3.72627795300789,364.884865352273,0.693706721532054,0.0,0.876844,0.037086,0.052284,22,2,44,3266,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2228,'22RG245',2653.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.542133068320517,-
0.542133067339858,3.72627795300789,365.02518048611,0.693787312744976,0.0,0.876844,0.037086,0.052284,22,2,45,3267,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2229,'22RG246',2654.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.548618342469183,-
0.548618341488524,3.72627795300789,365.164946717532,0.693867564463617,0.0,0.876844,0.037086,0.052284,22,2,46,3268,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2230,'22RG247',2655.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.55546520611383,-
0.555465205133171,3.72627795300789,365.304126915926,0.693947456082507,0.0,0.876844,0.037086,0.052284,22,2,47,3269,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2231,'22RG248',2656.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.56267189228079,-
0.56267189129942,3.72627795300789,365.442683094714,0.694026966549788,0.0,0.876844,0.037086,0.052284,22,2,48,3270,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2232,'22RG249',2657.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.570236539307139,-
0.570236538332648,3.72627795300789,365.580576382099,0.694106074350293,0.0,0.876844,0.037086,0.052284,22,2,49,3271,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2233,'22RG250',2658.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.578157188813094,-
0.578157187832435,3.72627795300789,365.717766994704,0.694184757490235,0.0,0.876844,0.037086,0.052284,22,2,50,3272,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2234,'22RG251',2659.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.586431783596644,-
0.586431782615985,3.72627795300789,365.85421421426,0.694262993483603,0.0,0.876844,0.037086,0.052284,22,2,51,3273,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2235,'22RG252',2660.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.595058165482285,-
0.595058164501626,3.72627795300789,365.989876367493,0.69434075934032,0.0,0.876844,0.037086,0.052284,22,2,52,3274,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2236,'22RG253',2661.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.604034073118136,-
0.604034072137477,3.72627795300789,366.124710809353,0.694418031556266,0.0,0.876844,0.037086,0.052284,22,2,53,3275,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2237,'22RG254',2662.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.61335713973375,-
0.613357138753091,3.72627795300789,366.258673909748,0.694494786105229,0.0,0.876844,0.037086,0.052284,22,2,54,3276,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2238,'22RG255',2663.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.623024890867633,-
0.623024889886974,3.72627795300789,366.391721043916,0.694570998432855,0.0,0.876844,0.037086,0.052284,22,2,55,3277,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2239,'22RG256',2664.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.633034742072695,-
0.633034741092036,3.72627795300789,366.523806586584,0.694646643452688,0.0,0.876844,0.037086,0.052284,22,2,56,3278,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2240,'22RG257',2665.0,805.0,0.128927719298,1.44857077537822,1.44857077537822,0.0,1.44857077452774,-0.643383996610176,-
0.643383995629517,3.72627795300789,366.654883910054,0.694721695544351,0.0,0.876844,0.037086,0.052284,22,2,57,3279,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2241,'23RG101',2675.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.675462305068481,-
0.675462304157274,4.04916386462684,366.783492384078,0.694795725822403,0.0,0.877116,0.037012,0.052289,23,1,1,3293,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2242,'23RG102',2676.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.665323414977296,-
0.665323414066089,4.04916386462684,366.913140739577,0.694869319021939,0.0,0.877116,0.037012,0.052289,23,1,2,3294,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2243,'23RG103',2677.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.655519864375627,-
0.6555198646344442,4.04916386462684,367.043782012196,0.694943461526382,0.0,0.877116,0.037012,0.052289,23,1,3,3295,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2244,'23RG104',2678.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.646054002918067,-
0.64605400200686,4.04916386462684,367.175370190238,0.695018126181933,0.0,0.877116,0.037012,0.052289,23,1,4,3296,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2245,'23RG105',2679.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.63692805665173,-
0.63692805740523,4.04916386462684,367.307860213968,0.695093286415681,0.0,0.877116,0.037012,0.052289,23,1,5,3297,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2246,'23RG106',2680.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.62814413075721,-
0.628144129846003,4.04916386462684,367.441207971105,0.695168916233726,0.0,0.877116,0.037012,0.052289,23,1,6,3298,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2247,'23RG107',2681.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.619704212274588,-
0.619704211363381,4.04916386462684,367.575370288643,0.695244990217117,0.0,0.877116,0.037012,0.052289,23,1,7,3299,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2248,'23RG108',2682.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.611610172804685,-
0.611610171893478,4.04916386462684,367.710304921163,0.695321483515713,0.0,0.877116,0.037012,0.052289,23,1,8,3300,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2249,'23RG109',2683.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.603863771176353,-
0.603863770265146,4.04916386462684,367.845970535789,0.695398371840042,0.0,0.877116,0.037012,0.052289,23,1,9,3301,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2250,'23RG110',2684.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.596466656070472,-
0.596466655159265,4.04916386462684,367.982326693938,0.695475631451268,0.0,0.877116,0.037012,0.052289,23,1,10,3302,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2251,'23RG111',2685.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.589420368592844,-
0.589420367681637,4.04916386462684,368.119333830041,0.695553239149368,0.0,0.877116,0.037012,0.052289,23,1,11,3303,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2252,'23RG112',2686.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.582726344787399,-
0.582726343876192,4.04916386462684,368.25695322737,0.695631172259607,0.0,0.877116,0.037012,0.052289,23,1,12,3304,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2253,'23RG113',2687.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.576385918082767,-
0.57638591717156,4.04916386462684,368.395146991159,0.695709408617416,0.0,0.877116,0.037012,0.052289,23,1,13,3305,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2254,'23RG114',2688.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.570400321664746,-
0.570400320753539,4.04916386462684,368.53387801916,0.695787926551775,0.0,0.877116,0.037012,0.052289,23,1,14,3306,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2255,'23RG115',2689.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.564770690768288,-
0.564770689857081,4.04916386462684,368.673109969801,0.695866704867192,0.0,0.877116,0.037012,0.052289,23,1,15,3307,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2256,'23RG116',2690.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.559498064883154,-
0.559498063971947,4.04916386462684,368.812807228102,0.695945722824372,0.0,0.877116,0.037012,0.052289,23,1,16,3308,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2257,'23RG117',2691.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.554583389867037,-
0.55458338895583,4.04916386462684,368.952934869508,0.696024960119689,0.0,0.877116,0.037012,0.052289,23,1,17,3309,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2258,'23RG118',2692.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.550027519961471,-
0.550027519050264,4.04916386462684,369.093458621798,0.696104396863534,0.0,0.877116,0.037012,0.052289,23,1,18,3310,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2259,'23RG119',2693.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.545831219705565,-
0.545831218794358,4.04916386462684,369.234344825208,0.696184013557643,0.0,0.877116,0.037012,0.052289,23,1,19,3311,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2260,'23RG120',2694.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.541995165743113,-
0.541995164831906,4.04916386462684,369.37556039094,0.696263791071498,0.0,0.877116,0.037012,0.052289,23,1,20,3312,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2261,'23RG121',2695.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.538519948519326,-
0.538519947608119,4.04916386462684,369.517072758194,0.696343710617884,0.0,0.877116,0.037012,0.052289,23,1,21,3313,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2262,'23RG122',2696.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.535406073863765,-
0.535406072952558,4.04916386462684,369.658849849864,0.696423753727692,0.0,0.877116,0.037012,0.052289,23,1,22,3314,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2263,'23RG123',2697.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.532653964456049,-
0.532653963544842,4.04916386462684,369.80086002706,0.696503902224062,0.0,0.877116,0.037012,0.052289,23,1,23,3315,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2264,'23RG124',2698.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.530263961172149,-
0.530263960260942,4.04916386462684,369.943072042583,0.696584138195933,0.0,0.877116,0.037012,0.052289,23,1,24,3316,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2265,'23RG125',2699.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.528236324308455,-
0.528236323397248,4.04916386462684,370.085454993496,0.696664443971105,0.0,0.877116,0.037012,0.052289,23,1,25,3317,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2266,'23RG126',2700.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.526571234681949,-
0.526571233770742,4.04916386462684,370.227978272934,0.696744802088873,0.0,0.877116,0.037012,0.052289,23,1,26,3318,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2267,'23RG127',2701.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.52526879460493,-
0.525268793693723,4.04916386462684,370.370611521288,0.696825195272326,0.0,0.877116,0.037012,0.052289,23,1,27,3319,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2268,'23RG128',2702.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.524329028733089,-
0.524329027821882,4.04916386462684,370.513324576887,0.696905606400388,0.0,0.877116,0.037012,0.052289,23,1,28,3320,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2269,'23RG129',2703.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.523751884785771,-
0.523751883874564,4.04916386462684,370.656087426329,0.696986018479672,0.0,0.877116,0.037012,0.052289,23,1,29,3321,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2270,'23RG130',2704.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.523537234138541,-
0.523537233227334,4.04916386462684,370.79887015457,0.697066414616221,0.0,0.877116,0.037012,0.052289,23,1,30,3322,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2271,'23RG131',2705.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.523684872287195,-
0.523684871375988,4.04916386462684,370.941642894921,0.697146777987224,0.0,0.877116,0.037012,0.052289,23,1,31,3323,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2272,'23RG132',2706.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.52419451918399,-
0.524194518272783,4.04916386462684,371.084375779069,0.697227091812762,0.0,0.877116,0.037012,0.052289,23,1,32,3324,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2273,'23RG133',2707.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.525065819446059,-
0.525065818534852,4.04916386462684,371.227038887254,0.697307339327671,0.0,0.877116,0.037012,0.052289,23,1,33,3325,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2274,'23RG134',2708.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.526298342437325,-
0.526298341526118,4.04916386462684,371.369602198728,0.697387503753581,0.0,0.877116,0.037012,0.052289,23,1,34,3326,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2275,'23RG135',2709.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.527891582224644,-
0.527891581313437,4.04916386462684,371.512035542632,0.697467568271216,0.0,0.877116,0.037012,0.052289,23,1,35,3327,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2276,'23RG136',2710.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.529844957409974,-
0.529844956498767,4.04916386462684,371.654308549392,0.69754751599301,0.0,0.877116,0.037012,0.052289,23,1,36,3328,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2277,'23RG137',2711.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.532157810839937,-
0.53215780992873,4.04916386462684,371.796390602802,0.697627329936119,0.0,0.877116,0.037012,0.052289,23,1,37,3329,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2278,'23RG138',2712.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.534829409195293,-
0.534829408284086,4.04916386462684,371.938250792875,0.697706992995897,0.0,0.877116,0.037012,0.052289,23,1,38,3330,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2279,'23RG139',2713.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.537858942462183,-
0.537858941550976,4.04916386462684,372.079857869629,0.697786487919902,0.0,0.877116,0.037012,0.052289,23,1,39,3331,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2280,'23RG140',2714.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.541245523288605,-
0.541245522377398,4.04916386462684,372.221180197908,0.697865797282499,0.0,0.877116,0.037012,0.052289,23,1,40,3332,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2281,'23RG141',2715.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.544988186228057,-
0.54498818531685,4.04916386462684,372.362185713381,0.697944903460142,0.0,0.877116,0.037012,0.052289,23,1,41,3333,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2282,'23RG142',2716.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.549085886874632,-
0.549085885963425,4.04916386462684,372.502841879844,0.698023788607387,0.0,0.877116,0.037012,0.052289,23,1,42,3334,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2283,'23RG143',2717.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.55353750089245,-
0.553537499981243,4.04916386462684,372.643115647954,0.698102434633713,0.0,0.877116,0.037012,0.052289,23,1,43,3335,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2284,'23RG144',2718.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.558341822943898,-
0.558341822032691,4.04916386462684,372.78297341553,0.698180823181224,0.0,0.877116,0.037012,0.052289,23,1,44,3336,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2285,'23RG145',2719.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.56349756551997,-
0.56349756460763,4.04916386462684,372.922280989543,0.698258935603298,0.0,0.877116,0.037012,0.052289,23,1,45,3337,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2286,'23RG146',2720.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.569003357678593,-
0.569003356767386,4.04916386462684,373.061303549942,0.698336752944241,0.0,0.877116,0.037012,0.052289,23,1,46,3338,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2287,'23RG147',2721.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.574857743694256,-
0.574857742783049,4.04916386462684,373.199705615431,0.698414255920042,0.0,0.877116,0.037012,0.052289,23,1,47,3339,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2288,'23RG148',2722.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.58105918162499,-0.58105918713783,4.04916386462684,373.337551011351,0.698491424900269,0.0,0.877116,0.037012,0.052289,23,1,48,3340,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2289,'23RG149',2723.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.587606041801695,-0.587606040890488,4.04916386462684,373.47480283978,0.698568239891194,0.0,0.877116,0.037012,0.052289,23,1,49,3341,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2290,'23RG150',2724.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.594496605245506,-0.594496604334299,4.04916386462684,373.611423452003,0.698644680520209,0.0,0.877116,0.037012,0.052289,23,1,50,3342,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2291,'23RG151',2725.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.601729062019505,-0.601729061108298,4.04916386462684,373.747374423471,0.698720726021605,0.0,0.877116,0.037012,0.052289,23,1,51,3343,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2292,'23RG152',2726.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.609301509520517,-0.60930150860931,4.04916386462684,373.882616531395,0.698796355223781,0.0,0.877116,0.037012,0.052289,23,1,52,3344,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2293,'23RG153',2727.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.617211950717706,-0.617211949806499,4.04916386462684,374.017109735099,0.698871546537946,0.0,0.877116,0.037012,0.052289,23,1,53,3345,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2294,'23RG154',2728.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.625458292345524,-0.625458291434317,4.04916386462684,374.150813159262,0.698946277948388,0.0,0.877116,0.037012,0.052289,23,1,54,3346,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2295,'23RG155',2729.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.634038343056577,-0.63403834214537,4.04916386462684,374.283685080194,0.699020527004374,0.0,0.877116,0.037012,0.052289,23,1,55,3347,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2296,'23RG156',2730.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.642949811543698,-0.642949810632491,4.04916386462684,374.415682915246,0.69909427081374,0.0,0.877116,0.037012,0.052289,23,1,56,3348,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2297,'23RG157',2731.0,805.0,0.129798947368,1.44812156312933,1.44812156312933,0.0,1.44812156227911,-0.652190304636992,-0.652190303725785,4.04916386462684,374.546763215506,0.699167486038243,0.0,0.877116,0.037012,0.052289,23,1,57,3349,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2298,'23RG201',2740.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.666194031388922,-0.66619403047157,4.04916386462684,374.677137168108,0.699240219955668,0.0,0.877377,0.036942,0.052295,23,2,1,3357,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2299,'23RG202',2741.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.656411758853717,-0.656411757936365,4.04916386462684,374.808509191489,0.699313005710254,0.0,0.877377,0.036942,0.052295,23,2,2,3358,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2300,'23RG203',2742.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.646958921786903,-0.646958920869551,4.04916386462684,374.940833831327,0.699386304263456,0.0,0.877377,0.036942,0.052295,23,2,3,3359,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2301,'23RG204',2743.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.637837695758473,-0.637837694841121,4.04916386462684,375.07406656286,0.699460089977584,0.0,0.877377,0.036942,0.052295,23,2,4,3360,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2302,'23RG205',2744.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.629050140448909,-0.629050139531557,4.04916386462684,375.208163787406,0.699534337767263,0.0,0.877377,0.036942,0.052295,23,2,5,3361,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2303,'23RG206',2745.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.620598202232922,-0.62059820131557,4.04916386462684,375.343082825368,0.699609023096119,0.0,0.877377,0.036942,0.052295,23,2,6,3362,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2304,'23RG207',2746.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.612483716742356,-0.612483715825004,4.04916386462684,375.478781905851,0.699684121971479,0.0,0.877377,0.036942,0.052295,23,2,7,3363,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2305,'23RG208',2747.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.604708411399516,-0.604708410482164,4.04916386462684,375.615220153058,0.699759610937222,0.0,0.877377,0.036942,0.052295,23,2,8,3364,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2306,'23RG209',2748.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.597273907912447,-0.597273906995095,4.04916386462684,375.752357569598,0.699835467064832,0.0,0.877377,0.036942,0.052295,23,2,9,3365,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2307,'23RG210',2749.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.590181724724518,-0.590181723807166,4.04916386462684,375.890155016856,0.699911667942765,0.0,0.877377,0.036942,0.052295,23,2,10,3366,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2308,'23RG211',2750.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.583433279410623,-0.583433278493271,4.04916386462684,376.028574192589,0.699988191664215,0.0,0.877377,0.036942,0.052295,23,2,11,3367,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2309,'23RG212',2751.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.577029891013015,-0.577029890095663,4.04916386462684,376.167577605881,0.700065016813366,0.0,0.877377,0.036942,0.052295,23,2,12,3368,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2310,'23RG213',2752.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.57097278231033,-0.570972781392978,4.04916386462684,376.307128549618,0.700142122450228,0.0,0.877377,0.036942,0.052295,23,2,13,3369,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2311,'23RG214',2753.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.565263082013333,-0.565263081095981,4.04916386462684,376.447191070634,0.700219488094141,0.0,0.877377,0.036942,0.052295,23,2,14,3370,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2312,'23RG215',2754.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.559901826881851,-0.559901825964499,4.04916386462684,376.587729937669,0.700297093706033,0.0,0.877377,0.036942,0.052295,23,2,15,3371,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2313,'23RG216',2755.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.554889963757363,-0.55488996284011,4.04916386462684,376.728710607296,0.700374919669534,0.0,0.877377,0.036942,0.052295,23,2,16,3372,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2314,'23RG217',2756.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.550228351506571,-0.550228350589219,4.04916386462684,376.870099187959,0.700452946771016,0.0,0.877377,0.036942,0.052295,23,2,17,3373,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2315,'23RG218',2757.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.545917762870988,-0.545917761953636,4.04916386462684,377.011862402265,0.700531156178656,0.0,0.877377,0.036942,0.052295,23,2,18,3374,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2316,'23RG219',2758.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.541958886218874,-0.541958885301522,4.04916386462684,377.153967547676,0.700609529420601,0.0,0.877377,0.036942,0.052295,23,2,19,3375,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2317,'23RG220',2759.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.538352327195428,-0.538352326278076,4.04916386462684,377.296382455737,0.700688048362322,0.0,0.877377,0.036942,0.052295,23,2,20,3376,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2318,'23RG221',2760.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.535098610267904,-0.535098609350552,4.04916386462684,377.43907544999,0.700766695183233,0.0,0.877377,0.036942,0.052295,23,2,21,3377,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2319,'23RG222',2761.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.532198180162867,-0.532198179245515,4.04916386462684,377.582015302688,0.700845452352655,0.0,0.877377,0.036942,0.052295,23,2,22,3378,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2320,'23RG223',2762.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.529651403192569,-0.529651402275217,4.04916386462684,377.72517119047,0.700924302605212,0.0,0.877377,0.036942,0.052295,23,2,23,3379,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2321,'23RG224',2763.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.527458568468577,-0.527458567551225,4.04916386462684,377.868512649107,0.701003228915721,0.0,0.877377,0.036942,0.052295,23,2,24,3380,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2322,'23RG225',2764.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.525619889000348,-0.525619888082996,4.04916386462684,378.012009527465,0.701082214473662,0.0,0.877377,0.036942,0.052295,23,2,25,3381,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2323,'23RG226',2765.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.524135502677256,-0.524135501759904,4.04916386462684,378.155631940801,0.701161242657298,0.0,0.877377,0.036942,0.052295,23,2,26,3382,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2324,'23RG227',2766.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.523005473133149,-0.52300547221797,4.04916386462684,378.299350223524,0.701240297007516,0.0,0.877377,0.036942,0.052295,23,2,27,3383,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2325,'23RG228',2767.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.522229790491596,-0.522229789574244,4.04916386462684,378.443134881551,0.701319361201146,0.0,0.877377,0.036942,0.052295,23,2,28,3384,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2326,'23RG229',2768.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.521808371992444,-0.521808371075092,4.04916386462684,378.586956544368,0.701398419026027,0.0,0.877377,0.036942,0.052295,23,2,29,3385,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2327,'23RG230',2769.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.521741062498125,-0.521741061580773,4.04916386462684,378.730785916932,0.701477454351292,0.0,0.877377,0.036942,0.052295,23,2,30,3386,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2328,'23RG231',2770.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.52202763488061,-0.52202763963258,4.04916386462684,378.874593731526,0.701556451103936,0.0,0.877377,0.036942,0.052295,23,2,31,3387,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2329,'23RG232',2771.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.522667790288781,-0.522667789371429,4.04916386462684,379.018350699692,0.70163539324073,0.0,0.877377,0.036942,0.052295,23,2,32,3388,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2330,'23RG233',2772.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.523661158297069,-0.523661157379717,4.04916386462684,379.162027464356,0.701714264722156,0.0,0.877377,0.036942,0.052295,23,2,33,3389,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2331,'23RG234',2773.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.525007296936013,-0.525007296018661,4.04916386462684,379.305594552272,0.701793049486218,0.0,0.877377,0.036942,0.052295,23,2,34,3390,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2332,'23RG235',2774.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.526705692606166,-0.526705691688814,4.04916386462684,379.449022326895,0.701871731422517,0.0,0.877377,0.036942,0.052295,23,2,35,3391,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2333,'23RG236',2775.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.52875575987642,-0.528755758959068,4.04916386462684,379.59228094181,0.701950294346647,0.0,0.877377,0.036942,0.052295,23,2,36,3392,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2334,'23RG237',2776.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.531156841169116,-0.531156840251764,4.04916386462684,379.735340294829,0.702028721974975,0.0,0.877377,0.036942,0.052295,23,2,37,3393,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2335,'23RG238',2777.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.53390820633287,-0.533908205415518,4.04916386462684,379.878169982873,0.702106997899877,0.0,0.877377,0.036942,0.052295,23,2,38,3394,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2336,'23RG239',2778.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.537009052106792,0.53700905118944,4.04916386462684,380.020739257775,0.702185105565483,0.0,0.877377,0.036942,0.052295,23,2,39,3395,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2337,'23RG240',2779.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.540458501477249,-0.540458500559897,4.04916386462684,380.163016983096,0.702263028244,0.0,0.877377,0.036942,0.052295,23,2,40,3396,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2338,'23RG241',2780.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.544255602931197,-0.544255602013845,4.04916386462684,380.304971592103,0.702340749012675,0.0,0.877377,0.036942,0.052295,23,2,41,3397,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2339,'23RG242',2781.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.548399329608332,-0.54839932869098,4.04916386462684,380.446571047009,0.702418250731462,0.0,0.877377,0.036942,0.052295,23,2,42,3398,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2340,'23RG243',2782.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.552888578355871,-0.552888577438519,4.04916386462684,380.587782799609,0.702495516021449,0.0,0.877377,0.036942,0.052295,23,2,43,3399,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2341,'23RG244',2783.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.557722168689539,-0.557722167772187,4.04916386462684,380.72857375343,0.702572527244118,0.0,0.877377,0.036942,0.052295,23,2,44,3400,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2342,'23RG245',2784.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.562898841664714,-0.562898840747362,4.04916386462684,380.868910227519,0.702649266481501,0.0,0.877377,0.036942,0.052295,23,2,45,3401,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2343,'23RG246',2785.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.568417258661685,-0.568417257744333,4.04916386462684,381.008757921993,0.702725715517284,0.0,0.877377,0.036942,0.052295,23,2,46,3402,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2344,'23RG247',2786.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.574276000089962,0.57427599917261,4.04916386462684,381.148081885476,0.702801855818935,0.0,0.877377,0.036942,0.052295,23,2,47,3403,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2345,'23RG248',2787.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.580473564015906,-0.580473563098554,4.04916386462684,381.286846484552,0.702877668520912,0.0,0.877377,0.036942,0.052295,23,2,48,3404,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2346,'23RG249',2788.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.58700836471868,-0.587008363801328,4.04916386462684,381.425015375351,0.702953134409021,0.0,0.877377,0.036942,0.052295,23,2,49,3405,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2347,'23RG250',2789.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.593878731180768,-0.593878730263416,4.04916386462684,381.562551477406,0.703028233905977,0.0,0.877377,0.036942,0.052295,23,2,50,3406,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2348,'23RG251',2790.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.601082905516828,-0.601082904599476,4.04916386462684,381.699416949887,0.70310294705824,0.0,0.877377,0.036942,0.052295,23,2,51,3407,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2349,'23RG252',2791.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.608619041348535,-0.608619040431183,4.04916386462684,381.835573170367,0.70317725352419,0.0,0.877377,0.036942,0.052295,23,2,52,3408,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2350,'23RG253',2792.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.616485202130202,0.61648520121285,4.04916386462684,381.970980716213,0.703251132563686,0.0,0.877377,0.036942,0.052295,23,2,53,3409,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2351,'23RG254',2793.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.62467935943211,0.624679358514758,4.04916386462684,382.105599348745,0.703324563029099,0.0,0.877377,0.036942,0.052295,23,2,54,3410,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2352,'23RG255',2794.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.633199391188138,0.633199390270786,4.04916386462684,382.239388000277,0.703397523357844,0.0,0.877377,0.036942,0.052295,23,2,55,3411,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2353,'23RG256',2795.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.642043079913892,0.64204307899654,4.04916386462684,382.372304764159,0.703469991566504,0.0,0.877377,0.036942,0.052295,23,2,56,3412,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2354,'23RG257',2796.0,805.0,0.130614385965,1.44769077940924,1.44769077940924,0.0,1.44769077855927,-0.651208110903748,0.651208109986396,4.04916386462684,382.504306887945,0.703541945246578,0.0,0.877377,0.036942,0.052295,23,2,57,3413,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2355,'24RG101',2806.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.601013948381897,-0.601013947369348,1.98967534727354,382.641902208466,0.70361513989613,0.0,0.875666,0.037445,0.052614,24,1,1,3427,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2356,'24RG102',2807.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.592077966053664,-0.592077965041115,1.98967534727354,382.78033700504,0.703690049910309,0.0,0.875666,0.037445,0.052614,24,1,2,3428,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2357,'24RG103',2808.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.583478552254001,-0.583478551241452,1.98967534727354,382.91956933078,0.703765372473008,0.0,0.875666,0.037445,0.052614,24,1,3,3429,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2358,'24RG104',2809.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.575217421049385,-0.575217420036836,1.98967534727354,383.059558227508,0.703841084566807,0.0,0.875666,0.037445,0.052614,24,1,4,3430,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2359,'24RG105',2810.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.567296183440033,-0.567296182427484,1.98967534727354,383.200263709255,0.703917163741398,0.0,0.875666,0.037445,0.052614,24,1,5,3431,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2360,'24RG106',2811.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.559716349970935,-0.559716348958386,1.98967534727354,383.341646742717,0.703993588103137,0.0,0.875666,0.037445,0.052614,24,1,6,3432,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2361,'24RG107',2812.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.552479333290457,-0.552479332277908,1.98967534727354,383.483669224804,0.704070336302988,0.0,0.875666,0.037445,0.052614,24,1,7,3433,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2362,'24RG108',2813.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.54558645064941,-0.545586449636861,1.98967534727354,383.626293957453,0.704147387522912,0.0,0.875666,0.037445,0.052614,24,1,8,3434,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2363,'24RG109',2814.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.539038926333895,-0.539038925321346,1.98967534727354,383.769484619855,0.704224721460815,0.0,0.875666,0.037445,0.052614,24,1,9,3435,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2364,'24RG110',2815.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.532837894025491,-0.532837893012942,1.98967534727354,383.913205738239,0.704302318314144,0.0,0.875666,0.037445,0.052614,24,1,10,3436,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2365,'24RG111',2816.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.526984399083354,-0.526984398070805,1.98967534727354,384.057422653378,0.704380158762202,0.0,0.875666,0.037445,0.052614,24,1,11,3437,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2366,'24RG112',2817.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.521479400742181,-0.521479399729632,1.98967534727354,384.202101485957,0.704458223947298,0.0,0.875666,0.037445,0.052614,24,1,12,3438,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2367,'24RG113',2818.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.516323774221555,-0.516323773209006,1.98967534727354,384.347209099954,0.704536495454789,0.0,0.875666,0.037445,0.052614,24,1,13,3439,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2368,'24RG114',2819.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.511518312741715,-0.511518311729166,1.98967534727354,384.492713064176,0.704614955292117,0.0,0.875666,0.037445,0.052614,24,1,14,3440,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2369,'24RG115',2820.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.507063729441577,-0.507063728429028,1.98967534727354,384.638581612099,0.70469358586692,0.0,0.875666,0.037445,0.052614,24,1,15,3441,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2370,'24RG116',2821.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.502960659195097,-0.502960658182548,1.98967534727354,384.784783600145,0.70477236996429,0.0,0.875666,0.037445,0.052614,24,1,16,3442,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2371,'24RG117',2822.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.4992096603226,-0.499209659310051,1.98967534727354,384.931288464533,0.704851290723275,0.0,0.875666,0.037445,0.052614,24,1,17,3443,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2372,'24RG118',2823.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.495811216193687,-0.495811215181138,1.98967534727354,385.078066176845,0.704930331612673,0.0,0.875666,0.037445,0.052614,24,1,18,3444,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2373,'24RG119',2824.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.492765736719144,-0.492765735706595,1.98967534727354,385.225087198435,0.705009476406232,0.0,0.875666,0.037445,0.052614,24,1,19,3445,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2374,'24RG120',2825.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.490073559729354,-0.490073558716805,-1.98967534727354,385.372322433804,0.705088709157289,0.0,0.875666,0.037445,0.052614,24,1,20,3446,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2375,'24RG121',2826.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.487734952236914,-0.487734951224365,-1.98967534727354,385.519743183081,0.705168014172955,0.0,0.875666,0.037445,0.052614,24,1,21,3447,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2376,'24RG122',2827.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.485750111581923,-0.485750110569374,-1.98967534727354,385.667321093719,0.705247375987888,0.0,0.875666,0.037445,0.052614,24,1,22,3448,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2377,'24RG123',2828.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.484119166458122,-0.484119165445573,-1.98967534727354,385.815028111542,0.705326779337747,0.0,0.875666,0.037445,0.052614,24,1,23,3449,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2378,'24RG124',2829.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.482842177819166,-0.482842176806617,-1.98967534727354,385.962836431248,0.70540620913237,0.0,0.875666,0.037445,0.052614,24,1,24,3450,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2379,'24RG125',2830.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.481919139663639,-0.48191913865109,-1.98967534727354,386.110718446502,0.705485650428761,0.0,0.875666,0.037445,0.052614,24,1,25,3451,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2380,'24RG126',2831.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.481349979698678,-0.481349978686129,-1.98967534727354,386.258646699719,0.705565088403941,0.0,0.875666,0.037445,0.052614,24,1,26,3452,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2381,'24RG127',2832.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.481134559881377,-0.481134558868828,-1.98967534727354,386.406593831665,0.705644508327725,0.0,0.875666,0.037445,0.052614,24,1,27,3453,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2382,'24RG128',2833.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.481272676838601,-0.481272675826052,-1.98967534727354,386.554532530977,0.705723895535489,0.0,0.875666,0.037445,0.052614,24,1,28,3454,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2383,'24RG129',2834.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.481764062164879,-0.48176406115233,-1.98967534727354,386.702435483731,0.705803235400994,0.0,0.875666,0.037445,0.052614,24,1,29,3455,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2384,'24RG130',2835.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.482608382599154,-0.482608381586605,-1.98967534727354,386.850275323147,0.705882513309307,0.0,0.875666,0.037445,0.052614,24,1,30,3456,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2385,'24RG131',2836.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.483805240081204,-0.483805239068655,-1.98967534727354,386.998024579565,0.705961714629913,0.0,0.875666,0.037445,0.052614,24,1,31,3457,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2386,'24RG132',2837.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.485354171688599,-0.48535417067605,-1.98967534727354,387.145655630785,0.706040824690031,0.0,0.875666,0.037445,0.052614,24,1,32,3458,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2387,'24RG133',2838.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.487254649455772,-0.487254648443223,-1.98967534727354,387.293140652894,0.706119828748241,0.0,0.875666,0.037445,0.052614,24,1,33,3459,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2388,'24RG134',2839.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.489506080076468,-0.489506079063919,-1.98967534727354,387.440451571683,0.706198711968442,0.0,0.875666,0.037445,0.052614,24,1,34,3460,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2389,'24RG135',2840.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.492107804491433,-0.492107803478884,-1.98967534727354,387.58756001477,0.706277459394217,0.0,0.875666,0.037445,0.052614,24,1,35,3461,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2390,'24RG136',2841.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.495059097363666,-0.495059096351117,-1.98967534727354,387.734437264539,0.706356055923659,0.0,0.875666,0.037445,0.052614,24,1,36,3462,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2391,'24RG137',2842.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.498359166443188,-0.498359165430639,-1.98967534727354,387.881054212006,0.706434486284722,0.0,0.875666,0.037445,0.052614,24,1,37,3463,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2392,'24RG138',2843.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.502007151824188,-0.502007150811639,-1.98967534727354,388.027381311734,0.706512735011139,0.0,0.875666,0.037445,0.052614,24,1,38,3464,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2393,'24RG139',2844.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.506002125097063,-0.506002124084514,-1.98967534727354,388.173388537898,0.706590786418985,0.0,0.875666,0.037445,0.052614,24,1,39,3465,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2394,'24RG140',2845.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.510343088398842,-0.510343087386293,-1.98967534727354,388.319045341629,0.706668624583929,0.0,0.875666,0.037445,0.052614,24,1,40,3466,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2395,'24RG141',2846.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.515028973364857,-0.515028972352308,-1.98967534727354,388.46432060975,0.706746233319241,0.0,0.875666,0.037445,0.052614,24,1,41,3467,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2396,'24RG142',2847.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.520058639985479,-0.52005863897293,-1.98967534727354,388.609182625016,0.706823596154613,0.0,0.875666,0.037445,0.052614,24,1,42,3468,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2397,'24RG143',2848.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.525430875371847,-0.525430874359298,-1.98967534727354,388.753599027991,0.706900696315849,0.0,0.875666,0.037445,0.052614,24,1,43,3469,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2398,'24RG144',2849.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.531144392434229,-0.53114439142168,-1.98967534727354,388.89753678067,0.706977516705488,0.0,0.875666,0.037445,0.052614,24,1,44,3470,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2399,'24RG145',2850.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.537197828478136,-0.537197827465587,-1.98967534727354,389.040962131979,0.707054039884424,0.0,0.875666,0.037445,0.052614,24,1,45,3471,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2400,'24RG146',2851.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.543589743721783,-0.543589742709234,-1.98967534727354,389.183840585271,0.707130248054574,0.0,0.875666,0.037445,0.052614,24,1,46,3472,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2401,'24RG147',2852.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.550318619740971,-0.550318618728422,-1.98967534727354,389.326136867943,0.707206123042667,0.0,0.875666,0.037445,0.052614,24,1,47,3473,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2402,'24RG148',2853.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.557382857844787,-0.557382856832238,-1.98967534727354,389.467814903305,0.7072816462852,0.0,0.875666,0.037445,0.052614,24,1,48,3474,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2403,'24RG149',2854.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.564780777389679,-0.56478077637713,-1.98967534727354,389.608837784815,0.70735679881464,0.0,0.875666,0.037445,0.052614,24,1,49,3475,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2404,'24RG150',2855.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.572510614035509,-0.57251061302296,-1.98967534727354,389.749167752824,0.707431561246924,0.0,0.875666,0.037445,0.052614,24,1,50,3476,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2405,'24RG151',2856.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.580570517950826,-0.580570516938277,-1.98967534727354,389.888766173938,0.70750591377031,0.0,0.875666,0.037445,0.052614,24,1,51,3477,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2406,'24RG152',2857.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.588958551972568,-0.588958550960019,-1.98967534727354,390.027593523142,0.70757983613566,0.0,0.875666,0.037445,0.052614,24,1,52,3478,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2407,'24RG153',2858.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.597672689727951,-0.597672688715402,-1.98967534727354,390.165609368792,0.707653307648198,0.0,0.875666,0.037445,0.052614,24,1,53,3479,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2408,'24RG154',2859.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.606710813722658,-0.606710812710109,-1.98967534727354,390.302772360617,0.707726307160805,0.0,0.875666,0.037445,0.052614,24,1,54,3480,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2409,'24RG155',2860.0,805.0,0.131396545455,1.45051948227491,1.45051948227491,0.0,1.45051948142328,-0.61607071340577,-0.616070712393221,-1.98967534727354,390.439040220833,0.707798813068916,0.0,0.875666,0.037445,0.052614,24,1,55,3481,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2410,'24RG201',2869.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.61425846003451,-0.614258459113829,-1.98967534727354,390.576148600472,0.707871274719574,0.0,0.875891,0.037385,0.052623,24,2,1,3489,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2411,'24RG202',2870.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.606649381136294,-0.606649380215613,-1.98967534727354,390.713990690021,0.707944123626537,0.0,0.875891,0.037385,0.052623,24,2,2,3490,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2412,'24RG203',2871.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.599365350891754,-0.599365349971073,-1.98967534727354,390.852527779807,0.708017320759859,0.0,0.875891,0.037385,0.052623,24,2,3,3491,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2413,'24RG204',2872.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.592407796111138,-0.592407795190457,-1.98967534727354,390.991721969157,0.708090845390196,0.0,0.875891,0.037385,0.052623,24,2,4,3492,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2414,'24RG205',2873.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.585778051380972,-0.585778050460291,-1.98967534727354,391.131536146079,0.708164677243017,0.0,0.875891,0.037385,0.052623,24,2,5,3493,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2415,'24RG206',2874.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.579477361143865,-0.579477360223184,-1.98967534727354,391.271933964567,0.708238796486692,0.0,0.875891,0.037385,0.052623,24,2,6,3494,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2416,'24RG207',2875.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.573506881721029,-0.573506880800348,-1.98967534727354,391.412879819648,0.708313183719349,0.0,0.875891,0.037385,0.052623,24,2,7,3495,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2417,'24RG208',2876.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.567867683272061,-0.56786768235138,-1.98967534727354,391.554338820312,0.708387819954579,0.0,0.875891,0.037385,0.052623,24,2,8,3496,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2418,'24RG209',2877.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.562560751687313,-0.562560750766632,-1.98967534727354,391.696276760445,0.708462686606057,0.0,0.875891,0.037385,0.052623,24,2,9,3497,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2419,'24RG210',2878.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.557586990407933,-0.557586989487252,-1.98967534727354,391.838660087919,0.70853776547116,0.0,0.875891,0.037385,0.052623,24,2,10,3498,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2420,'24RG211',2879.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.552947222169506,-0.552947221248825,-1.98967534727354,391.981455871933,0.708613038713653,0.0,0.875891,0.037385,0.052623,24,2,11,3499,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2421,'24RG212',2880.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.548642190665297,-0.548642189744616,-1.98967534727354,392.124631768766,0.708688488845512,0.0,0.875891,0.037385,0.052623,24,2,12,3500,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2422,'24RG213',2881.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.544672562125455,-0.544672561204774,-1.98967534727354,392.268155986049,0.708764098707956,0.0,0.875891,0.037385,0.052623,24,2,13,3501,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2423,'24RG214',2882.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.541038926808943,-0.541038925888262,-1.98967534727354,392.41199724568,0.708839851451768,0.0,0.875891,0.037385,0.052623,24,2,14,3502,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2424,'24RG215',2883.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.537741800405242,-0.537741799484561,-1.98967534727354,392.556124745518,0.708915730516953,0.0,0.875891,0.037385,0.052623,24,2,15,3503,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2425,'24RG216',2884.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.534781625343092,-0.534781624422411,-1.98967534727354,392.700508119959,0.708991719611824,0.0,0.875891,0.037385,0.052623,24,2,16,3504,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2426,'24RG217',2885.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.532158772003952,-0.532158771083271,-1.98967534727354,392.845117399527,0.709067802691559,0.0,0.875891,0.037385,0.052623,24,2,17,3505,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2427,'24RG218',2886.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.529873539838198,-0.529873538917517,-1.98967534727354,392.989922969587,0.70914396393632,0.0,0.875891,0.037385,0.052623,24,2,18,3506,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2428,'24RG219',2887.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.527926158382143,-0.527926157461462,-1.98967534727354,393.134895528304,0.709220187728964,0.0,0.875891,0.037385,0.052623,24,2,19,3507,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2429,'24RG220',2888.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.526316788174546,-0.526316787253865,-1.98967534727354,393.280006043954,0.709296458632444,0.0,0.875891,0.037385,0.052623,24,2,20,3508,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2430,'24RG221',2889.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.525045521571427,-0.525045520650746,-1.98967534727354,393.425225711703,0.709372761366934,0.0,0.875891,0.037385,0.052623,24,2,21,3509,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2431,'24RG222',2890.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.524112383457853,-0.524112382537172,-1.98967534727354,393.570525909961,0.709449080786753,0.0,0.875891,0.037385,0.052623,24,2,22,3510,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2432,'24RG223',2891.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.523517331856779,-0.523517330936098,-1.98967534727354,393.715878156429,0.709525401857136,0.0,0.875891,0.037385,0.052623,24,2,23,3511,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2433,'24RG224',2892.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.523260258433715,-0.523260257513034,-1.98967534727354,393.861254063933,0.709601709630925,0.0,0.875891,0.037385,0.052623,24,2,24,3512,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2434,'24RG225',2893.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.523340988897813,-0.523340987977132,-1.98967534727354,394.006625296169,0.709677989225221,0.0,0.875891,0.037385,0.052623,24,2,25,3513,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2435,'24RG226',2894.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.52375928329885,-0.523759282378169,-1.98967534727354,394.151963523447,0.709754225798062,0.0,0.875891,0.037385,0.052623,24,2,26,3514,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2436,'24RG227',2895.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.524514836220915,-0.524514835300234,-1.98967534727354,394.297240378557,0.709830404525183,0.0,0.875891,0.037385,0.052623,24,2,27,3515,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2437,'24RG228',2896.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.525607276873052,-0.525607275952371,-1.98967534727354,394.442427412845,0.709906510576909,0.0,0.875891,0.037385,0.052623,24,2,28,3516,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2438,'24RG229',2897.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.527036169078171,-0.52703616815749,-1.98967534727354,394.587496052627,0.709982529095241,0.0,0.875891,0.037385,0.052623,24,2,29,3517,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2439,'24RG230',2898.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.528801011160616,-0.528801010239935,-1.98967534727354,394.732417556011,0.710058445171178,0.0,0.875891,0.037385,0.052623,24,2,30,3518,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2440,'24RG231',2899.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.530901235734446,-0.530901234813765,-1.98967534727354,394.877162970273,0.710134243822348,0.0,0.875891,0.037385,0.052623,24,2,31,3519,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2441,'24RG232',2900.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.533336209393247,-0.533336208472566,-1.98967534727354,395.021703089853,0.710209909970975,0.0,0.875891,0.037385,0.052623,24,2,32,3520,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2442,'24RG233',2901.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.536105232304009,-0.536105231383328,-1.98967534727354,395.166008415102,0.710285428422265,0.0,0.875891,0.037385,0.052623,24,2,33,3521,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2443,'24RG234',2902.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.539207537706338,-0.539207536785657,-1.98967534727354,395.310049111878,0.71036078384324,0.0,0.875891,0.037385,0.052623,24,2,34,3522,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2444,'24RG235',2903.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.542642291319722,-0.542642290399041,-1.98967534727354,395.453794972086,0.710435960742082,0.0,0.875891,0.037385,0.052623,24,2,35,3523,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2445,'24RG236',2904.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.546408590661349,-0.546408589740668,-1.98967534727354,395.597215375286,0.710510943448043,0.0,0.875891,0.037385,0.052623,24,2,36,3524,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2446,'24RG237',2905.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.550505464276567,-0.550505463355886,-1.98967534727354,395.740279251464,0.710585716091971,0.0,0.875891,0.037385,0.052623,24,2,37,3525,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2447,'24RG238',2906.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.554931870885915,-0.554931869965234,-1.98967534727354,395.882955045075,0.710660262587504,0.0,0.875891,0.037385,0.052623,24,2,38,3526,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2448,'24RG239',2907.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.559686698450646,-0.559686697529965,-1.98967534727354,396.02521068047,0.710734566612984,0.0,0.875891,0.037385,0.052623,24,2,39,3527,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2449,'24RG240',2908.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.564768763161317,-0.564768762240636,-1.98967534727354,396.167013528811,0.710808611594153,0.0,0.875891,0.037385,0.052623,24,2,40,3528,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2450,'24RG241',2909.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.570176800352101,-0.57017680743142,-1.98967534727354,396.308330376589,0.71088238068767,0.0,0.875891,0.037385,0.052623,24,2,41,3529,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2451,'24RG242',2910.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.575909503345221,-0.57590950242454,-1.98967534727354,396.449127395848,0.710955856765513,0.0,0.875891,0.037385,0.052623,24,2,42,3530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2452,'24RG243',2911.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.581965442229587,-0.581965441308906,-1.98967534727354,396.589370116231,0.711029022400318,0.0,0.875891,0.037385,0.052623,24,2,43,3531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2453,'24RG244',2912.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.588343142576781,-0.5883431416561,-1.98967534727354,396.729023398958,0.711101859851707,0.0,0.875891,0.037385,0.052623,24,2,44,3532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2454,'24RG245',2913.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.595041044101235,-0.595041043180554,-1.98967534727354,396.868051412838,0.71117435105365,0.0,0.875891,0.037385,0.052623,24,2,45,3533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2455,'24RG246',2914.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.602057507266457,-0.602057506345776,-1.98967534727354,397.006417612442,0.711246477602929,0.0,0.875891,0.037385,0.052623,24,2,46,3534,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2456,'24RG247',2915.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.609390811844448,-0.609390810923767,-1.98967534727354,397.144084718527,0.711318220748744,0.0,0.875891,0.037385,0.052623,24,2,47,3535,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2457,'24RG248',2916.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.617039155432826,-0.617039154512145,-1.98967534727354,397.281014700838,0.71138956138519,0.0,0.875891,0.037385,0.052623,24,2,48,3536,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2458,'24RG249',2917.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.625000651934157,-0.625000651013476,-1.98967534727354,397.417168763387,0.711460480034958,0.0,0.875891,0.037385,0.052623,24,2,49,3537,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2459,'24RG250',2918.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.633273330004349,-0.633273329083668,-1.98967534727354,397.552507332311,0.711530956859398,0.0,0.875891,0.037385,0.052623,24,2,50,3538,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2460,'24RG251',2919.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.641855131475423,-0.641855130554742,-1.98967534727354,397.686990046431,0.711600971636513,0.0,0.875891,0.037385,0.052623,24,2,51,3539,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2461,'24RG252',2920.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.650743909758097,-0.650743908837416,-1.98967534727354,397.82057575059,0.711670503765412,0.0,0.875891,0.037385,0.052623,24,2,52,3540,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2462,'24RG253',2921.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.659937428231074,-0.659937427310393,-1.98967534727354,397.953222491898,0.711739532262188,0.0,0.875891,0.037385,0.052623,24,2,53,3541,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2463,'24RG254',2922.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.669433358623442,-0.669433357702761,-1.98967534727354,398.084887518951,0.711808035758947,0.0,0.875891,0.037385,0.052623,24,2,54,3542,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2464,'24RG255',2923.0,805.0,0.132135454545,1.45014687097566,1.45014687097566,0.0,1.45014687012425,-0.679229279396181,-0.6792292784755,-1.98967534727354,398.215527284144,0.711875992504373,0.0,0.875891,0.037385,0.052623,24,2,55,3543,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2465,'25RG101',2933.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.566104116175322,-0.566104115063328,-1.74532925199433,398.357999417447,0.711946720975234,0.0,0.876113,0.037325,0.052631,25,1,1,3559,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2466,'25RG102',2934.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.557154604048028,-0.557154602936034,-1.74532925199433,398.501278096619,0.71202069187417,0.0,0.876113,0.037325,0.052631,25,1,2,3560,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2467,'25RG103',2935.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.548533481491615,-0.548533480379621,-1.74532925199433,398.645322980058,0.71209503826585,0.0,0.876113,0.037325,0.052631,25,1,3,3561,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2468,'25RG104',2936.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.540242285761147,-0.540242284649153,-1.74532925199433,398.79009475382,0.712169739051672,0.0,0.876113,0.037325,0.052631,25,1,4,3562,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2469,'25RG105',2937.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.53228246086981,-0.532282459757816,-1.74532925199433,398.935555113317,0.712244773692849,0.0,0.876113,0.037325,0.052631,25,1,5,3563,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2470,'25RG106',2938.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.524655360126358,-0.524655359014364,-1.74532925199433,399.081666742173,0.712320122199472,0.0,0.876113,0.037325,0.052631,25,1,6,3564,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2471,'25RG107',2939.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.517362248618914,-0.51736224750692,-1.74532925199433,399.228393288404,0.712395765118142,0.0,0.876113,0.037325,0.052631,25,1,7,3565,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2472,'25RG108',2940.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.510404305638842,-0.510404304526848,-1.74532925199433,399.375699338051,0.7124716835118244,0.0,0.876113,0.037325,0.052631,25,1,8,3566,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2473,'25RG109',2941.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.503782627039092,-0.503782625927098,-1.74532925199433,399.523550386433,0.712547858976932,0.0,0.876113,0.037325,0.052631,25,1,9,3567,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2474,'25RG110',2942.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.497498227521303,-0.497498226409309,-1.74532925199433,399.671912807133,0.712624273562978,0.0,0.876113,0.037325,0.052631,25,1,10,3568,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2475,'25RG111',2943.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.491552042846925,-0.491552041734931,-1.74532925199433,399.820753818893,0.712700909819431,0.0,0.876113,0.037325,0.052631,25,1,11,3569,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2476,'25RG112',2944.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.485944931967252,-0.485944930855258,-1.74532925199433,399.970041450529,0.712777750745305,0.0,0.876113,0.037325,0.052631,25,1,12,3570,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2477,'25RG113',2945.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.48067767906854,-0.480677677956546,-1.74532925199433,400.119744504014,0.712854779776278,0.0,0.876113,0.037325,0.052631,25,1,13,3571,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2478,'25RG114',2946.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.475750995527674,-0.47575099441568,-1.74532925199433,400.269832515862,0.712931980764515,0.0,0.876113,0.037325,0.052631,25,1,14,3572,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2479,'25RG115',2947.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.471165521775154,-0.47116552066316,-1.74532925199433,400.420275716946,0.713009337957686,0.0,0.876113,0.037325,0.052631,25,1,15,3573,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2480,'25RG116',2948.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.466921829061716,-0.466921827949722,-1.74532925199433,400.571044990867,0.713086835977227,0.0,0.876113,0.037325,0.052631,25,1,16,3574,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2481,'25RG117',2949.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.463020421125853,-0.463020420013859,-1.74532925199433,400.72211183101,0.71316445979595101,0.0,0.876113,0.037325,0.052631,25,1,17,3575,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2482,'25RG118',2950.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.459461735759332,-0.459461734647338,-1.74532925199433,400.873448296403,0.713242194715036,0.0,0.876113,0.037325,0.052631,25,1,18,3576,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2483,'25RG119',2951.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.456246146268347,-0.456246145156353,-1.74532925199433,401.025026966498,0.713320026340483,0.0,0.876113,0.037325,0.052631,25,1,19,3577,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2484,'25RG120',2952.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.453373962828278,-0.453373961716284,-1.74532925199433,401.176820894991,0.713397940559092,0.0,0.876113,0.037325,0.052631,25,1,20,3578,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2485,'25RG121',2953.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.45084543373,-0.450845432618006,-1.74532925199433,401.328803562793,0.713475923514032,0.0,0.876113,0.037325,0.052631,25,1,21,3579,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2486,'25RG122',2954.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.448660746516394,-0.4486607454044,-1.74532925199433,401.480948830257,0.71355396158004,0.0,0.876113,0.037325,0.052631,25,1,22,3580,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2487,'25RG123',2955.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.446820029007645,-0.446820027895651,-1.74532925199433,401.633230888783,0.713632041338337,0.0,0.876113,0.037325,0.052631,25,1,23,3581,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2488,'25RG124',2956.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.445323350214336,-0.445323349102342,-1.74532925199433,401.785624211889,0.713710149551297,0.0,0.876113,0.037325,0.052631,25,1,24,3582,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2489,'25RG125',2957.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.44417072113726,-0.444170720025266,-1.74532925199433,401.938103505865,0.713788273136924,0.0,0.876113,0.037325,0.052631,25,1,25,3583,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2490,'25RG126',2958.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.44336209545409,-0.443362094342096,-1.74532925199433,402.090643660102,0.71386639914321,0.0,0.876113,0.037325,0.052631,25,1,26,3584,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2491,'25RG127',2959.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.442897370091591,-0.442897368979597,-1.74532925199433,402.243219697205,0.713944514722403,0.0,0.876113,0.037325,0.052631,25,1,27,3585,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2492,'25RG128',2960.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.442776385684239,-0.442776384572245,-1.74532925199433,402.395806722978,0.714022607105244,0.0,0.876113,0.037325,0.052631,25,1,28,3586,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2493,'25RG129',2961.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.442998926918682,-0.442998925806688,-1.74532925199433,402.54837987639,0.71410066357524,0.0,0.876113,0.037325,0.052631,25,1,29,3587,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2494,'25RG130',2962.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.44356472276476,-0.443564721652766,-1.74532925199433,402.700914279606,0.714178671442993,0.0,0.876113,0.037325,0.052631,25,1,30,3588,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2495,'25RG131',2963.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.444473446593767,-0.444473445481773,-1.74532925199433,402.853384988193,0.714256618020664,0.0,0.876113,0.037325,0.052631,25,1,31,3589,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2496,'25RG132',2964.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.445724716184044,-0.44572471507205,-1.74532925199433,403.005766941583,0.714334490596593,0.0,0.876113,0.037325,0.052631,25,1,32,3590,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2497,'25RG133',2965.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.447318093615967,-0.447318092503973,-1.74532925199433,403.158034913898,0.714412276410148,0.0,0.876113,0.037325,0.052631,25,1,33,3591,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2498,'25RG134',2966.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.449253085056538,-0.449253083944544,-1.74532925199433,403.310163465225,0.714489962626834,0.0,0.876113,0.037325,0.052631,25,1,34,3592,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2499,'25RG135',2967.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.451529140435573,-0.451529139323579,-1.74532925199433,403.46212689345,0.714567536313716,0.0,0.876113,0.037325,0.052631,25,1,35,3593,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2500,'25RG136',2968.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.454145653014974,-0.45414565190298,-1.74532925199433,403.613899186729,0.714644984415206,0.0,0.876113,0.037325,0.052631,25,1,36,3594,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2501,'25RG137',2969.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.457101958852865,-0.457101957740871,-1.74532925199433,403.765453976709,0.714722293729252,0.0,0.876113,0.037325,0.052631,25,1,37,3595,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2502,'25RG138',2970.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.460397336164531,-0.460397335052537,-1.74532925199433,403.916764492588,0.714799450883994,0.0,0.876113,0.037325,0.052631,25,1,38,3596,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2503,'25RG139',2971.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.464031004582543,-0.464031003470549,-1.74532925199433,404.067803516125,0.714876442314914,0.0,0.876113,0.037325,0.052631,25,1,39,3597,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2504,'25RG140',2972.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.468002124318515,-0.468002123206521,-1.74532925199433,404.218543337681,0.71495325424255,0.0,0.876113,0.037325,0.052631,25,1,40,3598,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2505,'25RG141',2973.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.472309795229085,-0.472309794117091,-1.74532925199433,404.368955713421,0.715029872650807,0.0,0.876113,0.037325,0.052631,25,1,41,3599,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2506,'25RG142',2974.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.476953055788952,-0.476953054676958,-1.74532925199433,404.51901182375,0.715106283265924,0.0,0.876113,0.037325,0.052631,25,1,42,3600,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2507,'25RG143',2975.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.481930881974128,-0.481930880862134,-1.74532925199433,404.66868223312,0.715182471536137,0.0,0.876113,0.037325,0.052631,25,1,43,3601,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2508,'25RG144',2976.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.487242186058365,-0.487242184946371,-1.74532925199433,404.81793685129,0.715258422612108,0.0,0.876113,0.037325,0.052631,25,1,44,3602,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2509,'25RG145',2977.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.492885815326877,-0.492885814214883,-1.74532925199433,404.966744896159,0.715334121328148,0.0,0.876113,0.037325,0.052631,25,1,45,3603,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2510,'25RG146',2978.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.498860550710701,-0.498860549598707,-1.74532925199433,405.115074858292,0.715409552184299,0.0,0.876113,0.037325,0.052631,25,1,46,3604,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2511,'25RG147',2979.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.505165105345375,-0.505165104233381,-1.74532925199433,405.262894467231,0.715484699329334,0.0,0.876113,0.037325,0.052631,25,1,47,3605,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2512,'25RG148',2980.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.511798123058453,-0.511798121946459,-1.74532925199433,405.41017065972,0.715559546544706,0.0,0.876113,0.037325,0.052631,25,1,48,3606,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2513,'25RG149',2981.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.51875817679039,-0.518758175678396,-1.74532925199433,405.556869549961,0.715634077229527,0.0,0.876113,0.037325,0.052631,25,1,49,3607,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2514,'25RG150',2982.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.526043766952851,-0.526043765840857,-1.74532925199433,405.702956402006,0.715708274386608,0.0,0.876113,0.037325,0.052631,25,1,50,3608,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2515,'25RG151',2983.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.533653319729771,-0.533653318617777,-1.74532925199433,405.848395604412,0.71578212060609627,0.0,0.876113,0.037325,0.052631,25,1,51,3609,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2516,'25RG152',2984.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.541585185325898,-0.541585184213904,-1.74532925199433,405.993150647276,0.715855598071476,0.0,0.876113,0.037325,0.052631,25,1,52,3610,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2517,'25RG153',2985.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.549837636168382,-0.549837635056388,-1.74532925199433,406.137184101772,0.715928688513846,0.0,0.876113,0.037325,0.052631,25,1,53,3611,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2518,'25RG154',2986.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.558408865066637,-0.558408863954643,-1.74532925199433,406.2804576023,0.71600137323809,0.0,0.876113,0.037325,0.052631,25,1,54,3612,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2519,'25RG155',2987.0,805.0,0.132952909091,1.4497794154016,1.4497794154016,0.0,1.44977941455041,-0.567296983336339,-0.567296982224345,-1.74532925199433,406.422931831373,0.716073633097444,0.0,0.876113,0.037325,0.052631,25,1,55,3613,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2520,'25RG201',2996.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.551526627059246,-0.551526625901976,-1.74532925199433,406.567555393123,0.716146203844599,0.0,0.876323,0.037269,0.052639,25,2,1,3621,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2521,'25RG202',2997.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.542611020625585,-0.542611019468314,-1.74532925199433,406.712968427544,0.716219486405023,0.0,0.876323,0.037269,0.052639,25,2,2,3622,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2522,'25RG203',2998.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.534018803510574,-0.534018802353303,-1.74532925199433,406.859131464386,0.716293126513223,0.0,0.876323,0.037269,0.052639,25,2,3,3623,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2523,'25RG204',2999.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.525751428995114,-0.525751427837843,-1.74532925199433,407.006006067463,0.716367104027052,0.0,0.876323,0.037269,0.052639,25,2,4,3624,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2524,'25RG205',3000.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.517810261919915,-0.517810260762644,-1.74532925199433,407.15355481574,0.71644139935307,0.0,0.876323,0.037269,0.052639,25,2,5,3625,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2525,'25RG206',3001.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.510196581155226,-0.510196579997956,-1.74532925199433,407.301741281724,0.716515993436748,0.0,0.876323,0.037269,0.052639,25,2,6,3626,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2526,'25RG207',3002.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.502911582017226,-0.502911580859955,-1.74532925199433,407.450530007289,0.716590867747791,0.0,0.876323,0.037269,0.052639,25,2,7,3627,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2527,'25RG208',3003.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.49595637862545,-0.495956377468179,-1.74532925199433,407.599886477075,0.716666004268932,0.0,0.876323,0.037269,0.052639,25,2,8,3628,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2528,'25RG209',3004.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.48933200619583,-0.489332005038559,-1.74532925199433,407.749777089614,0.716741385479991,0.0,0.876323,0.037269,0.052639,25,2,9,3629,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2529,'25RG210',3005.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.483039423264344,-0.483039422107073,-1.74532925199433,407.900169126305,0.716816994342259,0.0,0.876323,0.037269,0.052639,25,2,10,3630,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2530,'25RG211',3006.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.47707951383662,-0.477079512679349,-1.74532925199433,408.051030718385,0.716892814281599,0.0,0.876323,0.037269,0.052639,25,2,11,3631,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2531,'25RG212',3007.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.471453089459159,-0.471453088301889,-1.74532925199433,408.202330812018,0.716968829170595,0.0,0.876323,0.037269,0.052639,25,2,12,3632,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2532,'25RG213',3008.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.466160891208239,-0.466160890050968,-1.74532925199433,408.354039131639,0.717045023309814,0.0,0.876323,0.037269,0.052639,25,2,13,3633,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2533,'25RG214',3009.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.461203591592662,-0.461203590435392,-1.74532925199433,408.506126141682,0.717121381408243,0.0,0.876323,0.037269,0.052639,25,2,14,3634,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2534,'25RG215',3010.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.456581796367082,-0.456581795209811,-1.74532925199433,408.658563006805,0.717197888562975,0.0,0.876323,0.037269,0.052639,25,2,15,3635,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2535,'25RG216',3011.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.452296046252839,-0.452296045095569,-1.74532925199433,408.811321550745,0.71727453023821,0.0,0.876323,0.037269,0.052639,25,2,16,3636,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2536,'25RG217',3012.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.4483468185635,-0.448346817406229,-1.74532925199433,408.964374213917,0.717351292243653,0.0,0.876323,0.037269,0.052639,25,2,17,3637,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2537,'25RG218',3013.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.444734528732581,-0.44473452757531,-1.74532925199433,409.117694009863,0.71742816071228,0.0,0.876323,0.037269,0.052639,25,2,18,3638,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2538,'25RG219',3014.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.441459531741266,-0.441459530583995,-1.74532925199433,409.271254480677,0.717505122077708,0.0,0.876323,0.037269,0.052639,25,2,19,3639,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2539,'25RG220',3015.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.438522123444101,-0.43852212228683,-1.74532925199433,409.425029651507,0.717582163051036,0.0,0.876323,0.037269,0.052639,25,2,20,3640,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2540,'25RG221',3016.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.43592254179112,-0.43592254063385,-1.74532925199433,409.578993984239,0.717659270597338,0.0,0.876323,0.037269,0.052639,25,2,21,3641,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2541,'25RG222',3017.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.433660967944746,-0.433660966787475,-1.74532925199433,409.733122330466,0.717736431911816,0.0,0.876323,0.037269,0.052639,25,2,22,3642,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2542,'25RG223',3018.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.431737527290316,-0.431737526133045,-1.74532925199433,409.887389883857,0.71781363439567,0.0,0.876323,0.037269,0.052639,25,2,23,3643,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2543,'25RG224',3019.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.430152290339335,-0.430152289182065,-1.74532925199433,410.041772131994,0.717890865631746,0.0,0.876323,0.037269,0.052639,25,2,24,3644,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2544,'25RG225',3020.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.428905273524811,-0.42890527236754,-1.74532925199433,410.196244807813,0.71796811336001,0.0,0.876323,0.037269,0.052639,25,2,25,3645,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2545,'25RG226',3021.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.427996439887691,-0.427996438730421,-1.74532925199433,410.350783840706,0.718045365452882,0.0,0.876323,0.037269,0.052639,25,2,26,3646,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2546,'25RG227',3022.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.427425699654597,-0.427425698497327,-
1.74532925199433,410.505365307406,0.718122609890497,0.0,0.876323,0.037269,0.052639,25,2,27,3647,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2547,'25RG228',3023.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.427192910706323,-0.427192909549053,-
1.74532925199433,410.659965382725,0.718199834735936,0.0,0.876323,0.037269,0.052639,25,2,28,3648,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2548,'25RG229',3024.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.427297878937713,-0.427297877780443,-
1.74532925199433,410.814560290254,0.718277028110462,0.0,0.876323,0.037269,0.052639,25,2,29,3649,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2549,'25RG230',3025.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.427740358508572,-0.427740357351301,-
1.74532925199433,410.969126253099,0.718354178168818,0.0,0.876323,0.037269,0.052639,25,2,30,3650,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2550,'25RG231',3026.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.428520051986587,-0.428520050829317,-
1.74532925199433,411.123639444753,0.718431273074623,0.0,0.876323,0.037269,0.052639,25,2,31,3651,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2551,'25RG232',3027.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.429636610382644,-0.429636609225373,-
1.74532925199433,411.27807594018,0.718508300975918,0.0,0.876323,0.037269,0.052639,25,2,32,3652,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2552,'25RG233',3028.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.431089633079672,-0.431089631922401,-
1.74532925199433,411.432411667219,0.718585249980899,0.0,0.876323,0.037269,0.052639,25,2,33,3653,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2553,'25RG234',3029.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.432878667656012,-0.432878666498741,-
1.74532925199433,411.586622358372,0.718662108133883,0.0,0.876323,0.037269,0.052639,25,2,34,3654,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2554,'25RG235',3030.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.435003209604039,-0.435003208446769,-
1.74532925199433,411.740683503086,0.718738863391548,0.0,0.876323,0.037269,0.052639,25,2,35,3655,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2555,'25RG236',3031.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.437462701946557,-0.437462700789286,-
1.74532925199433,411.894570300608,0.718815503599494,0.0,0.876323,0.037269,0.052639,25,2,36,3656,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2556,'25RG237',3032.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.440256534751233,-0.440256533593963,-
1.74532925199433,412.048257613495,0.718892016469166,0.0,0.876323,0.037269,0.052639,25,2,37,3657,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2557,'25RG238',3033.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.443384044546091,-0.443384043388821,-
1.74532925199433,412.201719921899,0.71896838955518,0.0,0.876323,0.037269,0.052639,25,2,38,3658,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2558,'25RG239',3034.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.446844513637379,-0.446844512480109,-
1.74532925199433,412.354931278677,0.719044610233102,0.0,0.876323,0.037269,0.052639,25,2,39,3659,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2559,'25RG240',3035.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.450637169331954,-0.450637168174683,-
1.74532925199433,412.507865265459,0.719120665677712,0.0,0.876323,0.037269,0.052639,25,2,40,3660,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2560,'25RG241',3036.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.454761183066927,-0.454761181909657,-
1.74532925199433,412.66049494975,0.71919654284182,0.0,0.876323,0.037269,0.052639,25,2,41,3661,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2561,'25RG242',3037.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.459215669448581,-0.459215668291311,-
1.74532925199433,412.812792843153,0.719272228435646,0.0,0.876323,0.037269,0.052639,25,2,42,3662,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2562,'25RG243',3038.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.463999685204263,-0.463999684046993,-
1.74532925199433,412.964730860842,0.719347708906845,0.0,0.876323,0.037269,0.052639,25,2,43,3663,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2563,'25RG244',3039.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.469112228048585,-0.469112226891315,-
1.74532925199433,413.116280282351,0.719422970421195,0.0,0.876323,0.037269,0.052639,25,2,44,3664,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2564,'25RG245',3040.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.474552235468969,-0.474552234311698,-
1.74532925199433,413.267411713806,0.719497998844013,0.0,0.876323,0.037269,0.052639,25,2,45,3665,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2565,'25RG246',3041.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.480318583431994,-0.480318582274723,-
1.74532925199433,413.418095051693,0.719572779722335,0.0,0.876323,0.037269,0.052639,25,2,46,3666,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2566,'25RG247',3042.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.486410085015981,-0.486410083858711,-
1.74532925199433,413.568299448263,0.719647298267917,0.0,0.876323,0.037269,0.052639,25,2,47,3667,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2567,'25RG248',3043.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.492825488971262,-0.492825487813992,-
1.74532925199433,413.717993278701,0.719721539341097,0.0,0.876323,0.037269,0.052639,25,2,48,3668,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2568,'25RG249',3044.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.499563478214788,-0.499563477057517,-
1.74532925199433,413.86714411014,0.719795487435579,0.0,0.876323,0.037269,0.052639,25,2,49,3669,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2569,'25RG250',3045.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.506622668260348,-0.506622667103077,-
1.74532925199433,414.015718672655,0.719869126664173,0.0,0.876323,0.037269,0.052639,25,2,50,3670,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2570,'25RG251',3046.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.514001605591309,-0.514001604434039,-
1.74532925199433,414.16368283234,0.719942440745561,0.0,0.876323,0.037269,0.052639,25,2,51,3671,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2571,'25RG252',3047.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.521698765978172,-0.521698764820901,-
1.74532925199433,414.311001566577,0.72001541299211,0.0,0.876323,0.037269,0.052639,25,2,52,3672,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2572,'25RG253',3048.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.529712552747958,-0.529712551590688,-
1.74532925199433,414.457638941617,0.720088026298861,0.0,0.876323,0.037269,0.052639,25,2,53,3673,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2573,'25RG254',3049.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.538041295008213,-0.538041293850942,-
1.74532925199433,414.603558092586,0.720160263133556,0.0,0.876323,0.037269,0.052639,25,2,54,3674,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2574,'25RG255',3050.0,805.0,0.133735636364,1.4494319936436,1.4494319936436,0.0,1.44943199279261,-0.546683245832545,-0.546683244675275,-
1.74532925199433,414.748721206031,0.720232105528058,0.0,0.876323,0.037269,0.052639,25,2,55,3675,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2575,'26RG101',3060.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.616642479031114,-0.616642478006195,-
1.60570291183478,414.888060424478,0.720302294615429,0.0,0.876525,0.037215,0.05265,26,1,1,3689,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2576,'26RG102',3061.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.607517879590113,-0.607517878565194,-
1.60570291183478,415.028296855586,0.720371240044505,0.0,0.876525,0.037215,0.05265,26,1,2,3690,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2577,'26RG103',3062.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.598695953197261,-0.598695952172342,-
1.60570291183478,415.169389729058,0.720440589732929,0.0,0.876525,0.037215,0.05265,26,1,3,3691,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2578,'26RG104',3063.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.590178357784229,-0.59017835675931,-
1.60570291183478,415.311299175256,0.720510323302802,0.0,0.876525,0.037215,0.05265,26,1,4,3692,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2579,'26RG105',3064.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.581966662064506,-0.581966661039587,-
1.60570291183478,415.453986216536,0.720580420847781,0.0,0.876525,0.037215,0.05265,26,1,5,3693,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2580,'26RG106',3065.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.574062347657524,-0.574062346632605,-
1.60570291183478,415.597412755873,0.72065086292767,0.0,0.876525,0.037215,0.05265,26,1,6,3694,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2581,'26RG107',3066.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.566466811184839,-0.56646681015992,-
1.60570291183478,415.741541562912,0.720721630561673,0.0,0.876525,0.037215,0.05265,26,1,7,3695,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2582,'26RG108',3067.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.559181366332631,-0.559181365307712,-
1.60570291183478,415.88633625755,0.720792705220389,0.0,0.876525,0.037215,0.05265,26,1,8,3696,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2583,'26RG109',3068.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.552207245875053,-0.552207244850134,-
1.60570291183478,416.031761291165,0.720864068816609,0.0,0.876525,0.037215,0.05265,26,1,9,3697,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2584,'26RG110',3069.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.545545603653516,-0.545545602628597,-
1.60570291183478,416.17778192563,0.720935703694986,0.0,0.876525,0.037215,0.05265,26,1,10,3698,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2585,'26RG111',3070.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.539197516506747,-0.539197515481828,-
1.60570291183478,416.324364210207,0.721007592620625,0.0,0.876525,0.037215,0.05265,26,1,11,3699,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2586,'26RG112',3071.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.533163986147493,-0.533163985122574,-
1.60570291183478,416.471477956456,0.721079718766675,0.0,0.876525,0.037215,0.05265,26,1,12,3700,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2587,'26RG113',3072.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.52744594098121,-0.527445939956291,-
1.60570291183478,416.619081711265,0.72115206570097,0.0,0.876525,0.037215,0.05265,26,1,13,3701,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2588,'26RG114',3073.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.522044237863178,-0.522044236838259,-
1.60570291183478,416.767152728119,0.721224617371798,0.0,0.876525,0.037215,0.05265,26,1,14,3702,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2589,'26RG115',3074.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.516959663789862,-0.516959662764943,-1.60570291183478,416.91565693673,0.72129735809283,0.0,0.876525,0.037215,0.05265,26,1,15,3703,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2590,'26RG116',3075.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.512192937521725,-0.512192936496806,-1.60570291183478,417.064563911128,0.721370272527305,0.0,0.876525,0.037215,0.05265,26,1,16,3704,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2591,'26RG117',3076.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.507744711133555,-0.507744710108636,-1.60570291183478,417.213843836325,0.721443345671493,0.0,0.876525,0.037215,0.05265,26,1,17,3705,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2592,'26RG118',3077.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.503615571490322,-0.503615570465403,-1.60570291183478,417.363467473669,0.721516562837526,0.0,0.876525,0.037215,0.05265,26,1,18,3706,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2593,'26RG119',3078.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.499806041644959,-0.49980604062004,-1.60570291183478,417.513406124991,0.721589909635624,0.0,0.876525,0.037215,0.05265,26,1,19,3707,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2594,'26RG120',3079.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.496316582156546,-0.496316581131627,-1.60570291183478,417.663631595637,0.721663371955791,0.0,0.876525,0.037215,0.05265,26,1,20,3708,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2595,'26RG121',3080.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.493147592326082,-0.493147591301163,-1.60570291183478,417.814116156511,0.72173693594903,0.0,0.876525,0.037215,0.05265,26,1,21,3709,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2596,'26RG122',3081.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.490299411348424,-0.490299410323505,-1.60570291183478,417.964832505204,0.721810588008113,0.0,0.876525,0.037215,0.05265,26,1,22,3710,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2597,'26RG123',3082.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.487772319378309,-0.48777231835339,-1.60570291183478,418.115753726327,0.721884314747989,0.0,0.876525,0.037215,0.05265,26,1,23,3711,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2598,'26RG124',3083.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.485566538509197,-0.485566537484278,-1.60570291183478,418.266853251136,0.721958102985845,0.0,0.876525,0.037215,0.05265,26,1,24,3712,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2599,'26RG125',3084.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.483682233663828,-0.483682232638909,-1.60570291183478,418.418104816542,0.722031939720894,0.0,0.876525,0.037215,0.05265,26,1,25,3713,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2600,'26RG126',3085.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.482119513395226,-0.482119512370307,-1.60570291183478,418.569482423602,0.722105812113921,0.0,0.876525,0.037215,0.05265,26,1,26,3714,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2601,'26RG127',3086.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.480878430597272,-0.480878429572353,-1.60570291183478,418.720960295587,0.722179707466651,0.0,0.876525,0.037215,0.05265,26,1,27,3715,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2602,'26RG128',3087.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.479958983124554,-0.479958982099635,-1.60570291183478,418.872512835707,0.722253613200959,0.0,0.876525,0.037215,0.05265,26,1,28,3716,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2603,'26RG129',3088.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.479361114320867,-0.479361113295948,-1.60570291183478,419.024114584589,0.722327516837999,0.0,0.876525,0.037215,0.05265,26,1,29,3717,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2604,'26RG130',3089.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.47908471345594,-0.479084712431021,-1.60570291183478,419.175740177598,0.72240140597726,0.0,0.876525,0.037215,0.05265,26,1,30,3718,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2605,'26RG131',3090.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.479129616070935,-0.479129615046016,-1.60570291183478,419.327364302078,0.722475268275625,0.0,0.876525,0.037215,0.05265,26,1,31,3719,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2606,'26RG132',3091.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.479495604232021,-0.479495603207102,-1.60570291183478,419.478961654608,0.722549091426452,0.0,0.876525,0.037215,0.05265,26,1,32,3720,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2607,'26RG133',3092.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.480182406693373,-0.480182405668454,-1.60570291183478,419.630506898359,0.722622863138732,0.0,0.876525,0.037215,0.05265,26,1,33,3721,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2608,'26RG134',3093.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.481189698969054,-0.481189697944135,-1.60570291183478,419.781974620627,0.722696571116357,0.0,0.876525,0.037215,0.05265,26,1,34,3722,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2609,'26RG135',3094.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.482517103315331,-0.482517102290412,-1.60570291183478,419.933339290637,0.722770203037548,0.0,0.876525,0.037215,0.05265,26,1,35,3723,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2610,'26RG136',3095.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.484164188623702,-0.484164187598783,-1.60570291183478,420.084575217701,0.722843746534472,0.0,0.876525,0.037215,0.05265,26,1,36,3724,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2611,'26RG137',3096.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.486130470226087,-0.486130469201168,-1.60570291183478,420.235656509811,0.722917189173097,0.0,0.876525,0.037215,0.05265,26,1,37,3725,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2612,'26RG138',3097.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.488415409613062,-0.488415408588143,-1.60570291183478,420.386557032753,0.722990518433328,0.0,0.876525,0.037215,0.05265,26,1,38,3726,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2613,'26RG139',3098.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.491018414066815,-0.491018413041896,-1.60570291183478,420.537250369832,0.723063721689449,0.0,0.876525,0.037215,0.05265,26,1,39,3727,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2614,'26RG140',3099.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.493938836210042,-0.493938835185123,-1.60570291183478,420.687709782287,0.723136786190931,0.0,0.876525,0.037215,0.05265,26,1,40,3728,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2615,'26RG141',3100.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.497175973472835,-0.497175972447916,-1.60570291183478,420.837908170489,0.723209699043635,0.0,0.876525,0.037215,0.05265,26,1,41,3729,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2616,'26RG142',3101.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.500729067479434,-0.500729066454515,-1.60570291183478,420.987818036006,0.723282447191443,0.0,0.876525,0.037215,0.05265,26,1,42,3730,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2617,'26RG143',3102.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.504597303356462,-0.504597302331543,-1.60570291183478,421.137411444624,0.723355017398378,0.0,0.876525,0.037215,0.05265,26,1,43,3731,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2618,'26RG144',3103.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.508779808965407,-0.508779807940488,-1.60570291183478,421.28665999041,0.72342739623123,0.0,0.876525,0.037215,0.05265,26,1,44,3732,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2619,'26RG145',3104.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.51327565406173,-0.513275653036811,-1.60570291183478,421.435534760917,0.723499570042787,0.0,0.876525,0.037215,0.05265,26,1,45,3733,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2620,'26RG146',3105.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.518083849382642,-0.518083848357723,-1.60570291183478,421.584006303607,0.723571524955547,0.0,0.876525,0.037215,0.05265,26,1,46,3734,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2621,'26RG147',3106.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.523203345667014,-0.523203344642095,-1.60570291183478,421.732044593599,0.723643246846236,0.0,0.876525,0.037215,0.05265,26,1,47,3735,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2622,'26RG148',3107.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.528633032609797,-0.528633031584878,-1.60570291183478,421.879619002825,0.723714721330885,0.0,0.876525,0.037215,0.05265,26,1,48,3736,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2623,'26RG149',3108.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.53437173775437,-0.534371736729451,-1.60570291183478,422.026698270695,0.723785933750687,0.0,0.876525,0.037215,0.05265,26,1,49,3737,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2624,'26RG150',3109.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.540418225326057,-0.540418224301138,-1.60570291183478,422.173250476353,0.723856869158603,0.0,0.876525,0.037215,0.05265,26,1,50,3738,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2625,'26RG151',3110.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.546771195009996,-0.546771193985077,-1.60570291183478,422.319243012646,0.723927512306791,0.0,0.876525,0.037215,0.05265,26,1,51,3739,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2626,'26RG152',3111.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.553429280677214,-0.553429279652295,-1.60570291183478,422.464642561868,0.723997847763488,0.0,0.876525,0.037215,0.05265,26,1,52,3740,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2627,'26RG153',3112.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.560391049063085,-0.560391048038166,-1.60570291183478,422.609415073403,0.724067859259142,0.0,0.876525,0.037215,0.05265,26,1,53,3741,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2628,'26RG154',3113.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.567654998401089,-0.56765499737617,-1.60570291183478,422.753525743354,0.724137530962607,0.0,0.876525,0.037215,0.05265,26,1,54,3742,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2629,'26RG155',3114.0,805.0,0.134520181818,1.44909796408059,1.44909796408059,0.0,1.4490979632298,-0.575219557017476,-0.575219555992557,-1.60570291183478,422.896938996253,0.724206846186148,0.0,0.876525,0.037215,0.05265,26,1,55,3743,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2630,'26RG201',3123.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.569682245624104,-0.569682244554616,-1.60570291183478,423.041511136768,0.724276244016304,0.0,0.876734,0.037159,0.052658,26,2,1,3751,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2631,'26RG202',3124.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.56165672568438,-0.561656724614892,-1.60570291183478,423.186823644617,0.724346070590592,0.0,0.876734,0.037159,0.052658,26,2,2,3752,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2632,'26RG203',3125.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.553935729423248,-0.55393572835376,-
1.60570291183478,423.332839691418,0.724416215742061,0.0,0.876734,0.037159,0.052658,26,2,3,3753,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2633,'26RG204',3126.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.5465205363932,-0.546520535323712,-
1.60570291183478,423.479523318377,0.724486661538872,0.0,0.876734,0.037159,0.052658,26,2,4,3754,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2634,'26RG205',3127.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.539412348271622,-0.539412347202134,-
1.60570291183478,423.626839417864,0.724557390490955,0.0,0.876734,0.037159,0.052658,26,2,5,3755,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2635,'26RG206',3128.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.53261229082575,-0.532612289756262,-
1.60570291183478,423.774753712792,0.724628385540032,0.0,0.876734,0.037159,0.052658,26,2,6,3756,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2636,'26RG207',3129.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.52612141583052,-0.526121414761032,-
1.60570291183478,423.923232733927,0.724699630048631,0.0,0.876734,0.037159,0.052658,26,2,7,3757,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2637,'26RG208',3130.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.519940702934985,-0.519940701865497,-
1.60570291183478,424.072243795233,0.72477110778811,0.0,0.876734,0.037159,0.052658,26,2,8,3758,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2638,'26RG209',3131.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.514071061473221,-0.514071060403733,-
1.60570291183478,424.221754967368,0.724842802925785,0.0,0.876734,0.037159,0.052658,26,2,9,3759,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2639,'26RG210',3132.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.508513332215795,-0.508513331146307,-
1.60570291183478,424.371735049446,0.724914700011201,0.0,0.876734,0.037159,0.052658,26,2,10,3760,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2640,'26RG211',3133.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.503268289058572,-0.503268287989084,-
1.60570291183478,424.522153539172,0.724986783961608,0.0,0.876734,0.037159,0.052658,26,2,11,3761,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2641,'26RG212',3134.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.498336640645118,-0.49833663957563,-
1.60570291183478,424.672980601461,0.725059040046703,0.0,0.876734,0.037159,0.052658,26,2,12,3762,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2642,'26RG213',3135.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.493719031920098,-0.49371903085061,-
1.60570291183478,424.824187035643,0.725131453872684,0.0,0.876734,0.037159,0.052658,26,2,13,3763,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2643,'26RG214',3136.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.489416045610494,-0.489416044541006,-
1.60570291183478,424.975744241364,0.725204011365679,0.0,0.876734,0.037159,0.052658,26,2,14,3764,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2644,'26RG215',3137.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.48542820363247,-0.485428202562982,-
1.60570291183478,425.127624183284,0.7252766987546,0.0,0.876734,0.037159,0.052658,26,2,15,3765,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2645,'26RG216',3138.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.481755968421137,-0.481755967351649,-
1.60570291183478,425.279799354668,0.72534950255347,0.0,0.876734,0.037159,0.052658,26,2,16,3766,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2646,'26RG217',3139.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.478399744181563,-0.478399743112075,-
1.60570291183478,425.432242739974,0.725422409543279,0.0,0.876734,0.037159,0.052658,26,2,17,3767,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2647,'26RG218',3140.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.475359878058807,-0.475359876989319,-
1.60570291183478,425.584927776536,0.725495406753412,0.0,0.876734,0.037159,0.052658,26,2,18,3768,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2648,'26RG219',3141.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.472636661225554,-0.472636660156066,-
1.60570291183478,425.737828315423,0.725568481442704,0.0,0.876734,0.037159,0.052658,26,2,19,3769,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2649,'26RG220',3142.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.470230329885706,-0.470230328816218,-
1.60570291183478,425.890918581583,0.725641621080164,0.0,0.876734,0.037159,0.052658,26,2,20,3770,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2650,'26RG221',3143.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.468141066192932,-0.468141065123444,-
1.60570291183478,426.044173133356,0.725714813325409,0.0,0.876734,0.037159,0.052658,26,2,21,3771,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2651,'26RG222',3144.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.4663689990828,-0.466368998013312,-
1.60570291183478,426.197566821434,0.725788046008864,0.0,0.876734,0.037159,0.052658,26,2,22,3772,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2652,'26RG223',3145.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.464914205018065,-0.464914203948577,-
1.60570291183478,426.351074747372,0.725861307111765,0.0,0.876734,0.037159,0.052658,26,2,23,3773,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2653,'26RG224',3146.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.463776708645977,-0.463776707576489,-
1.60570291183478,426.504672221731,0.725934584745996,0.0,0.876734,0.037159,0.052658,26,2,24,3774,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2654,'26RG225',3147.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.46295648336751,-0.462956482298022,-
1.60570291183478,426.65833472192,0.726007867133832,0.0,0.876734,0.037159,0.052658,26,2,25,3775,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2655,'26RG226',3148.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.462453451818004,-0.462453450748516,-
1.60570291183478,426.81203784985,0.726081142587591,0.0,0.876734,0.037159,0.052658,26,2,26,3776,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2656,'26RG227',3149.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.462267486259354,-0.462267485189866,-
1.60570291183478,426.965757289452,0.72615439948926,0.0,0.876734,0.037159,0.052658,26,2,27,3777,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2657,'26RG228',3150.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.462398408883101,-0.462398407813613,-
1.60570291183478,427.119468764161,0.726227626270133,0.0,0.876734,0.037159,0.052658,26,2,28,3778,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2658,'26RG229',3151.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.462845992025809,-0.462845990956321,-
1.60570291183478,427.273147994439,0.726300811390479,0.0,0.876734,0.037159,0.052658,26,2,29,3779,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2659,'26RG230',3152.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.463609958295774,-0.463609957226286,-
1.60570291183478,427.426770655409,0.726373943319309,0.0,0.876734,0.037159,0.052658,26,2,30,3780,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2660,'26RG231',3153.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.464689980612694,-0.464689979543206,-
1.60570291183478,427.580312334693,0.726447010514253,0.0,0.876734,0.037159,0.052658,26,2,31,3781,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2661,'26RG232',3154.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.466085682160465,-0.466085681090977,-
1.60570291183478,427.733748490528,0.726520001401596,0.0,0.876734,0.037159,0.052658,26,2,32,3782,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2662,'26RG233',3155.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.467796636253912,-0.467796635184424,-
1.60570291183478,427.887054410229,0.72659290435651,0.0,0.876734,0.037159,0.052658,26,2,33,3783,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2663,'26RG234',3156.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.46982236612082,-0.469822365051332,-
1.60570291183478,428.040205169103,0.726665707683518,0.0,0.876734,0.037159,0.052658,26,2,34,3784,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2664,'26RG235',3157.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.472162344600154,-0.472162343530666,-
1.60570291183478,428.19317558986,0.726738399597228,0.0,0.876734,0.037159,0.052658,26,2,35,3785,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2665,'26RG236',3158.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.474815993758025,-0.474815992688537,-
1.60570291183478,428.345940202633,0.726810968203366,0.0,0.876734,0.037159,0.052658,26,2,36,3786,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2666,'26RG237',3159.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.47778268442254,-0.477782683353052,-
1.60570291183478,428.498473205671,0.726883401480154,0.0,0.876734,0.037159,0.052658,26,2,37,3787,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2667,'26RG238',3160.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.481061735639554,-0.481061734570066,-
1.60570291183478,428.650748426784,0.726955687260073,0.0,0.876734,0.037159,0.052658,26,2,38,3788,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2668,'26RG239',3161.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.484652414050974,-0.484652412981486,-
1.60570291183478,428.802739285636,0.72702781321203,0.0,0.876734,0.037159,0.052658,26,2,39,3789,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2669,'26RG240',3162.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.488553933197576,-0.488553932128088,-
1.60570291183478,428.954418756958,0.72709976682399,0.0,0.876734,0.037159,0.052658,26,2,40,3790,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2670,'26RG241',3163.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.492765452748263,-0.492765451678775,-
1.60570291183478,429.105759334769,0.727171535386092,0.0,0.876734,0.037159,0.052658,26,2,41,3791,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2671,'26RG242',3164.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.497286077658498,-0.49728607658901,-
1.60570291183478,429.256732997688,0.727243105974293,0.0,0.876734,0.037159,0.052658,26,2,42,3792,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2672,'26RG243',3165.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.502114857259901,-0.502114856190413,-
1.60570291183478,429.407311175433,0.727314465434588,0.0,0.876734,0.037159,0.052658,26,2,43,3793,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2673,'26RG244',3166.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.507250784283709,-0.507250783214221,-
1.60570291183478,429.557464716578,0.727385600367823,0.0,0.876734,0.037159,0.052658,26,2,44,3794,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2674,'26RG245',3167.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.512692793820936,-0.512692792751448,-
1.60570291183478,429.707163857676,0.727456497115162,0.0,0.876734,0.037159,0.052658,26,2,45,3795,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2675,'26RG246',3168.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.518439762222198,-0.51843976115271,-1.60570291183478,429.856378193822,0.727527141744238,0.0,0.876734,0.037159,0.052658,26,2,46,3796,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2676,'26RG247',3169.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.524490505939984,-0.524490504870496,-1.60570291183478,430.005076650755,0.727597520036018,0.0,0.876734,0.037159,0.052658,26,2,47,3797,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2677,'26RG248',3170.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.530843780316982,-0.530843779247494,-1.60570291183478,430.153227458589,0.72766761747244,0.0,0.876734,0.037159,0.052658,26,2,48,3798,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2678,'26RG249',3171.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.5374982783237,-0.537498277254212,-1.60570291183478,430.300798127268,0.727737419224852,0.0,0.876734,0.037159,0.052658,26,2,49,3799,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2679,'26RG250',3172.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.544452629248621,-0.544452628179133,-1.60570291183478,430.447755423833,0.727806910143289,0.0,0.876734,0.037159,0.052658,26,2,50,3800,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2680,'26RG251',3173.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.551705397345448,-0.55170539627596,-1.60570291183478,430.594065351605,0.72787607474664,0.0,0.876734,0.037159,0.052658,26,2,51,3801,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2681,'26RG252',3174.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.559255080440263,-0.559255079370775,-1.60570291183478,430.739693131357,0.727944897213736,0.0,0.876734,0.037159,0.052658,26,2,52,3802,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2682,'26RG253',3175.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.567100108503741,-0.567100107434253,-1.60570291183478,430.884603184603,0.728013361375397,0.0,0.876734,0.037159,0.052658,26,2,53,3803,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2683,'26RG254',3176.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.575238842191635,-0.575238841122147,-1.60570291183478,431.028759119065,0.728081450707496,0.0,0.876734,0.037159,0.052658,26,2,54,3804,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2684,'26RG255',3177.0,805.0,0.135215272727,1.44875252125016,1.44875252125016,0.0,1.44875252039957,-0.58366957135883,-0.583669570289342,-1.60570291183478,431.172123716426,0.728149148325052,0.0,0.876734,0.037159,0.052658,26,2,55,3805,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2685,'27RG101',3187.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.596204732983314,-0.59620473195939,-1.44862327915529,431.314965776897,0.728216509183244,0.0,0.876926,0.037108,0.052667,27,1,1,3821,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2686,'27RG102',3188.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.588083778600655,-0.588083777576731,-1.44862327915529,431.458592038849,0.728283904264255,0.0,0.876926,0.037108,0.052667,27,1,2,3822,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2687,'27RG103',3189.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.580255221208403,-0.58025522018448,-1.44862327915529,431.602965391496,0.728351632022291,0.0,0.876926,0.037108,0.052667,27,1,3,3823,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2688,'27RG104',3190.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.572720399956477,-0.572720398932553,-1.44862327915529,431.748049540166,0.728419674781223,0.0,0.876926,0.037108,0.052667,27,1,4,3824,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2689,'27RG105',3191.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.565480577557729,-0.565480576533805,-1.44862327915529,431.89380899232,0.728488015271704,0.0,0.876926,0.037108,0.052667,27,1,5,3825,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2690,'27RG106',3192.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.558536942092438,-0.558536941068514,-1.44862327915529,432.040209041422,0.72855663662362,0.0,0.876926,0.037108,0.052667,27,1,6,3826,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2691,'27RG107',3193.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.551890608776744,-0.551890607752821,-1.44862327915529,432.18715748764,0.728625522357549,0.0,0.876926,0.037108,0.052667,27,1,7,3827,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2692,'27RG108',3194.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.545542621690919,-0.545542620666996,-1.44862327915529,432.334795923339,0.728694656375273,0.0,0.876926,0.037108,0.052667,27,1,8,3828,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2693,'27RG109',3195.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.539493955463271,-0.539493954439347,-1.44862327915529,432.482917099873,0.728764022949404,0.0,0.876926,0.037108,0.052667,27,1,9,3829,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2694,'27RG110',3196.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.533745516906229,-0.533745515882305,-1.44862327915529,432.631547515123,0.728833606712168,0.0,0.876926,0.037108,0.052667,27,1,10,3830,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2695,'27RG111',3197.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.528298146600932,-0.528298145577008,-1.44862327915529,432.780656082528,0.728903392643407,0.0,0.876926,0.037108,0.052667,27,1,11,3831,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2696,'27RG112',3198.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.523152620427119,-0.523152619403195,-1.44862327915529,432.930212365334,0.728973366057842,0.0,0.876926,0.037108,0.052667,27,1,12,3832,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2697,'27RG113',3199.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.518309651035253,-0.518309650011329,-1.44862327915529,433.080186548264,0.729043512591653,0.0,0.876926,0.037108,0.052667,27,1,13,3833,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2698,'27RG114',3200.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.513769889258035,-0.513769888234112,-1.44862327915529,433.230549407867,0.729113818188424,0.0,0.876926,0.037108,0.052667,27,1,14,3834,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2699,'27RG115',3201.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.509533925458911,-0.509533924434987,-1.44862327915529,433.381272281604,0.729184269084503,0.0,0.876926,0.037108,0.052667,27,1,15,3835,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2700,'27RG116',3202.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.505602290814784,-0.505602289790861,-1.44862327915529,433.532327035792,0.729254851793815,0.0,0.876926,0.037108,0.052667,27,1,16,3836,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2701,'27RG117',3203.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.501975458531276,-0.501975457507353,-1.44862327915529,433.683686032495,0.729325553092192,0.0,0.876926,0.037108,0.052667,27,1,17,3837,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2702,'27RG118',3204.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.498653844988077,-0.498653843964153,-1.44862327915529,433.835322095436,0.729396360001247,0.0,0.876926,0.037108,0.052667,27,1,18,3838,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2703,'27RG119',3205.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.495637810812866,-0.495637809788942,-1.44862327915529,433.987208475041,0.729467259771853,0.0,0.876926,0.037108,0.052667,27,1,19,3839,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2704,'27RG120',3206.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.49292766188234,-0.492927660858417,-1.44862327915529,434.139318812692,0.729538239867253,0.0,0.876926,0.037108,0.052667,27,1,20,3840,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2705,'27RG121',3207.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.490523650248591,-0.490523649224667,-1.44862327915529,434.291627104275,0.729609287945863,0.0,0.876926,0.037108,0.052667,27,1,21,3841,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2706,'27RG122',3208.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.488425974990072,-0.488425973966148,-1.44862327915529,434.444107663109,0.729680391843791,0.0,0.876926,0.037108,0.052667,27,1,22,3842,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2707,'27RG123',3209.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.486634782985618,-0.486634781961694,-1.44862327915529,434.59673508234,0.72975153955713,0.0,0.876926,0.037108,0.052667,27,1,23,3843,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2708,'27RG124',3210.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.485150016961138,-0.485150168587456,-1.44862327915529,434.749484196881,0.729822719224043,0.0,0.876926,0.037108,0.052667,27,1,24,3844,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2709,'27RG125',3211.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.48397217935907,-0.483972178335147,-1.44862327915529,434.902330044977,0.729893919106707,0.0,0.876926,0.037108,0.052667,27,1,25,3845,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2710,'27RG126',3212.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.483100806376065,-0.483100805352141,-1.44862327915529,435.055247829478,0.729965127573126,0.0,0.876926,0.037108,0.052667,27,1,26,3846,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2711,'27RG127',3213.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.482535994925967,-0.482535993902044,-1.44862327915529,435.208212878892,0.730036333078873,0.0,0.876926,0.037108,0.052667,27,1,27,3847,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2712,'27RG128',3214.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.482277639770466,-0.482277638746542,-1.44862327915529,435.361200608301,0.730107524148779,0.0,0.876926,0.037108,0.052667,27,1,28,3848,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2713,'27RG129',3215.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.482325586471417,-0.482325585447494,-1.44862327915529,435.514186480215,0.730178689358621,0.0,0.876926,0.037108,0.052667,27,1,29,3849,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2714,'27RG130',3216.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.482679631614282,-0.482679630590358,-1.44862327915529,435.667145965437,0.730249817316835,0.0,0.876926,0.037108,0.052667,27,1,30,3850,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2715,'27RG131',3217.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.483339522952548,-0.483339521928624,-1.44862327915529,435.820054504017,0.730320896646294,0.0,0.876926,0.037108,0.052667,27,1,31,3851,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2716,'27RG132',3218.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.484304959473852,-0.484304958449929,-1.44862327915529,435.972887466368,0.730391915966176,0.0,0.876926,0.037108,0.052667,27,1,32,3852,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2717,'27RG133',3219.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.485575591388012,-0.485575590364089,-1.44862327915529,436.125620114626,0.730462863873976,0.0,0.876926,0.037108,0.052667,27,1,33,3853,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2718,'27RG134',3220.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.487151020038461,-0.487151019014537,-1.44862327915529,436.278227564312,0.730533728927677,0.0,0.876926,0.037108,0.052667,27,1,34,3854,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2719,'27RG135',3221.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.489030797737087,-0.489030796713163,-1.44862327915529,436.430684746392,0.730604499628118,0.0,0.876926,0.037108,0.052667,27,1,35,3855,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2720,'27RG136',3222.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.491214427523906,-0.491214426499983,-1.44862327915529,436.582966369793,0.730675164401605,0.0,0.876926,0.037108,0.052667,27,1,36,3856,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2721,'27RG137',3223.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.493701362853031,-0.493701361829107,-1.44862327915529,436.735046884458,0.730745711582782,0.0,0.876926,0.037108,0.052667,27,1,37,3857,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2722,'27RG138',3224.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.496491007205498,-0.496491006181575,-1.44862327915529,436.886900445016,0.73081612939781,0.0,0.876926,0.037108,0.052667,27,1,38,3858,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2723,'27RG139',3225.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.499582713630985,-0.499582712607062,-1.44862327915529,437.038500875134,0.730886405947875,0.0,0.876926,0.037108,0.052667,27,1,39,3859,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2724,'27RG140',3226.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.502975784219948,-0.502975783196025,-1.44862327915529,437.189821632647,0.730956529193071,0.0,0.876926,0.037108,0.052667,27,1,40,3860,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2725,'27RG141',3227.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.506669469507457,-0.506669468483533,-1.44862327915529,437.340835775521,0.731026486936681,0.0,0.876926,0.037108,0.052667,27,1,41,3861,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2726,'27RG142',3228.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.510662967811278,-0.510662966787354,-1.44862327915529,437.49151592874,0.731096266809902,0.0,0.876926,0.037108,0.052667,27,1,42,3862,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2727,'27RG143',3229.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.514955424505614,-0.514955423481691,-1.44862327915529,437.641834252199,0.731165856257035,0.0,0.876926,0.037108,0.052667,27,1,43,3863,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2728,'27RG144',3230.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.51954593123306,-0.519545930209137,-1.44862327915529,437.791762409667,0.731235242521184,0.0,0.876926,0.037108,0.052667,27,1,44,3864,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2729,'27RG145',3231.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.52443352505655,-0.524433524032627,-1.44862327915529,437.941271538923,0.731304412630501,0.0,0.876926,0.037108,0.052667,27,1,45,3865,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2730,'27RG146',3232.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.529617187554841,-0.529617186530917,-1.44862327915529,438.090332223125,0.731373353384997,0.0,0.876926,0.037108,0.052667,27,1,46,3866,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2731,'27RG147',3233.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.535095843862251,-0.535095842838327,-1.44862327915529,438.238914463506,0.73144205134397,0.0,0.876926,0.037108,0.052667,27,1,47,3867,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2732,'27RG148',3234.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.540868361658105,-0.540868360634182,-1.44862327915529,438.386987653482,0.731510492814085,0.0,0.876926,0.037108,0.052667,27,1,48,3868,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2733,'27RG149',3235.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.546933550105236,-0.546933549081313,-1.44862327915529,438.534520554244,0.73157866383812,0.0,0.876926,0.037108,0.052667,27,1,49,3869,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2734,'27RG150',3236.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.553290158744211,-0.553290157720287,-1.44862327915529,438.681481271935,0.731646550184446,0.0,0.876926,0.037108,0.052667,27,1,50,3870,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2735,'27RG151',3237.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.559936876343555,-0.559936875319632,-1.44862327915529,438.827837236473,0.731714137337252,0.0,0.876926,0.037108,0.052667,27,1,51,3871,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2736,'27RG152',3238.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.566872329711336,-0.566872328687413,-1.44862327915529,438.973555182135,0.731781410487557,0.0,0.876926,0.037108,0.052667,27,1,52,3872,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2737,'27RG153',3239.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.574095082470009,-0.574095081446085,-1.44862327915529,439.11860112996,0.731848354525052,0.0,0.876926,0.037108,0.052667,27,1,53,3873,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2738,'27RG154',3240.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.581603633798927,-0.581603632775003,-1.44862327915529,439.26294037207,0.731914954030796,0.0,0.876926,0.037108,0.052667,27,1,54,3874,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2739,'27RG155',3241.0,805.0,0.135954727273,1.44843532175547,1.44843532175547,0.0,1.44843532090507,-0.589396417149003,-0.58939641612508,-1.44862327915529,439.406537457989,0.731981193270812,0.0,0.876926,0.037108,0.052667,27,1,55,3875,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2740,'27RG201',3250.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.589864314566124,-0.589864313544641,-1.44862327915529,439.550730385347,0.732047372132371,0.0,0.877112,0.037058,0.052675,27,2,1,3883,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2741,'27RG202',3251.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.582133476558777,-0.582133475537294,-1.44862327915529,439.695666891167,0.732113832117782,0.0,0.877112,0.037058,0.052675,27,2,2,3884,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2742,'27RG203',3252.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.574689378098906,-0.574689377077423,-1.44862327915529,439.841311299952,0.732180598611806,0.0,0.877112,0.037058,0.052675,27,2,3,3885,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2743,'27RG204',3253.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.567533242902904,-0.567533241881421,-1.44862327915529,439.987628711604,0.732247655017141,0.0,0.877112,0.037058,0.052675,27,2,4,3886,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2744,'27RG205',3254.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.560666223324705,-0.560666222303222,-1.44862327915529,440.134584986122,0.732314985114018,0.0,0.877112,0.037058,0.052675,27,2,5,3887,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2745,'27RG206',3255.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.554089402019311,-0.554089400997828,-1.44862327915529,440.282146726342,0.732382573052271,0.0,0.877112,0.037058,0.052675,27,2,6,3888,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2746,'27RG207',3256.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.547803793569162,-0.547803792547679,-1.44862327915529,440.430281258836,0.732450403342532,0.0,0.877112,0.037058,0.052675,27,2,7,3889,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2747,'27RG208',3257.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.54181034606972,-0.541810345048237,-1.44862327915529,440.578956613061,0.732518460846604,0.0,0.877112,0.037058,0.052675,27,2,8,3890,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2748,'27RG209',3258.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.536109942670794,-0.536109941649311,-1.44862327915529,440.728141498845,0.732586730767045,0.0,0.877112,0.037058,0.052675,27,2,9,3891,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2749,'27RG210',3259.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.530703403070259,-0.530703402048776,-1.44862327915529,440.877805282325,0.732655198636033,0.0,0.877112,0.037058,0.052675,27,2,10,3892,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2750,'27RG211',3260.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.525591484957377,-0.525591483935894,-1.44862327915529,441.027917960405,0.732723850303532,0.0,0.877112,0.037058,0.052675,27,2,11,3893,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2751,'27RG212',3261.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.520774885402726,-0.520774884381243,-1.44862327915529,441.178450133847,0.732792671924828,0.0,0.877112,0.037058,0.052675,27,2,12,3894,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2752,'27RG213',3262.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.516254242192008,-0.516254241170525,-1.44862327915529,441.329372979086,0.732861649947469,0.0,0.877112,0.037058,0.052675,27,2,13,3895,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2753,'27RG214',3263.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.512030135101692,-0.512030134080209,-1.44862327915529,441.480658218838,0.732930771097654,0.0,0.877112,0.037058,0.052675,27,2,14,3896,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2754,'27RG215',3264.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.508103087113898,-0.508103086092415,-1.44862327915529,441.632278091621,0.733000022366116,0.0,0.877112,0.037058,0.052675,27,2,15,3897,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2755,'27RG216',3265.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.504473565568613,-0.50447356454713,-1.44862327915529,441.784205320245,0.733069390993547,0.0,0.877112,0.037058,0.052675,27,2,16,3898,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2756,'27RG217',3266.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.501141983251461,-0.501141982229978,-1.44862327915529,441.936413079389,0.733138864455592,0.0,0.877112,0.037058,0.052675,27,2,17,3899,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2757,'27RG218',3267.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.498108699415379,-0.498108698393896,-1.44862327915529,442.088874962312,0.733208430447475,0.0,0.877112,0.037058,0.052675,27,2,18,3900,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2758,'27RG219',3268.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.495374020734434,-0.495374019712951,-1.44862327915529,442.241564946813,0.733278076868271,0.0,0.877112,0.037058,0.052675,27,2,19,3901,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2759,'27RG220',3269.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.492938202188934,-0.492938201167451,-1.44862327915529,442.394457360509,0.733347791804889,0.0,0.877112,0.037058,0.052675,27,2,20,3902,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2760,'27RG221',3270.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.490801447880176,-0.490801446858693,-1.44862327915529,442.547526845498,0.733417563515786,0.0,0.877112,0.037058,0.052675,27,2,21,3903,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2761,'27RG222',3271.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.48896391177443,-0.488963910752947,-
1.44862327915529,442.70074832251,0.733487380414453,0.0,0.877112,0.037058,0.052675,27,2,22,3904,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2762,'27RG223',3272.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.487425698374583,-0.4874256973531,-
1.44862327915529,442.854096954601,0.733557231052717,0.0,0.877112,0.037058,0.052675,27,2,23,3905,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2763,'27RG224',3273.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.486186863319684,-0.486186862298201,-
1.44862327915529,443.007548110478,0.733627104103889,0.0,0.877112,0.037058,0.052675,27,2,24,3906,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2764,'27RG225',3274.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.485247413911157,-0.485247412889674,-
1.44862327915529,443.161077327528,0.733696988345788,0.0,0.877112,0.037058,0.052675,27,2,25,3907,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2765,'27RG226',3275.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.484607309565529,-0.484607308544046,-
1.44862327915529,443.314660274615,0.733766872643693,0.0,0.877112,0.037058,0.052675,27,2,26,3908,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2766,'27RG227',3276.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.484266462193861,-0.484266461172378,-
1.44862327915529,443.468272714735,0.733836745933232,0.0,0.877112,0.037058,0.052675,27,2,27,3909,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2767,'27RG228',3277.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.484224736507197,-0.484224735485714,-
1.44862327915529,443.621890467586,0.733906597203265,0.0,0.877112,0.037058,0.052675,27,2,28,3910,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2768,'27RG229',3278.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.484481950248454,-0.484481949226971,-
1.44862327915529,443.775489372129,0.733976415478776,0.0,0.877112,0.037058,0.052675,27,2,29,3911,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2769,'27RG230',3279.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.48503787435099,-0.485037873329507,-
1.44862327915529,443.929045249212,0.734046189803819,0.0,0.877112,0.037058,0.052675,27,2,30,3912,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2770,'27RG231',3280.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.485892233024063,-0.48589223200258,-
1.44862327915529,444.082533864332,0.734115909224542,0.0,0.877112,0.037058,0.052675,27,2,31,3913,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2771,'27RG232',3281.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.4870447037658,-0.487044702744317,-
1.44862327915529,444.235930890591,0.734185562772323,0.0,0.877112,0.037058,0.052675,27,2,32,3914,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2772,'27RG233',3282.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.488494917304354,-0.488494916282871,-
1.44862327915529,444.389211871933,0.734255139447053,0.0,0.877112,0.037058,0.052675,27,2,33,3915,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2773,'27RG234',3283.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.490242457467541,-0.490242456446058,-
1.44862327915529,444.542352186722,0.73432462820059,0.0,0.877112,0.037058,0.052675,27,2,34,3916,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2774,'27RG235',3284.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.492286860982748,-0.492286859961265,-
1.44862327915529,444.695327011732,0.734394017920422,0.0,0.877112,0.037058,0.052675,27,2,35,3917,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2775,'27RG236',3285.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.494627617207012,-0.494627616185529,-
1.44862327915529,444.848111286622,0.734463297413564,0.0,0.877112,0.037058,0.052675,27,2,36,3918,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2776,'27RG237',3286.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.497264167789513,-0.49726416676803,-
1.44862327915529,445.000679678966,0.734532455390731,0.0,0.877112,0.037058,0.052675,27,2,37,3919,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2777,'27RG238',3287.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.500195906266849,-0.500195905245366,-
1.44862327915529,445.153006549911,0.734601480450797,0.0,0.877112,0.037058,0.052675,27,2,38,3920,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2778,'27RG239',3288.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.503422177593169,-0.503422176571686,-
1.44862327915529,445.305065920529,0.734670361065598,0.0,0.877112,0.037058,0.052675,27,2,39,3921,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2779,'27RG240',3289.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.506942277606409,-0.506942276584926,-
1.44862327915529,445.456831438944,0.734739085565088,0.0,0.877112,0.037058,0.052675,27,2,40,3922,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2780,'27RG241',3290.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.510755452432096,-0.510755451410613,-
1.44862327915529,445.608276348297,0.734807642122888,0.0,0.877112,0.037058,0.052675,27,2,41,3923,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2781,'27RG242',3291.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.514860897827173,-0.51486089680569,-
1.44862327915529,445.759373455633,0.734876018742264,0.0,0.877112,0.037058,0.052675,27,2,42,3924,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2782,'27RG243',3292.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.519257758464906,-0.519257757443423,-
1.44862327915529,445.910095101775,0.734944203242553,0.0,0.877112,0.037058,0.052675,27,2,43,3925,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2783,'27RG244',3293.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.523945127163724,-0.523945126142241,-
1.44862327915529,446.060413132273,0.735012183246083,0.0,0.877112,0.037058,0.052675,27,2,44,3926,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2784,'27RG245',3294.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.528922044061733,-0.52892204304025,-
1.44862327915529,446.210298869481,0.735079946165611,0.0,0.877112,0.037058,0.052675,27,2,45,3927,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2785,'27RG246',3295.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.534187495739114,-0.534187494717631,-
1.44862327915529,446.35972308587,0.735147479192306,0.0,0.877112,0.037058,0.052675,27,2,46,3928,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2786,'27RG247',3296.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.539740414291632,-0.539740413270149,-
1.44862327915529,446.508655978629,0.735214769284322,0.0,0.877112,0.037058,0.052675,27,2,47,3929,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2787,'27RG248',3297.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.545579676356734,-0.545579675335251,-
1.44862327915529,446.657067145637,0.735281803155988,0.0,0.877112,0.037058,0.052675,27,2,48,3930,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2788,'27RG249',3298.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.551704102095659,-0.551704101074176,-
1.44862327915529,446.8049255629,0.735348567267637,0.0,0.877112,0.037058,0.052675,27,2,49,3931,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2789,'27RG250',3299.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.558112454134498,-0.558112453113015,-
1.44862327915529,446.952199563512,0.735415047816127,0.0,0.877112,0.037058,0.052675,27,2,50,3932,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2790,'27RG251',3300.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.564803436466949,-0.564803435445466,-
1.44862327915529,447.098856818227,0.73548123072607,0.0,0.877112,0.037058,0.052675,27,2,51,3933,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2791,'27RG252',3301.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.571775693321367,-0.571775692299884,-
1.44862327915529,447.244864317729,0.735547101641803,0.0,0.877112,0.037058,0.052675,27,2,52,3934,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2792,'27RG253',3302.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.579027807996443,-0.57902780697496,-
1.44862327915529,447.390188356666,0.735612645920145,0.0,0.877112,0.037058,0.052675,27,2,53,3935,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2793,'27RG254',3303.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.586558301668287,-0.586558300646804,-
1.44862327915529,447.534794519537,0.735677848623962,0.0,0.877112,0.037058,0.052675,27,2,54,3936,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2794,'27RG255',3304.0,805.0,0.136652909091,1.44812816717333,1.44812816717333,0.0,1.44812816632311,-0.594365632172046,-0.594365631150563,-
1.44862327915529,447.678647668507,0.73574269451657,0.0,0.877112,0.037058,0.052675,27,2,55,3937,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2795,'28RG101',3314.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.606774361638832,-0.606774360633916,-
1.32645023151569,447.821928179221,0.73580721664023,0.0,0.877292,0.03701,0.052684,28,1,1,3951,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2796,'28RG102',3315.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.598835334794111,-0.598835333789195,-
1.32645023151569,447.96599540962,0.735871761154802,0.0,0.877292,0.03701,0.052684,28,1,2,3952,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2797,'28RG103',3316.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.591173431469708,-0.591173430464792,-
1.32645023151569,448.11081337244,0.735936625097595,0.0,0.877292,0.03701,0.052684,28,1,3953,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2798,'28RG104',3317.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.583789928657896,-0.58378992765298,-
1.32645023151569,448.256346832112,0.736001792086987,0.0,0.877292,0.03701,0.052684,28,1,4,3954,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2799,'28RG105',3318.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.576686033218254,-0.576686032213338,-
1.32645023151569,448.402561293017,0.73606724610006,0.0,0.877292,0.03701,0.052684,28,1,5,3955,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2800,'28RG106',3319.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.56986288345326,-0.569862882448344,-
1.32645023151569,448.549422985777,0.736132971466505,0.0,0.877292,0.03701,0.052684,28,1,6,3956,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2801,'28RG107',3320.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.563321550654939,-0.563321549650023,-
1.32645023151569,448.696898851714,0.736198952861654,0.0,0.877292,0.03701,0.052684,28,1,7,3957,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2802,'28RG108',3321.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.557063040618984,-0.557063039614068,-
1.32645023151569,448.844956525528,0.736265175298702,0.0,0.877292,0.03701,0.052684,28,1,8,3958,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2803,'28RG109',3322.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.551088295122759,-0.551088294117843,-
1.32645023151569,448.993564316311,0.73633162412015,0.0,0.877292,0.03701,0.052684,28,1,9,3959,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2804,'28RG110',3323.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.545398193364305,-0.545398192359389,-1.32645023151569,449.142691186967,0.736398284988523,0.0,0.877292,0.03701,0.052684,28,1,10,3960,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2805,'28RG111',3324.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.539993553358903,-0.539993552353987,-1.32645023151569,449.292306732141,0.736465143876398,0.0,0.877292,0.03701,0.052684,28,1,11,3961,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2806,'28RG112',3325.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.534875133290796,-0.53487513228588,-1.32645023151569,449.442381154729,0.736532187055784,0.0,0.877292,0.03701,0.052684,28,1,12,3962,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2807,'28RG113',3326.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.530043632816976,-0.53004363181206,-1.32645023151569,449.592885241069,0.736599401086903,0.0,0.877292,0.03701,0.052684,28,1,13,3963,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2808,'28RG114',3327.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.525499694320998,-0.525499693316082,-1.32645023151569,449.743790334895,0.736666772806406,0.0,0.877292,0.03701,0.052684,28,1,14,3964,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2809,'28RG115',3328.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.521243904114136,-0.52124390310922,-1.32645023151569,449.895068310123,0.736734289315072,0.0,0.877292,0.03701,0.052684,28,1,15,3965,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2810,'28RG116',3329.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.51727679358214,-0.517276792577224,-1.32645023151569,450.046691542582,0.736801937965021,0.0,0.877292,0.03701,0.052684,28,1,16,3966,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2811,'28RG117',3330.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.513598840275342,-0.513598839270426,-1.32645023151569,450.198632880742,0.736869706346484,0.0,0.877292,0.03701,0.052684,28,1,17,3967,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2812,'28RG118',3331.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.510210468940584,-0.510210467935668,-1.32645023151569,450.350865615531,0.736937582274172,0.0,0.877292,0.03701,0.052684,28,1,18,3968,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2813,'28RG119',3332.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.507112052493205,-0.507112051488289,-1.32645023151569,450.503363449332,0.737005553773279,0.0,0.877292,0.03701,0.052684,28,1,19,3969,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2814,'28RG120',3333.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.504303912927781,-0.504303911922865,-1.32645023151569,450.656100464206,0.73707360906515,0.0,0.877292,0.03701,0.052684,28,1,20,3970,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2815,'28RG121',3334.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.501786322166274,-0.501786321161358,-1.32645023151569,450.809051089458,0.737141736552656,0.0,0.877292,0.03701,0.052684,28,1,21,3971,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2816,'28RG122',3335.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.499559502842415,-0.499559501837499,-1.32645023151569,450.962190068583,0.73720992480531 9,0.0,0.877292,0.03701,0.052684,28,1,22,3972,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2817,'28RG123',3336.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.497623629021439,-0.497623628016523,-1.32645023151569,451.115492425692,0.737278162544198,0.0,0.877292,0.03701,0.052684,28,1,23,3973,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2818,'28RG124',3337.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.495978826854325,-0.495978825849409,-1.32645023151569,451.268933431473,0.737346438626594,0.0,0.877292,0.03701,0.052684,28,1,24,3974,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2819,'28RG125',3338.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.4946251751659,-0.494625174160984,-1.32645023151569,451.422488568774,0.737414742030598,0.0,0.877292,0.03701,0.052684,28,1,25,3975,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2820,'28RG126',3339.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.493562705976258,-0.493562704971342,-1.32645023151569,451.576133497864,0.737483061839508,0.0,0.877292,0.03701,0.052684,28,1,26,3976,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2821,'28RG127',3340.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.49279140495475,-0.492791403949834,-1.32645023151569,451.729844021451,0.737551387226155,0.0,0.877292,0.03701,0.052684,28,1,27,3977,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2822,'28RG128',3341.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.492311211807105,-0.492311210802189,-1.32645023151569,451.88359604952,0.73761970743717,0.0,0.877292,0.03701,0.052684,28,1,28,3978,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2823,'28RG129',3342.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.492122020594613,-0.492122019589697,-1.32645023151569,452.037365564062,0.737688011777214,0.0,0.877292,0.03701,0.052684,28,1,29,3979,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2824,'28RG130',3343.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.492223679986025,-0.492223678981109,-1.32645023151569,452.191128583761,0.737756289593213,0.0,0.877292,0.03701,0.052684,28,1,30,3980,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2825,'28RG131',3344.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.492615993442093,-0.492615992437177,-1.32645023151569,452.344861128705,0.73782453025 8613,0.0,0.877292,0.03701,0.052684,28,1,31,3981,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2826,'28RG132',3345.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.493298719332755,-0.493298718327839,-1.32645023151569,452.498539185182,0.737892723157706,0.0,0.877292,0.03701,0.052684,28,1,32,3982,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2827,'28RG133',3346.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.494271570987954,-0.494271569983038,-1.32645023151569,452.652138670642,0.737960857670029,0.0,0.877292,0.03701,0.052684,28,1,33,3983,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2828,'28RG134',3347.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.495534216681775,-0.495534215676859,-1.32645023151569,452.805635398873,0.738028923154893,0.0,0.877292,0.03701,0.052684,28,1,34,3984,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2829,'28RG135',3348.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.497086279551417,-0.497086278546501,-1.32645023151569,452.959005045464,0.738096908936043,0.0,0.877292,0.03701,0.052684,28,1,35,3985,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2830,'28RG136',3349.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.498927337450822,-0.498927336445906,-1.32645023151569,453.11222311363,0.738164804286505,0.0,0.877292,0.03701,0.052684,28,1,36,3986,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2831,'28RG137',3350.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.501056922740893,-0.501056921735977,-1.32645023151569,453.26526490045,0.738232598413628,0.0,0.877292,0.03701,0.052684,28,1,37,3987,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2832,'28RG138',3351.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.503474522015963,-0.503474521011047,-1.32645023151569,453.418105463587,0.738300280444354,0.0,0.877292,0.03701,0.052684,28,1,38,3988,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2833,'28RG139',3352.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.506179575769102,-0.506179574764186,-1.32645023151569,453.570719588571,0.738367839410755,0.0,0.877292,0.03701,0.052684,28,1,39,3989,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2834,'28RG140',3353.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.509171477996062,-0.509171476991146,-1.32645023151569,453.723081756694,0.73843526423585,0.0,0.877292,0.03701,0.052684,28,1,40,3990,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2835,'28RG141',3354.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.512449575740354,-0.512449574735438,-1.32645023151569,453.875166113587,0.73850254371974,0.0,0.877292,0.03701,0.052684,28,1,41,3991,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2836,'28RG142',3355.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.516013168580016,-0.5160131675751,-1.32645023151569,454.026946438564,0.738569666526087,0.0,0.877292,0.03701,0.052684,28,1,42,3992,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2837,'28RG143',3356.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.519861508058546,-0.51986150705363,-1.32645023151569,454.178396114776,0.738636621168966,0.0,0.877292,0.03701,0.052684,28,1,43,3993,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2838,'28RG144',3357.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.523993797060711,-0.523993796055795,-1.32645023151569,454.329488100263,0.738703396000118,0.0,0.877292,0.03701,0.052684,28,1,44,3994,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2839,'28RG145',3358.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.528409189135479,-0.528409188130563,-1.32645023151569,454.480194899969,0.738769979196633,0.0,0.877292,0.03701,0.052684,28,1,45,3995,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2840,'28RG146',3359.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.533106787768914,-0.533106786763998,-1.32645023151569,454.630488538782,0.738836358749089,0.0,0.877292,0.03701,0.052684,28,1,46,3996,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2841,'28RG147',3360.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.53808564560689,-0.538085644601974,-1.32645023151569,454.780340535684,0.738902522450186,0.0,0.877292,0.03701,0.052684,28,1,47,3997,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2842,'28RG148',3361.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.543344763632347,-0.543344762627431,-1.32645023151569,454.929721879069,0.738968457883889,0.0,0.877292,0.03701,0.052684,28,1,48,3998,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2843,'28RG149',3362.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.54888309029723,-0.548883089292314,-1.32645023151569,455.078603003312,0.739034152415122,0.0,0.877292,0.03701,0.052684,28,1,49,3999,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2844,'28RG150',3363.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.554699520613169,-0.554699519608253,-1.32645023151569,455.226953766652,0.739099593180041,0.0,0.877292,0.03701,0.052684,28,1,50,4000,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2845,'28RG151',3364.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.560792895201792,-0.560792894196876,-1.32645023151569,455.374743430471,0.739164767076901,0.0,0.877292,0.03701,0.052684,28,1,51,4001,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2846,'28RG152',3365.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.567161999309404,-0.567161998304488,-1.32645023151569,455.521940640037,0.739229660757571,0.0,0.877292,0.03701,0.052684,28,1,52,4002,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2847,'28RG153',3366.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.573805561786421,-0.573805560781505,-1.32645023151569,455.66851340678,0.739294260619706,0.0,0.877292,0.03701,0.052684,28,1,53,4003,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2848,'28RG154',3367.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.58072225403616,-0.580722253031244,-1.32645023151569,455.814429092185,0.739358552799608,0.0,0.877292,0.03701,0.052684,28,1,54,4004,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2849,'28RG155',3368.0,805.0,0.137363636364,1.44783104481261,1.44783104481261,0.0,1.44783104396256,-0.587910688935785,-0.587910687930869,-1.32645023151569,455.95965439337,0.739422523165824,0.0,0.877292,0.03701,0.052684,28,1,55,4005,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2850,'28RG201',3377.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.58494253426745,-0.584942533264474,-1.32645023151569,456.105761706578,0.739486510060089,0.0,0.877461,0.036965,0.052694,28,2,1,4013,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2851,'28RG202',3378.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.57793141439303,-0.577931413390054,-1.32645023151569,456.252545504214,0.739550813479105,0.0,0.877461,0.036965,0.052694,28,2,2,4014,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2852,'28RG203',3379.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.571194789457403,-0.571194788454427,-1.32645023151569,456.399972592141,0.739615380646661,0.0,0.877461,0.036965,0.052694,28,2,3,4015,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2853,'28RG204',3380.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.564733696772896,-0.56473369576992,-1.32645023151569,456.548010464365,0.739680196817834,0.0,0.877461,0.036965,0.052694,28,2,4,4016,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2854,'28RG205',3381.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.558549110929113,-0.558549109926137,-1.32645023151569,456.696627286453,0.739745247568075,0.0,0.877461,0.036965,0.052694,28,2,5,4017,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2855,'28RG206',3382.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.552641945187686,-0.55264194418471,-1.32645023151569,456.845791877357,0.739810518785196,0.0,0.877461,0.036965,0.052694,28,2,6,4018,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2856,'28RG207',3383.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.547013052840525,-0.547013051837549,-1.32645023151569,456.995473689731,0.739875996660674,0.0,0.877461,0.036965,0.052694,28,2,7,4019,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2857,'28RG208',3384.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.541663228528711,-0.541663227525735,-1.32645023151569,457.145642788821,0.739941667680314,0.0,0.877461,0.036965,0.052694,28,2,8,4020,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2858,'28RG209',3385.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.536593209519437,-0.536593208516461,-1.32645023151569,457.296269830013,0.740007518614317,0.0,0.877461,0.036965,0.052694,28,2,9,4021,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2859,'28RG210',3386.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.531803676938515,-0.531803675935539,-1.32645023151569,457.447326035115,0.740073536506776,0.0,0.877461,0.036965,0.052694,28,2,10,4022,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2860,'28RG211',3387.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.52729525695615,-0.527295255953174,-1.32645023151569,457.598783167463,0.740139708664659,0.0,0.877461,0.036965,0.052694,28,2,11,4023,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2861,'28RG212',3388.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.523068521923952,-0.523068520920976,-1.32645023151569,457.750613505919,0.740206022646292,0.0,0.877461,0.036965,0.052694,28,2,12,4024,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2862,'28RG213',3389.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.519123991460957,-0.519123990457981,-1.32645023151569,457.902789817844,0.740272466249403,0.0,0.877461,0.036965,0.052694,28,2,13,4025,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2863,'28RG214',3390.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.515462133487296,-0.51546213248432,-1.32645023151569,458.055285331125,0.740339027498747,0.0,0.877461,0.036965,0.052694,28,2,14,4026,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2864,'28RG215',3391.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.51208336520338,-0.512083364200404,-1.32645023151569,458.208073705323,0.740405694633345,0.0,0.877461,0.036965,0.052694,28,2,15,4027,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2865,'28RG216',3392.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.508988054013463,-0.508988053010487,-1.32645023151569,458.361129002035,0.740472456093393,0.0,0.877461,0.036965,0.052694,28,2,16,4028,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2866,'28RG217',3393.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.506176518392023,-0.506176517389047,-1.32645023151569,458.514425654513,0.740539300506844,0.0,0.877461,0.036965,0.052694,28,2,17,4029,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2867,'28RG218',3394.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.503649028691973,-0.503649027688997,-1.32645023151569,458.667938436643,0.740606216675725,0.0,0.877461,0.036965,0.052694,28,2,18,4030,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2868,'28RG219',3395.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.501405807893319,-0.501405806890343,-1.32645023151569,458.821642431332,0.740673193562203,0.0,0.877461,0.036965,0.052694,28,2,19,4031,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2869,'28RG220',3396.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.499447032291732,-0.499447031288756,-1.32645023151569,458.975512998386,0.740740220274438,0.0,0.877461,0.036965,0.052694,28,2,20,4032,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2870,'28RG221',3397.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.497772832125988,-0.497772831123012,-1.32645023151569,459.129525741941,0.740807286052252,0.0,0.877461,0.036965,0.052694,28,2,21,4033,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2871,'28RG222',3398.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.496383292143611,-0.496383291140635,-1.32645023151569,459.283656477515,0.740874380252654,0.0,0.877461,0.036965,0.052694,28,2,22,4034,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2872,'28RG223',3399.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.495278452104428,-0.495278451101452,-1.32645023151569,459.437881198744,0.740941492335236,0.0,0.877461,0.036965,0.052694,28,2,23,4035,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2873,'28RG224',3400.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.494458307221399,-0.494458306218423,-1.32645023151569,459.592176043883,0.741008611847476,0.0,0.877461,0.036965,0.052694,28,2,24,4036,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2874,'28RG225',3401.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.493922808538669,-0.493922807535693,-1.32645023151569,459.74651726211,0.741075728409985,0.0,0.877461,0.036965,0.052694,28,2,25,4037,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2875,'28RG226',3402.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.493671863246539,-0.493671862243563,-1.32645023151569,459.900881179724,0.741142831701711,0.0,0.877461,0.036965,0.052694,28,2,26,4038,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2876,'28RG227',3403.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.493705334933138,-0.493705333930162,-1.32645023151569,460.055244166286,0.741209911445142,0.0,0.877461,0.036965,0.052694,28,2,27,4039,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2877,'28RG228',3404.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.494023043773686,-0.49402304277071,-1.32645023151569,460.20958260076,0.741276957391525,0.0,0.877461,0.036965,0.052694,28,2,28,4040,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2878,'28RG229',3405.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.494624766656399,-0.494624765653423,-1.32645023151569,460.363872837738,0.741343959306136,0.0,0.877461,0.036965,0.052694,28,2,29,4041,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2879,'28RG230',3406.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.495510237246271,-0.495510236243295,-1.32645023151569,460.518091173788,0.741410906953625,0.0,0.877461,0.036965,0.052694,28,2,30,4042,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2880,'28RG231',3407.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.496679145987001,-0.496679144984025,-1.32645023151569,460.672213814003,0.74147779008346,0.0,0.877461,0.036965,0.052694,28,2,31,4043,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2881,'28RG232',3408.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.498131140041002,-0.498131139038026,-1.32645023151569,460.826216838802,0.741544598415499,0.0,0.877461,0.036965,0.052694,28,2,32,4044,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2882,'28RG233',3409.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.499865823169144,-0.499865822166168,-1.32645023151569,460.980076171055,0.741611321625722,0.0,0.877461,0.036965,0.052694,28,2,33,4045,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2883,'28RG234',3410.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.501882755550105,-0.501882754547129,-1.32645023151569,461.133767543586,0.741677949332133,0.0,0.877461,0.036965,0.052694,28,2,34,4046,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2884,'28RG235',3411.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.504181453540666,-0.50418145253769,-1.32645023151569,461.28726646712,0.741744471080882,0.0,0.877461,0.036965,0.052694,28,2,35,4047,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2885,'28RG236',3412.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.506761389378105,-0.506761388375129,-1.32645023151569,461.440548198736,0.741810876332609,0.0,0.877461,0.036965,0.052694,28,2,36,4048,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2886,'28RG237',3413.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.509621990825151,-0.509621989822175,-1.32645023151569,461.593587710887,0.741877154449052,0.0,0.877461,0.036965,0.052694,28,2,37,4049,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2887,'28RG238',3414.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.512762640759326,-0.51276263975635,-1.32645023151569,461.746359661057,0.741943294679939,0.0,0.877461,0.036965,0.052694,28,2,38,4050,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2888,'28RG239',3415.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.516182676707671,-0.516182675704695,-1.32645023151569,461.898838362102,0.742009286150195,0.0,0.877461,0.036965,0.052694,28,2,39,4051,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2889,'28RG240',3416.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.519881390328428,-0.519881389325452,-1.32645023151569,462.050997753369,0.742075117847475,0.0,0.877461,0.036965,0.052694,28,2,40,4052,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2890,'28RG241',3417.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.523858026841011,-0.523858025838035,-1.32645023151569,462.202811372618,0.742140778610079,0.0,0.877461,0.036965,0.052694,28,2,41,4053,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2891,'28RG242',3418.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.528111784406014,-0.528111783403038,-1.32645023151569,462.354252328852,0.74220625711524,0.0,0.877461,0.036965,0.052694,28,2,42,4054,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2892,'28RG243',3419.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.53264181345716,-0.532641812454184,-1.32645023151569,462.505293276092,0.742271541867839,0.0,0.877461,0.036965,0.052694,28,2,43,4055,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2893,'28RG244',3420.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.537447215986779,-0.537447214983803,-1.32645023151569,462.655906388178,0.742336621189564,0.0,0.877461,0.036965,0.052694,28,2,44,4056,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2894,'28RG245',3421.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.54252704478695,-0.542527043783974,-1.32645023151569,462.806063334658,0.742401483208531,0.0,0.877461,0.036965,0.052694,28,2,45,4057,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2895,'28RG246',3422.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.547880302648116,-0.54788030164514,-1.32645023151569,462.955735257835,0.742466115849411,0.0,0.877461,0.036965,0.052694,28,2,46,4058,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2896,'28RG247',3423.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.553505941517982,-0.553505940515006,-1.32645023151569,463.104892751035,0.742530506824077,0.0,0.877461,0.036965,0.052694,28,2,47,4059,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2897,'28RG248',3424.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.559402861621968,-0.559402860618992,-1.32645023151569,463.253505838174,0.742594643622805,0.0,0.877461,0.036965,0.052694,28,2,48,4060,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2898,'28RG249',3425.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.565569910548887,-0.565569909545911,-1.32645023151569,463.40154395468,0.742658513506049,0.0,0.877461,0.036965,0.052694,28,2,49,4061,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2899,'28RG250',3426.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.572005882302966,-0.57200588129999,-1.32645023151569,463.548975929852,0.742722103496824,0.0,0.877461,0.036965,0.052694,28,2,50,4062,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2900,'28RG251',3427.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.578709516326198,-0.578709515323222,-1.32645023151569,463.695769970709,0.742785400373723,0.0,0.877461,0.036965,0.052694,28,2,51,4063,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2901,'28RG252',3428.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.585679496492551,-0.585679495489575,-1.32645023151569,463.841893647419,0.742848390664592,0.0,0.877461,0.036965,0.052694,28,2,52,4064,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2902,'28RG253',3429.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.592914450077912,-0.592914449074936,-1.32645023151569,463.987313880354,0.742911060640885,0.0,0.877461,0.036965,0.052694,28,2,53,4065,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2903,'28RG254',3430.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.60041294670757,-0.600412945704594,-1.32645023151569,464.131996928857,0.742973396312743,0.0,0.877461,0.036965,0.052694,28,2,54,4066,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2904,'28RG255',3431.0,805.0,0.138009818182,1.44755219088455,1.44755219088455,0.0,1.44755219003466,-0.608173497285405,-0.608173496282429,-1.32645023151569,464.275908381775,0.743035383424801,0.0,0.877461,0.036965,0.052694,28,2,55,4067,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2905,'29RG101',3441.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.648889531493829,-0.648889530583801,-1.26536370769589,464.416234073355,0.743096410884228,0.0,0.877629,0.03692,0.052703,29,1,1,4083,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2906,'29RG102',3442.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.641387187647446,-0.641387186737418,-1.26536370769589,464.557355795702,0.743156816173296,0.0,0.877629,0.03692,0.052703,29,1,2,4084,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2907,'29RG103',3443.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.634141634245435,-0.634141633335407,-1.26536370769589,464.699238838866,0.743217532444404,0.0,0.877629,0.03692,0.052703,29,1,3,4085,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2908,'29RG104',3444.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.627154109766416,-0.627154108856388,-1.26536370769589,464.841849113386,0.743278544573882,0.0,0.877629,0.03692,0.052703,29,1,4,4086,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2909,'29RG105',3445.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.620425788500718,-0.62042578759069,-1.26536370769589,464.985153142086,0.743339837723488,0.0,0.877629,0.03692,0.052703,29,1,5,4087,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2910,'29RG106',3446.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.613957781796099,-0.613957780886071,-1.26536370769589,465.129118050216,0.743401397336285,0.0,0.877629,0.03692,0.052703,29,1,6,4088,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2911,'29RG107',3447.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.60775113928391,-0.607751138373882,-1.26536370769589,465.27371155398,0.74343209131805,0.0,0.877629,0.03692,0.052703,29,1,7,4089,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2912,'29RG108',3448.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.601806850082607,-0.601806849172579,-1.26536370769589,465.418901947543,0.74352525910054,0.0,0.877629,0.03692,0.052703,29,1,8,4090,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2913,'29RG109',3449.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.596125843975944,-0.596125843065916,-1.26536370769589,465.564658088588,0.743587533497789,0.0,0.877629,0.03692,0.052703,29,1,9,4091,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2914,'29RG110',3450.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.590708992563006,-0.590708991652978,-1.26536370769589,465.710949382474,0.743650018836883,0.0,0.877629,0.03692,0.052703,29,1,10,4092,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2915,'29RG111',3451.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.58555711037781,-0.585557109467782,-1.26536370769589,465.857745765091,0.743712701881846,0.0,0.877629,0.03692,0.052703,29,1,11,4093,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2916,'29RG112',3452.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.580670955975759,-0.580670955065731,-1.26536370769589,466.005017684466,0.743775569639499,0.0,0.877629,0.03692,0.052703,29,1,12,4094,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2917,'29RG113',3453.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.576051232985069,-0.576051232075041,-1.26536370769589,466.1527360812,0.743838609351055,0.0,0.877629,0.03692,0.052703,29,1,13,4095,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2918,'29RG114',3454.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.571698591120704,-0.571698590210676,-1.26536370769589,466.300872367802,0.743901808483236,0.0,0.877629,0.03692,0.052703,29,1,14,4096,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2919,'29RG115',3455.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.567613627159279,-0.567613626249251,-1.26536370769589,466.449398406989,0.743965154718934,0.0,0.877629,0.03692,0.052703,29,1,15,4097,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2920,'29RG116',3456.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.563796885872787,-0.563796884962759,-1.26536370769589,466.598286489025,0.744028635947466,0.0,0.877629,0.03692,0.052703,29,1,16,4098,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2921,'29RG117',3457.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.560248860919519,-0.560248860009491,-1.26536370769589,466.747509308168,0.744092240254433,0.0,0.877629,0.03692,0.052703,29,1,17,4099,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2922,'29RG118',3458.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.556969995690974,-0.556969994780946,-1.26536370769589,466.89703993828,0.744155955911231,0.0,0.877629,0.03692,0.052703,29,1,18,4100,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2923,'29RG119',3459.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.55396068411277,-0.553960683202742,-1.26536370769589,467.046851807692,0.744219771364236,0.0,0.877629,0.03692,0.052703,29,1,19,4101,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2924,'29RG120',3460.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.551221271398842,-0.551221270488814,-1.26536370769589,467.196918673364,0.744283675223695,0.0,0.877629,0.03692,0.052703,29,1,20,4102,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2925,'29RG121',3461.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.548752054757447,-0.548752053847419,-1.26536370769589,467.347214594417,0.744347656252351,0.0,0.877629,0.03692,0.052703,29,1,21,4103,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2926,'29RG122',3462.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.546553284048056,-0.546553283138028,-1.26536370769589,467.497713905112,0.744411703353832,0.0,0.877629,0.03692,0.052703,29,1,22,4104,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2927,'29RG123',3463.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.544625162388247,-0.544625161478219,-1.26536370769589,467.648391187315,0.744475805560836,0.0,0.877629,0.03692,0.052703,29,1,23,4105,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2928,'29RG124',3464.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.54296784670974,-0.542967845799712,-1.26536370769589,467.799221242535,0.744539952023113,0.0,0.877629,0.03692,0.052703,29,1,24,4106,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2929,'29RG125',3465.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.541581448263149,-0.541581447353121,-1.26536370769589,467.950179063585,0.74460413195419,0.0,0.877629,0.03692,0.052703,29,1,25,4107,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2930,'29RG126',3466.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.540466033070541,-0.540466032160513,-1.26536370769589,468.101239805927,0.744668334825039,0.0,0.877629,0.03692,0.052703,29,1,26,4108,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2931,'29RG127',3467.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.539621622325701,-0.539621621415673,-1.26536370769589,468.252378758771,0.744732549939621,0.0,0.877629,0.03692,0.052703,29,1,27,4109,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2932,'29RG128',3468.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.539048192741643,-0.539048191831615,-1.26536370769589,468.403571315976,0.744796766834631,0.0,0.877629,0.03692,0.052703,29,1,28,4110,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2933,'29RG129',3469.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.538745676845285,-0.538745675935257,-1.26536370769589,468.554792946827,0.744860975060889,0.0,0.877629,0.03692,0.052703,29,1,29,4111,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2934,'29RG130',3470.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.538713963219035,-0.538713962309007,-1.26536370769589,468.706019166731,0.744925164212058,0.0,0.877629,0.03692,0.052703,29,1,30,4112,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2935,'29RG131',3471.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.538952896689228,-0.5389528957792,-1.26536370769589,468.857225507909,0.744989323912145,0.0,0.877629,0.03692,0.052703,29,1,31,4113,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2936,'29RG132',3472.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.539462278462178,-0.53946227755215,-1.26536370769589,469.008387490123,0.745053443803028,0.0,0.877629,0.03692,0.052703,29,1,32,4114,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2937,'29RG133',3473.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.540241866206973,-0.540241865296945,-1.26536370769589,469.159480591521,0.745117513532045,0.0,0.877629,0.03692,0.052703,29,1,33,4115,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2938,'29RG134',3474.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.541291374086424,-0.541291373176396,-1.26536370769589,469.310480219628,0.745181522739649,0.0,0.877629,0.03692,0.052703,29,1,34,4116,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2939,'29RG135',3475.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.542610472736034,-0.542610471826006,-1.26536370769589,469.461361682568,0.745245461047186,0.0,0.877629,0.03692,0.052703,29,1,35,4117,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2940,'29RG136',3476.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.544198789191466,-0.544198788281438,-1.26536370769589,469.612100160562,0.745309318044785,0.0,0.877629,0.03692,0.052703,29,1,36,4118,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2941,'29RG137',3477.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.54605590676545,-0.546055905855422,-1.26536370769589,469.762670677757,0.745373083279407,0.0,0.877629,0.03692,0.052703,29,1,37,4119,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2942,'29RG138',3478.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.548181364874889,-0.548181363964861,-1.26536370769589,469.913048074455,0.745436746243074,0.0,0.877629,0.03692,0.052703,29,1,38,4120,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2943,'29RG139',3479.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.550574658818409,-0.550574657908381,-1.26536370769589,470.063206979788,0.745500296361289,0.0,0.877629,0.03692,0.052703,29,1,39,4121,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2944,'29RG140',3480.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.553235239506205,-0.553235238596177,-1.26536370769589,470.213121784905,0.745563722981687,0.0,0.877629,0.03692,0.052703,29,1,40,4122,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2945,'29RG141',3481.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.556162513142372,-0.556162512232344,-1.26536370769589,470.362766616731,0.74562701536293,0.0,0.877629,0.03692,0.052703,29,1,41,4123,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2946,'29RG142',3482.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.559355840861369,-0.559355839951341,-1.26536370769589,470.512115312342,0.745690162663873,0.0,0.877629,0.03692,0.052703,29,1,42,4124,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2947,'29RG143',3483.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.56281453831959,-0.562814537409562,-1.26536370769589,470.661141394038,0.745753153933025,0.0,0.877629,0.03692,0.052703,29,1,43,4125,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2948,'29RG144',3484.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.566537875243608,-0.56653787433358,-1.26536370769589,470.80981804515,0.74581597809833,0.0,0.877629,0.03692,0.052703,29,1,44,4126,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2949,'29RG145',3485.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.57052507493609,-0.570525074026062,-1.26536370769589,470.958118086651,0.745878623957283,0.0,0.877629,0.03692,0.052703,29,1,45,4127,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2950,'29RG146',3486.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.574775313741466,-0.574775312831438,-1.26536370769589,471.106013954637,0.745941080167417,0.0,0.877629,0.03692,0.052703,29,1,46,4128,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2951,'29RG147',3487.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.57928772047227,-0.579287719562242,-1.26536370769589,471.253477678721,0.746003335237181,0.0,0.877629,0.03692,0.052703,29,1,47,4129,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2952,'29RG148',3488.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.584061375798921,-0.584061374888893,-1.26536370769589,471.400480861413,0.746065377517216,0.0,0.877629,0.03692,0.052703,29,1,48,4130,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2953,'29RG149',3489.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.589095311602851,-0.589095310692823,-1.26536370769589,471.546994658539,0.746127195192086,0.0,0.877629,0.03692,0.052703,29,1,49,4131,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2954,'29RG150',3490.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.59438851029773,-0.594388509387702,-1.26536370769589,471.692989760765,0.74618877627245,0.0,0.877629,0.03692,0.052703,29,1,50,4132,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2955,'29RG151',3491.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.599939904117566,-0.599939903207538,-1.26536370769589,471.838436376279,0.746250108587725,0.0,0.877629,0.03692,0.052703,29,1,51,4133,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2956,'29RG152',3492.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.605748374376429,-0.605748373466401,-1.26536370769589,471.983304214693,0.746311179779256,0.0,0.877629,0.03692,0.052703,29,1,52,4134,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2957,'29RG153',3493.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.611812750700271,-0.611812749790243,-1.26536370769589,472.127562472232,0.746371977294005,0.0,0.877629,0.03692,0.052703,29,1,53,4135,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2958,'29RG154',3494.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.618131810233902,-0.618131809323874,-1.26536370769589,472.271179818255,0.746432488378797,0.0,0.877629,0.03692,0.052703,29,1,54,4136,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2959,'29RG155',3495.0,805.0,0.138704727273,1.44727509342301,1.44727509342301,0.0,1.44727509257329,-0.624704276825458,-0.62470427591543,-1.26536370769589,472.414124383181,0.746492700075142,0.0,0.877629,0.03692,0.052703,29,1,55,4137,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2960,'29RG201',3504.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.607895634324207,-0.607895633327813,-1.26536370769589,472.559366576117,0.746553229797165,0.0,0.877796,0.036875,0.052711,29,2,1,4145,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2961,'29RG202',3505.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.600394840576076,-0.600394839579682,-1.26536370769589,472.70536426416,0.746614376976522,0.0,0.877796,0.036875,0.052711,29,2,2,4146,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2962,'29RG203',3506.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.593152725062602,-0.593152724066208,-1.26536370769589,472.85208367649,0.746675810201122,0.0,0.877796,0.036875,0.052711,29,2,3,4147,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2963,'29RG204',3507.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.586170415955735,-0.586170414959341,-1.26536370769589,472.99949171521,0.746737515093513,0.0,0.877796,0.036875,0.052711,29,2,4,4148,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2964,'29RG205',3508.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.579448980771485,-0.579448979775091,-1.26536370769589,473.147555944424,0.746799477576958,0.0,0.877796,0.036875,0.052711,29,2,5,4149,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2965,'29RG206',3509.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.572989427670439,-0.572989426674045,-1.26536370769589,473.29624457769,0.746861683870192,0.0,0.877796,0.036875,0.052711,29,2,6,4150,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2966,'29RG207',3510.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.566792706733889,-0.566792705737495,-1.26536370769589,473.44552646393,0.746924120481509,0.0,0.877796,0.036875,0.052711,29,2,7,4151,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2967,'29RG208',3511.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.560859711212902,-0.560859710216508,-1.26536370769589,473.595371071864,0.746986774202204,0.0,0.877796,0.036875,0.052711,29,2,8,4152,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2968,'29RG209',3512.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.555191278747753,-0.555191277751359,-1.26536370769589,473.745748473044,0.747049632099423,0.0,0.877796,0.036875,0.052711,29,2,9,4153,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2969,'29RG210',3513.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.549788192555045,-0.549788191558651,-1.26536370769589,473.896629323557,0.747112681508425,0.0,0.877796,0.036875,0.052711,29,2,10,4154,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2970,'29RG211',3514.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.544651182580505,-0.544651181584111,-1.26536370769589,474.047984844475,0.747175910024326,0.0,0.877796,0.036875,0.052711,29,2,11,4155,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2971,'29RG212',3515.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.539780926614885,-0.539780925618491,-1.26536370769589,474.199786801114,0.747239305493321,0.0,0.877796,0.036875,0.052711,29,2,12,4156,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2972,'29RG213',3516.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.535178051371243,-0.535178050374849,-1.26536370769589,474.352007481188,0.747302856003436,0.0,0.877796,0.036875,0.052711,29,2,13,4157,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2973,'29RG214',3517.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.530843133521532,-0.530843132525138,-1.26536370769589,474.504619671907,0.747366549874849,0.0,0.877796,0.036875,0.052711,29,2,14,4158,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2974,'29RG215',3518.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.5267767006907,-0.526776699694306,-1.26536370769589,474.657596636111,0.747430375649781,0.0,0.877796,0.036875,0.052711,29,2,15,4159,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2975,'29RG216',3519.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.522979232406801,-0.522979231410407,-1.26536370769589,474.810912087484,0.747494322082024,0.0,0.877796,0.036875,0.052711,29,2,16,4160,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (2976,'29RG217',3520.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.51945116100546,-0.519451160009066,-1.26536370769589,474.964540164941,0.747555878126107,0.0,0.877796,0.036875,0.052711,29,2,17,4161,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2977,'29RG218',3521.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.516192872487355,-0.516192871490961,-1.26536370769589,475.118455406228,0.74762253292615,0.0,0.877796,0.036875,0.052711,29,2,18,4162,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2978,'29RG219',3522.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.513204707327571,-0.513204706331177,-1.26536370769589,475.272632720821,0.747686775804414,0.0,0.877796,0.036875,0.052711,29,2,19,4163,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2979,'29RG220',3523.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.510486961235504,-0.51048696023911,-1.26536370769589,475.427047362176,0.747751096249604,0.0,0.877796,0.036875,0.052711,29,2,20,4164,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2980,'29RG221',3524.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.508039885864431,-0.508039884868037,-1.26536370769589,475.581674899397,0.747815483904917,0.0,0.877796,0.036875,0.052711,29,2,21,4165,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2981,'29RG222',3525.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.50586368946988,-0.505863688473486,-1.26536370769589,475.736491188381,0.747879928555902,0.0,0.877796,0.036875,0.052711,29,2,22,4166,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2982,'29RG223',3526.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.503958537515853,-0.503958536519459,-1.26536370769589,475.891472342508,0.747944420118115,0.0,0.877796,0.036875,0.052711,29,2,23,4167,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2983,'29RG224',3527.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.502324553228508,-0.502324552232114,-1.26536370769589,476.046594702926,0.748008948624639,0.0,0.877796,0.036875,0.052711,29,2,24,4168,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2984,'29RG225',3528.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.500961818096467,-0.500961817100073,-1.26536370769589,476.2018348085,0.748073504213462,0.0,0.877796,0.036875,0.052711,29,2,25,4169,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2985,'29RG226',3529.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.499870372317378,-0.499870371320984,-1.26536370769589,476.357169365474,0.748138077114753,0.0,0.877796,0.036875,0.052711,29,2,26,4170,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2986,'29RG227',3530.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.499050215190731,-0.499050214194337,-1.26536370769589,476.512575216913,0.748202657638055,0.0,0.877796,0.036875,0.052711,29,2,27,4171,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2987,'29RG228',3531.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.498501305456106,-0.498501304459712,-1.26536370769589,476.668029311974,0.748267236159429,0.0,0.877796,0.036875,0.052711,29,2,28,4172,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2988,'29RG229',3532.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.498223561576989,-0.498223560580595,-1.26536370769589,476.823508675069,0.748331803108557,0.0,0.877796,0.036875,0.052711,29,2,29,4173,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2989,'29RG230',3533.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.498216861970508,-0.498216860974114,-1.26536370769589,476.978990374969,0.748396348955843,0.0,0.877796,0.036875,0.052711,29,2,30,4174,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2990,'29RG231',3534.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.498481045182483,-0.498481044186089,-1.26536370769589,477.13445149391,0.748460864199528,0.0,0.877796,0.036875,0.052711,29,2,31,4175,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2991,'29RG232',3535.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.4990159100083,-0.499015909011906,-1.26536370769589,477.289869096755,0.748525339352836,0.0,0.877796,0.036875,0.052711,29,2,32,4176,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2992,'29RG233',3536.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.499821215559987,-0.499821214563593,-1.26536370769589,477.445220200267,0.74858976493119,0.0,0.877796,0.036875,0.052711,29,2,33,4177,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2993,'29RG234',3537.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.500896681279489,-0.500896680283095,-1.26536370769589,477.600481742539,0.748654131439507,0.0,0.877796,0.036875,0.052711,29,2,34,4178,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2994,'29RG235',3538.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.502241986899104,-0.50224198590271,-1.26536370769589,477.755630552656,0.748718429359593,0.0,0.877796,0.036875,0.052711,29,2,35,4179,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2995,'29RG236',3539.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.503856772348829,-0.503856771352435,-1.26536370769589,477.910643320619,0.748782649137675,0.0,0.877796,0.036875,0.052711,29,2,36,4180,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2996,'29RG237',3540.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.505740637612259,-0.505740636615865,-1.26536370769589,478.065496567603,0.748846781172073,0.0,0.877796,0.036875,0.052711,29,2,37,4181,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2997,'29RG238',3541.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.507893142530765,-0.507893141534371,-1.26536370769589,478.2201666166,0.748910815801054,0.0,0.877796,0.036875,0.052711,29,2,38,4182,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2998,'29RG239',3542.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.510313806557473,-0.510313805561079,-1.26536370769589,478.374629563493,0.748974743290869,0.0,0.877796,0.036875,0.052711,29,2,39,4183,'ccl_gap');
INSERT INTO `rf_gap` VALUES (2999,'29RG240',3543.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.513002108461709,-0.513002107465315,-1.26536370769589,478.528861248631,0.749038553824009,0.0,0.877796,0.036875,0.052711,29,2,40,4184,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3000,'29RG241',3544.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.515957485984781,-0.515957484988387,-1.26536370769589,478.682837228949,0.749102237487707,0.0,0.877796,0.036875,0.052711,29,2,41,4185,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3001,'29RG242',3545.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.519179335448388,-0.519179334451994,-1.26536370769589,478.836532750688,0.749165784262681,0.0,0.877796,0.036875,0.052711,29,2,42,4186,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3002,'29RG243',3546.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.522667011316496,-0.522667010320102,-1.26536370769589,478.989922722788,0.749229184012178,0.0,0.877796,0.036875,0.052711,29,2,43,4187,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3003,'29RG244',3547.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.526419825712484,-0.52641982471609,-1.26536370769589,479.142981690982,0.749292426471308,0.0,0.877796,0.036875,0.052711,29,2,44,4188,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3004,'29RG245',3548.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.530437047892487,-0.530437046896093,-1.26536370769589,479.295683812681,0.74935550123671,0.0,0.877796,0.036875,0.052711,29,2,45,4189,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3005,'29RG246',3549.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.534717903676483,-0.534717902680089,-1.26536370769589,479.44800283268,0.74941839775662,0.0,0.877796,0.036875,0.052711,29,2,46,4190,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3006,'29RG247',3550.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.539261574838473,-0.539261573842079,-1.26536370769589,479.599912059756,0.749481105320963,0.0,0.877796,0.036875,0.052711,29,2,47,4191,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3007,'29RG248',3551.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.544067198458126,-0.544067197461732,-1.26536370769589,479.751384344221,0.74954361305271,0.0,0.877796,0.036875,0.052711,29,2,48,4192,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3008,'29RG249',3552.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.549133866234339,-0.549133865237945,-1.26536370769589,479.902392056472,0.749605909898483,0.0,0.877796,0.036875,0.052711,29,2,49,4193,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3009,'29RG250',3553.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.554460623763607,-0.554460622767213,-1.26536370769589,480.052907066621,0.749667984620475,0.0,0.877796,0.036875,0.052711,29,2,50,4194,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3010,'29RG251',3554.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.560046469784918,-0.560046468788524,-1.26536370769589,480.202900725236,0.749729825788475,0.0,0.877796,0.036875,0.052711,29,2,51,4195,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3011,'29RG252',3555.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.565890355392472,-0.565890354396078,-1.26536370769589,480.352343845284,0.749791421772441,0.0,0.877796,0.036875,0.052711,29,2,52,4196,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3012,'29RG253',3556.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.571991183219065,-0.571991182222671,-1.26536370769589,480.50120668531,0.749852760735569,0.0,0.877796,0.036875,0.052711,29,2,53,4197,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3013,'29RG254',3557.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.578347806592138,-0.578347805595744,-1.26536370769589,480.649458933924,0.749913830627899,0.0,0.877796,0.036875,0.052711,29,2,54,4198,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3014,'29RG255',3558.0,805.0,0.13935,1.44699975047248,1.44699975047248,0.0,1.44699974962292,-0.584959028664013,-0.584959027667619,-1.26536370769589,480.797069695659,0.749974619180463,0.0,0.877796,0.036875,0.052711,29,2,55,4199,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3015,'30RG101',3568.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.510241236874689,-0.510241235762995,-1.18682389135614,480.952109760316,0.750036777621133,0.0,0.877948,0.036835,0.05272,30,1,1,4213,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3016,'30RG102',3569.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.504705342791514,-0.50470534167982,-1.18682389135614,481.107629545547,0.750100534413416,0.0,0.877948,0.036835,0.05272,30,1,2,4214,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3017,'30RG103',3570.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.499437417226348,-0.499437416114654,-1.18682389135614,481.263601503677,0.750164456077743,0.0,0.877948,0.036835,0.05272,30,1,3,4215,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3018,'30RG104',3571.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.494438076222565,-0.494438075110871,-1.18682389135614,481.419998680919,0.750228531215133,0.0,0.877948,0.036835,0.05272,30,1,4,4216,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3019,'30RG105',3572.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.489707888176899,-0.489707887065205,-1.18682389135614,481.576794693323,0.750292748683343,0.0,0.877948,0.036835,0.05272,30,1,5,4217,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3020,'30RG106',3573.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.485247374930747,-0.485247373819053,-1.18682389135614,481.733963701717,0.750357097586407,0.0,0.877948,0.036835,0.05272,30,1,6,4218,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3021,'30RG107',3574.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.481057012815871,-0.481057011704177,-1.18682389135614,481.891480385697,0.750421567263786,0.0,0.877948,0.036835,0.05272,30,1,7,4219,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3022,'30RG108',3575.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.477137233653078,-0.477137232541384,-1.18682389135614,482.049319916742,0.750486147279164,0.0,0.877948,0.036835,0.05272,30,1,8,4220,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3023,'30RG109',3576.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.473488425702332,-0.473488424590638,-1.18682389135614,482.207457930514,0.750550827408912,0.0,0.877948,0.036835,0.05272,30,1,9,4221,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3024,'30RG110',3577.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.470110934563163,-0.470110933451469,-1.18682389135614,482.365870498404,0.750615597630253,0.0,0.877948,0.036835,0.05272,30,1,10,4222,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3025,'30RG111',3578.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.467005064024097,-0.467005062912403,-1.18682389135614,482.524534098407,0.750680448109157,0.0,0.877948,0.036835,0.05272,30,1,11,4223,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3026,'30RG112',3579.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.464171076860122,-0.464171075748428,-1.18682389135614,482.68342558536,0.750745369187985,0.0,0.877948,0.036835,0.05272,30,1,12,4224,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3027,'30RG113',3580.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.461609195577328,-0.461609194465634,-1.18682389135614,482.842522160626,0.750810351372918,0.0,0.877948,0.036835,0.05272,30,1,13,4225,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3028,'30RG114',3581.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.459319603103662,-0.459319601991968,-1.18682389135614,483.001801341279,0.750875385321198,0.0,0.877948,0.036835,0.05272,30,1,14,4226,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3029,'30RG115',3582.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.457302443425494,-0.4573024423138,-1.18682389135614,483.161240928832,0.750940461828188,0.0,0.877948,0.036835,0.05272,30,1,15,4227,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3030,'30RG116',3583.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.455557822168952,-0.455557821057258,-1.18682389135614,483.320818977597,0.7510055718143,0.0,0.877948,0.036835,0.05272,30,1,16,4228,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3031,'30RG117',3584.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.454085807125939,-0.454085806014245,-1.18682389135614,483.480513762698,0.751070706311802,0.0,0.877948,0.036835,0.05272,30,1,17,4229,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3032,'30RG118',3585.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.452886428724067,-0.452886427612373,-1.18682389135614,483.640303747818,0.751135856451523,0.0,0.877948,0.036835,0.05272,30,1,18,4230,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3033,'30RG119',3586.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.451959680440457,-0.451959679328763,-1.18682389135614,483.800167552725,0.751201013449489,0.0,0.877948,0.036835,0.05272,30,1,19,4231,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3034,'30RG120',3587.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.451305519159174,-0.45130551804748,-1.18682389135614,483.960083920629,0.751266168593513,0.0,0.877948,0.036835,0.05272,30,1,20,4232,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3035,'30RG121',3588.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.450923865472067,-0.450923864360373,-1.18682389135614,484.120031685422,0.751331313229747,0.0,0.877948,0.036835,0.05272,30,1,21,4233,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3036,'30RG122',3589.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.45081460392306,-0.450814602811366,-1.18682389135614,484.279989738863,0.751396438749234,0.0,0.877948,0.036835,0.05272,30,1,22,4234,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3037,'30RG123',3590.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.450977583196139,-0.450977582084445,-1.18682389135614,484.439936997746,0.751461536574474,0.0,0.877948,0.036835,0.05272,30,1,23,4235,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3038,'30RG124',3591.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.45141261624681,-0.451412615135116,-1.18682389135614,484.599852371117,0.751526598146021,0.0,0.877948,0.036835,0.05272,30,1,24,4236,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3039,'30RG125',3592.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.452119480377622,-0.452119479265928,-1.18682389135614,484.759714727572,0.751591614909143,0.0,0.877948,0.036835,0.05272,30,1,25,4237,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3040,'30RG126',3593.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.45309791725806,-0.453097916146366,-1.18682389135614,484.919502862708,0.751656578300551,0.0,0.877948,0.036835,0.05272,30,1,26,4238,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3041,'30RG127',3594.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.454347632889015,-0.454347631777321,-1.18682389135614,485.079195466766,0.751721479735235,0.0,0.877948,0.036835,0.05272,30,1,27,4239,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3042,'30RG128',3595.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.455868297512463,-0.455868296400769,-1.18682389135614,485.238771092516,0.751786310593409,0.0,0.877948,0.036835,0.05272,30,1,28,4240,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3043,'30RG129',3596.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.457659545466942,-0.457659544355248,-1.18682389135614,485.398208123438,0.751851062207599,0.0,0.877948,0.036835,0.05272,30,1,29,4241,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3044,'30RG130',3597.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.459720974989676,-0.459720973877982,-1.18682389135614,485.557484742253,0.751915725849884,0.0,0.877948,0.036835,0.05272,30,1,30,4242,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3045,'30RG131',3598.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.46205214796564,-0.462052146853946,-1.18682389135614,485.716578899853,0.751980292719322,0.0,0.877948,0.036835,0.05272,30,1,31,4243,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3046,'30RG132',3599.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.46465258962493,-0.464652588513236,-1.18682389135614,485.875468284672,0.752044753929568,0.0,0.877948,0.036835,0.05272,30,1,32,4244,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3047,'30RG133',3600.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.467521788188879,-0.467521787077185,-1.18682389135614,486.034130292575,0.752109100496717,0.0,0.877948,0.036835,0.05272,30,1,33,4245,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3048,'30RG134',3601.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.470659194466418,-0.470659193354724,-1.18682389135614,486.192541997288,0.752173323327376,0.0,0.877948,0.036835,0.05272,30,1,34,4246,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3049,'30RG135',3602.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.474064221401282,-0.474064220289588,-1.18682389135614,486.350680121445,0.752237413207007,0.0,0.877948,0.036835,0.05272,30,1,35,4247,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3050,'30RG136',3603.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.477736243571453,-0.477736242459759,-1.18682389135614,486.508521008295,0.752301360788541,0.0,0.877948,0.036835,0.05272,30,1,36,4248,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3051,'30RG137',3604.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.481674596642353,-0.481674595530659,-1.18682389135614,486.666040594129,0.752365156581297,0.0,0.877948,0.036835,0.05272,30,1,37,4249,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3052,'30RG138',3605.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.485878576774564,-0.48587857566287,-1.18682389135614,486.823214381474,0.752428790940222,0.0,0.877948,0.036835,0.05272,30,1,38,4250,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3053,'30RG139',3606.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.490347439987833,-0.490347438876139,-1.18682389135614,486.980017413127,0.752492254055474,0.0,0.877948,0.036835,0.05272,30,1,39,4251,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3054,'30RG140',3607.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.495080401483019,-0.495080400371325,-1.18682389135614,487.136424247062,0.752555535942367,0.0,0.877948,0.036835,0.05272,30,1,40,4252,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3055,'30RG141',3608.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.500076634923108,-0.500076633811414,-1.18682389135614,487.292408932297,0.752618626431704,0.0,0.877948,0.036835,0.05272,30,1,41,4253,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3056,'30RG142',3609.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.505335271675545,-0.505335270563851,-1.18682389135614,487.447944985744,0.752681515160516,0.0,0.877948,0.036835,0.05272,30,1,42,4254,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3057,'30RG143',3610.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.510855400017139,-0.510855398905445,-1.18682389135614,487.603005370141,0.752744191563231,0.0,0.877948,0.036835,0.05272,30,1,43,4255,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3058,'30RG144',3611.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.516636064303636,-0.516636063191942,-1.18682389135614,487.757562473091,0.752806644863295,0.0,0.877948,0.036835,0.05272,30,1,44,4256,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3059,'30RG145',3612.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.522676264105929,-0.522676262994235,-1.18682389135614,487.911588087289,0.752868864065262,0.0,0.877948,0.036835,0.05272,30,1,45,4257,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3060,'30RG146',3613.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.528974953315025,-0.528974952203331,-1.18682389135614,488.065053391993,0.752930837947387,0.0,0.877948,0.036835,0.05272,30,1,46,4258,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3061,'30RG147',3614.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.535531039217379,-0.535531038105685,-1.18682389135614,488.217928935797,0.752992555054732,0.0,0.877948,0.036835,0.05272,30,1,47,4259,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3062,'30RG148',3615.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.542343381543443,-0.542343380431749,-1.18682389135614,488.370184620772,0.753054003692815,0.0,0.877948,0.036835,0.05272,30,1,48,4260,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3063,'30RG149',3616.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.549410791491727,-0.549410790380033,-1.18682389135614,488.521789688036,0.753115171921822,0.0,0.877948,0.036835,0.05272,30,1,49,4261,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3064,'30RG150',3617.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.55673203072983,-0.556732029618136,-1.18682389135614,488.672712704814,0.753176047551402,0.0,0.877948,0.036835,0.05272,30,1,50,4262,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3065,'30RG151',3618.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.564305810375974,-0.56430580926428,-1.18682389135614,488.822921553051,0.753236618136079,0.0,0.877948,0.036835,0.05272,30,1,51,4263,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3066,'30RG152',3619.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.572130789963378,-0.572130788851684,-1.18682389135614,488.972383419639,0.753296870971284,0.0,0.877948,0.036835,0.05272,30,1,52,4264,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3067,'30RG153',3620.0,805.0,0.139913207547,1.44674922998372,1.44674922998372,0.0,1.4467492291343,-0.580205576389847,-0.580205575278153,-1.18682389135614,489.121064788323,0.753356793090046,0.0,0.877948,0.036835,0.05272,30,1,53,4265,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3068,'30RG201',3629.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.583205015141499,-0.583205014162866,-1.18682389135614,489.27005343186,0.753416596632022,0.0,0.878092,0.036797,0.052729,30,2,1,4273,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3069,'30RG202',3630.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.577213677335418,-0.577213676356784,-1.18682389135614,489.419629887552,0.753476556461758,0.0,0.878092,0.036797,0.052729,30,2,2,4274,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3070,'30RG203',3631.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.571473375908985,-0.571473374930351,-1.18682389135614,489.56976457263,0.75353672274935,0.0,0.878092,0.036797,0.052729,30,2,3,4275,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3071,'30RG204',3632.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.565984902864628,-0.565984901885994,-1.18682389135614,489.720428456772,0.753597083476678,0.0,0.878092,0.036797,0.052729,30,2,4,4276,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3072,'30RG205',3633.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.560749000056826,-0.560748999078193,-1.18682389135614,489.871593045744,0.75365762686187,0.0,0.878092,0.036797,0.052729,30,2,5,4277,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3073,'30RG206',3634.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.555766360199414,-0.55576635922078,-1.18682389135614,490.023230363908,0.753718341352222,0.0,0.878092,0.036797,0.052729,30,2,6,4278,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3074,'30RG207',3635.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.551037627841794,-0.55103762686316,-1.18682389135614,490.175312935671,0.753779215616681,0.0,0.878092,0.036797,0.052729,30,2,7,4279,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3075,'30RG208',3636.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.546563400312188,-0.546563399333554,-1.18682389135614,490.327813765924,0.753840238537919,0.0,0.878092,0.036797,0.052729,30,2,8,4280,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3076,'30RG209',3637.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.542344228626433,-0.542344227647799,-1.18682389135614,490.480706319539,0.753901399204019,0.0,0.878092,0.036797,0.052729,30,2,9,4281,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3077,'30RG210',3638.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.538380618360612,-0.538380617381979,-1.18682389135614,490.633964499994,0.753962686899815,0.0,0.878092,0.036797,0.052729,30,2,10,4282,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3078,'30RG211',3639.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.534673030486259,-0.534673029507626,-1.18682389135614,490.787562627158,0.754024091097893,0.0,0.878092,0.036797,0.052729,30,2,11,4283,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3079,'30RG212',3640.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.531221882166811,-0.531221881188177,-1.18682389135614,490.941475414329,0.754085601449285,0.0,0.878092,0.036797,0.052729,30,2,12,4284,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3080,'30RG213',3641.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.528027547513999,-0.528027546535366,-1.18682389135614,491.095677944559,0.754147207773893,0.0,0.878092,0.036797,0.052729,30,2,13,4285,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3081,'30RG214',3642.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.525090358303196,-0.525090357324562,-1.18682389135614,491.250145646327,0.754208900050644,0.0,0.878092,0.036797,0.052729,30,2,14,4286,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3082,'30RG215',3643.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.522410604646723,-0.522410603668089,-1.18682389135614,491.404854268629,0.75427066840742,0.0,0.878092,0.036797,0.052729,30,2,15,4287,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3083,'30RG216',3644.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.519988535624143,-0.51998853464551,-1.18682389135614,491.559779855526,0.754332503110777,0.0,0.878092,0.036797,0.052729,30,2,16,4288,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3084,'30RG217',3645.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.517824359868896,-0.517824358890262,-1.18682389135614,491.714898720212,0.754394394555478,0.0,0.878092,0.036797,0.052729,30,2,17,4289,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3085,'30RG218',3646.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.515918246110408,-0.515918245131775,-1.18682389135614,491.870187418652,0.754456333253867,0.0,0.878092,0.036797,0.052729,30,2,18,4290,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3086,'30RG219',3647.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.514270323671198,-0.514270322692564,-1.18682389135614,492.025622722856,0.754518309825093,0.0,0.878092,0.036797,0.052729,30,2,19,4291,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3087,'30RG220',3648.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.512880682918499,-0.512880681939865,-1.18682389135614,492.181181593815,0.754580314984227,0.0,0.878092,0.036797,0.052729,30,2,20,4292,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3088,'30RG221',3649.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.511749375669893,-0.511749374691259,-1.18682389135614,492.336841154183,0.75464233953127,0.0,0.878092,0.036797,0.052729,30,2,21,4293,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3089,'30RG222',3650.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.510876415552609,-0.510876414573975,-1.18682389135614,492.492578660733,0.754704374340092,0.0,0.878092,0.036797,0.052729,30,2,22,4294,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3090,'30RG223',3651.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.510261778316519,-0.510261777337885,-1.18682389135614,492.648371476645,0.75476641034731,3,0.0,0.878092,0.036797,0.052729,30,2,23,4295,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3091,'30RG224',3652.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.50990540210018,-0.509905401121546,-1.18682389135614,492.804197043682,0.754828438541152,0.0,0.878092,0.036797,0.052729,30,2,24,4296,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3092,'30RG225',3653.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.509807187650466,-0.509807186671832,-1.18682389135614,492.96003285429,0.754890449950253,0.0,0.878092,0.036797,0.052729,30,2,25,4297,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3093,'30RG226',3654.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.509966998495365,-0.509966997516731,-1.18682389135614,493.115856423691,0.754952435632525,0.0,0.878092,0.036797,0.052729,30,2,26,4298,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3094,'30RG227',3655.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.510384661070147,-0.510384660091514,-1.18682389135614,493.271645261996,0.755014386663999,0.0,0.878092,0.036797,0.052729,30,2,27,4299,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3095,'30RG228',3656.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.511059964797205,-0.511059963818571,-1.18682389135614,493.427376846406,0.755076294127738,0.0,0.878092,0.036797,0.052729,30,2,28,4300,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3096,'30RG229',3657.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.511992662119695,-0.511992661141061,-1.18682389135614,493.583028593537,0.7551381491028,0.0,0.878092,0.036797,0.052729,30,2,29,4301,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3097,'30RG230',3658.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.513182468489581,-0.513182467510948,-1.18682389135614,493.738577831921,0.755199942653289,0.0,0.878092,0.036797,0.052729,30,2,30,4302,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3098,'30RG231',3659.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.514629062309993,-0.514629061331359,-1.18682389135614,493.894001774741,0.755261665817509,0.0,0.878092,0.036797,0.052729,30,2,31,4303,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3099,'30RG232',3660.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.516332084832847,-0.516332083854213,-1.18682389135614,494.049277492828,0.755323309597232,0.0,0.878092,0.036797,0.052729,30,2,32,4304,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3100,'30RG233',3661.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.518291140012394,-0.51829113903376,-1.18682389135614,494.204381887989,0.755384864947113,0.0,0.878092,0.036797,0.052729,30,2,33,4305,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3101,'30RG234',3662.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.520505794314708,-0.520505793336074,-1.18682389135614,494.3592916667,0.755446322764252,0.0,0.878092,0.036797,0.052729,30,2,34,4306,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3102,'30RG235',3663.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.522975576484597,-0.522975575505964,-1.18682389135614,494.51398331423,0.755507763877946,0.0,0.878092,0.036797,0.052729,30,2,35,4307,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3103,'30RG236',3664.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.525699977270313,-0.52569997629168,-1.18682389135614,494.668433069216,0.755568909039622,0.0,0.878092,0.036797,0.052729,30,2,36,4308,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3104,'30RG237',3665.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.528678449107161,-0.528678448128527,-1.18682389135614,494.822616898777,0.755630018912992,0.0,0.878092,0.036797,0.052729,30,2,37,4309,'ccl_gap');
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```sql
INSERT INTO `rf_gap` VALUES (3105,'30RG238',3666.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.531910405760463,-0.531910404781829,-1.18682389135614,494.976510474176,0.755690994064439,0.0,0.878092,0.036797,0.052729,30,2,38,4310,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3106,'30RG239',3667.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.535395221929733,-0.535395220951099,-1.18682389135614,495.130089147116,0.755751824953653,0.0,0.878092,0.036797,0.052729,30,2,39,4311,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3107,'30RG240',3668.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.539132232814644,-0.53913223183601,-1.18682389135614,495.283327926693,0.755812501924536,0.0,0.878092,0.036797,0.052729,30,2,40,4312,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3108,'30RG241',3669.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.543120733643717,-0.543120732665084,-1.18682389135614,495.436201457072,0.755873015196392,0.0,0.878092,0.036797,0.052729,30,2,41,4313,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3109,'30RG242',3670.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.547359979168042,-0.547359978189409,-1.18682389135614,495.588683995934,0.755933354855436,0.0,0.878092,0.036797,0.052729,30,2,42,4314,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3110,'30RG243',3671.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.551849183119614,-0.55184918214098,-1.18682389135614,495.740749393733,0.755993510846612,0.0,0.878092,0.036797,0.052729,30,2,43,4315,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3111,'30RG244',3672.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.556587517638128,-0.556587516659494,-1.18682389135614,495.892371073843,0.756053472965773,0.0,0.878092,0.036797,0.052729,30,2,44,4316,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3112,'30RG245',3673.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.561574112665085,-0.561574111686451,-1.18682389135614,496.043522013608,0.756113230852207,0.0,0.878092,0.036797,0.052729,30,2,45,4317,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3113,'30RG246',3674.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.566808055308535,-0.566808054329901,-1.18682389135614,496.194174726382,0.75617277398156,0.0,0.878092,0.036797,0.052729,30,2,46,4318,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3114,'30RG247',3675.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.572288389179717,-0.572288388201084,-1.18682389135614,496.344301244594,0.756232091659158,0.0,0.878092,0.036797,0.052729,30,2,47,4319,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3115,'30RG248',3676.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.578014113702984,-0.57801411272435,-1.18682389135614,496.493873103885,0.756291173013737,0.0,0.878092,0.036797,0.052729,30,2,48,4320,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3116,'30RG249',3677.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.583984183401099,-0.583984182422466,-1.18682389135614,496.64286132839,0.756350006991628,0.0,0.878092,0.036797,0.052729,30,2,49,4321,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3117,'30RG250',3678.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.59019750715759,-0.590197506178956,-1.18682389135614,496.791236417194,0.756408582351393,0.0,0.878092,0.036797,0.052729,30,2,50,4322,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3118,'30RG251',3679.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.596652947458224,-0.59665294647959,-1.18682389135614,496.938968332028,0.756466887658934,0.0,0.878092,0.036797,0.052729,30,2,51,4323,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3119,'30RG252',3680.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.603349319613222,-0.603349318634589,-1.18682389135614,497.08602648626,0.756524911283105,0.0,0.878092,0.036797,0.052729,30,2,52,4324,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3120,'30RG253',3681.0,805.0,0.140563584906,1.44651197478823,1.44651197478823,0.0,1.44651197393895,-0.610285390963497,-0.610285389984863,-1.18682389135614,497.232379735217,0.75658264139183,0.0,0.878092,0.036797,0.052729,30,2,53,4325,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3121,'31RG101',3691.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.582535444063106,-0.582535442982453,-1.12573736753634,497.382137429023,0.756640880254285,0.0,0.878238,0.036758,0.052738,31,1,1,4341,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3122,'31RG102',3692.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.574960973658182,-0.574960972577529,-1.12573736753634,497.532639654912,0.756699912175831,0.0,0.878238,0.036758,0.052738,31,1,2,4342,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3123,'31RG103',3693.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.567632883691784,-0.567632882611131,-1.12573736753634,497.683854049109,0.756759207215268,0.0,0.878238,0.036758,0.052738,31,1,3,4343,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3124,'31RG104',3694.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.560552198821461,-0.560552197740808,-1.12573736753634,497.835748927799,0.756818752468566,0.0,0.878238,0.036758,0.052738,31,1,4,4344,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3125,'31RG105',3695.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.553719890030101,-0.553719888949448,-1.12573736753634,497.988293276746,0.756878535315362,0.0,0.878238,0.036758,0.052738,31,1,5,4345,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3126,'31RG106',3696.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.547136875833181,-0.547136874752528,-1.12573736753634,498.141456739444,0.756938543414272,0.0,0.878238,0.036758,0.052738,31,1,6,4346,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3127,'31RG107',3697.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.540804023464502,-0.540804022383849,-1.12573736753634,498.29520960385,0.756998764697624,0.0,0.878238,0.036758,0.052738,31,1,7,4347,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3128,'31RG108',3698.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.534722150038255,-0.534722148957602,-1.12573736753634,498.449522787775,0.757059187365649,0.0,0.878238,0.036758,0.052738,31,1,8,4348,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3129,'31RG109',3699.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.528892023684988,-0.528892022604335,-1.12573736753634,498.604367822997,0.75711979988016,0.0,0.878238,0.036758,0.052738,31,1,9,4349,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3130,'31RG110',3700.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.523314364659675,-0.523314363579022,-1.12573736753634,498.759716838149,0.757180590957733,0.0,0.878238,0.036758,0.052738,31,1,10,4350,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3131,'31RG111',3701.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.517989846419496,-0.517989845338843,-1.12573736753634,498.915542540467,0.757241549562436,0.0,0.878238,0.036758,0.052738,31,1,11,4351,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3132,'31RG112',3702.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.512919096669982,-0.512919095589329,-1.12573736753634,499.071818196442,0.757302664898117,0.0,0.878238,0.036758,0.052738,31,1,12,4352,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3133,'31RG113',3703.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.508102698377441,-0.508102697296788,-1.12573736753634,499.228517611443,0.757363926400289,0.0,0.878238,0.036758,0.052738,31,1,13,4353,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3134,'31RG114',3704.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.503541190745998,-0.503541189665345,-1.12573736753634,499.38561510838,0.75742532372763,2,0.0,0.878238,0.036758,0.052738,31,1,14,4354,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3135,'31RG115',3705.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.499235070158092,-0.499235069077439,-1.12573736753634,499.543085505457,0.757486846753135,0.0,0.878238,0.036758,0.052738,31,1,15,4355,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3136,'31RG116',3706.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.495184791076631,-0.495184789995978,-1.12573736753634,499.700904093084,0.757548485554916,0.0,0.878238,0.036758,0.052738,31,1,16,4356,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3137,'31RG117',3707.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.491390766907741,-0.491390765827088,-1.12573736753634,499.859046609998,0.757610230406724,0.0,0.878238,0.036758,0.052738,31,1,17,4357,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3138,'31RG118',3708.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.487853370822825,-0.487853369742172,-1.12573736753634,500.017489218656,0.757672071768171,0.0,0.878238,0.036758,0.052738,31,1,18,4358,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3139,'31RG119',3709.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.48457293653891,-0.484572935458257,-1.12573736753634,500.176208479955,0.757734000274693,0.0,0.878238,0.036758,0.052738,31,1,19,4359,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3140,'31RG120',3710.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.481549759056171,-0.481549757975518,-1.12573736753634,500.335181327331,0.757796006727292,0.0,0.878238,0.036758,0.052738,31,1,20,4360,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3141,'31RG121',3711.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.478784095351883,-0.47878409427123,-1.12573736753634,500.494385040295,0.757858082082046,0.0,0.878238,0.036758,0.052738,31,1,21,4361,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3142,'31RG122',3712.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.476276165029794,-0.476276163949141,-1.12573736753634,500.653797217466,0.757920217439443,0.0,0.878238,0.036758,0.052738,31,1,22,4362,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3143,'31RG123',3713.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.474026150924572,-0.474026149843919,-1.12573736753634,500.813395749128,0.75798240403354,0.0,0.878238,0.036758,0.052738,31,1,23,4363,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3144,'31RG124',3714.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.47203419966015,-0.472034198579497,-1.12573736753634,500.973158789401,0.758044633220974,0.0,0.878238,0.036758,0.052738,31,1,24,4364,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3145,'31RG125',3715.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.470300422162082,-0.470300421081429,-1.12573736753634,501.133064728036,0.758106896469844,0.0,0.878238,0.036758,0.052738,31,1,25,4365,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3146,'31RG126',3716.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.468824894122867,-0.468824893042214,-1.12573736753634,501.293092161918,0.758169185348491,0.0,0.878238,0.036758,0.052738,31,1,26,4366,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3147,'31RG127',3717.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.467607656420454,-0.467607655339801,-1.12573736753634,501.453219866299,0.758231491514184,0.0,0.878238,0.036758,0.052738,31,1,27,4367,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3148,'31RG128',3718.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.466648715489007,-0.466648714408354,-1.12573736753634,501.613426765826,0.758293806701744,0.0,0.878238,0.036758,0.052738,31,1,28,4368,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3149,'31RG129',3719.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.465948043642341,-0.465948042561688,-1.12573736753634,501.773691905407,0.75835612271211,0.0,0.878238,0.036758,0.052738,31,1,29,4369,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3150,'31RG130',3720.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.465505579349503,-0.46550557826885,-1.12573736753634,501.933994420954,0.758418431400885,0.0,0.878238,0.036758,0.052738,31,1,30,4370,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3151,'31RG131',3721.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.46532122746268,-0.465321226382027,-1.12573736753634,502.094313510065,0.75848072466686,0.0,0.878238,0.036758,0.052738,31,1,31,4371,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3152,'31RG132',3722.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.465394859397256,-0.465394858316603,-1.12573736753634,502.254628402672,0.758542994440553,0.0,0.878238,0.036758,0.052738,31,1,32,4372,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3153,'31RG133',3723.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.465726313264397,-0.465726312183744,-1.12573736753634,502.414918331719,0.758605232672759,0.0,0.878238,0.036758,0.052738,31,1,33,4373,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3154,'31RG134',3724.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.466315393956058,-0.466315392875405,-1.12573736753634,502.575162503898,0.758667431323157,0.0,0.878238,0.036758,0.052738,31,1,34,4374,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3155,'31RG135',3725.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.467161873182817,-0.467161872102164,-1.12573736753634,502.735340070503,0.758729582348959,0.0,0.878238,0.036758,0.052738,31,1,35,4375,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3156,'31RG136',3726.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.468265489464947,-0.468265488384294,-1.12573736753634,502.895430098438,0.758791677693649,0.0,0.878238,0.036758,0.052738,31,1,36,4376,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3157,'31RG137',3727.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.469625948076796,-0.469625946996143,-1.12573736753634,503.055411541425,0.758853709275807,0.0,0.878238,0.036758,0.052738,31,1,37,4377,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3158,'31RG138',3728.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.47124292094552,-0.471242919864867,-1.12573736753634,503.215263211457,0.758915668978042,0.0,0.878238,0.036758,0.052738,31,1,38,4378,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3159,'31RG139',3729.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.473116046503747,-0.473116045423094,-1.12573736753634,503.374963750549,0.758977548636058,0.0,0.878238,0.036758,0.052738,31,1,39,4379,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3160,'31RG140',3730.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.475244929498067,-0.475244928417414,-1.12573736753634,503.534491602816,0.759039340027859,0.0,0.878238,0.036758,0.052738,31,1,40,4380,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3161,'31RG141',3731.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.477629140752625,-0.477629139671972,-1.12573736753634,503.693824986938,0.759101034863116,0.0,0.878238,0.036758,0.052738,31,1,41,4381,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3162,'31RG142',3732.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.480268216889818,-0.480268215809165,-1.12573736753634,503.852941869055,0.759162624772715,0.0,0.878238,0.036758,0.052738,31,1,42,4382,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3163,'31RG143',3733.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.483161660007965,-0.483161658927312,-1.12573736753634,504.011819936129,0.759224101298491,0.0,0.878238,0.036758,0.052738,31,1,43,4383,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3164,'31RG144',3734.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.48630893731731,-0.486308936236657,-1.12573736753634,504.170436569831,0.759285455883187,0.0,0.878238,0.036758,0.052738,31,1,44,4384,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3165,'31RG145',3735.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.489709480735185,-0.489709479654532,-1.12573736753634,504.328768820999,0.759346679860632,0.0,0.878238,0.036758,0.052738,31,1,45,4385,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3166,'31RG146',3736.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.493362686441294,-0.493362685360641,-1.12573736753634,504.486793384699,0.759407764446167,0.0,0.878238,0.036758,0.052738,31,1,46,4386,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3167,'31RG147',3737.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.497267914394541,-0.497267913313888,-1.12573736753634,504.644486575964,0.75946870072734,0.0,0.878238,0.036758,0.052738,31,1,47,4387,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3168,'31RG148',3738.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.501424487811781,-0.501424486731128,-1.12573736753634,504.801824306234,0.759529479654874,0.0,0.878238,0.036758,0.052738,31,1,48,4388,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3169,'31RG149',3739.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.505831692610641,-0.505831691529988,-1.12573736753634,504.958782060559,0.759590092033943,0.0,0.878238,0.036758,0.052738,31,1,49,4389,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3170,'31RG150',3740.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.510488776816977,-0.510488775736324,-1.12573736753634,505.115334875618,0.759650528515757,0.0,0.878238,0.036758,0.052738,31,1,50,4390,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3171,'31RG151',3741.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.515394949938922,-0.515394948858269,-1.12573736753634,505.271457318593,0.759710779589483,0.0,0.878238,0.036758,0.052738,31,1,51,4391,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3172,'31RG152',3742.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.520549382308579,-0.520549381227926,-1.12573736753634,505.427123466955,0.759770835574525,0.0,0.878238,0.036758,0.052738,31,1,52,4392,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3173,'31RG153',3743.0,805.0,0.141236037736,1.44627150381302,1.44627150381302,0.0,1.44627150296389,-0.525951204392626,-0.525951203311973,-1.12573736753634,505.582306889219,0.759830686613166,0.0,0.878238,0.036758,0.052738,31,1,53,4393,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3174,'31RG201',3752.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.533699383572777,-0.533699382462126,-1.12573736753634,505.737302730152,0.759890384644191,0.0,0.878379,0.036721,0.052748,31,2,1,4401,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3175,'31RG202',3753.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.527592369797764,-0.527592368687113,-1.12573736753634,505.892856598906,0.759950130022879,0.0,0.878379,0.036721,0.052748,31,2,2,4402,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3176,'31RG203',3754.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.521733331398765,-0.521733330288114,-1.12573736753634,506.048940465202,0.76001006064638,0.0,0.878379,0.036721,0.052748,31,2,3,4403,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3177,'31RG204',3755.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.516122968826962,-0.51612296771631,-1.12573736753634,506.205526896393,0.760070165616544,0.0,0.878379,0.036721,0.052748,31,2,4,4404,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3178,'31RG205',3756.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.510761937515154,-0.510761936404503,-1.12573736753634,506.36258903958,0.760130434278327,0.0,0.878379,0.036721,0.052748,31,2,5,4405,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3179,'31RG206',3757.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.505650848899625,-0.505650847788974,-1.12573736753634,506.520100602661,0.760190856211955,0.0,0.878379,0.036721,0.052748,31,2,6,4406,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3180,'31RG207',3758.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.500790271409782,-0.500790270299131,-1.12573736753634,506.67803583439,0.760251421225325,0.0,0.878379,0.036721,0.052748,31,2,7,4407,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3181,'31RG208',3759.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.496180731423953,-0.496180730313302,-1.12573736753634,506.836369503495,0.760312119345796,0.0,0.878379,0.036721,0.052748,31,2,8,4408,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3182,'31RG209',3760.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.491822714190091,-0.49182271307944,-1.12573736753634,506.995076876912,0.760372940811678,0.0,0.878379,0.036721,0.052748,31,2,9,4409,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3183,'31RG210',3761.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.487716664709799,-0.487716663599148,-1.12573736753634,507.154133697202,0.760433876063408,0.0,0.878379,0.036721,0.052748,31,2,10,4410,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3184,'31RG211',3762.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.483862988584674,-0.483862987474023,-1.12573736753634,507.313516159188,0.760494915734433,0.0,0.878379,0.036721,0.052748,31,2,11,4411,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3185,'31RG212',3763.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.480262052823638,-0.480262051712987,-1.12573736753634,507.473200885896,0.76055605064182,0.0,0.878379,0.036721,0.052748,31,2,12,4412,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3186,'31RG213',3764.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.47691418661037,-0.476914185499719,-1.12573736753634,507.633164903822,0.760617271776623,0.0,0.878379,0.036721,0.052748,31,2,13,4413,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3187,'31RG214',3765.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.473819682029761,-0.47381968091911,-1.12573736753634,507.793385617599,0.76067857029402,0.0,0.878379,0.036721,0.052748,31,2,14,4414,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3188,'31RG215',3766.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.470978794752694,-0.470978793642043,-1.12573736753634,507.953840784116,0.760739937503248,0.0,0.878379,0.036721,0.052748,31,2,15,4415,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3189,'31RG216',3767.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.468391744678135,-0.468391743567484,-1.12573736753634,508.11450848612,0.760801364857351,0.0,0.878379,0.036721,0.052748,31,2,16,4416,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3190,'31RG217',3768.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.466058716532101,-0.46605871542145,-1.12573736753634,508.275367105379,0.760862843942768,0.0,0.878379,0.036721,0.052748,31,2,17,4417,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3191,'31RG218',3769.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.463979860422787,-0.463979859312136,-
1.12573736753634,508.436395295428,0.760924366468774,0.0,0.878379,0.036721,0.052748,31,2,18,4418,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3192,'31RG219',3770.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.462155292351282,-0.462155291240631,-
1.12573736753634,508.597571953971,0.760985924256794,0.0,0.878379,0.036721,0.052748,31,2,19,4419,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3193,'31RG220',3771.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.460585094677631,-0.4605850935669,-
1.12573736753634,508.75887619496,0.761047509229617,0.0,0.878379,0.036721,0.052748,31,2,20,4420,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3194,'31RG221',3772.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.459269316541563,-0.459269315430912,-
1.12573736753634,508.920287320424,0.761109113400521,0.0,0.878379,0.036721,0.052748,31,2,21,4421,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3195,'31RG222',3773.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.45820797423797,-0.458207973127319,-
1.12573736753634,509.081784792073,0.76117072886232,0.0,0.878379,0.036721,0.052748,31,2,22,4422,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3196,'31RG223',3774.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.457401051546681,-0.45740105043603,-
1.12573736753634,509.243348202728,0.761232347776373,0.0,0.878379,0.036721,0.052748,31,2,23,4423,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3197,'31RG224',3775.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.45684850001644,-0.456848498905789,-
1.12573736753634,509.404957247632,0.761293962361547,0.0,0.878379,0.036721,0.052748,31,2,24,4424,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3198,'31RG225',3776.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.456550239203095,-0.456550238092444,-
1.12573736753634,509.566591695666,0.76135556488317,0.0,0.878379,0.036721,0.052748,31,2,25,4425,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3199,'31RG226',3777.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.456506156861897,-0.456506155751246,-
1.12573736753634,509.728231360535,0.761417147641982,0.0,0.878379,0.036721,0.052748,31,2,26,4426,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3200,'31RG227',3778.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.456716109094243,-0.456716107983592,-
1.12573736753634,509.889856071943,0.761478702963096,0.0,0.878379,0.036721,0.052748,31,2,27,4427,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3201,'31RG228',3779.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.45717992044843,-0.457179919337779,-
1.12573736753634,510.05144564683,0.761540223185003,0.0,0.878379,0.036721,0.052748,31,2,28,4428,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3202,'31RG229',3780.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.457897383975505,-0.457897382864854,-
1.12573736753634,510.212979860677,0.761601700648614,0.0,0.878379,0.036721,0.052748,31,2,29,4429,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3203,'31RG230',3781.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.458868261239408,-0.458868260128757,-
1.12573736753634,510.374438418959,0.761663127686372,0.0,0.878379,0.036721,0.052748,31,2,30,4430,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3204,'31RG231',3782.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.460092282282984,-0.460092281172333,-
1.12573736753634,510.535800928759,0.761724496611448,0.0,0.878379,0.036721,0.052748,31,2,31,4431,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3205,'31RG232',3783.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.461569145549111,-0.46156914443846,-
1.12573736753634,510.697046870599,0.761785799707027,0.0,0.878379,0.036721,0.052748,31,2,32,4432,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3206,'31RG233',3784.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.463298517758174,-0.463298516647523,-
1.12573736753634,510.858155570529,0.761847029215706,0.0,0.878379,0.036721,0.052748,31,2,33,4433,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3207,'31RG234',3785.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.465280033742024,-0.465280032631373,-
1.12573736753634,511.019106172517,0.761908177329026,0.0,0.878379,0.036721,0.052748,31,2,34,4434,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3208,'31RG235',3786.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.467513296235252,-0.467513295124601,-
1.12573736753634,511.179877611177,0.761969236177142,0.0,0.878379,0.036721,0.052748,31,2,35,4435,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3209,'31RG236',3787.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.469997875624477,-0.469997874513826,-
1.12573736753634,511.340448584889,0.762030197818653,0.0,0.878379,0.036721,0.052748,31,2,36,4436,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3210,'31RG237',3788.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.47273330965592,-0.472733308545269,-
1.12573736753634,511.50079752934,0.762091054230611,0.0,0.878379,0.036721,0.052748,31,2,37,4437,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3211,'31RG238',3789.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.475719103102696,-0.475719101992045,-
1.12573736753634,511.660902591544,0.76215179729871,0.0,0.878379,0.036721,0.052748,31,2,38,4438,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3212,'31RG239',3790.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.478954727392176,-0.478954726281525,-
1.12573736753634,511.820741604378,0.762212418807699,0.0,0.878379,0.036721,0.052748,31,2,39,4439,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3213,'31RG240',3791.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.482439620194674,-0.482439619084023,-
1.12573736753634,511.980292061677,0.762272910431996,0.0,0.878379,0.036721,0.052748,31,2,40,4440,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3214,'31RG241',3792.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.48617318497409,-0.486173183863439,-
1.12573736753634,512.139531093942,0.762333263726563,0.0,0.878379,0.036721,0.052748,31,2,41,4441,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3215,'31RG242',3793.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.490154790501853,-0.490154789391202,-
1.12573736753634,512.298435444692,0.762393470118015,0.0,0.878379,0.036721,0.052748,31,2,42,4442,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3216,'31RG243',3794.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.494383770335373,-0.494383769224722,-
1.12573736753634,512.456981447527,0.762453520896018,0.0,0.878379,0.036721,0.052748,31,2,43,4443,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3217,'31RG244',3795.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.498859422261438,-0.498859421150787,-
1.12573736753634,512.61514500393,0.76251340720496,0.0,0.878379,0.036721,0.052748,31,2,44,4444,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3218,'31RG245',3796.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.503581007706968,-0.503581006596317,-
1.12573736753634,512.772901561862,0.762573120035937,0.0,0.878379,0.036721,0.052748,31,2,45,4445,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3219,'31RG246',3797.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.508547751117239,-0.508547750006588,-
1.12573736753634,512.930226095205,0.762632650219055,0.0,0.878379,0.036721,0.052748,31,2,46,4446,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3220,'31RG247',3798.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.513758839303888,-0.513758838193237,-
1.12573736753634,513.087093084096,0.762691988416066,0.0,0.878379,0.036721,0.052748,31,2,47,4447,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3221,'31RG248',3799.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.519213420763924,-0.519213419653273,-
1.12573736753634,513.24347649619,0.762751125113371,0.0,0.878379,0.036721,0.052748,31,2,48,4448,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3222,'31RG249',3800.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.524910604970101,-0.52491060385945,-
1.12573736753634,513.399349768933,0.762810050615383,0.0,0.878379,0.036721,0.052748,31,2,49,4449,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3223,'31RG250',3801.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.530849461636668,-0.530849460526017,-
1.12573736753634,513.554685792852,0.762868755038279,0.0,0.878379,0.036721,0.052748,31,2,50,4450,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3224,'31RG251',3802.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.537029019959432,-0.537029018848781,-
1.12573736753634,513.709456895958,0.762927228304172,0.0,0.878379,0.036721,0.052748,31,2,51,4451,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3225,'31RG252',3803.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.543448267833758,-0.543448266723107,-
1.12573736753634,513.86363482927,0.76298546013569,0.0,0.878379,0.036721,0.052748,31,2,52,4452,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3226,'31RG253',3804.0,805.0,0.141776603774,1.44603934402547,1.44603934402547,0.0,1.44603934317647,-0.550106151051606,-0.550106149940955,-
1.12573736753634,514.017190753547,0.763043440051004,0.0,0.878379,0.036721,0.052748,31,2,53,4453,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3227,'32RG101',3814.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.560463885736264,-0.560463884669618,-
1.09083078249646,514.170334380387,0.763101202391458,0.0,0.878516,0.036684,0.052756,32,1,1,4467,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3228,'32RG102',3815.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.554118464600221,-0.554118463533575,-
1.09083078249646,514.324086314819,0.763158978974995,0.0,0.878516,0.036684,0.052756,32,1,2,4468,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3229,'32RG103',3816.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.548011907362892,-0.548011906296246,-
1.09083078249646,514.478417887016,0.763216956404096,0.0,0.878516,0.036684,0.052756,32,1,3,4469,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3230,'32RG104',3817.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.542144978939196,-0.54214497787255,-
1.09083078249646,514.63330100717,0.763275123752493,0.0,0.878516,0.036684,0.052756,32,1,4,4470,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3231,'32RG105',3818.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.536518399248856,-0.53651839818221,-
1.09083078249646,514.788708150969,0.763333470325483,0.0,0.878516,0.036684,0.052756,32,1,5,4471,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3232,'32RG106',3819.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.531132844189291,-0.531132843122645,-
1.09083078249646,514.944612343989,0.763391985653968,0.0,0.878516,0.036684,0.052756,32,1,6,4472,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3233,'32RG107',3820.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.525988946582463,-0.525988945515817,-
1.09083078249646,515.100987145044,0.763450659488094,0.0,0.878516,0.036684,0.052756,32,1,7,4473,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3234,'32RG108',3821.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.521087297094124,-0.521087296027478,-
1.09083078249646,515.257806628579,0.763509481790523,0.0,0.878516,0.036684,0.052756,32,1,8,4474,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3235,'32RG109',3822.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.516428445124011,-0.516428444057365,-
1.09083078249646,515.41504536612,0.763568442729347,0.0,0.878516,0.036684,0.052756,32,1,9,4475,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3236,'32RG110',3823.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.512012899665447,-0.512012898598801,-
1.09083078249646,515.57267840688,0.763627532670677,0.0,0.878516,0.036684,0.052756,32,1,10,4476,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3237,'32RG111',3824.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.50784113013339,-0.507841129066744,-
1.09083078249646,515.730681257529,0.763686742170928,0.0,0.878516,0.036684,0.052756,32,1,11,4477,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3238,'32RG112',3825.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.50391356715927,-0.503913566092624,-
1.09083078249646,515.889029861219,0.763746061968813,0.0,0.878516,0.036684,0.052756,32,1,12,4478,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3239,'32RG113',3826.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.500230603351856,-0.50023060228521,-
1.09083078249646,516.047700575889,0.763805482977072,0.0,0.878516,0.036684,0.052756,32,1,13,4479,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3240,'32RG114',3827.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.496792594023003,-0.496792592956357,-
1.09083078249646,516.206670151913,0.763864996273959,0.0,0.878516,0.036684,0.052756,32,1,14,4480,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3241,'32RG115',3828.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.493599857877346,-0.4935998568107,-
1.09083078249646,516.36591570914,0.763924593094507,0.0,0.878516,0.036684,0.052756,32,1,15,4481,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3242,'32RG116',3829.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.490652677665008,-0.490652676598362,-
1.09083078249646,516.525414713372,0.763984264821578,0.0,0.878516,0.036684,0.052756,32,1,16,4482,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3243,'32RG117',3830.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.487951300796642,-0.487951299729996,-
1.09083078249646,516.685144952322,0.764044002976737,0.0,0.878516,0.036684,0.052756,32,1,17,4483,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3244,'32RG118',3831.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.485495939920153,-0.485495938853507,-
1.09083078249646,516.845084511123,0.764103799210956,0.0,0.878516,0.036684,0.052756,32,1,18,4484,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3245,'32RG119',3832.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.483286773458236,-0.48328677239159,-
1.09083078249646,517.005211747395,0.764163645295163,0.0,0.878516,0.036684,0.052756,32,1,19,4485,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3246,'32RG120',3833.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.481323946106568,-0.481323945039922,-
1.09083078249646,517.165505265958,0.764223533110672,0.0,0.878516,0.036684,0.052756,32,1,20,4486,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3247,'32RG121',3834.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.479607569291734,-0.479607568225088,-
1.09083078249646,517.325943893208,0.764283454639489,0.0,0.878516,0.036684,0.052756,32,1,21,4487,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3248,'32RG122',3835.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.478137721588962,-0.478137720522316,-
1.09083078249646,517.486506651203,0.764343401954525,0.0,0.878516,0.036684,0.052756,32,1,22,4488,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3249,'32RG123',3836.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.476914449098903,-0.476914448032257,-
1.09083078249646,517.647172731515,0.764403367209733,0.0,0.878516,0.036684,0.052756,32,1,23,4489,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3250,'32RG124',3837.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.475937765783553,-0.475937764716907,-
1.09083078249646,517.807921468882,0.76446334263018,0.0,0.878516,0.036684,0.052756,32,1,24,4490,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3251,'32RG125',3838.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.475207653760852,-0.475207652694206,-
1.09083078249646,517.968732314703,0.764523320502072,0.0,0.878516,0.036684,0.052756,32,1,25,4491,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3252,'32RG126',3839.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.474724063558153,-0.474724062491507,-
1.09083078249646,518.129584810415,0.764583293162748,0.0,0.878516,0.036684,0.052756,32,1,26,4492,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3253,'32RG127',3840.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.474486914324051,-0.474486913257405,-
1.09083078249646,518.290458560803,0.764643252990666,0.0,0.878516,0.036684,0.052756,32,1,27,4493,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3254,'32RG128',3841.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.474496093999133,-0.474496092932487,-
1.09083078249646,518.451333207274,0.764703192395377,0.0,0.878516,0.036684,0.052756,32,1,28,4494,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3255,'32RG129',3842.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.474751459445191,-0.474751458378545,-
1.09083078249646,518.61218840114,0.7647631038075,0.0,0.878516,0.036684,0.052756,32,1,29,4495,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3256,'32RG130',3843.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.475252836533326,-0.47525283546668,-
1.09083078249646,518.773003776949,0.764822979668896,0.0,0.878516,0.036684,0.052756,32,1,30,4496,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3257,'32RG131',3844.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.476000020191439,-0.476000019124793,-
1.09083078249646,518.933758925911,0.764882812422446,0.0,0.878516,0.036684,0.052756,32,1,31,4497,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3258,'32RG132',3845.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.476992774410431,-0.476992773343785,-
1.09083078249646,519.094433369441,0.764942594502488,0.0,0.878516,0.036684,0.052756,32,1,32,4498,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3259,'32RG133',3846.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.478230832210461,-0.478230831143815,-
1.09083078249646,519.255006532888,0.765002318324875,0.0,0.878516,0.036684,0.052756,32,1,33,4499,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3260,'32RG134',3847.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.479713895566885,-0.479713894500239,-
1.09083078249646,519.415457719457,0.765061976277312,0.0,0.878516,0.036684,0.052756,32,1,34,4500,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3261,'32RG135',3848.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.481441635297106,-0.48144163423046,-
1.09083078249646,519.575766084393,0.76512156070976,0.0,0.878516,0.036684,0.052756,32,1,35,4501,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3262,'32RG136',3849.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.483413690907608,-0.483413689840962,-
1.09083078249646,519.735910609447,0.765181063924968,0.0,0.878516,0.036684,0.052756,32,1,36,4502,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3263,'32RG137',3850.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.485629670403217,-0.485629669336571,-
1.09083078249646,519.895870077677,0.765240478169125,0.0,0.878516,0.036684,0.052756,32,1,37,4503,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3264,'32RG138',3851.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.488089150057885,-0.488089148991239,-
1.09083078249646,520.055623048618,0.765299795622677,0.0,0.878516,0.036684,0.052756,32,1,38,4504,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3265,'32RG139',3852.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.4907916741486,-0.490791673081954,-
1.09083078249646,520.215147833862,0.76535900839195,0.0,0.878516,0.036684,0.052756,32,1,39,4505,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3266,'32RG140',3853.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.493736754652499,-0.493736753585853,-
1.09083078249646,520.374422473098,0.765418108497028,0.0,0.878516,0.036684,0.052756,32,1,40,4506,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3267,'32RG141',3854.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.496923870908422,-0.496923869841776,-
1.09083078249646,520.533424710635,0.765477087869638,0.0,0.878516,0.036684,0.052756,32,1,41,4507,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3268,'32RG142',3855.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.500352469243648,-0.500352468177002,-
1.09083078249646,520.692131972476,0.765535938338156,0.0,0.878516,0.036684,0.052756,32,1,42,4508,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3269,'32RG143',3856.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.504021962566331,-0.504021961499685,-
1.09083078249646,520.850521343961,0.765594651622649,0.0,0.878516,0.036684,0.052756,32,1,43,4509,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3270,'32RG144',3857.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.507931729925357,-0.507931728858711,-
1.09083078249646,521.008569548033,0.765653219326222,0.0,0.878516,0.036684,0.052756,32,1,44,4510,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3271,'32RG145',3858.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.512081116037809,-0.512081114971163,-
1.09083078249646,521.166252924174,0.765711632927284,0.0,0.878516,0.036684,0.052756,32,1,45,4511,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3272,'32RG146',3859.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.516469430785815,-0.516469429719169,-
1.09083078249646,521.323547408048,0.765769883772061,0.0,0.878516,0.036684,0.052756,32,1,46,4512,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3273,'32RG147',3860.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.521095948683471,-0.521095947616825,-
1.09083078249646,521.480428511894,0.765827963067412,0.0,0.878516,0.036684,0.052756,32,1,47,4513,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3274,'32RG148',3861.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.525959908315056,-0.52595990724841,-
1.09083078249646,521.636871305721,0.76588586187392,0.0,0.878516,0.036684,0.052756,32,1,48,4514,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3275,'32RG149',3862.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.531060511746422,-0.531060510679776,-
1.09083078249646,521.792850399345,0.765943571099313,0.0,0.878516,0.036684,0.052756,32,1,49,4515,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3276,'32RG150',3863.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.536396923909717,-0.536396922843071,-
1.09083078249646,521.948339925308,0.766001081492197,0.0,0.878516,0.036684,0.052756,32,1,50,4516,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3277,'32RG151',3864.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.54196827196407,-0.541968270897424,-1.09083078249646,522.103313522742,0.766058383636143,0.0,0.878516,0.036684,0.052756,32,1,51,4517,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3278,'32RG152',3865.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.547773644632738,-0.547773643566092,-1.09083078249646,522.2257443222,0.766115467944126,0.0,0.878516,0.036684,0.052756,32,1,52,4518,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3279,'32RG153',3866.0,805.0,0.142386226415,1.44581384171233,1.44581384171233,0.0,1.44581384086346,-0.553812091518996,-0.55381209045235,-1.09083078249646,522.411604931526,0.766172324653338,0.0,0.878516,0.036684,0.052756,32,1,53,4519,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3280,'32RG201',3875.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.569276632225806,-0.569276631178525,-1.09083078249646,522.564516873405,0.766228879207997,0.0,0.878648,0.036649,0.052764,32,2,1,4527,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3281,'32RG202',3876.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.562998881954561,-0.56299888090728,-1.09083078249646,522.718041589522,0.766285349903547,0.0,0.878648,0.036649,0.052764,32,2,2,4528,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3282,'32RG203',3877.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.556953642665531,-0.55695364161825,-1.09083078249646,522.872150737576,0.766342019182077,0.0,0.878648,0.036649,0.052764,32,2,3,4529,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3283,'32RG204',3878.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.55114166955491,-0.551141668507629,-1.09083078249646,523.026816529691,0.766398876464573,0.0,0.878648,0.036649,0.052764,32,2,4,4530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3284,'32RG205',3879.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.545563674418884,-0.545563673371603,-1.09083078249646,523.182011719034,0.766455911389108,0.0,0.878648,0.036649,0.052764,32,2,5,4531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3285,'32RG206',3880.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.54022032656252,-0.540220325515239,-1.09083078249646,523.337709585407,0.766513113805469,0.0,0.878648,0.036649,0.052764,32,2,6,4532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3286,'32RG207',3881.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.535112253685179,-0.535112252637898,-1.09083078249646,523.493883919844,0.766570473769395,0.0,0.878648,0.036649,0.052764,32,2,7,4533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3287,'32RG208',3882.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.530240042741157,-0.530240041693876,-1.09083078249646,523.650509008277,0.766627981536476,0.0,0.878648,0.036649,0.052764,32,2,8,4534,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3288,'32RG209',3883.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.525604240773839,-0.525604239726558,-1.09083078249646,523.807559614318,0.766685627555717,0.0,0.878648,0.036649,0.052764,32,2,9,4535,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3289,'32RG210',3884.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.521205355722374,-0.521205354675093,-1.09083078249646,523.965010961207,0.766743402462792,0.0,0.878648,0.036649,0.052764,32,2,10,4536,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3290,'32RG211',3885.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.517043857199633,-0.517043856152352,-1.09083078249646,524.122838712978,0.766801297073013,0.0,0.878648,0.036649,0.052764,32,2,11,4537,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3291,'32RG212',3886.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.513120177239928,-0.513120176192647,-1.09083078249646,524.281018954882,0.766859302374018,0.0,0.878648,0.036649,0.052764,32,2,12,4538,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3292,'32RG213',3887.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.509434711016107,-0.509434709968826,-1.09083078249646,524.439528173134,0.766917409518222,0.0,0.878648,0.036649,0.052764,32,2,13,4539,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3293,'32RG214',3888.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.50598781752423,-0.505987816476949,-1.09083078249646,524.598343234017,0.76697560981502,0.0,0.878648,0.036649,0.052764,32,2,14,4540,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3294,'32RG215',3889.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.502779820235781,-0.5027798191885,-1.09083078249646,524.757441362383,0.767033894722786,0.0,0.878648,0.036649,0.052764,32,2,15,4541,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3295,'32RG216',3890.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.499811007715992,-0.499811006668711,-1.09083078249646,524.916800119629,0.767092255840672,0.0,0.878648,0.036649,0.052764,32,2,16,4542,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3296,'32RG217',3891.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.497081634207584,-0.497081633160303,-1.09083078249646,525.076397381148,0.767150684900228,0.0,0.878648,0.036649,0.052764,32,2,17,4543,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3297,'32RG218',3892.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.494591920179717,-0.494591919132436,-1.09083078249646,525.236211313339,0.767209173756862,0.0,0.878648,0.036649,0.052764,32,2,18,4544,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3298,'32RG219',3893.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.492342052840962,-0.492342051793681,-1.09083078249646,525.396220350202,0.767267714381156,0.0,0.878648,0.036649,0.052764,32,2,19,4545,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3299,'32RG220',3894.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.490332186616116,-0.490332185568835,-1.09083078249646,525.556403169553,0.767326298850047,0.0,0.878648,0.036649,0.052764,32,2,20,4546,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3300,'32RG221',3895.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.488562443586355,-0.488562442539074,-1.09083078249646,525.716738668925,0.767384919337914,0.0,0.878648,0.036649,0.052764,32,2,21,4547,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3301,'32RG222',3896.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.487032913892195,-0.487032912844914,-1.09083078249646,525.877205941171,0.767443568107544,0.0,0.878648,0.036649,0.052764,32,2,22,4548,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3302,'32RG223',3897.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.485743656099083,-0.485743655051802,-1.09083078249646,526.037784249831,0.767502237501045,0.0,0.878648,0.036649,0.052764,32,2,23,4549,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3303,'32RG224',3898.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.484694697525286,-0.484694696478005,-1.09083078249646,526.198453004293,0.767560919930673,0.0,0.878648,0.036649,0.052764,32,2,24,4550,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3304,'32RG225',3899.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.483886034531915,-0.483886033484634,-1.09083078249646,526.359191734782,0.767619607869623,0.0,0.878648,0.036649,0.052764,32,2,25,4551,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3305,'32RG226',3900.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.483317632774886,-0.483317631727605,-1.09083078249646,526.519980067236,0.767678293842779,0.0,0.878648,0.036649,0.052764,32,2,26,4552,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3306,'32RG227',3901.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.48298942741871,-0.482989426371429,-1.09083078249646,526.68079769809,0.767736970417447,0.0,0.878648,0.036649,0.052764,32,2,27,4553,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3307,'32RG228',3902.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.482901323312193,-0.482901322264912,-1.09083078249646,526.841624369013,0.767795630194081,0.0,0.878648,0.036649,0.052764,32,2,28,4554,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3308,'32RG229',3903.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.483053195126112,-0.483053194078831,-1.09083078249646,527.00243984164,0.767854265797017,0.0,0.878648,0.036649,0.052764,32,2,29,4555,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3309,'32RG230',3904.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.483444887452863,-0.483444886405582,-1.09083078249646,527.163223872332,0.767912869865232,0.0,0.878648,0.036649,0.052764,32,2,30,4556,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3310,'32RG231',3905.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.484076214868162,-0.484076213820881,-1.09083078249646,527.323956187003,0.767971435043139,0.0,0.878648,0.036649,0.052764,32,2,31,4557,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3311,'32RG232',3906.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.484946961955289,-0.484946960908008,-1.09083078249646,527.48461645606,0.76802995397143,0.0,0.878648,0.036649,0.052764,32,2,32,4558,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3312,'32RG233',3907.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.486056883291761,-0.48605688224448,-1.09083078249646,527.645184269474,0.768088419277987,0.0,0.878648,0.036649,0.052764,32,2,33,4559,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3313,'32RG234',3908.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.487405703399163,-0.487405702351882,-1.09083078249646,527.805639112047,0.768146823568864,0.0,0.878648,0.036649,0.052764,32,2,34,4560,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3314,'32RG235',3909.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.488993116656269,-0.488993115608988,-1.09083078249646,527.965960338891,0.768205159419369,0.0,0.878648,0.036649,0.052764,32,2,35,4561,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3315,'32RG236',3910.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.490818787175657,-0.490818786128376,-1.09083078249646,528.126127151164,0.768263419365244,0.0,0.878648,0.036649,0.052764,32,2,36,4562,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3316,'32RG237',3911.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.492882348645176,-0.492882347597895,-1.09083078249646,528.286118572102,0.768321595893961,0.0,0.878648,0.036649,0.052764,32,2,37,4563,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3317,'32RG238',3912.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.495183404133401,-0.49518340308612,-1.09083078249646,528.445913423391,0.768379681436157,0.0,0.878648,0.036649,0.052764,32,2,38,4564,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3318,'32RG239',3913.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.497721525861203,-0.497721524813922,-1.09083078249646,528.605490301903,0.768437668357207,0.0,0.878648,0.036649,0.052764,32,2,39,4565,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3319,'32RG240',3914.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.500496254938911,-0.50049625389163,-1.09083078249646,528.764827556845,0.768495548948957,0.0,0.878648,0.036649,0.052764,32,2,40,4566,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3320,'32RG241',3915.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.50350710107015,-0.503507100022869,-
1.09083078249646,528.923903267364,0.768855315421627,0.0,0.878648,0.036649,0.052764,32,2,41,4567,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3321,'32RG242',3916.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.506753542223664,-0.506753541176383,-
1.09083078249646,529.082695220631,0.768610959895903,0.0,0.878648,0.036649,0.052764,32,2,42,4568,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3322,'32RG243',3917.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.510235024272669,-0.510235023225388,-
1.09083078249646,529.241180890464,0.768668474395221,0.0,0.878648,0.036649,0.052764,32,2,43,4569,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3323,'32RG244',3918.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.513950960603965,-0.513950959556684,-
1.09083078249646,529.399337416509,0.768725850838269,0.0,0.878648,0.036649,0.052764,32,2,44,4570,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3324,'32RG245',3919.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.517900731696764,-0.517900730649483,-
1.09083078249646,529.557141584044,0.768783081031712,0.0,0.878648,0.036649,0.052764,32,2,45,4571,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3325,'32RG246',3920.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.522083684672909,-0.522083683625628,-
1.09083078249646,529.714569804417,0.768840156663152,0.0,0.878648,0.036649,0.052764,32,2,46,4572,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3326,'32RG247',3921.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.526499132818594,-0.526499131771313,-
1.09083078249646,529.871598096188,0.76889706929435,0.0,0.878648,0.036649,0.052764,32,2,47,4573,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3327,'32RG248',3922.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.531146355079487,-0.531146354032206,-
1.09083078249646,530.028202066994,0.768953810354706,0.0,0.878648,0.036649,0.052764,32,2,48,4574,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3328,'32RG249',3923.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.536024595530316,-0.536024594483035,-
1.09083078249646,530.184356896197,0.769010371135028,0.0,0.878648,0.036649,0.052764,32,2,49,4575,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3329,'32RG250',3924.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.541133062819399,-0.541133061772118,-
1.09083078249646,530.340037318337,0.769066742781584,0.0,0.878648,0.036649,0.052764,32,2,50,4576,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3330,'32RG251',3925.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.546470929590549,-0.546470928543268,-
1.09083078249646,530.495217607456,0.769122916290479,0.0,0.878648,0.036649,0.052764,32,2,51,4577,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3331,'32RG252',3926.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.552037331882177,-0.552037330834896,-
1.09083078249646,530.649871562312,0.769178882502339,0.0,0.878648,0.036649,0.052764,32,2,52,4578,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3332,'32RG253',3927.0,805.0,0.142966603774,1.445596635929,1.445596635929,0.0,1.44559663508026,-0.557831368506052,-0.557831367458771,-
1.09083078249646,530.803972492543,0.769234632097337,0.0,0.878648,0.036649,0.052764,32,2,53,4579,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3333,'33RG101',3937.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.57835463221935,-0.57835463123407,-
0.994837673636768,530.956563505928,0.769289987818729,0.0,0.878774,0.036615,0.052772,33,1,1,4595,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3334,'33RG102',3938.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.572872987251989,-0.572872986266709,-
0.994837673636768,531.109699707398,0.76934514821387,0.0,0.878774,0.036615,0.052772,33,1,2,4596,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3335,'33RG103',3939.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.567617434852663,-0.567617433867383,-
0.994837673636768,531.263354363343,0.76940047925025,0.0,0.878774,0.036615,0.052772,33,1,3,4597,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3336,'33RG104',3940.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.562588616306416,-0.562588615321136,-
0.994837673636768,531.417501209353,0.769455971165303,0.0,0.878774,0.036615,0.052772,33,1,4,4598,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3337,'33RG105',3941.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.557787133015224,-0.557787132029944,-
0.994837673636768,531.572114436041,0.769511614377254,0.0,0.878774,0.036615,0.052772,33,1,5,4599,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3338,'33RG106',3942.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.553213547251611,-0.553213546266331,-
0.994837673636768,531.72716867403,0.769567399479641,0.0,0.878774,0.036615,0.052772,33,1,6,4600,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3339,'33RG107',3943.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.548868382888822,-0.548868381903542,-
0.994837673636768,531.882638978124,0.769623317235537,0.0,0.878774,0.036615,0.052772,33,1,7,4601,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3340,'33RG108',3944.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.544752126106263,-0.544752125120983,-
0.994837673636768,532.038500810746,0.769679358571504,0.0,0.878774,0.036615,0.052772,33,1,8,4602,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3341,'33RG109',3945.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.540865226069423,-0.540865225084143,-
0.994837673636768,532.194730024644,0.769735514571282,0.0,0.878774,0.036615,0.052772,33,1,9,4603,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3342,'33RG110',3946.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.537208095582872,-0.537208094597592,-
0.994837673636768,532.351302844953,0.769791776469241,0.0,0.878774,0.036615,0.052772,33,1,10,4604,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3343,'33RG111',3947.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.533781111715821,-0.533781110730541,-
0.994837673636768,532.508195850621,0.769848135643613,0.0,0.878774,0.036615,0.052772,33,1,11,4605,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3344,'33RG112',3948.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.530584616399013,-0.530584615413733,-
0.994837673636768,532.665385955263,0.76990458360951,0.0,0.878774,0.036615,0.052772,33,1,12,4606,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3345,'33RG113',3949.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.527618916992419,-0.527618916007139,-
0.994837673636768,532.82285038748,0.769961112011758,0.0,0.878774,0.036615,0.052772,33,1,13,4607,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3346,'33RG114',3950.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.524884286822884,-0.524884285837604,-
0.994837673636768,532.980566670686,0.770017712617556,0.0,0.878774,0.036615,0.052772,33,1,14,4608,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3347,'33RG115',3951.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.522380965691037,-0.522380964705757,-
0.994837673636768,533.13851260248,0.770074377308973,0.0,0.878774,0.036615,0.052772,33,1,15,4609,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3348,'33RG116',3952.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.520109160346979,-0.520109159361699,-
0.994837673636768,533.296666233615,0.770131098075308,0.0,0.878774,0.036615,0.052772,33,1,16,4610,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3349,'33RG117',3953.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.518069044934232,-0.518069043948952,-
0.994837673636768,533.455005846587,0.770187867005319,0.0,0.878774,0.036615,0.052772,33,1,17,4611,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3350,'33RG118',3954.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.516260761401258,-0.516260760415978,-
0.994837673636768,533.613509933907,0.770244676279339,0.0,0.878774,0.036615,0.052772,33,1,18,4612,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3351,'33RG119',3955.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.514684419880406,-0.514684418895126,-
0.994837673636768,533.772157176072,0.770301518161301,0.0,0.878774,0.036615,0.052772,33,1,19,4613,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3352,'33RG120',3956.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.513340099033843,-0.513340098048563,-
0.994837673636768,533.93092641929,0.770358384990671,0.0,0.878774,0.036615,0.052772,33,1,20,4614,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3353,'33RG121',3957.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.512227846366211,-0.512227845380931,-
0.994837673636768,534.08979665299,0.770415269174319,0.0,0.878774,0.036615,0.052772,33,1,21,4615,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3354,'33RG122',3958.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.511347678503585,-0.511347677518305,-
0.994837673636768,534.248746987162,0.770472163178336,0.0,0.878774,0.036615,0.052772,33,1,22,4616,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3355,'33RG123',3959.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.510699581438994,-0.510699580453714,-
0.994837673636768,534.407756629551,0.770529059519805,0.0,0.878774,0.036615,0.052772,33,1,23,4617,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3356,'33RG124',3960.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.510283510744076,-0.510283509758796,-
0.994837673636768,534.566804862762,0.77058595075855,0.0,0.878774,0.036615,0.052772,33,1,24,4618,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3357,'33RG125',3961.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.510099391746588,-0.510099390761308,-
0.994837673636768,534.72587102129,0.77064282948887,0.0,0.878774,0.036615,0.052772,33,1,25,4619,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3358,'33RG126',3962.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.510147119674502,-0.510147118689222,-
0.994837673636768,534.884934468536,0.77069968833127,0.0,0.878774,0.036615,0.052772,33,1,26,4620,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3359,'33RG127',3963.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.510426559765998,-0.510426558780718,-
0.994837673636768,535.043974573823,0.77075651994211,0.0,0.878774,0.036615,0.052772,33,1,27,4621,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3360,'33RG128',3964.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.510937547345835,-0.510937546360555,-
0.994837673636768,535.202970689463,0.770813316915883,0.0,0.878774,0.036615,0.052772,33,1,28,4622,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3361,'33RG129',3965.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.511679887868207,-0.511679886882927,-
0.994837673636768,535.361902127909,0.77087007195601,0.0,0.878774,0.036615,0.052772,33,1,29,4623,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3362,'33RG130',3966.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.512653356926324,-0.512653355941044,-
0.994837673636768,535.520748139017,0.77092677768772,0.0,0.878774,0.036615,0.052772,33,1,30,4624,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3363,'33RG131',3967.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.513857700228736,-0.513857699243456,-0.994837673636768,535.679487887472,0.770983426739468,0.0,0.878774,0.036615,0.052772,33,1,31,4625,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3364,'33RG132',3968.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.515292633543086,-0.515292632557806,-0.994837673636768,535.838100430398,0.771040011717041,0.0,0.878774,0.036615,0.052772,33,1,32,4626,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3365,'33RG133',3969.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.516957842607492,-0.516957841622212,-0.994837673636768,535.996564695197,0.771096525195649,0.0,0.878774,0.036615,0.052772,33,1,33,4627,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3366,'33RG134',3970.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.518852983009753,-0.518852982024473,-0.994837673636768,536.154859457646,0.771152959712122,0.0,0.878774,0.036615,0.052772,33,1,34,4628,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3367,'33RG135',3971.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.520977680035211,-0.520977679049931,-0.994837673636768,536.3129633203,0.771209307757218,0.0,0.878774,0.036615,0.052772,33,1,35,4629,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3368,'33RG136',3972.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.523331528483711,-0.523331527498431,-0.994837673636768,536.470854691218,0.771265561768058,0.0,0.878774,0.036615,0.052772,33,1,36,4630,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3369,'33RG137',3973.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.525914092455845,-0.525914091470565,-0.994837673636768,536.628511763073,0.771321714120699,0.0,0.878774,0.036615,0.052772,33,1,37,4631,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3370,'33RG138',3974.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.528724905109629,-0.528724904124349,-0.994837673636768,536.785912492653,0.771377757122862,0.0,0.878774,0.036615,0.052772,33,1,38,4632,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3371,'33RG139',3975.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.531763468387775,-0.531763467402495,-0.994837673636768,536.943034580825,0.771433683006819,0.0,0.878774,0.036615,0.052772,33,1,39,4633,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3372,'33RG140',3976.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.535029252716898,-0.535029251731618,-0.994837673636768,537.09985545296,0.771489483922458,0.0,0.878774,0.036615,0.052772,33,1,40,4634,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3373,'33RG141',3977.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.538521696678681,-0.538521695693401,-0.994837673636768,537.256352239891,0.771545151930537,0.0,0.878774,0.036615,0.052772,33,1,41,4635,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3374,'33RG142',3978.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.54224020665423,-0.54224020566895,-0.994837673636768,537.412501759416,0.771600678996142,0.0,0.878774,0.036615,0.052772,33,1,42,4636,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3375,'33RG143',3979.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.54618415644246,-0.54618415545718,-0.994837673636768,537.5682804984,0.771656056982347,0.0,0.878774,0.036615,0.052772,33,1,43,4637,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3376,'33RG144',3980.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.55035288685369,-0.55035288586841,-0.994837673636768,537.723664595506,0.771711277644116,0.0,0.878774,0.036615,0.052772,33,1,44,4638,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3377,'33RG145',3981.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.554745705278317,-0.554745704293037,-0.994837673636768,537.878629824589,0.771766332622429,0.0,0.878774,0.036615,0.052772,33,1,45,4639,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3378,'33RG146',3982.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.559361885233232,-0.559361884247952,-0.994837673636768,538.033151578807,0.771821213438668,0.0,0.878774,0.036615,0.052772,33,1,46,4640,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3379,'33RG147',3983.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.564200665885304,-0.564200664900024,-0.994837673636768,538.187204855468,0.771875911489262,0.0,0.878774,0.036615,0.052772,33,1,47,4641,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3380,'33RG148',3984.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.569261251554738,-0.569261250569458,-0.994837673636768,538.340764241665,0.77193041804061,0.0,0.878774,0.036615,0.052772,33,1,48,4642,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3381,'33RG149',3985.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.574542811197797,-0.574542810212517,-0.994837673636768,538.493803900731,0.771984724224289,0.0,0.878774,0.036615,0.052772,33,1,49,4643,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3382,'33RG150',3986.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.580044477871399,-0.580044476886119,-0.994837673636768,538.646297559561,0.77203882103257,0.0,0.878774,0.036615,0.052772,33,1,50,4644,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3383,'33RG151',3987.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.585765348180028,-0.585765347194748,-0.994837673636768,538.798218496824,0.772092699314239,0.0,0.878774,0.036615,0.052772,33,1,51,4645,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3384,'33RG152',3988.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.591704481707185,-0.591704480721905,-0.994837673636768,538.94953953212,0.772146349770748,0.0,0.878774,0.036615,0.052772,33,1,52,4646,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3385,'33RG153',3989.0,805.0,0.143501320755,1.44538936400684,1.44538936400684,0.0,1.44538936315822,-0.597860900430926,-0.597860899445646,-0.994837673636768,539.100233016117,0.772199762952707,0.0,0.878774,0.036615,0.052772,33,1,53,4647,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3386,'33RG201',3998.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.581391335941666,-0.581391334888206,-0.994837673636768,539.253157343996,0.772253439468852,0.0,0.878897,0.036583,0.052781,33,2,1,4655,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3387,'33RG202',3999.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.574727757037464,-0.574727755984004,-0.994837673636768,539.406749335286,0.772307607859556,0.0,0.878897,0.036583,0.052781,33,2,2,4656,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3388,'33RG203',4000.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.568285545200013,-0.568285544146553,-0.994837673636768,539.560980390281,0.772361986408301,0.0,0.878897,0.036583,0.052781,33,2,3,4657,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3389,'33RG204',4001.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.562065501079803,-0.562065500026343,-0.994837673636768,539.715822462171,0.772416564860402,0.0,0.878897,0.036583,0.052781,33,2,4,4658,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3390,'33RG205',4002.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.556068383555401,-0.556068382501941,-0.994837673636768,539.871248046896,0.772471333169127,0.0,0.878897,0.036583,0.052781,33,2,5,4659,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3391,'33RG206',4003.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.550294910598579,-0.550294909545119,-0.994837673636768,540.027730171947,0.772526281491689,0.0,0.878897,0.036583,0.052781,33,2,6,4660,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3392,'33RG207',4004.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.54474576012189,-0.54474575906843,-0.994837673636768,540.183742384169,0.772581400184875,0.0,0.878897,0.036583,0.052781,33,2,7,4661,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3393,'33RG208',4005.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.539421570807276,-0.539421569753816,-0.994837673636768,540.340758736602,0.772636679800331,0.0,0.878897,0.036583,0.052781,33,2,8,4662,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3394,'33RG209',4006.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.534322942914307,-0.534322941860847,-0.994837673636768,540.498253774414,0.772692111079515,0.0,0.878897,0.036583,0.052781,33,2,9,4663,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3395,'33RG210',4007.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.529450439066635,-0.529450438013175,-0.994837673636768,540.656202519969,0.772747684948343,0.0,0.878897,0.036583,0.052781,33,2,10,4664,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3396,'33RG211',4008.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.524804585015764,-0.524804583962304,-0.994837673636768,540.814580457073,0.772803392511539,0.0,0.878897,0.036583,0.052781,33,2,11,4665,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3397,'33RG212',4009.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.520385870380606,-0.520385869327146,-0.994837673636768,540.973363514451,0.772859225046713,0.0,0.878897,0.036583,0.052781,33,2,12,4666,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3398,'33RG213',4010.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.516194749362006,-0.516194748308546,-0.994837673636768,541.132528048492,0.772915173998176,0.0,0.878897,0.036583,0.052781,33,2,13,4667,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3399,'33RG214',4011.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.51223164143107,-0.51223164037761,-0.994837673636768,541.292050825305,0.772971230970513,0.0,0.878897,0.036583,0.052781,33,2,14,4668,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3400,'33RG215',4012.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.508496931990513,-0.508496930937053,-0.994837673636768,541.451909002136,0.773027387721937,0.0,0.878897,0.036583,0.052781,33,2,15,4669,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3401,'33RG216',4013.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.504990973008005,-0.504990971954545,-0.994837673636768,541.612080108182,0.773083636157422,0.0,0.878897,0.036583,0.052781,33,2,16,4670,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3402,'33RG217',4014.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.501714083620732,-0.501714082567272,-0.994837673636768,541.772542024853,0.773139968321651,0.0,0.878897,0.036583,0.052781,33,2,17,4671,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3403,'33RG218',4015.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.498666550710594,-0.498666549657134,-0.994837673636768,541.933272965504,0.773196376391785,0.0,0.878897,0.036583,0.052781,33,2,18,4672,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3404,'33RG219',4016.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.495848629449205,-0.495848628395745,-0.994837673636768,542.094251454707,0.773252852670064,0.0,0.878897,0.036583,0.052781,33,2,19,4673,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3405,'33RG220',4017.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.493260543811984,-0.493260542758524,-0.994837673636768,542.25545630707,0.773309389576265,0.0,0.878897,0.036583,0.052781,33,2,20,4674,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3406,'33RG221',4018.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.490902487061212,-0.490902486007752,-0.994837673636768,542.416866605671,0.773365979640023,0.0,0.878897,0.036583,0.052781,33,2,21,4675,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3407,'33RG222',4019.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.488774622196912,-0.488774621143452,-0.994837673636768,542.578461680128,0.773422615493034,0.0,0.878897,0.036583,0.052781,33,2,22,4676,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3408,'33RG223',4020.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.486877082375889,-0.486877081322429,-0.994837673636768,542.740221084344,0.773479289861157,0.0,0.878897,0.036583,0.052781,33,2,23,4677,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3409,'33RG224',4021.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.485209971297819,-0.485209970244359,-0.994837673636768,542.902124573978,0.773535995556414,0.0,0.878897,0.036583,0.052781,33,2,24,4678,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3410,'33RG225',4022.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.48377336355866,-0.4837733625052,-0.994837673636768,543.06415208366,0.773592725468924,0.0,0.878897,0.036583,0.052781,33,2,25,4679,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3411,'33RG226',4023.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.482567304970486,-0.482567303917026,-0.994837673636768,543.226283704001,0.773649472558765,0.0,0.878897,0.036583,0.052781,33,2,26,4680,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3412,'33RG227',4024.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.481591812848541,-0.481591811795081,-0.994837673636768,543.388499658426,0.773706229847784,0.0,0.878897,0.036583,0.052781,33,2,27,4681,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3413,'33RG228',4025.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.480846876263966,-0.480846875210506,-0.994837673636768,543.550780279869,0.773762990411375,0.0,0.878897,0.036583,0.052781,33,2,28,4682,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3414,'33RG229',4026.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.480332456263588,-0.480332455210128,-0.994837673636768,543.713105987362,0.773819747370222,0.0,0.878897,0.036583,0.052781,33,2,29,4683,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3415,'33RG230',4027.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.480048486055337,-0.480048485001877,-0.994837673636768,543.875457262559,0.773876493882034,0.0,0.878897,0.036583,0.052781,33,2,30,4684,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3416,'33RG231',4028.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.479994871160477,-0.479994870107017,-0.994837673636768,544.037814626214,0.773933223133273,0.0,0.878897,0.036583,0.052781,33,2,31,4685,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3417,'33RG232',4029.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.480171489531755,-0.480171488478295,-0.994837673636768,544.200158614672,0.773989928330898,0.0,0.878897,0.036583,0.052781,33,2,32,4686,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3418,'33RG233',4030.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.480578191638122,-0.480578190584662,-0.994837673636768,544.362469756381,0.774046602694127,0.0,0.878897,0.036583,0.052781,33,2,33,4687,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3419,'33RG234',4031.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.481214800516155,-0.481214799462695,-0.994837673636768,544.524728548475,0.774103239446231,0.0,0.878897,0.036583,0.052781,33,2,34,4688,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3420,'33RG235',4032.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.482081111787869,-0.482081110734409,-0.994837673636768,544.686915433458,0.774159831806383,0.0,0.878897,0.036583,0.052781,33,2,35,4689,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3421,'33RG236',4033.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.483176893645718,-0.483176892592258,-0.994837673636768,544.849010776015,0.774216372981549,0.0,0.878897,0.036583,0.052781,33,2,36,4690,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3422,'33RG237',4034.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.484501886804927,-0.484501885751467,-0.994837673636768,545.010994840001,0.77427285615846,0.0,0.878897,0.036583,0.052781,33,2,37,4691,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3423,'33RG238',4035.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.486055804423172,-0.486055803369712,-0.994837673636768,545.172847765617,0.774329274495659,0.0,0.878897,0.036583,0.052781,33,2,38,4692,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3424,'33RG239',4036.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.487838331988576,-0.487838330935116,-0.994837673636768,545.334549546829,0.77438562111564,0.0,0.878897,0.036583,0.052781,33,2,39,4693,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3425,'33RG240',4037.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.489849127175516,-0.489849126122056,-0.994837673636768,545.496080009054,0.774441889097087,0.0,0.878897,0.036583,0.052781,33,2,40,4694,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3426,'33RG241',4038.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.492087819669811,-0.492087818616351,-0.994837673636768,545.657418787141,0.774498071467233,0.0,0.878897,0.036583,0.052781,33,2,41,4695,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3427,'33RG242',4039.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.494554010963169,-0.494554009909709,-0.994837673636768,545.818545303695,0.774554161194335,0.0,0.878897,0.036583,0.052781,33,2,42,4696,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3428,'33RG243',4040.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.497247274117092,-0.497247273063632,-0.994837673636768,545.979438747766,0.774610151180295,0.0,0.878897,0.036583,0.052781,33,2,43,4697,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3429,'33RG244',4041.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.500167153497783,-0.500167152444323,-0.994837673636768,546.140078053946,0.774666034253428,0.0,0.878897,0.036583,0.052781,33,2,44,4698,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3430,'33RG245',4042.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.503313164482242,-0.503313163428782,-0.994837673636768,546.300441881899,0.774721803161378,0.0,0.878897,0.036583,0.052781,33,2,45,4699,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3431,'33RG246',4043.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.506684793135533,-0.506684792082073,-0.994837673636768,546.460508596375,0.77477745056422,0.0,0.878897,0.036583,0.052781,33,2,46,4700,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3432,'33RG247',4044.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.51028149586154,-0.51028149480808,-0.994837673636768,546.620256247721,0.774832969027739,0.0,0.878897,0.036583,0.052781,33,2,47,4701,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3433,'33RG248',4045.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.514102699025982,-0.514102697972522,-0.994837673636768,546.77966255295,0.774888351016896,0.0,0.878897,0.036583,0.052781,33,2,48,4702,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3434,'33RG249',4046.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.518147798555097,-0.518147797501637,-0.994837673636768,546.938704877381,0.774943588889512,0.0,0.878897,0.036583,0.052781,33,2,49,4703,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3435,'33RG250',4047.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.522416159507613,-0.522416158454153,-0.994837673636768,547.097360216905,0.774998674890157,0.0,0.878897,0.036583,0.052781,33,2,50,4704,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3436,'33RG251',4048.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.526907115624204,-0.526907114570744,-0.994837673636768,547.255605180898,0.77505360114428,0.0,0.878897,0.036583,0.052781,33,2,51,4705,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3437,'33RG252',4049.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.531619968853021,-0.531619967799561,-0.994837673636768,547.413415975833,0.77510835965257,0.0,0.878897,0.036583,0.052781,33,2,52,4706,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3438,'33RG253',4050.0,805.0,0.144108113208,1.44518708445443,1.44518708445443,0.0,1.44518708360593,-0.536553988853334,-0.536553987799874,-0.994837673636768,547.570768389615,0.775162942285574,0.0,0.878897,0.036583,0.052781,33,2,53,4707,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3439,'34RG101',4060.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.460467848824447,-0.460467847644836,-0.750491578357562,547.735202221796,0.775218650085713,0.0,0.879012,0.036552,0.05279,34,1,1,4721,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3440,'34RG102',4061.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.456582353753731,-0.45658235257412,-0.750491578357562,547.899953308528,0.775275615899216,0.0,0.879012,0.036552,0.05279,34,1,2,4722,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3441,'34RG103',4062.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.452928224394029,-0.452928223214418,-0.750491578357562,548.065000591225,0.775332664711399,0.0,0.879012,0.036552,0.05279,34,1,3,4723,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3442,'34RG104',4063.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.449505744028574,-0.449505742848963,-0.750491578357562,548.230323402191,0.775389789193028,0.0,0.879012,0.036552,0.05279,34,1,4,4724,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3443,'34RG105',4064.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.446315166354058,-0.446315165174447,-0.750491578357562,548.3959014425,0.775446982157798,0.0,0.879012,0.036552,0.05279,34,1,5,4725,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3444,'34RG106',4065.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.443356716063846,-0.443356714884235,-0.750491578357562,548.561714759408,0.775504236554375,0.0,0.879012,0.036552,0.05279,34,1,6,4726,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3445,'34RG107',4066.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.440630589398218,-0.440630588218607,-0.750491578357562,548.727743723355,0.7755615454583,0.0,0.879012,0.036552,0.05279,34,1,7,4727,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3446,'34RG108',4067.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.438136954661147,-0.438136953481536,-0.750491578357562,548.893969004569,0.77561890206377,0.0,0.879012,0.036552,0.05279,34,1,8,4728,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3447,'34RG109',4068.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.435875952703107,-0.435875951523496,-0.750491578357562,549.060371549331,0.775676299675306,0.0,0.879012,0.036552,0.05279,34,1,9,4729,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3448,'34RG110',4069.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.433847697369515,-0.433847696189904,-0.750491578357562,549.226932555932,0.775733731699328,0.0,0.879012,0.036552,0.05279,34,1,10,4730,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3449,'34RG111',4070.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.43205227591455,-0.432052274734939,-0.750491578357562,549.393633450346,0.775791191635643,0.0,0.879012,0.036552,0.05279,34,1,11,4731,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3450,'34RG112',4071.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.430489749380015,-0.430489748200404,-0.750491578357562,549.56045586167,0.775848673068861,0.0,0.879012,0.036552,0.05279,34,1,12,4732,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3451,'34RG113',4072.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.429160152938955,-0.429160151759344,-0.750491578357562,549.727381597362,0.775906169659755,0.0,0.879012,0.036552,0.05279,34,1,13,4733,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3452,'34RG114',4073.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.428063496203904,-0.428063495024293,-0.750491578357562,549.8943926183,0.775963675136571,0.0,0.879012,0.036552,0.05279,34,1,14,4734,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3453,'34RG115',4074.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.427199763499722,-0.427199762320111,-0.750491578357562,550.061471013709,0.776021183286305,0.0,0.879012,0.036552,0.05279,34,1,15,4735,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3454,'34RG116',4075.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.426568914100684,-0.426568912921073,-0.750491578357562,550.228598975981,0.776078687945958,0.0,0.879012,0.036552,0.05279,34,1,16,4736,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3455,'34RG117',4076.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.426170882432011,-0.4261708812524,-0.750491578357562,550.39575877542,0.776136182993774,0.0,0.879012,0.036552,0.05279,34,1,17,4737,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3456,'34RG118',4077.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.426005578235731,-0.42600557705612,-0.750491578357562,550.562932734954,0.776193662340484,0.0,0.879012,0.036552,0.05279,34,1,18,4738,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3457,'34RG119',4078.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.426072886701057,-0.426072885521446,-0.750491578357562,550.73010320483,0.776251119920553,0.0,0.879012,0.036552,0.05279,34,1,19,4739,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3458,'34RG120',4079.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.426372668559068,-0.426372667379457,-0.750491578357562,550.897252537331,0.776308549683458,0.0,0.879012,0.036552,0.05279,34,1,20,4740,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3459,'34RG121',4080.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.426904760142328,-0.426904758962717,-0.750491578357562,551.064363061559,0.776365945584984,0.0,0.879012,0.036552,0.05279,34,1,21,4741,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3460,'34RG122',4081.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.427668973409027,-0.427668972229416,-0.750491578357562,551.231417058288,0.776423301578576,0.0,0.879012,0.036552,0.05279,34,1,22,4742,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3461,'34RG123',4082.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.428665095932494,-0.428665094752883,-0.750491578357562,551.398396734939,0.77648061160674,0.0,0.879012,0.036552,0.05279,34,1,23,4743,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3462,'34RG124',4083.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.42989289085564,-0.429892889676029,-0.750491578357562,551.565284200709,0.776537869592502,0.0,0.879012,0.036552,0.05279,34,1,24,4744,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3463,'34RG125',4084.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.431352096811601,-0.43135209563199,-0.750491578357562,551.732061441865,0.776595069430946,0.0,0.879012,0.036552,0.05279,34,1,25,4745,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3464,'34RG126',4085.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.43304242780971,-0.433042426630099,-0.750491578357562,551.898710297258,0.776652204980839,0.0,0.879012,0.036552,0.05279,34,1,26,4746,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3465,'34RG127',4086.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.43496357308836,-0.434963571908749,-0.750491578357562,552.065212434074,0.776709270056345,0.0,0.879012,0.036552,0.05279,34,1,27,4747,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3466,'34RG128',4087.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.437115196934414,-0.437115195754803,-0.750491578357562,552.231549323859,0.77676625841885,0.0,0.879012,0.036552,0.05279,34,1,28,4748,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3467,'34RG129',4088.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.439496938469979,-0.439496937290368,-0.750491578357562,552.397702218845,0.776823163768895,0.0,0.879012,0.036552,0.05279,34,1,29,4749,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3468,'34RG130',4089.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.442108411406963,-0.442108410227352,-0.750491578357562,552.563652128619,0.776879979738244,0.0,0.879012,0.036552,0.05279,34,1,30,4750,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3469,'34RG131',4090.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.444949203770015,-0.444949202590404,-0.750491578357562,552.729379797155,0.776936699882083,0.0,0.879012,0.036552,0.05279,34,1,31,4751,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3470,'34RG132',4091.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.448018877588353,-0.448018876408742,-0.750491578357562,552.894865680254,0.77699331767137,0.0,0.879012,0.036552,0.05279,34,1,32,4752,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3471,'34RG133',4092.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.451316968557229,-0.451316967377618,-0.750491578357562,553.060089923414,0.777049826485341,0.0,0.879012,0.036552,0.05279,34,1,33,4753,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3472,'34RG134',4093.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.454842985669842,-0.454842984490231,-0.750491578357562,553.225032340177,0.777106219604184,0.0,0.879012,0.036552,0.05279,34,1,34,4754,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3473,'34RG135',4094.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.458596410819773,-0.458596409640162,-0.750491578357562,553.389672390973,0.777162490201896,0.0,0.879012,0.036552,0.05279,34,1,35,4755,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3474,'34RG136',4095.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.46257669837594,-0.462576697196329,-0.750491578357562,553.55398916251,0.77721863133928,0.0,0.879012,0.036552,0.05279,34,1,36,4756,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3475,'34RG137',4096.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.46678327472933,-0.466783273549719,-0.750491578357562,553.717961347731,0.777274635957436,0.0,0.879012,0.036552,0.05279,34,1,37,4757,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3476,'34RG138',4097.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.471215537813919,-0.471215536634308,-0.750491578357562,553.881567226391,0.777330496870741,0.0,0.879012,0.036552,0.05279,34,1,38,4758,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3477,'34RG139',4098.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.475872856601335,-0.475872855421724,-0.750491578357562,554.044784646273,0.777386206761017,0.0,0.879012,0.036552,0.05279,34,1,39,4759,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3478,'34RG140',4099.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.480754570571278,-0.480754569391667,-0.750491578357562,554.207591005093,0.777441758171215,0.0,0.879012,0.036552,0.05279,34,1,40,4760,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3479,'34RG141',4100.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.485859989157952,-0.485859987978341,-0.750491578357562,554.369963233125,0.777497143499632,0.0,0.879012,0.036552,0.05279,34,1,41,4761,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3480,'34RG142',4101.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.491188391173949,-0.491188389994338,-0.750491578357562,554.531877776591,0.777552354994348,0.0,0.879012,0.036552,0.05279,34,1,42,4762,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3481,'34RG143',4102.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.496739024212324,-0.496739023032713,-0.750491578357562,554.693310581838,0.777607384747923,0.0,0.879012,0.036552,0.05279,34,1,43,4763,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3482,'34RG144',4103.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.502511104028727,-0.502511102849116,-0.750491578357562,554.854237080371,0.777662224692391,0.0,0.879012,0.036552,0.05279,34,1,44,4764,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3483,'34RG145',4104.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.508503813903566,-0.508503812723955,-0.750491578357562,555.014632174745,0.777716866594538,0.0,0.879012,0.036552,0.05279,34,1,45,4765,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3484,'34RG146',4105.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.514716303986745,-0.514716302807134,-0.750491578357562,555.174470225387,0.777771302051498,0.0,0.879012,0.036552,0.05279,34,1,46,4766,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3485,'34RG147',4106.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.521147690625035,-0.521147689445424,-0.750491578357562,555.333725038369,0.777825522486663,0.0,0.879012,0.036552,0.05279,34,1,47,4767,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3486,'34RG148',4107.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.527797055674497,-0.527797054494886,-0.750491578357562,555.492369854182,0.77787951914593,0.0,0.879012,0.036552,0.05279,34,1,48,4768,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3487,'34RG149',4108.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.534663445798181,-0.53466344461857,-0.750491578357562,555.650377337549,0.777933283094288,0.0,0.879012,0.036552,0.05279,34,1,49,4769,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3488,'34RG150',4109.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.541745871752056,-0.541745870572445,-0.750491578357562,555.80771956831,0.77798680521277,0.0,0.879012,0.036552,0.05279,34,1,50,4770,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3489,'34RG151',4110.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.549043307658614,-0.549043306479003,-0.750491578357562,555.964368033437,0.778040076195769,0.0,0.879012,0.036552,0.05279,34,1,51,4771,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3490,'34RG152',4111.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.55655469027154,-0.556554689091929,-0.750491578357562,556.120293620201,0.778093086548735,0.0,0.879012,0.036552,0.05279,34,1,52,4772,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3491,'34RG153',4112.0,805.0,0.144534150943,1.44499801250238,1.44499801250238,0.0,1.44499801165399,-0.564278918231857,-0.564278917052246,-0.750491578357562,556.275466610542,0.77814582658627,0.0,0.879012,0.036552,0.05279,34,1,53,4773,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3492,'34RG201',4121.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.571033369902603,-0.571033368851552,-0.750491578357562,556.430583585704,0.778198409592328,0.0,0.879131,0.036521,0.052798,34,2,1,4781,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3493,'34RG202',4122.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.564958446293419,-0.564958445242368,-0.750491578357562,556.586304439894,0.778251065476808,0.0,0.879131,0.036521,0.052798,34,2,2,4782,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3494,'34RG203',4123.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.559096965192996,-0.559096964141945,-0.750491578357562,556.742602571736,0.778303901363532,0.0,0.879131,0.036521,0.052798,34,2,3,4783,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3495,'34RG204',4124.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.553449603444149,-0.553449602393098,-0.750491578357562,556.899451879086,0.778356908115553,0.0,0.879131,0.036521,0.052798,34,2,4,4784,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3496,'34RG205',4125.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.548017000979693,-0.548016999928642,-0.750491578357562,557.056826747869,0.778410076776002,0.0,0.879131,0.036521,0.052798,34,2,5,4785,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3497,'34RG206',4126.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.542799761564359,-0.542799760513308,-0.750491578357562,557.21470204004,0.778463398563951,0.0,0.879131,0.036521,0.052798,34,2,6,4786,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3498,'34RG207',4127.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.537798453518944,-0.537798452467893,-0.750491578357562,557.373053080723,0.778516864869982,0.0,0.879131,0.036521,0.052798,34,2,7,4787,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3499,'34RG208',4128.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.533013610425647,-0.533013609374596,-0.750491578357562,557.531855644563,0.778570467251487,0.0,0.879131,0.036521,0.052798,34,2,8,4788,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3500,'34RG209',4129.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.528445731813404,-0.528445730762353,-0.750491578357562,557.691085941327,0.778624197427718,0.0,0.879131,0.036521,0.052798,34,2,9,4789,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3501,'34RG210',4130.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.52409528382241,-0.524095282771359,-0.750491578357562,557.850720600807,0.778678047274586,0.0,0.879131,0.036521,0.052798,34,2,10,4790,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3502,'34RG211',4131.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.519962699846614,-0.519962698795563,-0.750491578357562,558.010736657049,0.778732008819237,0.0,0.879131,0.036521,0.052798,34,2,11,4791,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3503,'34RG212',4132.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.516048381153715,-0.516048380102664,-0.750491578357562,558.171111531957,0.778786074234423,0.0,0.879131,0.036521,0.052798,34,2,12,4792,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3504,'34RG213',4133.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.512352697481331,-0.51235269643028,-0.750491578357562,558.33182301831,0.778840235832659,0.0,0.879131,0.036521,0.052798,34,2,13,4793,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3505,'34RG214',4134.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.508875987609079,-0.508875986558028,-0.750491578357562,558.492849262221,0.778894486060208,0.0,0.879131,0.036521,0.052798,34,2,14,4794,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3506,'34RG215',4135.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.505618559905413,-0.505618558854362,-0.750491578357562,558.654168745087,0.77894881749089,0.0,0.879131,0.036521,0.052798,34,2,15,4795,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3507,'34RG216',4136.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.502580692849028,-0.502580691797977,-0.750491578357562,558.815760265059,0.779003222819729,0.0,0.879131,0.036521,0.052798,34,2,16,4796,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3508,'34RG217',4137.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.499762635523707,-0.499762634472656,-0.750491578357562,558.977602918069,0.779057694856466,0.0,0.879131,0.036521,0.052798,34,2,17,4797,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3509,'34RG218',4138.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.497164608086626,-0.497164607035575,-0.750491578357562,559.139676078457,0.779112226518922,0.0,0.879131,0.036521,0.052798,34,2,18,4798,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3510,'34RG219',4139.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.494786802209118,-0.494786801158067,-0.750491578357562,559.301959379216,0.779166810826261,0.0,0.879131,0.036521,0.052798,34,2,19,4799,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3511,'34RG220',4140.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.492629381489854,-0.492629380438803,-0.750491578357562,559.464432691912,0.779221440892132,0.0,0.879131,0.036521,0.052798,34,2,20,4800,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3512,'34RG221',4141.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.490692481839799,-0.490692480788748,-0.750491578357562,559.627076106293,0.779276109917716,0.0,0.879131,0.036521,0.052798,34,2,21,4801,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3513,'34RG222',4142.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.488976211838738,-0.488976210787687,-0.750491578357562,559.78986990963,0.779330811184701,0.0,0.879131,0.036521,0.052798,34,2,22,4802,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3514,'34RG223',4143.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.487480653062916,-0.487480652011865,-0.750491578357562,559.952794565829,0.779385538048166,0.0,0.879131,0.036521,0.052798,34,2,23,4803,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3515,'34RG224',4144.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.486205860383825,-0.486205859332774,-0.750491578357562,560.115830694324,0.779440283929424,0.0,0.879131,0.036521,0.052798,34,2,24,4804,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3516,'34RG225',4145.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.485151862237642,-0.485151861186591,-0.750491578357562,560.278959048816,0.779495042308799,0.0,0.879131,0.036521,0.052798,34,2,25,4805,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3517,'34RG226',4146.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.484318660865389,-0.484318659814338,-0.750491578357562,560.442160495854,0.779549806718377,0.0,0.879131,0.036521,0.052798,34,2,26,4806,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3518,'34RG227',4147.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.483706232523515,-0.483706231472464,-0.750491578357562,560.605415993321,0.779604570734718,0.0,0.879131,0.036521,0.052798,34,2,27,4807,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3519,'34RG228',4148.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.483314527664964,-0.483314526613913,-0.750491578357562,560.768706568834,0.779659327971561,0.0,0.879131,0.036521,0.052798,34,2,28,4808,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3520,'34RG229',4149.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.483143471090697,-0.483143470039646,-0.750491578357562,560.9320132981,0.779714072072514,0.0,0.879131,0.036521,0.052798,34,2,29,4809,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3521,'34RG230',4150.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.483192962071447,-0.483192961020396,-0.750491578357562,561.095317283248,0.779768796703752,0.0,0.879131,0.036521,0.052798,34,2,30,4810,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3522,'34RG231',4151.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.483462874440489,-0.483462873389438,-0.750491578357562,561.258599631187,0.77982349554673,0.0,0.879131,0.036521,0.052798,34,2,31,4811,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3523,'34RG232',4152.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.483953056656281,-0.48395305560523,-0.750491578357562,561.421841431996,0.779878162290911,0.0,0.879131,0.036521,0.052798,34,2,32,4812,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3524,'34RG233',4153.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.484663331836428,-0.484663330785377,-0.750491578357562,561.585023737387,0.779932790626543,0.0,0.879131,0.036521,0.052798,34,2,33,4813,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3525,'34RG234',4154.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.485593497762315,-0.485593496711264,-0.750491578357562,561.748127539282,0.779987374237462,0.0,0.879131,0.036521,0.052798,34,2,34,4814,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3526,'34RG235',4155.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.486743326854834,-0.486743325803783,-0.750491578357562,561.91113374851,0.780041906793967,0.0,0.879131,0.036521,0.052798,34,2,35,4815,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3527,'34RG236',4156.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.488112566121606,-0.488112565070555,-0.750491578357562,562.074023173674,0.780096381945738,0.0,0.879131,0.036521,0.052798,34,2,36,4816,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3528,'34RG237',4157.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.489700937075837,-0.489700936024786,-0.750491578357562,562.236776500207,0.780150793314848,0.0,0.879131,0.036521,0.052798,34,2,37,4817,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3529,'34RG238',4158.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.491508135627347,-0.491508134576296,-0.750491578357562,562.399374269651,0.780205134488841,0.0,0.879131,0.036521,0.052798,34,2,38,4818,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3530,'34RG239',4159.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.493533831945611,-0.49353383089456,-0.750491578357562,562.561796859192,0.780259399013912,0.0,0.879131,0.036521,0.052798,34,2,39,4819,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3531,'34RG240',4160.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.495777670295956,-0.495777669244905,-0.750491578357562,562.72402446147,0.780313580388185,0.0,0.879131,0.036521,0.052798,34,2,40,4820,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3532,'34RG241',4161.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.498239268849089,-0.498239267798038,-0.750491578357562,562.886037064711,0.780367672055104,0.0,0.879131,0.036521,0.052798,34,2,41,4821,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3533,'34RG242',4162.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.500918219463975,-0.500918218412924,-0.750491578357562,563.047814433191,0.780421667396947,0.0,0.879131,0.036521,0.052798,34,2,42,4822,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3534,'34RG243',4163.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.503814087445234,-0.503814086394183,-0.750491578357562,563.209336088088,0.780475559728468,0.0,0.879131,0.036521,0.052798,34,2,43,4823,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3535,'34RG244',4164.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.506926411275492,-0.506926410224441,-0.750491578357562,563.370581288723,0.780529342290681,0.0,0.879131,0.036521,0.052798,34,2,44,4824,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3536,'34RG245',4165.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.510254702322923,-0.510254701271872,-0.750491578357562,563.531529014253,0.780583008244798,0.0,0.879131,0.036521,0.052798,34,2,45,4825,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3537,'34RG246',4166.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.513798444525227,-0.513798443474176,-0.750491578357562,563.692157945822,0.780636550666322,0.0,0.879131,0.036521,0.052798,34,2,46,4826,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3538,'34RG247',4167.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.517557094049591,-0.51755709299854,-0.750491578357562,563.852446449213,0.780689962539314,0.0,0.879131,0.036521,0.052798,34,2,47,4827,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3539,'34RG248',4168.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.521530078931397,-0.521530077880346,-0.750491578357562,564.012372558031,0.780743236750841,0.0,0.879131,0.036521,0.052798,34,2,48,4828,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3540,'34RG249',4169.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.525716798689841,-0.52571679763879,-0.750491578357562,564.171913957457,0.780796366085611,0.0,0.879131,0.036521,0.052798,34,2,49,4829,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3541,'34RG250',4170.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.530116623923609,-0.530116622872558,-0.750491578357562,564.331047968588,0.780849343220809,0.0,0.879131,0.036521,0.052798,34,2,50,4830,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3542,'34RG251',4171.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.534728895885747,-0.534728894834696,-0.750491578357562,564.489751533412,0.780902160721147,0.0,0.879131,0.036521,0.052798,34,2,51,4831,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3543,'34RG252',4172.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.539552926039766,-0.539552924988715,-0.750491578357562,564.648001200446,0.780954811034129,0.0,0.879131,0.036521,0.052798,34,2,52,4832,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3544,'34RG253',4173.0,805.0,0.145190188679,1.44480241621071,1.44480241621071,0.0,1.44480241536244,-0.544587995596997,-0.544587994545946,-0.750491578357562,564.805773111069,0.781007286485549,0.0,0.879131,0.036521,0.052798,34,2,53,4833,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3545,'35RG101',4183.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.541441563307356,-0.541441562182071,-0.602138591938044,564.964347462643,0.781059795759657,0.0,0.875086,0.037703,0.053468,35,1,1,4849,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3546,'35RG102',4184.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.535425560640393,-0.535425559515108,-0.602138591938044,565.123494107408,0.78112512999676,0.0,0.875086,0.037703,0.053468,35,1,2,4850,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3547,'35RG103',4185.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.529622434678407,-0.529622433553122,-0.602138591938044,565.283187403147,0.781165395536841,0.0,0.875086,0.037703,0.053468,35,1,3,4851,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3548,'35RG104',4186.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.524032801463674,-0.524032800338389,-0.602138591938044,565.443402222133,0.781218434751949,0.0,0.875086,0.037703,0.053468,35,1,4,4852,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3549,'35RG105',4187.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.518657242379108,-0.518657241253823,-0.602138591938044,565.604113938783,0.781271622206789,0.0,0.875086,0.037703,0.053468,35,1,5,4853,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3550,'35RG106',4188.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.513496304889318,-0.513496303764033,-0.602138591938044,565.765298416496,0.78132494963968,0.0,0.875086,0.037703,0.053468,35,1,6,4854,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3551,'35RG107',4189.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.508550503262763,-0.508550502137478,-0.602138591938044,565.926931993715,0.781378408960748,0.0,0.875086,0.037703,0.053468,35,1,7,4855,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3552,'35RG108',4190.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.503820319273901,-0.503820318148616,-0.602138591938044,566.088991469243,0.781431992246948,0.0,0.875086,0.037703,0.053468,35,1,8,4856,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3553,'35RG109',4191.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.499306202884421,-0.499306201759136,-0.602138591938044,566.251454086861,0.781485691736863,0.0,0.875086,0.037703,0.053468,35,1,9,4857,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3554,'35RG110',4192.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.495008572902679,-0.495008571777394,-0.602138591938044,566.414297519286,0.781539499825272,0.0,0.875086,0.037703,0.053468,35,1,10,4858,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3555,'35RG111',4193.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.490927817620355,-0.49092781649507,-0.602138591938044,566.577499851503,0.781593409057518,0.0,0.875086,0.037703,0.053468,35,1,11,4859,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3556,'35RG112',4194.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.487064295425727,-0.487064294300442,-0.602138591938044,566.741039563515,0.781647412123682,0.0,0.875086,0.037703,0.053468,35,1,12,4860,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3557,'35RG113',4195.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.483418335392694,-0.483418334267409,-0.602138591938044,566.904895512536,0.781701501852574,0.0,0.875086,0.037703,0.053468,35,1,13,4861,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3558,'35RG114',4196.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.479990237844876,-0.479990236719591,-0.602138591938044,567.069046914682,0.781755671205565,0.0,0.875086,0.037703,0.053468,35,1,14,4862,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3559,'35RG115',4197.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.47678027489429,-0.476780273769005,-0.602138591938044,567.233473326177,0.781809913270259,0.0,0.875086,0.037703,0.053468,35,1,15,4863,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3560,'35RG116',4198.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.473788690953713,-0.473788689828428,-0.602138591938044,567.398154624123,0.78186422125402,0.0,0.875086,0.037703,0.053468,35,1,16,4864,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3561,'35RG117',4199.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.471015703222714,-0.471015702097429,-0.602138591938044,567.563070986856,0.781918588477383,0.0,0.875086,0.037703,0.053468,35,1,17,4865,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3562,'35RG118',4200.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.468461502146257,-0.468461501020972,-0.602138591938044,567.728202873934,0.781973008367333,0.0,0.875086,0.037703,0.053468,35,1,18,4866,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3563,'35RG119',4201.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.466126251846044,-0.466126250720759,-0.602138591938044,567.893531005785,0.782027474450484,0.0,0.875086,0.037703,0.053468,35,1,19,4867,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3564,'35RG120',4202.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.464010090523759,-0.464010089398474,-0.602138591938044,568.059036343041,0.78208198034617,0.0,0.875086,0.037703,0.053468,35,1,20,4868,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3565,'35RG121',4203.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.462113130836082,-0.462113129710797,-0.602138591938044,568.224700065601,0.782136519759439,0.0,0.875086,0.037703,0.053468,35,1,21,4869,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3566,'35RG122',4204.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.460435460241273,-0.460435459115988,-0.602138591938044,568.390503551449,0.782191086473985,0.0,0.875086,0.037703,0.053468,35,1,22,4870,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3567,'35RG123',4205.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.45897714131676,-0.458977140191475,-0.602138591938044,568.556428355256,0.782245674345018,0.0,0.875086,0.037703,0.053468,35,1,23,4871,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3568,'35RG124',4206.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.457738212047931,-0.457738210922646,-0.602138591938044,568.722456186802,0.782300277292072,0.0,0.875086,0.037703,0.053468,35,1,24,4872,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3569,'35RG125',4207.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.456718686087607,-0.456718684962322,-0.602138591938044,568.888568889239,0.782354889291789,0.0,0.875086,0.037703,0.053468,35,1,25,4873,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3570,'35RG126',4208.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.455918552986292,-0.455918551861007,-0.602138591938044,569.054748417238,0.782409504370654,0.0,0.875086,0.037703,0.053468,35,1,26,4874,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3571,'35RG127',4209.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.455337778393053,-0.455337777267768,-0.602138591938044,569.220976815037,0.782464116597723,0.0,0.875086,0.037703,0.053468,35,1,27,4875,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3572,'35RG128',4210.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.454976304227048,-0.454976303101763,-0.602138591938044,569.387236194421,0.782518720077328,0.0,0.875086,0.037703,0.053468,35,1,28,4876,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3573,'35RG129',4211.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.454834048819374,-0.454834047694089,-0.602138591938044,569.55350871267,0.782573308941791,0.0,0.875086,0.037703,0.053468,35,1,29,4877,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3574,'35RG130',4212.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.454910907026021,-0.454910905900736,-0.602138591938044,569.719776550495,0.782627877344136,0.0,0.875086,0.037703,0.053468,35,1,30,4878,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3575,'35RG131',4213.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.455206750310973,-0.455206749185688,-0.602138591938044,569.886021889996,0.782682419450821,0.0,0.875086,0.037703,0.053468,35,1,31,4879,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3576,'35RG132',4214.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.455721426800525,-0.45572142567524,-0.602138591938044,570.052226892661,0.782736929434498,0.0,0.875086,0.037703,0.053468,35,1,32,4880,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3577,'35RG133',4215.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.456454761308317,-0.456454760183032,-0.602138591938044,570.218373677449,0.782791401466807,0.0,0.875086,0.037703,0.053468,35,1,33,4881,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3578,'35RG134',4216.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.457406555331703,-0.457406554206418,-0.602138591938044,570.384444298971,0.782845829711211,0.0,0.875086,0.037703,0.053468,35,1,34,4882,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3579,'35RG135',4217.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.458576587019119,-0.458576585893834,-0.602138591938044,570.550420725799,0.782900208315884,0.0,0.875086,0.037703,0.053468,35,1,35,4883,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3580,'35RG136',4218.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.459964611109429,-0.459964609984144,-0.602138591938044,570.716284818943,0.782954531406669,0.0,0.875086,0.037703,0.053468,35,1,36,4884,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3581,'35RG137',4219.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.461570358843,-0.461570357717715,-0.602138591938044,570.882018310502,0.783008793080096,0.0,0.875086,0.037703,0.053468,35,1,37,4885,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3582,'35RG138',4220.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.463393537844882,-0.463393536719597,-0.602138591938044,571.047602782542,0.783062987396482,0.0,0.875086,0.037703,0.053468,35,1,38,4886,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3583,'35RG139',4221.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.465433831980741,-0.465433830855456,-0.602138591938044,571.213019646208,0.78311710837313,0.0,0.875086,0.037703,0.053468,35,1,39,4887,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3584,'35RG140',4222.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.467690901185764,-0.467690900060479,-0.602138591938044,571.378250121107,0.783171149977607,0.0,0.875086,0.037703,0.053468,35,1,40,4888,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3585,'35RG141',4223.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.470164381266637,-0.470164380141352,-0.602138591938044,571.543275215,0.783225106121145,0.0,0.875086,0.037703,0.053468,35,1,41,4889,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3586,'35RG142',4224.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.472853883677873,-0.472853882552588,-0.602138591938044,571.708075703809,0.783278970652148,0.0,0.875086,0.037703,0.053468,35,1,42,4890,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3587,'35RG143',4225.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.475758995272211,-0.475758994146926,-0.602138591938044,571.872632111991,0.783332737349825,0.0,0.875086,0.037703,0.053468,35,1,43,4891,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3588,'35RG144',4226.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.478879278025518,-0.478879276900233,-0.602138591938044,572.036924693296,0.783386399917956,0.0,0.875086,0.037703,0.053468,35,1,44,4892,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3589,'35RG145',4227.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.482214268738398,-0.482214267613113,-0.602138591938044,572.200933411936,0.783439951978805,0.0,0.875086,0.037703,0.053468,35,1,45,4893,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3590,'35RG146',4228.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.485763478712118,-0.485763477586833,-0.602138591938044,572.364637924213,0.783493387067174,0.0,0.875086,0.037703,0.053468,35,1,46,4894,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3591,'35RG147',4229.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.489526393402779,-0.489526392277494,-0.602138591938044,572.528017560605,0.783546698624626,0.0,0.875086,0.037703,0.053468,35,1,47,4895,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3592,'35RG148',4230.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.493502472052059,-0.493502470926774,-0.602138591938044,572.691051308379,0.783599879993877,0.0,0.875086,0.037703,0.053468,35,1,48,4896,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3593,'35RG149',4231.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.497691147296076,-0.497691146170791,-0.602138591938044,572.85371779473,0.783652924413363,0.0,0.875086,0.037703,0.053468,35,1,49,4897,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3594,'35RG150',4232.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.502091824753381,-0.502091823628096,-0.602138591938044,573.015995270489,0.783705825011998,0.0,0.875086,0.037703,0.053468,35,1,50,4898,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3595,'35RG151',4233.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.506703882592612,-0.506703881467327,-0.602138591938044,573.177861594441,0.783758574804131,0.0,0.875086,0.037703,0.053468,35,1,51,4899,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3596,'35RG152',4234.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.511526671080079,-0.511526669954794,-0.602138591938044,573.339294218271,0.783811166684707,0.0,0.875086,0.037703,0.053468,35,1,52,4900,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3597,'35RG153',4235.0,805.0,0.145721320755,1.45148087498342,1.45148087498342,0.0,1.45148087413123,-0.516559512109149,-0.516559510983864,-0.602138591938044,573.500270172173,0.78386359342465,0.0,0.875086,0.037703,0.053468,35,1,53,4901,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3598,'35RG201',4244.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.517122361862418,-0.517122360703942,-0.602138591938044,573.661681556688,0.783915996450272,0.0,0.875194,0.037674,0.053477,35,2,1,4909,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3599,'35RG202',4245.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.511631143805932,-0.511631142647456,-0.602138591938044,573.823596074491,0.783968531699207,0.0,0.875194,0.037674,0.053477,35,2,2,4910,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3600,'35RG203',4246.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.506351197876088,-0.506351196717612,-0.602138591938044,573.985989832791,0.784021206119684,0.0,0.875194,0.037674,0.053477,35,2,3,4911,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3601,'35RG204',4247.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.50128303475632,-0.501283033597844,-0.602138591938044,574.148839421692,0.784074011858582,0.0,0.875194,0.037674,0.053477,35,2,4,4912,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3602,'35RG205',4248.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.496427133699729,-0.496427132541253,-0.602138591938044,574.312121900037,0.784126941228829,0.0,0.875194,0.037674,0.053477,35,2,5,4913,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3603,'35RG206',4249.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.491783943204521,-0.491783942046045,-0.602138591938044,574.47581478056,0.784179986704468,0.0,0.875194,0.037674,0.053477,35,2,6,4914,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3604,'35RG207',4250.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.487353881668785,-0.487353880510309,-0.602138591938044,574.639896014377,0.784233140915501,0.0,0.875194,0.037674,0.053477,35,2,7,4915,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3605,'35RG208',4251.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.483137338023706,-0.48313733686523,-0.602138591938044,574.804343974861,0.784286396642534,0.0,0.875194,0.037674,0.053477,35,2,8,4916,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3606,'35RG209',4252.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.479134672344731,-0.479134671186255,-0.602138591938044,574.969137440933,0.784339746811239,0.0,0.875194,0.037674,0.053477,35,2,9,4917,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3607,'35RG210',4253.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.475346216439458,-0.475346215280982,-0.602138591938044,575.134255579801,0.784393184486631,0.0,0.875194,0.037674,0.053477,35,2,10,4918,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3608,'35RG211',4254.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.471772274412093,-0.471772273253617,-0.602138591938044,575.299677929194,0.784446702867187,0.0,0.875194,0.037674,0.053477,35,2,11,4919,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3609,'35RG212',4255.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.4684131232036,-0.468413122045124,-0.602138591938044,575.465384379114,0.784500295278816,0.0,0.875194,0.037674,0.053477,35,2,12,4920,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3610,'35RG213',4256.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.465269013106909,-0.465269011948433,-0.602138591938044,575.631355153137,0.784553955168682,0.0,0.875194,0.037674,0.053477,35,2,13,4921,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3611,'35RG214',4257.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.462340168256997,-0.462340167098521,-0.602138591938044,575.797570789315,0.784607676098902,0.0,0.875194,0.037674,0.053477,35,2,14,4922,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3612,'35RG215',4258.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.459626787094837,-0.459626785936361,-0.602138591938044,575.964012120691,0.784661451740132,0.0,0.875194,0.037674,0.053477,35,2,15,4923,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3613,'35RG216',4259.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.457129042805331,-0.457129041646855,-0.602138591938044,576.130660255465,0.784715275865038,0.0,0.875194,0.037674,0.053477,35,2,16,4924,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3614,'35RG217',4260.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.454847083728556,-0.45484708257008,-0.602138591938044,576.297496556855,0.78476914234168,0.0,0.875194,0.037674,0.053477,35,2,17,4925,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3615,'35RG218',4261.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.452781033743886,-0.45278103258541,-0.602138591938044,576.464502622658,0.784823045126802,0.0,0.875194,0.037674,0.053477,35,2,18,4926,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3616,'35RG219',4262.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.450930992626997,-0.450930991468521,-0.602138591938044,576.631660264568,0.784876978259061,0.0,0.875194,0.037674,0.053477,35,2,19,4927,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3617,'35RG220',4263.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.449297036379317,-0.449297035220841,-0.602138591938044,576.798951487261,0.784930935852175,0.0,0.875194,0.037674,0.053477,35,2,20,4928,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3618,'35RG221',4264.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.447879217529579,-0.447879216371103,-0.602138591938044,576.966358467291,0.784984912088027,0.0,0.875194,0.037674,0.053477,35,2,21,4929,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3619,'35RG222',4265.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.446677565407537,-0.446677564249061,-0.602138591938044,577.133863531806,0.785038901209726,0.0,0.875194,0.037674,0.053477,35,2,22,4930,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3620,'35RG223',4266.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.445692086389617,-0.445692085231141,-0.602138591938044,577.301449137138,0.78509289751462,0.0,0.875194,0.037674,0.053477,35,2,23,4931,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3621,'35RG224',4267.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.44492276411648,-0.444922762958004,-0.602138591938044,577.46909784727,0.785146895347298,0.0,0.875194,0.037674,0.053477,35,2,24,4932,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3622,'35RG225',4268.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.444369559681963,-0.444369558523487,-0.602138591938044,577.636792312226,0.785200889092558,0.0,0.875194,0.037674,0.053477,35,2,25,4933,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3623,'35RG226',4269.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.444032411794336,-0.44403241063586,-0.602138591938044,577.804515246396,0.785254873168384,0.0,0.875194,0.037674,0.053477,35,2,26,4934,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3624,'35RG227',4270.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.443911236908694,-0.443911235750218,-0.602138591938044,577.972249406838,0.785308842018906,0.0,0.875194,0.037674,0.053477,35,2,27,4935,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3625,'35RG228',4271.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.444005929331549,-0.444005928173073,-0.602138591938044,578.139977571566,0.785362790107385,0.0,0.875194,0.037674,0.053477,35,2,28,4936,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3626,'35RG229',4272.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.444316361297144,-0.444316360138668,-0.602138591938044,578.307682517875,0.7854167119092,0.0,0.875194,0.037674,0.053477,35,2,29,4937,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3627,'35RG230',4273.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.444842383015622,-0.444842381857146,-0.602138591938044,578.475347000695,0.785470601904875,0.0,0.875194,0.037674,0.053477,35,2,30,4938,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3628,'35RG231',4274.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.445583822693411,-0.445583821534935,-0.602138591938044,578.642953731038,0.785524454573129,0.0,0.875194,0.037674,0.053477,35,2,31,4939,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3629,'35RG232',4275.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.446540486525858,-0.446540485367382,-0.602138591938044,578.810485354532,0.785578264383976,0.0,0.875194,0.037674,0.053477,35,2,32,4940,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3630,'35RG233',4276.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.447712158662331,-0.447712157503855,-0.602138591938044,578.977924430089,0.785632025791869,0.0,0.875194,0.037674,0.053477,35,2,33,4941,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3631,'35RG234',4277.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.449098601144112,-0.449098599985636,-0.602138591938044,579.145253408726,0.785685733228912,0.0,0.875194,0.037674,0.053477,35,2,34,4942,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3632,'35RG235',4278.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.450699553815216,-0.45069955265674,-0.602138591938044,579.312454612558,0.78573938109813,0.0,0.875194,0.037674,0.053477,35,2,35,4943,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3633,'35RG236',4279.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.452514734206485,-0.452514733048009,-0.602138591938044,579.479510214007,0.785792963766819,0.0,0.875194,0.037674,0.053477,35,2,36,4944,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3634,'35RG237',4280.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.454543837393562,-0.454543836235086,-0.602138591938044,579.646402215235,0.78584647555998,0.0,0.875194,0.037674,0.053477,35,2,37,4945,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3635,'35RG238',4281.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.456786535828439,-0.456786534669963,-0.602138591938044,579.813112427834,0.78589991075384,0.0,0.875194,0.037674,0.053477,35,2,38,4946,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3636,'35RG239',4282.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.459242479145988,-0.459242477987512,-0.602138591938044,579.979622452812,0.785953263569479,0.0,0.875194,0.037674,0.053477,35,2,39,4947,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3637,'35RG240',4283.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.461911293944834,-0.461911292786358,-0.602138591938044,580.14591366088,0.786006528166561,0.0,0.875194,0.037674,0.053477,35,2,40,4948,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3638,'35RG241',4284.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.464792583543858,-0.464792582385382,-0.602138591938044,580.311967173083,0.786059698637182,0.0,0.875194,0.037674,0.053477,35,2,41,4949,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3639,'35RG242',4285.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.467885927714274,-0.467885926555798,-0.602138591938044,580.477763841805,0.786112768999842,0.0,0.875194,0.037674,0.053477,35,2,42,4950,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3640,'35RG243',4286.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.471190882388445,-0.471190881229969,-0.602138591938044,580.643284232154,0.786165733193553,0.0,0.875194,0.037674,0.053477,35,2,43,4951,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3641,'35RG244',4287.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.474706979345083,-0.474706978186607,-0.602138591938044,580.808508603791,0.786218585072087,0.0,0.875194,0.037674,0.053477,35,2,44,4952,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3642,'35RG245',4288.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.478433725872424,-0.478433724713948,-0.602138591938044,580.973416893193,0.786271318398369,0.0,0.875194,0.037674,0.053477,35,2,45,4953,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3643,'35RG246',4289.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.482370604409322,-0.482370603250846,-0.602138591938044,581.137988696411,0.786323926839037,0.0,0.875194,0.037674,0.053477,35,2,46,4954,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3644,'35RG247',4290.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.486517072165132,-0.486517071006656,-0.602138591938044,581.302203252334,0.786376403959167,0.0,0.875194,0.037674,0.053477,35,2,47,4955,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3645,'35RG248',4291.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.49087256071908,-0.490872559560604,-0.602138591938044,581.466039426493,0.786428743217167,0.0,0.875194,0.037674,0.053477,35,2,48,4956,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3646,'35RG249',4292.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.495436475600076,-0.4954364744416,-0.602138591938044,581.629475695438,0.786480937959863,0.0,0.875194,0.037674,0.053477,35,2,49,4957,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3647,'35RG250',4293.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.500208195847431,-0.500208194688955,-0.602138591938044,581.792490131719,0.786532981417779,0.0,0.875194,0.037674,0.053477,35,2,50,4958,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3648,'35RG251',4294.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.505187073552865,-0.505187072394389,-0.602138591938044,581.955060389493,0.786584866700617,0.0,0.875194,0.037674,0.053477,35,2,51,4959,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3649,'35RG252',4295.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.510372433386035,-0.510372432227559,-0.602138591938044,582.117163690803,0.786636586792946,0.0,0.875194,0.037674,0.053477,35,2,52,4960,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3650,'35RG253',4296.0,805.0,0.146229811321,1.45130176048481,1.45130176048481,0.0,1.45130175963272,-0.515763572103015,-0.515763570944539,-0.602138591938044,582.27877681255,0.786688134550119,0.0,0.875194,0.037674,0.053477,35,2,53,4961,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3651,'36RG101',4306.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.559171395375836,-0.559171394316761,-0.436332312998582,582.436752346222,0.786739005565531,0.0,0.875299,0.037647,0.053485,36,1,1,4975,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3652,'36RG102',4307.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.553698824710733,-0.553698823651658,-0.436332312998582,582.595267899116,0.786789364488955,0.0,0.875299,0.037647,0.053485,36,1,2,4976,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3653,'36RG103',4308.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.548428078313748,-0.548428077254673,-0.436332312998582,582.754299131419,0.786839872367726,0.0,0.875299,0.037647,0.053485,36,1,3,4977,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3654,'36RG104',4309.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.543359706910512,-0.543359705851437,-0.436332312998582,582.913822141824,0.786890521353395,0.0,0.875299,0.037647,0.053485,36,1,4,4978,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3655,'36RG105',4310.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.538494229884769,-0.538494228825694,-0.436332312998582,583.073813456075,0.786941303746259,0.0,0.875299,0.037647,0.053485,36,1,5,4979,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3656,'36RG106',4311.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.533832135883295,-0.53383213482422,-0.436332312998582,583.234250014835,0.78699221199143,0.0,0.875299,0.037647,0.053485,36,1,6,4980,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3657,'36RG107',4312.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.529373883404297,-0.529373882345222,-0.436332312998582,583.395109160907,0.787043238674692,0.0,0.875299,0.037647,0.053485,36,1,7,4981,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3658,'36RG108',4313.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.52511990136857,-0.525119900309495,-0.436332312998582,583.55636862583,0.787094376518162,0.0,0.875299,0.037647,0.053485,36,1,8,4982,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3659,'36RG109',4314.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.521070589672569,-0.521070588613494,-0.436332312998582,583.718006515905,0.787145618375762,0.0,0.875299,0.037647,0.053485,36,1,9,4983,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3660,'36RG110',4315.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.517226319722738,-0.517226318663663,-0.436332312998582,583.880001297665,0.787196957228523,0.0,0.875299,0.037647,0.053485,36,1,10,4984,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3661,'36RG111',4316.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.513587434950445,-0.51358743389137,-0.436332312998582,584.042331782827,0.787248386179718,0.0,0.875299,0.037647,0.053485,36,1,11,4985,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3662,'36RG112',4317.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.510154251306759,-0.510154250247684,-0.436332312998582,584.204977112764,0.787299898449846,0.0,0.875299,0.037647,0.053485,36,1,12,4986,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3663,'36RG113',4318.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.506927057736697,-0.506927056677622,-0.436332312998582,584.367916742517,0.787351487371472,0.0,0.875299,0.037647,0.053485,36,1,13,4987,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3664,'36RG114',4319.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.503906116632351,-0.503906115573276,-0.436332312998582,584.53113042439,0.787403146383938,0.0,0.875299,0.037647,0.053485,36,1,14,4988,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3665,'36RG115',4320.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.501091664264145,-0.50109166320507,-0.436332312998582,584.694598191147,0.787454869027948,0.0,0.875299,0.037647,0.053485,36,1,15,4989,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3666,'36RG116',4321.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.498483911190192,-0.498483910131117,-0.436332312998582,584.858300338852,0.787506648940052,0.0,0.875299,0.037647,0.053485,36,1,16,4990,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3667,'36RG117',4322.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.496083042643115,-0.49608304158404,-0.436332312998582,585.022217409371,0.787558479847014,0.0,0.875299,0.037647,0.053485,36,1,17,4991,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3668,'36RG118',4323.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.493889218893742,-0.493889217834667,-0.436332312998582,585.186330172574,0.7876103555601,0.0,0.875299,0.037647,0.053485,36,1,18,4992,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3669,'36RG119',4324.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.491902575591972,-0.491902574532897,-0.436332312998582,585.350619608259,0.787662269969281,0.0,0.875299,0.037647,0.053485,36,1,19,4993,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3670,'36RG120',4325.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.490123224083775,-0.4901232230247,-0.436332312998582,585.515066887833,0.787714217037365,0.0,0.875299,0.037647,0.053485,36,1,20,4994,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3671,'36RG121',4326.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.488551251704572,-0.488551250645497,-0.436332312998582,585.679653355767,0.78776619079406,0.0,0.875299,0.037647,0.053485,36,1,21,4995,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3672,'36RG122',4327.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.487186722048705,-0.48718672098963,-0.436332312998582,585.844360510869,0.787818185329991,0.0,0.875299,0.037647,0.053485,36,1,22,4996,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3673,'36RG123',4328.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.48602967521466,-0.486029674155585,-0.436332312998582,586.009169987382,0.787870194790663,0.0,0.875299,0.037647,0.053485,36,1,23,4997,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3674,'36RG124',4329.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.485080128025843,-0.485080126966768,-0.436332312998582,586.174063535951,0.7879222133704,0.0,0.875299,0.037647,0.053485,36,1,24,4998,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3675,'36RG125',4330.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.484338074227317,-0.484338073168242,-0.436332312998582,586.339023004477,0.78797423530624,0.0,0.875299,0.037647,0.053485,36,1,25,4999,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3676,'36RG126',4331.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.483803484657529,-0.483803483598454,-0.436332312998582,586.504030318885,0.788026254871825,0.0,0.875299,0.037647,0.053485,36,1,26,5000,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3677,'36RG127',4332.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.483476307396068,-0.483476306336993,-0.436332312998582,586.669067463831,0.78807826637127,0.0,0.875299,0.037647,0.053485,36,1,27,5001,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3678,'36RG128',4333.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.48335646788631,-0.483356466827235,-0.436332312998582,586.834116463378,0.788130264133037,0.0,0.875299,0.037647,0.053485,36,1,28,5002,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3679,'36RG129',4334.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.483443869034069,-0.483443867974994,-0.436332312998582,586.999159361665,0.788182242503807,0.0,0.875299,0.037647,0.053485,36,1,29,5003,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3680,'36RG130',4335.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.483738391281236,-0.483738390222161,-0.436332312998582,587.164178203587,0.788234195842369,0.0,0.875299,0.037647,0.053485,36,1,30,5004,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3681,'36RG131',4336.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.484239892655517,-0.484239891596442,-0.436332312998582,587.329155015522,0.788286118513529,0.0,0.875299,0.037647,0.053485,36,1,31,5005,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3682,'36RG132',4337.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.484948208795644,-0.484948207736569,-0.436332312998582,587.494071786124,0.788338004882054,0.0,0.875299,0.037647,0.053485,36,1,32,5006,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3683,'36RG133',4338.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.485863152952568,-0.485863151893493,-0.436332312998582,587.65891044721,0.788389849306638,0.0,0.875299,0.037647,0.053485,36,1,33,5007,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3684,'36RG134',4339.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.486984515966583,-0.486984514907508,-0.436332312998582,587.823652854761,0.788441646133934,0.0,0.875299,0.037647,0.053485,36,1,34,5008,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3685,'36RG135',4340.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.488312066220907,-0.488312065161832,-0.436332312998582,587.988280770069,0.788493389692615,0.0,0.875299,0.037647,0.053485,36,1,35,5009,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3686,'36RG136',4341.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.489845549571655,-0.48984554851258,-0.436332312998582,588.152775841047,0.788545074287514,0.0,0.875299,0.037647,0.053485,36,1,36,5010,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3687,'36RG137',4342.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.49158468925473,-0.491584688195655,-0.436332312998582,588.317119583737,0.788596694193824,0.0,0.875299,0.037647,0.053485,36,1,37,5011,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3688,'36RG138',4343.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.493529185769546,-0.493529184710471,-0.436332312998582,588.481293364032,0.788648243651368,0.0,0.875299,0.037647,0.053485,36,1,38,5012,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3689,'36RG139',4344.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.495678716740536,-0.495678715681461,-0.436332312998582,588.645278379641,0.788699716858964,0.0,0.875299,0.037647,0.053485,36,1,39,5013,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3690,'36RG140',4345.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.498032936756076,-0.498032935697001,-0.436332312998582,588.809055642324,0.788751107968868,0.0,0.875299,0.037647,0.053485,36,1,40,5014,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3691,'36RG141',4346.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.500591477185829,-0.500591476126754,-0.436332312998582,588.972605960422,0.788802411081327,0.0,0.875299,0.037647,0.053485,36,1,41,5015,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3692,'36RG142',4347.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.503353945976642,-0.503353944917567,-0.436332312998582,589.135909921703,0.788853620239226,0.0,0.875299,0.037647,0.053485,36,1,42,5016,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3693,'36RG143',4348.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.506319927427306,-0.506319926368231,-0.436332312998582,589.298947876556,0.788904729422858,0.0,0.875299,0.037647,0.053485,36,1,43,5017,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3694,'36RG144',4349.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.50948898194325,-0.509488980884175,-0.436332312998582,589.46169992156,0.78895573254481,0.0,0.875299,0.037647,0.053485,36,1,44,5018,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3695,'36RG145',4350.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.51286064577068,-0.512860644711605,-0.436332312998582,589.624145883444,0.789006623444982,0.0,0.875299,0.037647,0.053485,36,1,45,5019,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3696,'36RG146',4351.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.516434430711826,-0.516434429652751,-0.436332312998582,589.78626530348,0.789057395885733,0.0,0.875299,0.037647,0.053485,36,1,46,5020,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3697,'36RG147',4352.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.520209823820999,-0.520209822761924,-0.436332312998582,589.948037422319,0.789108043547188,0.0,0.875299,0.037647,0.053485,36,1,47,5021,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3698,'36RG148',4353.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.524186287082515,-0.52418628602344,-0.436332312998582,590.109441165319,0.789158560002268,0.0,0.875299,0.037647,0.053485,36,1,48,5022,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3699,'36RG149',4354.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.528363257071171,-0.528363256012096,-0.436332312998582,590.270455128359,0.789208938814365,0.0,0.875299,0.037647,0.053485,36,1,49,5023,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3700,'36RG150',4355.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.53274014459538,-0.532740143536305,-0.436332312998582,590.431057564208,0.78925917332899,0.0,0.875299,0.037647,0.053485,36,1,50,5024,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3701,'36RG151',4356.0,805.0,0.146755294118,1.45112766376489,1.45112766376489,0.0,1.4511276629129,-0.537316334324111,-0.537316333265036,-0.436332312998582,590.591226369441,0.789309256873876,0.0,0.875299,0.037647,0.053485,36,1,51,5025,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3702,'36RG201',4365.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.531725766758504,-0.531725765664524,-0.436332312998582,590.752364608371,0.789359405102707,0.0,0.875395,0.037622,0.053494,36,2,1,5033,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3703,'36RG202',4366.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.52683555760483,-0.52683555651085,-0.436332312998582,590.913965837916,0.789409757791978,0.0,0.875395,0.037622,0.053494,36,2,2,5034,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3704,'36RG203',4367.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.522146375595753,-0.522146374501773,-0.436332312998582,591.076007464149,0.789460232205829,0.0,0.875395,0.037622,0.053494,36,2,3,5035,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3705,'36RG204',4368.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.517658662509195,-0.517658661415215,-0.436332312998582,591.238467299465,0.789510821213608,0.0,0.875395,0.037622,0.053494,36,2,4,5036,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3706,'36RG205',4369.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.513372831774415,-0.513372830680435,-0.436332312998582,591.401323549226,0.789561517819607,0.0,0.875395,0.037622,0.053494,36,2,5,5037,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3707,'36RG206',4370.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.509289269017199,-0.509289267923219,-0.436332312998582,591.564554797841,0.78961231515864,0.0,0.875395,0.037622,0.053494,36,2,6,5038,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3708,'36RG207',4371.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.50540833258675,-0.50540833149277,-0.436332312998582,591.728139994316,0.789663206491435,0.0,0.875395,0.037622,0.053494,36,2,7,5039,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3709,'36RG208',4372.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.501730354063671,-0.501730352969691,-0.436332312998582,591.8920584373,0.789714185199889,0.0,0.875395,0.037622,0.053494,36,2,8,5040,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3710,'36RG209',4373.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.498255638748315,-0.498255637654335,-0.436332312998582,592.056289759655,0.789765244782165,0.0,0.875395,0.037622,0.053494,36,2,9,5041,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3711,'36RG210',4374.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.494984466129171,-0.494984465035191,-0.436332312998582,592.220813912599,0.789816378847656,0.0,0.875395,0.037622,0.053494,36,2,10,5042,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3712,'36RG211',4375.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.49191709033057,-0.49191708923659,-0.436332312998582,592.385611149419,0.789867581111831,0.0,0.875395,0.037622,0.053494,36,2,11,5043,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3713,'36RG212',4376.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.489053740539479,-0.489053739445499,-0.436332312998582,592.550662008821,0.789918845390957,0.0,0.875395,0.037622,0.053494,36,2,12,5044,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3714,'36RG213',4377.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.486394621410579,-0.486394620316599,-0.436332312998582,592.715947297911,0.789970165596719,0.0,0.875395,0.037622,0.053494,36,2,13,5045,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3715,'36RG214',4378.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.483939913449692,-0.483939912355712,-0.436332312998582,592.881448074861,0.790021535730743,0.0,0.875395,0.037622,0.053494,36,2,14,5046,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3716,'36RG215',4379.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.481689773374921,-0.481689772280941,-0.436332312998582,593.047145631276,0.790072949879034,0.0,0.875395,0.037622,0.053494,36,2,15,5047,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3717,'36RG216',4380.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.479644334455148,-0.479644333361168,-0.436332312998582,593.213021474285,0.790124402206327,0.0,0.875395,0.037622,0.053494,36,2,16,5048,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3718,'36RG217',4381.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.477803706825863,-0.477803705731883,-0.436332312998582,593.3790573084,0.790175886950383,0.0,0.875395,0.037622,0.053494,36,2,17,5049,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3719,'36RG218',4382.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.476167977781902,-0.476167976687922,-0.436332312998582,593.545235017152,0.790227398416209,0.0,0.875395,0.037622,0.053494,36,2,18,5050,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3720,'36RG219',4383.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.474737212046801,-0.474737210952821,-0.436332312998582,593.711536644535,0.790278930970238,0.0,0.875395,0.037622,0.053494,36,2,19,5051,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3721,'36RG220',4384.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.473511452018844,-0.473511450924864,-0.436332312998582,593.877944376293,0.790330479034457,0.0,0.875395,0.037622,0.053494,36,2,20,5052,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3722,'36RG221',4385.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.472490717993463,-0.472490716899483,-0.436332312998582,594.04444052106,0.790382037080499,0.0,0.875395,0.037622,0.053494,36,2,21,5053,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3723,'36RG222',4386.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.471675008361988,-0.471675007268008,-0.436332312998582,594.211007491393,0.790433599623716,0.0,0.875395,0.037622,0.053494,36,2,22,5054,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3724,'36RG223',4387.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.471064299786516,-0.471064298692536,-0.436332312998582,594.377627784714,0.790485161217222,0.0,0.875395,0.037622,0.053494,36,2,23,5055,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3725,'36RG224',4388.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.470658547351139,-0.470658546257159,-0.436332312998582,594.544283964184,0.790536716445927,0.0,0.875395,0.037622,0.053494,36,2,24,5056,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3726,'36RG225',4389.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.470457684689119,-0.470457683595139,-0.436332312998582,594.71095863954,0.790588259920569,0.0,0.875395,0.037622,0.053494,36,2,25,5057,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3727,'36RG226',4390.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.470461624086457,-0.470461622992477,-0.436332312998582,594.877634447921,0.79063978627175,0.0,0.875395,0.037622,0.053494,36,2,26,5058,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3728,'36RG227',4391.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.470670256561615,-0.470670255467635,-0.436332312998582,595.044294034689,0.790691290143974,0.0,0.875395,0.037622,0.053494,36,2,27,5059,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3729,'36RG228',4392.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.471083451921334,-0.471083450827354,-0.436332312998582,595.210920034296,0.790742766189711,0.0,0.875395,0.037622,0.053494,36,2,28,5060,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3730,'36RG229',4393.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.471701058793325,-0.471701057699345,-0.436332312998582,595.377495051197,0.790794209063489,0.0,0.875395,0.037622,0.053494,36,2,29,5061,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3731,'36RG230',4394.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.472522904634989,-0.472522903541009,-0.436332312998582,595.544001640847,0.790845613416005,0.0,0.875395,0.037622,0.053494,36,2,30,5062,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3732,'36RG231',4395.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.473548795719093,-0.473548794625113,-0.436332312998582,595.7104222908,0.79089697388291,0.0,0.875395,0.037622,0.053494,36,2,31,5063,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3733,'36RG232',4396.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.4747785170964,-0.47477851600242,-0.436332312998582,595.876739401933,0.790948285105916,0.0,0.875395,0.037622,0.053494,36,2,32,5064,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3734,'36RG233',4397.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.476211832535267,-0.476211831441287,-0.436332312998582,596.042935269818,0.790999541673247,0.0,0.875395,0.037622,0.053494,36,2,33,5065,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3735,'36RG234',4398.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.477848484438542,-0.477848483344562,-0.436332312998582,596.20899206628,0.791050738167774,0.0,0.875395,0.037622,0.053494,36,2,34,5066,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3736,'36RG235',4399.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.479688193738209,-0.479688192644229,-0.436332312998582,596.374891821133,0.79110186913449,0.0,0.875395,0.037622,0.053494,36,2,35,5067,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3737,'36RG236',4400.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.481730659768022,-0.481730658674042,-0.436332312998582,596.540616404155,0.791152929080363,0.0,0.875395,0.037622,0.053494,36,2,36,5068,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3738,'36RG237',4401.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.483975560114072,-0.483975559020092,-0.436332312998582,596.706147507301,0.791203912468882,0.0,0.875395,0.037622,0.053494,36,2,37,5069,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3739,'36RG238',4402.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.486422550444278,-0.486422549350298,-0.436332312998582,596.871466627182,0.79125481371688,0.0,0.875395,0.037622,0.053494,36,2,38,5070,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3740,'36RG239',4403.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.489071264316888,-0.489071263222908,-0.436332312998582,597.03655504785,0.791305627178312,0.0,0.875395,0.037622,0.053494,36,2,39,5071,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3741,'36RG240',4404.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.491921312968021,-0.491921311874041,-0.436332312998582,597.201393823888,0.791356347161007,0.0,0.875395,0.037622,0.053494,36,2,40,5072,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3742,'36RG241',4405.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.494972285079381,-0.494972283985401,-0.436332312998582,597.365963763852,0.791406967899697,0.0,0.875395,0.037622,0.053494,36,2,41,5073,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3743,'36RG242',4406.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.498223746526154,-0.498223745432174,-0.436332312998582,597.530245414082,0.791457483562042,0.0,0.875395,0.037622,0.053494,36,2,42,5074,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3744,'36RG243',4407.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.501675240105808,-0.501675239011828,-0.436332312998582,597.694219042901,0.791507888241627,0.0,0.875395,0.037622,0.053494,36,2,43,5075,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3745,'36RG244',4408.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.505326285247964,-0.505326284153984,-0.436332312998582,597.857864625236,0.791558175953284,0.0,0.875395,0.037622,0.053494,36,2,44,5076,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3746,'36RG245',4409.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.509176377706478,-0.509176376612498,-0.436332312998582,598.021161827686,0.791608340628556,0.0,0.875395,0.037622,0.053494,36,2,45,5077,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3747,'36RG246',4410.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.513224989233581,-0.513224988139601,-0.436332312998582,598.18408999406,0.791658376111304,0.0,0.875395,0.037622,0.053494,36,2,46,5078,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3748,'36RG247',4411.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.517471567237575,-0.517471566143595,-0.436332312998582,598.34662813141,0.791708276153473,0.0,0.875395,0.037622,0.053494,36,2,47,5079,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3749,'36RG248',4412.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.521915534423631,-0.521915533329651,-0.436332312998582,598.508754896588,0.791758034411019,0.0,0.875395,0.037622,0.053494,36,2,48,5080,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3750,'36RG249',4413.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.526556288419538,-0.526556287325558,-0.436332312998582,598.670448583355,0.791807644439998,0.0,0.875395,0.037622,0.053494,36,2,49,5081,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3751,'36RG250',4414.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.531393201386042,-0.531393200292062,-0.436332312998582,598.831687110068,0.791857099692846,0.0,0.875395,0.037622,0.053494,36,2,50,5082,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3752,'36RG251',4415.0,805.0,0.147216862745,1.45096852616903,1.45096852616903,0.0,1.45096852531714,-0.536425619613194,-0.536425618519214,-0.436332312998582,598.992448007971,0.791906393514831,0.0,0.875395,0.037622,0.053494,36,2,51,5083,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3753,'37RG101',4425.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.564641804534203,-0.564641803507534,-0.305432619099008,599.150903997459,0.791955243064403,0.0,0.875491,0.037596,0.053503,37,1,1,5099,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3754,'37RG102',4426.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.55963061122508,-0.559630610198411,-0.305432619099008,599.309862287565,0.792003798702167,0.0,0.875491,0.037596,0.053503,37,1,2,5100,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3755,'37RG103',4427.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.554812674854605,-0.554812673827936,-0.305432619099008,599.469299805534,0.792052486403916,0.0,0.875491,0.037596,0.053503,37,1,3,5101,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3756,'37RG104',4428.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.550188478952413,-0.550188477925744,-0.305432619099008,599.62919386402,0.792101299018271,0.0,0.875491,0.037596,0.053503,37,1,4,5102,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3757,'37RG105',4429.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.545758478679988,-0.545758477653319,-0.305432619099008,599.789522150009,0.792150229520036,0.0,0.875491,0.037596,0.053503,37,1,5,5103,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3758,'37RG106',4430.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.541523101340227,-0.541523100313558,-0.305432619099008,599.950262713158,0.792199271006567,0.0,0.875491,0.037596,0.053503,37,1,6,5104,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3759,'37RG107',4431.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.537482746872032,-0.537482745845363,-0.305432619099008,600.1113939536,0.792248416693982,0.0,0.875491,0.037596,0.053503,37,1,7,5105,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3760,'37RG108',4432.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.533637788329183,-0.533637787302514,-0.305432619099008,600.272894609224,0.792297659913199,0.0,0.875491,0.037596,0.053503,37,1,8,5106,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3761,'37RG109',4433.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.529988572342989,-0.52998857131632,-0.305432619099008,600.434743742478,0.792346994105837,0.0,0.875491,0.037596,0.053503,37,1,9,5107,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3762,'37RG110',4434.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.526535419568086,-0.526535418541417,-0.305432619099008,600.596920726711,0.792396412819974,0.0,0.875491,0.037596,0.053503,37,1,10,5108,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3763,'37RG111',4435.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.52327862511092,-0.523278624084252,-0.305432619099008,600.759405232083,0.79244590970577,0.0,0.875491,0.037596,0.053503,37,1,11,5109,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3764,'37RG112',4436.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.520218458940329,-0.520218457913661,-0.305432619099008,600.922177211072,0.792495478510977,0.0,0.875491,0.037596,0.053503,37,1,12,5110,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3765,'37RG113',4437.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.517355166279887,-0.517355165253218,-0.305432619099008,601.085216883616,0.79254511307633,0.0,0.875491,0.037596,0.053503,37,1,13,5111,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3766,'37RG114',4438.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.514688967981466,-0.514688966954797,-0.305432619099008,601.248504721892,0.792594807330838,0.0,0.875491,0.037596,0.053503,37,1,14,5112,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3767,'37RG115',4439.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.512220060879829,-0.51222005985316,-0.305432619099008,601.412021434782,0.792644555286979,0.0,0.875491,0.037596,0.053503,37,1,15,5113,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3768,'37RG116',4440.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.50994861812749,-0.509948617100822,-0.305432619099008,601.575747952045,0.792694351035808,0.0,0.875491,0.037596,0.053503,37,1,16,5114,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3769,'37RG117',4441.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.507874789510198,-0.50787478848353,-0.305432619099008,601.739665408213,0.792744188741987,0.0,0.875491,0.037596,0.053503,37,1,17,5115,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3770,'37RG118',4442.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.505998701742053,-0.505998700715384,-0.305432619099008,601.903755126248,0.79279406263875,0.0,0.875491,0.037596,0.053503,37,1,18,5116,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3771,'37RG119',4443.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.504320458740511,-0.504320457713842,-0.305432619099008,602.067998600974,0.792843967022792,0.0,0.875491,0.037596,0.053503,37,1,19,5117,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3772,'37RG120',4444.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.502840141880734,-0.502840140854065,-0.305432619099008,602.232377482323,0.792893896249123,0.0,0.875491,0.037596,0.053503,37,1,20,5118,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3773,'37RG121',4445.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.501557810229459,-0.50155780920279,-0.305432619099008,602.396873558401,0.792943844725862,0.0,0.875491,0.037596,0.053503,37,1,21,5119,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3774,'37RG122',4446.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.500473500757745,-0.500473499731076,-0.305432619099008,602.561468738416,0.792993806908994,0.0,0.875491,0.037596,0.053503,37,1,22,5120,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3775,'37RG123',4447.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.499587228532976,-0.499587227506307,-0.305432619099008,602.72614503548,0.793043777297101,0.0,0.875491,0.037596,0.053503,37,1,23,5121,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3776,'37RG124',4448.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.498898986889638,-0.498898985862969,-0.305432619099008,602.890884549312,0.793093750426067,0.0,0.875491,0.037596,0.053503,37,1,24,5122,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3777,'37RG125',4449.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.498408747579108,-0.498408746552439,-0.305432619099008,603.055669448871,0.793143720863762,0.0,0.875491,0.037596,0.053503,37,1,25,5123,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3778,'37RG126',4450.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.49811646089807,-0.498116459871401,-0.305432619099008,603.22048195493,0.793193683204722,0.0,0.875491,0.037596,0.053503,37,1,26,5124,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3779,'37RG127',4451.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.498022055795945,-0.498022054769276,-0.305432619099008,603.385304322629,0.793243632064828,0.0,0.875491,0.037596,0.053503,37,1,27,5125,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3780,'37RG128',4452.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.498125439961067,-0.498125438934398,-0.305432619099008,603.550118824012,0.793293562075979,0.0,0.875491,0.037596,0.053503,37,1,28,5126,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3781,'37RG129',4453.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.498426499885712,-0.498426498859043,-0.305432619099008,603.714907730596,0.793343467880794,0.0,0.875491,0.037596,0.053503,37,1,29,5127,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3782,'37RG130',4454.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.498925100910209,-0.49892509988354,-0.305432619099008,603.879653295963,0.793393344127316,0.0,0.875491,0.037596,0.053503,37,1,30,5128,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3783,'37RG131',4455.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.499621087245986,-0.499621086219317,-0.305432619099008,604.044337738425,0.793443185463749,0.0,0.875491,0.037596,0.053503,37,1,31,5129,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3784,'37RG132',4456.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.500514281977852,-0.500514280951183,-0.305432619099008,604.208943223769,0.793492986533229,0.0,0.875491,0.037596,0.053503,37,1,32,5130,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3785,'37RG133',4457.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.501604487045712,-0.501604486019044,-0.305432619099008,604.373451848115,0.793542741968629,0.0,0.875491,0.037596,0.053503,37,1,33,5131,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3786,'37RG134',4458.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.502891483205611,-0.502891482178942,-0.305432619099008,604.537845620892,0.793592446387413,0.0,0.875491,0.037596,0.053503,37,1,34,5132,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3787,'37RG135',4459.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.504375029970718,-0.50437502894405,-0.305432619099008,604.702106447977,0.793642094386536,0.0,0.875491,0.037596,0.053503,37,1,35,5133,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3788,'37RG136',4460.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.506054865532102,-0.506054864505433,-0.305432619099008,604.866216115006,0.793691680537413,0.0,0.875491,0.037596,0.053503,37,1,36,5134,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3789,'37RG137',4461.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.507930706659951,-0.507930705633282,-0.305432619099008,605.030156270877,0.793741199380943,0.0,0.875491,0.037596,0.053503,37,1,37,5135,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3790,'37RG138',4462.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.510002248585091,-0.510002247558422,-0.305432619099008,605.193908411481,0.793790645422611,0.0,0.875491,0.037596,0.053503,37,1,38,5136,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3791,'37RG139',4463.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.512269164861368,-0.512269163834699,-0.305432619099008,605.357453863665,0.793840013127667,0.0,0.875491,0.037596,0.053503,37,1,39,5137,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3792,'37RG140',4464.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.514731107209182,-0.514731106182513,-0.305432619099008,605.520773769474,0.793889296916388,0.0,0.875491,0.037596,0.053503,37,1,40,5138,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3793,'37RG141',4465.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.517387705340755,-0.517387704314086,-0.305432619099008,605.683849070667,0.793938491159432,0.0,0.875491,0.037596,0.053503,37,1,41,5139,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3794,'37RG142',4466.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.520238566766972,-0.520238565740303,-0.305432619099008,605.846660493557,0.793987590173295,0.0,0.875491,0.037596,0.053503,37,1,42,5140,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3795,'37RG143',4467.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.52328327658667,-0.523283275560001,-0.305432619099008,606.009188534175,0.794036588215865,0.0,0.875491,0.037596,0.053503,37,1,43,5141,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3796,'37RG144',4468.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.526521397258686,-0.526521396232017,-0.305432619099008,606.171413443803,0.794085479482091,0.0,0.875491,0.037596,0.053503,37,1,44,5142,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3797,'37RG145',4469.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.529952468357239,-0.52995246733057,-0.305432619099008,606.33331521488,0.794134258099775,0.0,0.875491,0.037596,0.053503,37,1,45,5143,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3798,'37RG146',4470.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.533576006310762,-0.533576005284093,-0.305432619099008,606.494873567318,0.794182918125476,0.0,0.875491,0.037596,0.053503,37,1,46,5144,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3799,'37RG147',4471.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.537391504125071,-0.537391503098402,-0.305432619099008,606.656067935245,0.794231453540561,0.0,0.875491,0.037596,0.053503,37,1,47,5145,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3800,'37RG148',4472.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.541398431091475,-0.541398430064806,-0.305432619099008,606.816877454205,0.794279858247378,0.0,0.875491,0.037596,0.053503,37,1,48,5146,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3801,'37RG149',4473.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.545596232479712,-0.545596231453043,-0.305432619099008,606.977280948835,0.794328126065586,0.0,0.875491,0.037596,0.053503,37,1,49,5147,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3802,'37RG150',4474.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.549984329217347,-0.549984328190678,-0.305432619099008,607.13725692104,0.794376250728632,0.0,0.875491,0.037596,0.053503,37,1,50,5148,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3803,'37RG151',4475.0,805.0,0.147706470588,1.45080942347293,1.45080942347293,0.0,1.45080942262113,-0.554562117555536,-0.554562116528867,-0.305432619099008,607.296783538697,0.794424225880385,0.0,0.875491,0.037596,0.053503,37,1,51,5149,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3804,'37RG201',4484.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.562497654670375,-0.562497653627203,-0.305432619099008,607.455964503557,0.794472063962858,0.0,0.875586,0.037571,0.053511,37,2,1,5157,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3805,'37RG202',4485.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.557351686432795,-0.557351685389623,-0.305432619099008,607.615661065412,0.794519909876848,0.0,0.875586,0.037571,0.053511,37,2,2,5158,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3806,'37RG203',4486.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.552395564307623,-0.552395563264451,-0.305432619099008,607.775850264538,0.794567889314684,0.0,0.875586,0.037571,0.053511,37,2,3,5159,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3807,'37RG204',4487.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.547629777298979,-0.547629776255807,-0.305432619099008,607.936509531962,0.79461599529261,0.0,0.875586,0.037571,0.053511,37,2,4,5160,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3808,'37RG205',4488.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.543054786794023,-0.543054785750851,-0.305432619099008,608.097616679026,0.794664220952226,0.0,0.875586,0.037571,0.053511,37,2,5,5161,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3809,'37RG206',4489.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.538671027067507,-0.538671026024335,-0.305432619099008,608.259149886378,0.794712559557128,0.0,0.875586,0.037571,0.053511,37,2,6,5162,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3810,'37RG207',4490.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.534478905772466,-0.534478904729294,-0.305432619099008,608.421087692423,0.794761004489372,0.0,0.875586,0.037571,0.053511,37,2,7,5163,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3811,'37RG208',4491.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.530478804416332,-0.53047880337316,-0.305432619099008,608.58340898125,0.79480954924578 9,0.0,0.875586,0.037571,0.053511,37,2,8,5164,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3812,'37RG209',4492.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.526671078821969,-0.526671077778797,-0.305432619099008,608.746092970074,0.794858187434148,0.0,0.875586,0.037571,0.053511,37,2,9,5165,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3813,'37RG210',4493.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.523056059572866,-0.523056058529694,-0.305432619099008,608.909119196212,0.794906912769187,0.0,0.875586,0.037571,0.053511,37,2,10,5166,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3814,'37RG211',4494.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.519634052442235,-0.519634051399063,-0.305432619099008,609.072467503627,0.794955719068506,0.0,0.875586,0.037571,0.053511,37,2,11,5167,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3815,'37RG212',4495.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.516405338805341,-0.516405337762169,-0.305432619099008,609.236118029058,0.795004600248345,0.0,0.875586,0.037571,0.053511,37,2,12,5168,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3816,'37RG213',4496.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.513370176034676,-0.513370174991504,-0.305432619099008,609.400051187772,0.795053550319243,0.0,0.875586,0.037571,0.053511,37,2,13,5169,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3817,'37RG214',4497.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.510528797877483,-0.510528796834311,-0.305432619099008,609.564247658958,0.795102563381606,0.0,0.875586,0.037571,0.053511,37,2,14,5170,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3818,'37RG215',4498.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.507881414815393,-0.507881413772221,-0.305432619099008,609.72866837079,0.795151633621157,0.0,0.875586,0.037571,0.053511,37,2,15,5171,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3819,'37RG216',4499.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.505428214405611,-0.505428213362439,-0.305432619099008,609.893354485177,0.795200755304321,0.0,0.875586,0.037571,0.053511,37,2,16,5172,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3820,'37RG217',4500.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.503169361603631,-0.503169360560459,-0.305432619099008,610.058227382246,0.79524992277351,0.0,0.875586,0.037571,0.053511,37,2,17,5173,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3821,'37RG218',4501.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.501104999066725,-0.501104998023553,-0.305432619099008,610.22328864455,0.795299130442352,0.0,0.875586,0.037571,0.053511,37,2,18,5174,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3822,'37RG219',4502.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.499235247438526,-0.499235246395354,-0.305432619099008,610.388520041059,0.79534837279 0839,0.0,0.875586,0.037571,0.053511,37,2,19,5175,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3823,'37RG220',4503.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.49756020561395,-0.497560204570778,-0.305432619099008,610.553903510933,0.79539764436043,0.0,0.875586,0.037571,0.053511,37,2,20,5176,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3824,'37RG221',4504.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.496079950984544,-0.496079949941372,-0.305432619099008,610.71942114711,0.795446939749099,0.0,0.875586,0.037571,0.053511,37,2,21,5177,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3825,'37RG222',4505.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.494794539664084,-0.494794538620912,-0.305432619099008,610.885055179735,0.795496253606337,0.0,0.875586,0.037571,0.053511,37,2,22,5178,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3826,'37RG223',4506.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.493704006694066,-0.493704005650894,-0.305432619099008,611.050787959447,0.795545580628122,0.0,0.875586,0.037571,0.053511,37,2,23,5179,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3827,'37RG224',4507.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.492808366229382,-0.49280836518621,-0.305432619099008,611.216601940545,0.795594915551858,0.0,0.875586,0.037571,0.053511,37,2,24,5180,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3828,'37RG225',4508.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.492107611703538,-0.492107610660366,-0.305432619099008,611.382479664071,0.795644253151295,0.0,0.875586,0.037571,0.053511,37,2,25,5181,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3829,'37RG226',4509.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.491601715973828,-0.491601714930656,-0.305432619099008,611.548403740805,0.795693588231427,0.0,0.875586,0.037571,0.053511,37,2,26,5182,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3830,'37RG227',4510.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.491290631446282,-0.49129063040311,-0.305432619099008,611.714356834222,0.795742915623387,0.0,0.875586,0.037571,0.053511,37,2,27,5183,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3831,'37RG228',4511.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.491174290180197,-0.491174289137025,-0.305432619099008,611.880321643414,0.79579223017934,0.0,0.875571,0.053511,37,2,28,5184,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3832,'37RG229',4512.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.491252603972604,-0.491252602929432,-0.305432619099008,612.046280886004,0.795841526767371,0.0,0.875586,0.037571,0.053511,37,2,29,5185,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3833,'37RG230',4513.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.491525464422451,-0.491525463379279,-0.305432619099008,612.212217281081,0.795890800266402,0.0,0.875586,0.037571,0.053511,37,2,30,5186,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3834,'37RG231',4514.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.491992742974595,-0.491992741931423,-0.305432619099008,612.378113532161,0.795940045561102,0.0,0.875586,0.037571,0.053511,37,2,31,5187,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3835,'37RG232',4515.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.492654290943931,-0.492654289900759,-0.305432619099008,612.543952310213,0.795989257536843,0.0,0.875586,0.037571,0.053511,37,2,32,5188,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3836,'37RG233',4516.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.493509939519263,-0.493509938476091,-
0.305432619099008,612.709716236758,0.796038431074673,0.0,0.875586,0.037571,0.053511,37,2,33,5189,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3837,'37RG234',4517.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.494559499747978,-0.494559498704806,-
0.305432619099008,612.875387867071,0.796087561046323,0.0,0.875586,0.037571,0.053511,37,2,34,5190,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3838,'37RG235',4518.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.495802762500495,-0.495802761457323,-
0.305432619099008,613.040949673502,0.796136642309267,0.0,0.875586,0.037571,0.053511,37,2,35,5191,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3839,'37RG236',4519.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.497239498415666,-0.497239497372494,-
0.305432619099008,613.206384028939,0.796185669701821,0.0,0.875586,0.037571,0.053511,37,2,36,5192,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3840,'37RG237',4520.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.49886945782682,-0.498869456783648,-
0.305432619099008,613.371673190434,0.796234638038295,0.0,0.875586,0.037571,0.053511,37,2,37,5193,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3841,'37RG238',4521.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.500692370668971,-0.500692369625799,-
0.305432619099008,613.536799283013,0.796283542104217,0.0,0.875586,0.037571,0.053511,37,2,38,5194,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3842,'37RG239',4522.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.502707946367287,-0.502707945324115,-
0.305432619099008,613.701744283695,0.796332376651608,0.0,0.875586,0.037571,0.053511,37,2,39,5195,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3843,'37RG240',4523.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.50491587370692,-0.504915872663748,-
0.305432619099008,613.866490005734,0.796381136394341,0.0,0.875586,0.037571,0.053511,37,2,40,5196,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3844,'37RG241',4524.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.507315820685128,-0.507315819641956,-
0.305432619099008,614.031018083113,0.796429816003572,0.0,0.875586,0.037571,0.053511,37,2,41,5197,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3845,'37RG242',4525.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.50990743434535,-0.509907433302178,-
0.305432619099008,614.195309955308,0.796478410103263,0.0,0.875586,0.037571,0.053511,37,2,42,5198,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3846,'37RG243',4526.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.512690340593884,-0.512690339550712,-
0.305432619099008,614.359346852346,0.796526913265785,0.0,0.875586,0.037571,0.053511,37,2,43,5199,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3847,'37RG244',4527.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.515664143999685,-0.515664142956513,-
0.305432619099008,614.523109780171,0.796575320007629,0.0,0.875586,0.037571,0.053511,37,2,44,5200,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3848,'37RG245',4528.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.518828427577282,-0.51882842653411,-
0.305432619099008,614.68657950636,0.796623624785213,0.0,0.875586,0.037571,0.053511,37,2,45,5201,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3849,'37RG246',4529.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.522182752553803,-0.522182751510631,-
0.305432619099008,614.849736546185,0.796671821990797,0.0,0.875586,0.037571,0.053511,37,2,46,5202,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3850,'37RG247',4530.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.525726658119829,-0.525726657076657,-
0.305432619099008,615.012561149063,0.796719905948526,0.0,0.875586,0.037571,0.053511,37,2,47,5203,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3851,'37RG248',4531.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.529459661165588,-0.529459660122416,-
0.305432619099008,615.175033285412,0.796767870910574,0.0,0.875586,0.037571,0.053511,37,2,48,5204,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3852,'37RG249',4532.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.533381256001739,-0.533381254958567,-
0.305432619099008,615.33713263393,0.796815711053436,0.0,0.875586,0.037571,0.053511,37,2,49,5205,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3853,'37RG250',4533.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.537490914066225,-0.537490913023053,-
0.305432619099008,615.498838569325,0.796863420474339,0.0,0.875586,0.037571,0.053511,37,2,50,5206,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3854,'37RG251',4534.0,805.0,0.148182156863,1.45065201244166,1.45065201244166,0.0,1.45065201158995,-0.54178808361744,-0.541788082574268,-
0.305432619099008,615.660130150523,0.796910993187803,0.0,0.875586,0.037571,0.053511,37,2,51,5207,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3855,'38RG101',4544.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.570134168605108,-0.570134167612348,-
0.122173047639603,615.819007783823,0.79695813190613,0.0,0.875678,0.037547,0.053519,38,1,1,5219,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3856,'38RG102',4545.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.565628686522423,-0.565628685529663,-
0.122173047639603,615.978344014961,0.79700496555284,0.0,0.875678,0.037547,0.053519,38,1,2,5220,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3857,'38RG103',4546.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.561308374823034,-0.561308373830274,-
0.122173047639603,616.138117020218,0.797051913782433,0.0,0.875678,0.037547,0.053519,38,1,3,5221,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3858,'38RG104',4547.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.557173648220111,-0.557173647227351,-
0.122173047639603,616.298305308598,0.797098970089909,0.0,0.875678,0.037547,0.053519,38,1,4,5222,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3859,'38RG105',4548.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.553224895787768,-0.553224894795008,-
0.122173047639603,616.458887711042,0.797146128075615,0.0,0.875678,0.037547,0.053519,38,1,5,5223,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3860,'38RG106',4549.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.549462481383692,-0.549462480390932,-
0.122173047639603,616.619843369173,0.797193381441887,0.0,0.875678,0.037547,0.053519,38,1,6,5224,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3861,'38RG107',4550.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.545886744058052,-0.545886743065292,-
0.122173047639603,616.781151723593,0.797240723989547,0.0,0.875678,0.037547,0.053519,38,1,7,5225,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3862,'38RG108',4551.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.542497998448134,-0.542497997455374,-
0.122173047639603,616.942792501765,0.797288149614283,0.0,0.875678,0.037547,0.053519,38,1,8,5226,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3863,'38RG109',4552.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.539296535158215,-0.539296534165455,-
0.122173047639603,617.104745705492,0.797335652302911,0.0,0.875678,0.037547,0.053519,38,1,9,5227,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3864,'38RG110',4553.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.536282621124379,-0.536282620131619,-
0.122173047639603,617.26699159803,0.797383226129527,0.0,0.875678,0.037547,0.053519,38,1,10,5228,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3865,'38RG111',4554.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.533456499963592,-0.533456498970832,-
0.122173047639603,617.429510690854,0.79743086525156,0.0,0.875678,0.037547,0.053519,38,1,11,5229,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3866,'38RG112',4555.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.530818392306991,-0.530818391314231,-
0.122173047639603,617.592283730093,0.797478563905736,0.0,0.875678,0.037547,0.053519,38,1,12,5230,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3867,'38RG113',4556.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.528368496116798,-0.528368495124038,-
0.122173047639603,617.755291682673,0.797526316403949,0.0,0.875678,0.037547,0.053519,38,1,13,5231,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3868,'38RG114',4557.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.526106986986712,-0.526106985993952,-
0.122173047639603,617.918515722183,0.797574117129057,0.0,0.875678,0.037547,0.053519,38,1,14,5232,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3869,'38RG115',4558.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.524034018425298,-0.524034017432538,-
0.122173047639603,618.081937214482,0.797621960530608,0.0,0.875678,0.037547,0.053519,38,1,15,5233,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3870,'38RG116',4559.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.522149722122358,-0.522149721129598,-
0.122173047639603,618.24553770308,0.797669841120499,0.0,0.875678,0.037547,0.053519,38,1,16,5234,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3871,'38RG117',4560.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.520454208197777,-0.520454207205017,-
0.122173047639603,618.40929889431,0.797717753468581,0.0,0.875678,0.037547,0.053519,38,1,17,5235,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3872,'38RG118',4561.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.518947565432974,-0.518947564440214,-
0.122173047639603,618.573202642312,0.79776569219821,0.0,0.875678,0.037547,0.053519,38,1,18,5236,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3873,'38RG119',4562.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.517629861484437,-0.517629860491677,-
0.122173047639603,618.737230933855,0.797813651981757,0.0,0.875678,0.037547,0.053519,38,1,19,5237,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3874,'38RG120',4563.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.51650114307946,-0.5165011420867,-
0.122173047639603,618.901365873016,0.797861627536078,0.0,0.875678,0.037547,0.053519,38,1,20,5238,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3875,'38RG121',4564.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.515561436193878,-0.515561435201118,-
0.122173047639603,619.065589665738,0.797909613617958,0.0,0.875678,0.037547,0.053519,38,1,21,5239,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3876,'38RG122',4565.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.514810746211502,-0.514810745218742,-
0.122173047639603,619.229884604289,0.797957605019522,0.0,0.875678,0.037547,0.053519,38,1,22,5240,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3877,'38RG123',4566.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.514249058065574,-0.514249057072814,-
0.122173047639603,619.394233051641,0.798005596563642,0.0,0.875678,0.037547,0.053519,38,1,23,5241,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3878,'38RG124',4567.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.513876336361968,-0.513876335369208,-
0.122173047639603,619.558617425792,0.798053583099317,0.0,0.875678,0.037547,0.053519,38,1,24,5242,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3879,'38RG125',4568.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.51369252548389,-0.51369252449113,-
0.122173047639603,619.723020184054,0.798101559497057,0.0,0.875678,0.037547,0.053519,38,1,25,5243,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3880,'38RG126',4569.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.513697549678675,-0.513697548685915,-
0.122173047639603,619.887423807321,0.798149520644266,0.0,0.875678,0.037547,0.053519,38,1,26,5244,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3881,'38RG127',4570.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.513891313126138,-0.513891312133378,-
0.122173047639603,620.051810784343,0.798197461440631,0.0,0.875678,0.037547,0.053519,38,1,27,5245,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3882,'38RG128',4571.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.514273699988657,-0.514273698995897,-
0.122173047639603,620.216163596025,0.798245376793521,0.0,0.875678,0.037547,0.053519,38,1,28,5246,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3883,'38RG129',4572.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.514844574443459,-0.514844573450699,-
0.122173047639603,620.380464699772,0.798293261613411,0.0,0.875678,0.037547,0.053519,38,1,29,5247,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3884,'38RG130',4573.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.515603780696602,-0.515603779703842,-
0.122173047639603,620.544696513897,0.798341110809321,0.0,0.875678,0.037547,0.053519,38,1,30,5248,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3885,'38RG131',4574.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.516551142979253,-0.516551141986493,-
0.122173047639603,620.708841402116,0.798388919284294,0.0,0.875678,0.037547,0.053519,38,1,31,5249,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3886,'38RG132',4575.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.517686465526033,-0.517686464533273,-
0.122173047639603,620.87288165815,0.798436681930907,0.0,0.875678,0.037547,0.053519,38,1,32,5250,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3887,'38RG133',4576.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.519009532535989,-0.519009531543229,-
0.122173047639603,621.036799490449,0.798484393626821,0.0,0.875678,0.037547,0.053519,38,1,33,5251,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3888,'38RG134',4577.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.520520108116067,-0.520520107123307,-
0.122173047639603,621.200577007068,0.79853204923038,0.0,0.875678,0.037547,0.053519,38,1,34,5252,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3889,'38RG135',4578.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.522217936207241,-0.522217935214481,-
0.122173047639603,621.364196200704,0.798579643576268,0.0,0.875678,0.037547,0.053519,38,1,35,5253,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3890,'38RG136',4579.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.524102740494051,-0.524102739501291,-
0.122173047639603,621.527638933925,0.798627171471215,0.0,0.875678,0.037547,0.053519,38,1,36,5254,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3891,'38RG137',4580.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.526174224297023,-0.526174223304263,-
0.122173047639603,621.690886924597,0.798674627689779,0.0,0.875678,0.037547,0.053519,38,1,37,5255,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3892,'38RG138',4581.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.528432070448979,-0.528432069456219,-
0.122173047639603,621.853921731553,0.798722006970186,0.0,0.875678,0.037547,0.053519,38,1,38,5256,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3893,'38RG139',4582.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.530875941155032,-0.530875940162272,-
0.122173047639603,622.016724740493,0.798769304010257,0.0,0.875678,0.037547,0.053519,38,1,39,5257,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3894,'38RG140',4583.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.533505477836833,-0.533505476844073,-
0.122173047639603,622.179277150167,0.798816513463411,0.0,0.875678,0.037547,0.053519,38,1,40,5258,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3895,'38RG141',4584.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.536320300961336,-0.536320299968576,-
0.122173047639603,622.341559958838,0.798863629934753,0.0,0.875678,0.037547,0.053519,38,1,41,5259,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3896,'38RG142',4585.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.539320009854429,-0.539320008861669,-
0.122173047639603,622.503553951057,0.798910647977261,0.0,0.875678,0.037547,0.053519,38,1,42,5260,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3897,'38RG143',4586.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.542504182499883,-0.542504181507123,-
0.122173047639603,622.665239684774,0.798957562088068,0.0,0.875678,0.037547,0.053519,38,1,43,5261,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3898,'38RG144',4587.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.545872375323832,-0.545872374331072,-
0.122173047639603,622.826597478792,0.799004366704844,0.0,0.875678,0.037547,0.053519,38,1,44,5262,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3899,'38RG145',4588.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.54942412296569,-0.54942412197293,-
0.122173047639603,622.9876074006,0.799051056202298,0.0,0.875678,0.037547,0.053519,38,1,45,5263,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3900,'38RG146',4589.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.55315893803526,-0.5531589370425,-
0.122173047639603,623.148249254601,0.799097624888787,0.0,0.875678,0.037547,0.053519,38,1,46,5264,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3901,'38RG147',4590.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.557076310856943,-0.557076309864183,-
0.122173047639603,623.308502570747,0.799144067003049,0.0,0.875678,0.037547,0.053519,38,1,47,5265,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3902,'38RG148',4591.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.5611757092016,-0.56117570820884,-
0.122173047639603,623.468346593624,0.799190376711064,0.0,0.875678,0.037547,0.053519,38,1,48,5266,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3903,'38RG149',4592.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.565456578006547,-0.565456577013787,-
0.122173047639603,623.627760271982,0.799236548103045,0.0,0.875678,0.037547,0.053519,38,1,49,5267,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3904,'38RG150',4593.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.569918339083607,-0.569918338090847,-
0.122173047639603,623.786722248756,0.799282575190572,0.0,0.875678,0.037547,0.053519,38,1,50,5268,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3905,'38RG151',4594.0,805.0,0.148615490196,1.45049960483847,1.45049960483847,0.0,1.45049960398685,-0.574560390816871,-0.574560389824111,-
0.122173047639603,623.945210851579,0.799328451903862,0.0,0.875678,0.037547,0.053519,38,1,51,5269,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3906,'38RG201',4603.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.590547943504451,-0.590547942534003,-
0.122173047639603,624.102465537096,0.799374065415099,0.0,0.875766,0.037524,0.053527,38,2,1,5277,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3907,'38RG202',4604.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.585711039767147,-0.585711038796699,-
0.122173047639603,624.260229471405,0.799419557876166,0.0,0.875766,0.037524,0.053527,38,2,2,5278,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3908,'38RG203',4605.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.581053516538654,-0.581053515568206,-
0.122173047639603,624.418480336167,0.799465177785304,0.0,0.875766,0.037524,0.053527,38,2,3,5279,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3909,'38RG204',4606.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.576575839373624,-0.576575838403176,-
0.122173047639603,624.577196149807,0.799510918603826,0.0,0.875766,0.037524,0.053527,38,2,4,5280,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3910,'38RG205',4607.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.572278448112473,-0.572278447142025,-
0.122173047639603,624.736355258564,0.799556773897826,0.0,0.875766,0.037524,0.053527,38,2,5,5281,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3911,'38RG206',4608.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.568161757301289,-0.568161756330841,-
0.122173047639603,624.895936327029,0.799602737335398,0.0,0.875766,0.037524,0.053527,38,2,6,5282,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3912,'38RG207',4609.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.564226156600355,-0.564226155629907,-
0.122173047639603,625.055918328216,0.799648802683735,0.0,0.875766,0.037524,0.053527,38,2,7,5283,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3913,'38RG208',4610.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.560472011180799,-0.560472010210351,-
0.122173047639603,625.216280533175,0.799694963806078,0.0,0.875766,0.037524,0.053527,38,2,8,5284,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3914,'38RG209',4611.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.556899662108833,-0.556899661138385,-
0.122173047639603,625.377002500167,0.79974121465855,0.0,0.875766,0.037524,0.053527,38,2,9,5285,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3915,'38RG210',4612.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.553509426716963,-0.553509425746515,-
0.122173047639603,625.538064063448,0.799787549286869,0.0,0.875766,0.037524,0.053527,38,2,10,5286,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3916,'38RG211',4613.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.550301598962121,-0.550301597991673,-
0.122173047639603,625.699445321657,0.799833961822951,0.0,0.875766,0.037524,0.053527,38,2,11,5287,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3917,'38RG212',4614.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.54727644976986,-0.547276448799412,-
0.122173047639603,625.861126625846,0.799880446481412,0.0,0.875766,0.037524,0.053527,38,2,12,5288,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3918,'38RG213',4615.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.544434227364419,-0.544434226393971,-
0.122173047639603,626.023088567172,0.799926997555967,0.0,0.875766,0.037524,0.053527,38,2,13,5289,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3919,'38RG214',4616.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.541775157584446,-0.541775156613998,-
0.122173047639603,626.18531196428,0.799973609415747,0.0,0.875766,0.037524,0.053527,38,2,14,5290,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3920,'38RG215',4617.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.539299444183697,-0.539299443213249,-
0.122173047639603,626.34777785038,0.80002027650153,0.0,0.875766,0.037524,0.053527,38,2,15,5291,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3921,'38RG216',4618.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.537007269116791,-0.537007268146343,-
0.122173047639603,626.510467460063,0.800066993321895,0.0,0.875766,0.037524,0.053527,38,2,16,5292,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3922,'38RG217',4619.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.534898792809428,-0.53489879183898,-0.122173047639603,626.673362215862,0.800113754449308,0.0,0.875766,0.037524,0.053527,38,2,17,5293,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3923,'38RG218',4620.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.532974154413018,-0.53297415344257,-0.122173047639603,626.836443714587,0.800160554516148,0.0,0.875766,0.037524,0.053527,38,2,18,5294,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3924,'38RG219',4621.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.531233472043453,-0.531233471073005,-0.122173047639603,626.999693713456,0.800207388210669,0.0,0.875766,0.037524,0.053527,38,2,19,5295,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3925,'38RG220',4622.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.529676843003663,-0.529676842033215,-0.122173047639603,627.163094116029,0.800254250272922,0.0,0.875766,0.037524,0.053527,38,2,20,5296,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3926,'38RG221',4623.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.528304343990129,-0.528304343019681,-0.122173047639603,627.32662695799,0.800301135490624,0.0,0.875766,0.037524,0.053527,38,2,21,5297,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3927,'38RG222',4624.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.527116031282751,-0.527116030312303,-0.122173047639603,627.490274392778,0.800348038694996,0.0,0.875766,0.037524,0.053527,38,2,22,5298,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3928,'38RG223',4625.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.526111940918397,-0.526111939947949,-0.122173047639603,627.654018677092,0.800394954756565,0.0,0.875766,0.037524,0.053527,38,2,23,5299,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3929,'38RG224',4626.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.525292088847727,-0.525292087877279,-0.122173047639603,627.817842156296,0.800441878580944,0.0,0.875766,0.037524,0.053527,38,2,24,5300,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3930,'38RG225',4627.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.524656471075246,-0.524656470104798,-0.122173047639603,627.981727249739,0.800488805104588,0.0,0.875766,0.037524,0.053527,38,2,25,5301,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3931,'38RG226',4628.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.524205063782595,-0.524205062812147,-0.122173047639603,628.145656436008,0.800535729290541,0.0,0.875766,0.037524,0.053527,38,2,26,5302,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3932,'38RG227',4629.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.523937823435275,-0.523937822464827,-0.122173047639603,628.309612238138,0.80058264612417,0.0,0.875766,0.037524,0.053527,38,2,27,5303,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3933,'38RG228',4630.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.523854686872176,-0.523854685901728,-0.122173047639603,628.473577208801,0.800629550608901,0.0,0.875766,0.037524,0.053527,38,2,28,5304,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3934,'38RG229',4631.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.523955571378621,-0.523955570408173,-0.122173047639603,628.63753391548,0.800676437761955,0.0,0.875766,0.037524,0.053527,38,2,29,5305,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3935,'38RG230',4632.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.524240374742497,-0.524240373772049,-0.122173047639603,628.801464925668,0.800723302610092,0.0,0.875766,0.037524,0.053527,38,2,30,5306,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3936,'38RG231',4633.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.52470897529362,-0.524708974323172,-0.122173047639603,628.965352792091,0.800770140185375,0.0,0.875766,0.037524,0.053527,38,2,31,5307,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3937,'38RG232',4634.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.525361231926758,-0.52536123095631,-0.122173047639603,629.129180037988,0.800816945520944,0.0,0.875766,0.037524,0.053527,38,2,32,5308,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3938,'38RG233',4635.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.526196984107713,-0.526196983137265,-0.122173047639603,629.29292914246,0.800863713646826,0.0,0.875766,0.037524,0.053527,38,2,33,5309,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3939,'38RG234',4636.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.52721605186317,-0.527216050892722,-0.122173047639603,629.456582525912,0.800910439585765,0.0,0.875766,0.037524,0.053527,38,2,34,5310,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3940,'38RG235',4637.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.528418235754472,-0.528418234784024,-0.122173047639603,629.620122535599,0.800957118349097,0.0,0.875766,0.037524,0.053527,38,2,35,5311,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3941,'38RG236',4638.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.52980331683495,-0.529803315864502,-0.122173047639603,629.783531431311,0.801003744932658,0.0,0.875766,0.037524,0.053527,38,2,36,5312,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3942,'38RG237',4639.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.531371056591467,-0.531371055621019,-0.122173047639603,629.946791371192,0.801050314312747,0.0,0.875766,0.037524,0.053527,38,2,37,5313,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3943,'38RG238',4640.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.533121196870233,-0.533121195899785,-0.122173047639603,630.109884397737,0.80109682144213,0.0,0.875766,0.037524,0.053527,38,2,38,5314,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3944,'38RG239',4641.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.535053459787135,-0.535053458816687,-0.122173047639603,630.27279242397,0.801143261246111,0.0,0.875766,0.037524,0.053527,38,2,39,5315,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3945,'38RG240',4642.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.537167547622779,-0.537167546652331,-0.122173047639603,630.435497219825,0.801189628618662,0.0,0.875766,0.037524,0.053527,38,2,40,5316,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3946,'38RG241',4643.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.539463142702459,-0.539463141732011,-0.122173047639603,630.597980398761,0.801235918418613,0.0,0.875766,0.037524,0.053527,38,2,41,5317,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3947,'38RG242',4644.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.541939907261386,-0.541939906290938,-0.122173047639603,630.760223404605,0.80128212546593,0.0,0.875766,0.037524,0.053527,38,2,42,5318,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3948,'38RG243',4645.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.544597483295788,-0.54459748232534,-0.122173047639603,630.922207498675,0.801328244538055,0.0,0.875766,0.037524,0.053527,38,2,43,5319,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3949,'38RG244',4646.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.547435492399507,-0.547435491429059,-0.122173047639603,631.083913747169,0.801374270366338,0.0,0.875766,0.037524,0.053527,38,2,44,5320,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3950,'38RG245',4647.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.550453535587052,-0.550453534616604,-0.122173047639603,631.245323008874,0.801420197632558,0.0,0.875766,0.037524,0.053527,38,2,45,5321,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3951,'38RG246',4648.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.553651193103426,-0.553651192132978,-0.122173047639603,631.406415923179,0.801466020965531,0.0,0.875766,0.037524,0.053527,38,2,46,5322,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3952,'38RG247',4649.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.5570280242204,-0.557028023249952,-0.122173047639603,631.567172898444,0.801511734937822,0.0,0.875766,0.037524,0.053527,38,2,47,5323,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3953,'38RG248',4650.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.560583567021019,-0.560583566050571,-0.122173047639603,631.727574100719,0.801557334062561,0.0,0.875766,0.037524,0.053527,38,2,48,5324,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3954,'38RG249',4651.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.564317338171093,-0.564317337200645,-0.122173047639603,631.887599442853,0.801602812790365,0.0,0.875766,0.037524,0.053527,38,2,49,5325,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3955,'38RG250',4652.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.56822883267926,-0.568228831708812,-0.122173047639603,632.047228573996,0.801648165506377,0.0,0.875766,0.037524,0.053527,38,2,50,5326,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3956,'38RG251',4653.0,805.0,0.149081568627,1.45035385361585,1.45035385361585,0.0,1.45035385276432,-0.572317523646304,-0.572317522675856,-0.122173047639603,632.206440869532,0.801693386527024,0.0,0.875766,0.037524,0.053527,38,2,51,5327,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3957,'39RG101',4663.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.528494769009056,-0.528494767943116,0.0436332312998582,632.370376648988,0.801739201714604,0.0,0.875849,0.037502,0.053536,39,1,1,5343,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3958,'39RG102',4664.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.524484255212016,-0.524484254146076,0.0436332312998582,632.534696281633,0.801785723863895,0.0,0.875849,0.037502,0.053536,39,1,2,5344,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3959,'39RG103',4665.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.520656496722756,-0.52065649565616,0.0436332312998582,632.699379877208,0.801832334669006,0.0,0.875849,0.037502,0.053536,39,1,3,5345,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3960,'39RG104',4666.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.517011806050332,-0.517011804984392,0.0436332312998582,632.86440785542,0.801879028432043,0.0,0.875849,0.037502,0.053536,39,1,4,5346,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3961,'39RG105',4667.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.513550473409376,-0.513550472343436,0.0436332312998582,633.029760933724,0.801925799549328,0.0,0.875849,0.037502,0.053536,39,1,5,5347,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3962,'39RG106',4668.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.510272767094202,-0.510272766028262,0.0436332312998582,633.195420114733,0.801972642507762,0.0,0.875849,0.037502,0.053536,39,1,6,5348,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3963,'39RG107',4669.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.507178933838228,-0.507178932772288,0.0436332312998582,633.361366673272,0.802019551881088,0.0,0.875849,0.037502,0.053536,39,1,7,5349,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3964,'39RG108',4670.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.504269199158345,-0.504269198092405,0.0436332312998582,633.527582143113,0.802066522326065,0.0,0.875849,0.037502,0.053536,39,1,8,5350,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (3965,'39RG109',4671.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.501543767684035,-0.501543766618095,0.0436332312998582,633.694048303394,0.802113548578557,0.0,0.875849,0.037502,0.053536,39,1,9,5351,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3966,'39RG110',4672.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.499002823470706,-0.499002822404766,0.0436332312998582,633.860747164763,0.802160625449545,0.0,0.875849,0.037502,0.053536,39,1,10,5352,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3967,'39RG111',4673.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.496646530297022,-0.496646529231082,0.0436332312998582,634.027660955252,0.802207747821066,0.0,0.875849,0.037502,0.053536,39,1,11,5353,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3968,'39RG112',4674.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.494475031946267,-0.494475030880327,0.0436332312998582,634.194772105915,0.80225491064209,0.0,0.875849,0.037502,0.053536,39,1,12,5354,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3969,'39RG113',4675.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.49248845247096,-0.49248845140502,0.0436332312998582,634.362063236239,0.802302108924337,0.0,0.875849,0.037502,0.053536,39,1,13,5355,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3970,'39RG114',4676.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.490686896441035,-0.490686895375095,0.0436332312998582,634.529517139368,0.80234933773804,0.0,0.875849,0.037502,0.053536,39,1,14,5356,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3971,'39RG115',4677.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.489070449175111,-0.489070448109171,0.0436332312998582,634.697116767126,0.802396592207671,0.0,0.875849,0.037502,0.053536,39,1,15,5357,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3972,'39RG116',4678.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.487639176954774,-0.48763917588834,0.0436332312998582,634.864845214906,0.802443867507608,0.0,0.875849,0.037502,0.053536,39,1,16,5358,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3973,'39RG117',4679.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.486393127221697,-0.486393126155757,0.0436332312998582,635.032685706397,0.802491158857788,0.0,0.875849,0.037502,0.053536,39,1,17,5359,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3974,'39RG118',4680.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.485332328757623,-0.485332327691683,0.0436332312998582,635.200621578203,0.802538461519317,0.0,0.875849,0.037502,0.053536,39,1,18,5360,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3975,'39RG119',4681.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.484456791846876,-0.484456790780936,0.0436332312998582,635.368636264358,0.802585770790065,0.0,0.875849,0.037502,0.053536,39,1,19,5361,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3976,'39RG120',4682.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.483766508421597,-0.483766507355657,0.0436332312998582,635.536713280759,0.802633082000238,0.0,0.875849,0.037502,0.053536,39,1,20,5362,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3977,'39RG121',4683.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.483261452189447,-0.483261451123507,0.0436332312998582,635.704836209538,0.80268039050794,0.0,0.875849,0.037502,0.053536,39,1,21,5363,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3978,'39RG122',4684.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.482941578743821,-0.482941577677881,0.0436332312998582,635.872988683382,0.80272769169473,0.0,0.875849,0.037502,0.053536,39,1,22,5364,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3979,'39RG123',4685.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.482806825656817,-0.482806824590877,0.0436332312998582,636.04115436984,0.802774980961172,0.0,0.875849,0.037502,0.053536,39,1,23,5365,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3980,'39RG124',4686.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.482857112554287,-0.482857111488347,0.0436332312998582,636.20931695561,0.802822253722397,0.0,0.875849,0.037502,0.053536,39,1,24,5366,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3981,'39RG125',4687.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.483092341173966,-0.483092340108026,0.0436332312998582,636.377460130848,0.802869505403664,0.0,0.875849,0.037502,0.053536,39,1,25,5367,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3982,'39RG126',4688.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.483512395405869,-0.483512394339929,0.0436332312998582,636.545567573498,0.802916731435945,0.0,0.875849,0.037502,0.053536,39,1,26,5368,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3983,'39RG127',4689.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.484117141315559,-0.48411714024961,0.0436332312998582,636.713622933675,0.802963927251523,0.0,0.875849,0.037502,0.053536,39,1,27,5369,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3984,'39RG128',4690.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.484906427150209,-0.484906426084269,0.0436332312998582,636.88160981811,0.803011088279613,0.0,0.875849,0.037502,0.053536,39,1,28,5370,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3985,'39RG129',4691.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.485880083327481,-0.485880082261541,0.0436332312998582,637.049511774684,0.80305820994202,0.0,0.875849,0.037502,0.053536,39,1,29,5371,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3986,'39RG130',4692.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.487037922407738,-0.487037921341798,0.0436332312998582,637.217312277054,0.803105287648822,0.0,0.875849,0.037502,0.053536,39,1,30,5372,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3987,'39RG131',4693.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.488379739049017,-0.488379737983077,0.0436332312998582,637.384994709414,0.803152316794096,0.0,0.875849,0.037502,0.053536,39,1,31,5373,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3988,'39RG132',4694.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.489905309945841,-0.489905308879901,0.0436332312998582,637.55254235138,0.803199292751692,0.0,0.875849,0.037502,0.053536,39,1,32,5374,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3989,'39RG133',4695.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.491614393751286,-0.491614392685346,0.0436332312998582,637.719938363038,0.803246210871049,0.0,0.875849,0.037502,0.053536,39,1,33,5375,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3990,'39RG134',4696.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.493506730983073,-0.493506729917133,0.0436332312998582,637.887165770169,0.803293066473073,0.0,0.875849,0.037502,0.053536,39,1,34,5376,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3991,'39RG135',4697.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.495582043913353,-0.495582042847413,0.0436332312998582,638.054207449659,0.80333985484606,0.0,0.875849,0.037502,0.053536,39,1,35,5377,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3992,'39RG136',4698.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.497840036443223,-0.497840035377283,0.0436332312998582,638.221046115131,0.803386571241705,0.0,0.875849,0.037502,0.053536,39,1,36,5378,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3993,'39RG137',4699.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.500280393961384,-0.500280392895444,0.0436332312998582,638.387664302797,0.803433210871153,0.0,0.875849,0.037502,0.053536,39,1,37,5379,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3994,'39RG138',4700.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.502902783187823,-0.502902782121883,0.0436332312998582,638.554044357567,0.80347976890115,0.0,0.875849,0.037502,0.053536,39,1,38,5380,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3995,'39RG139',4701.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.505706852002541,-0.505706850936601,0.0436332312998582,638.72016841942,0.803526240450252,0.0,0.875849,0.037502,0.053536,39,1,39,5381,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3996,'39RG140',4702.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.508692229259795,-0.508692228193855,0.0436332312998582,638.886018410062,0.803572620585127,0.0,0.875849,0.037502,0.053536,39,1,40,5382,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3997,'39RG141',4703.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.511858524588058,-0.511858523522118,0.0436332312998582,639.051576019893,0.803618904316947,0.0,0.875849,0.037502,0.053536,39,1,41,5383,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3998,'39RG142',4704.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.515205328176352,-0.515205327110412,0.0436332312998582,639.216822695298,0.80366508659787,0.0,0.875849,0.037502,0.053536,39,1,42,5384,'ccl_gap');
INSERT INTO `rf_gap` VALUES (3999,'39RG143',4705.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.518732210546725,-0.518732209480785,0.0436332312998582,639.381739626276,0.803711162317618,0.0,0.875849,0.037502,0.053536,39,1,43,5385,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4000,'39RG144',4706.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.522438722314264,-0.522438721248324,0.0436332312998582,639.546307734445,0.803757126300166,0.0,0.875849,0.037502,0.053536,39,1,44,5386,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4001,'39RG145',4707.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.526324393933857,-0.52632439286797,0.0436332312998582,639.710507661417,0.803802973300536,0.0,0.875849,0.037502,0.053536,39,1,45,5387,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4002,'39RG146',4708.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.530388735435013,-0.530388734369073,0.0436332312998582,639.874319757588,0.803848698001698,0.0,0.875849,0.037502,0.053536,39,1,46,5388,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4003,'39RG147',4709.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.534631236145381,-0.534631235079441,0.0436332312998582,640.03772407134,0.803894295011607,0.0,0.875849,0.037502,0.053536,39,1,47,5389,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4004,'39RG148',4710.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.539051364402157,-0.539051363336217,0.0436332312998582,640.200700338702,0.803939758860342,0.0,0.875849,0.037502,0.053536,39,1,48,5390,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4005,'39RG149',4711.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.543648567253422,-0.543648566187482,0.0436332312998582,640.363227973455,0.803985083997395,0.0,0.875849,0.037502,0.053536,39,1,49,5391,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4006,'39RG150',4712.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.548422270149034,-0.548422269083094,0.0436332312998582,640.525286057741,0.80403026478979,0.0,0.875849,0.037502,0.053536,39,1,50,5392,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4007,'39RG151',4713.0,805.0,0.149483529412,1.45021641055221,1.45021641055221,0.0,1.45021640970076,-0.553371876621733,-0.553371875555793,0.0436332312998582,640.686853333161,0.804075295516081,0.0,0.875849,0.037502,0.053536,39,1,51,5393,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4008,'39RG201',4722.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.560474886047886,-
0.560474885063682,0.0436332312998582,640.848112676139,0.804120198808504,0.0,0.875933,0.03748,0.053544,39,2,1,5401,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4009,'39RG202',4723.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.556674815384773,-
0.556674814400569,0.0436332312998582,641.009756662803,0.804165096499678,0.0,0.875933,0.03748,0.053544,39,2,2,5402,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4010,'39RG203',4724.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.553050586768602,-
0.553050585784398,0.0436332312998582,641.171765383708,0.804210082065598,0.0,0.875933,0.03748,0.053544,39,2,3,5403,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4011,'39RG204',4725.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.549602510624793,-
0.549602509640589,0.0436332312998582,641.33411920256,0.804255149907594,0.0,0.875933,0.03748,0.053544,39,2,4,5404,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4012,'39RG205',4726.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.546330875521707,-
0.546330874537503,0.0436332312998582,641.496798745354,0.804300294509215,0.0,0.875933,0.03748,0.053544,39,2,5,5405,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4013,'39RG206',4727.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.543235948496949,-
0.543235947512745,0.0436332312998582,641.659784889184,0.804345510433057,0.0,0.875933,0.03748,0.053544,39,2,6,5406,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4014,'39RG207',4728.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.540317975370967,-
0.540317974386763,0.0436332312998582,641.823058750723,0.804390792317517,0.0,0.875933,0.03748,0.053544,39,2,7,5407,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4015,'39RG208',4729.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.537577181047659,-
0.537577180063455,0.0436332312998582,641.986601674394,0.804436134873452,0.0,0.875933,0.03748,0.053544,39,2,8,5408,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4016,'39RG209',4730.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.535013769801565,-
0.535013768817361,0.0436332312998582,642.150395220271,0.804481532880772,0.0,0.875933,0.03748,0.053544,39,2,9,5409,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4017,'39RG210',4731.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.532627925551444,-
0.53262792456724,0.0436332312998582,642.314421151704,0.804526981184949,0.0,0.875933,0.03748,0.053544,39,2,10,5410,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4018,'39RG211',4732.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.530419812120015,-
0.53041981135811,0.0436332312998582,642.478661422709,0.804572474693476,0.0,0.875933,0.03748,0.053544,39,2,11,5411,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4019,'39RG212',4733.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.528389573479479,-
0.528389572495275,0.0436332312998582,642.643098165132,0.80461800837225,0.0,0.875933,0.03748,0.053544,39,2,12,5412,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4020,'39RG213',4734.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.526537333982815,-
0.526537332998611,0.0436332312998582,642.80771367561,0.804663577241917,0.0,0.875933,0.03748,0.053544,39,2,13,5413,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4021,'39RG214',4735.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.52486319858044,-
0.524863197596236,0.0436332312998582,642.972490402342,0.804709176374159,0.0,0.875933,0.03748,0.053544,39,2,14,5414,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4022,'39RG215',4736.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.523367253022186,-
0.523367252037982,0.0436332312998582,643.13741031704,0.80475480088794,0.0,0.875933,0.03748,0.053544,39,2,15,5415,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4023,'39RG216',4737.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.522049564044486,-
0.522049563060282,0.0436332312998582,643.302457974709,0.804800445945718,0.0,0.875933,0.03748,0.053544,39,2,16,5416,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4024,'39RG217',4738.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.52091017954261,-
0.520910178558406,0.0436332312998582,643.467614353337,0.804846106749621,0.0,0.875933,0.03748,0.053544,39,2,17,5417,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4025,'39RG218',4739.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.519949128727681,-
0.519949127743477,0.0436332312998582,643.632862986764,0.804891778537598,0.0,0.875933,0.03748,0.053544,39,2,18,5418,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4026,'39RG219',4740.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.519166422268611,-
0.519166421284407,0.0436332312998582,643.798186877489,0.804937456579555,0.0,0.875933,0.03748,0.053544,39,2,19,5419,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4027,'39RG220',4741.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.518562052418878,-
0.518562051434674,0.0436332312998582,643.963569097394,0.804983136173457,0.0,0.875933,0.03748,0.053544,39,2,20,5420,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4028,'39RG221',4742.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.518135993127913,-
0.518135992143709,0.0436332312998582,644.128992773743,0.805028812641443,0.0,0.875933,0.03748,0.053544,39,2,21,5421,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4029,'39RG222',4743.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.517888200137256,-
0.517888199153052,0.0436332312998582,644.294441075146,0.805074481325913,0.0,0.875933,0.03748,0.053544,39,2,22,5422,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4030,'39RG223',4744.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.517818611061343,-
0.517818610077139,0.0436332312998582,644.459897197501,0.805120137585628,0.0,0.875933,0.03748,0.053544,39,2,23,5423,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4031,'39RG224',4745.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.517927145453178,-
0.517927144468974,0.0436332312998582,644.625344349931,0.805165776791807,0.0,0.875933,0.03748,0.053544,39,2,24,5424,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4032,'39RG225',4746.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.518213704854445,-
0.518213703870241,0.0436332312998582,644.790765740742,0.805211394324232,0.0,0.875933,0.03748,0.053544,39,2,25,5425,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4033,'39RG226',4747.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.518678172830753,-
0.518678171846549,0.0436332312998582,644.956144563403,0.805256985567372,0.0,0.875933,0.03748,0.053544,39,2,26,5426,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4034,'39RG227',4748.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.51932041499144,-
0.519320414007236,0.0436332312998582,645.121463982581,0.805302545906517,0.0,0.875933,0.03748,0.053544,39,2,27,5427,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4035,'39RG228',4749.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.520140278994666,-
0.520140278010462,0.0436332312998582,645.286707120243,0.805348070723942,0.0,0.875933,0.03748,0.053544,39,2,28,5428,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4036,'39RG229',4750.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.521137594537236,-
0.52113759355303,0.0436332312998582,645.451857041839,0.805393555395093,0.0,0.875933,0.03748,0.053544,39,2,29,5429,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4037,'39RG230',4751.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.522312173329701,-
0.522312172345497,0.0436332312998582,645.616896742584,0.80543899528481,0.0,0.875933,0.03748,0.053544,39,2,30,5430,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4038,'39RG231',4752.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.52366380905714,-
0.523663808072936,0.0436332312998582,645.781809133864,0.805484385743579,0.0,0.875933,0.03748,0.053544,39,2,31,5431,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4039,'39RG232',4753.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.52519227732467,-
0.525192276340466,0.0436332312998582,645.946577029768,0.805529722103836,0.0,0.875933,0.03748,0.053544,39,2,32,5432,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4040,'39RG233',4754.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.526897335589609,-
0.526897334605405,0.0436332312998582,646.111183133786,0.805574999676304,0.0,0.875933,0.03748,0.053544,39,2,33,5433,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4041,'39RG234',4755.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.528778723078509,-
0.528778722094305,0.0436332312998582,646.275610025661,0.805620213746396,0.0,0.875933,0.03748,0.053544,39,2,34,5434,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4042,'39RG235',4756.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.530836160691037,-
0.530836159706833,0.0436332312998582,646.439840148439,0.805665359570655,0.0,0.875933,0.03748,0.053544,39,2,35,5435,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4043,'39RG236',4757.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.533069350889753,-
0.533069349905549,0.0436332312998582,646.603855795721,0.805710432373271,0.0,0.875933,0.03748,0.053544,39,2,36,5436,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4044,'39RG237',4758.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.535477977576618,-
0.535477976592414,0.0436332312998582,646.767639099135,0.805755427342649,0.0,0.875933,0.03748,0.053544,39,2,37,5437,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4045,'39RG238',4759.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.538061705956202,-
0.538061704971998,0.0436332312998582,646.931172016049,0.805800339628053,0.0,0.875933,0.03748,0.053544,39,2,38,5438,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4046,'39RG239',4760.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.540820182386155,-
0.540820181401951,0.0436332312998582,647.094436317539,0.805845164336319,0.0,0.875933,0.03748,0.053544,39,2,39,5439,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4047,'39RG240',4761.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.543753034214865,-
0.543753033230661,0.0436332312998582,647.25741357664,0.805889896528652,0.0,0.875933,0.03748,0.053544,39,2,40,5440,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4048,'39RG241',4762.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.546859869607174,-
0.54685986862297,0.0436332312998582,647.420085156876,0.805934531217495,0.0,0.875933,0.03748,0.053544,39,2,41,5441,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4049,'39RG242',4763.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.550140277357676,-
0.550140276373472,0.0436332312998582,647.58243220111,0.805979063363497,0.0,0.875933,0.03748,0.053544,39,2,42,5442,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4050,'39RG243',4764.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.553593826692931,-
0.553593825708727,0.0436332312998582,647.744435620723,0.806023487872564,0.0,0.875933,0.03748,0.053544,39,2,43,5443,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4051,'39RG244',4765.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.557220067062224,-
0.55722006607802,0.0436332312998582,647.906076085134,0.806067799593006,0.0,0.875933,0.03748,0.053544,39,2,44,5444,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4052,'39RG245',4766.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.561018527917496,-
0.561018526933292,0.0436332312998582,648.067334011688,0.806111993312795,0.0,0.875933,0.03748,0.053544,39,2,45,5445,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4053,'39RG246',4767.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.564988718482616,-
0.56498871749841 2,0.0436332312998582,648.228189555928,0.806156063756911,0.0,0.875933,0.03748,0.053544,39,2,46,5446,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4054,'39RG247',4768.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.569130127513389,-
0.569130126529185,0.0436332312998582,648.388622602261,0.806200005584814,0.0,0.875933,0.03748,0.053544,39,2,47,5447,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4055,'39RG248',4769.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.573442223047102,-
0.573442222062898,0.0436332312998582,648.548612755054,0.806243813388022,0.0,0.875933,0.03748,0.053544,39,2,48,5448,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4056,'39RG249',4770.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.577924452143605,-
0.577924451159401,0.0436332312998582,648.70813933016,0.806287481687809,0.0,0.875933,0.03748,0.053544,39,2,49,5449,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4057,'39RG250',4771.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.582576240617349,-
0.582576239633145,0.0436332312998582,648.8671813469,0.806331004933025,0.0,0.875933,0.03748,0.053544,39,2,50,5450,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4058,'39RG251',4772.0,805.0,0.149917254902,1.4500773380678,1.4500773380678,0.0,1.45007733721643,-0.587396992761696,-
0.587396991777492,0.0436332312998582,649.025717520524,0.806374377498051,0.0,0.875933,0.03748,0.053544,39,2,51,5451,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4059,'40RG101',4782.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.547554137028972,-
0.547554135984313,0.253072741539178,649.188757895013,0.806418280500748,0.0,0.876016,0.037459,0.053552,40,1,1,5465,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4060,'40RG102',4783.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.543257468921167,-
0.543257467876508,0.253072741539178,649.352225118692,0.806462840628711,0.0,0.876016,0.037459,0.053552,40,1,2,5466,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4061,'40RG103',4784.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.539134878422654,-
0.539134877377995,0.253072741539178,649.516099118961,0.80650749826688,0.0,0.876016,0.037459,0.053552,40,1,3,5467,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4062,'40RG104',4785.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.535186713212491,-
0.535186712167832,0.253072741539178,649.68036013425,0.806552247867886,0.0,0.876016,0.037459,0.053552,40,1,4,5468,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4063,'40RG105',4786.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.531413299374802,-
0.53141329830143,0.253072741539178,649.844988703787,0.806597083975513,0.0,0.876016,0.037459,0.053552,40,1,5,5469,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4064,'40RG106',4787.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.527814941759254,-
0.527814940714595,0.253072741539178,650.009965656992,0.806642001221744,0.0,0.876016,0.037459,0.053552,40,1,6,5470,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4065,'40RG107',4788.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.524391924329608,-
0.524391923284949,0.253072741539178,650.175272102501,0.8066869943237,0.0,0.876016,0.037459,0.053552,40,1,7,5471,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4066,'40RG108',4789.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.521144510500045,-
0.521144509455386,0.253072741539178,650.34088941684,0.806732058080503,0.0,0.876016,0.037459,0.053552,40,1,8,5472,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4067,'40RG109',4790.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.518072943458792,-
0.518072942414133,0.253072741539178,650.506799232775,0.806777187370031,0.0,0.876016,0.037459,0.053552,40,1,9,5473,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4068,'40RG110',4791.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.515177446478952,-
0.515177445434293,0.253072741539178,650.672983427364,0.806822377145607,0.0,0.876016,0.037459,0.053552,40,1,10,5474,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4069,'40RG111',4792.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.51245822321596,-
0.51245822171301,0.253072741539178,650.839424109712,0.806867622432604,0.0,0.876016,0.037459,0.053552,40,1,11,5475,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4070,'40RG112',4793.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.509915457991519,-
0.50991545694686,0.253072741539178,651.006103608465,0.806912918324981,0.0,0.876016,0.037459,0.053552,40,1,12,5476,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4071,'40RG113',4794.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.507549316063917,-
0.507549315019258,0.253072741539178,651.173004459061,0.806958259981758,0.0,0.876016,0.037459,0.053552,40,1,13,5477,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4072,'40RG114',4795.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.50535994388411,-
0.505359942839451,0.253072741539178,651.340109390745,0.807003642623424,0.0,0.876016,0.037459,0.053552,40,1,14,5478,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4073,'40RG115',4796.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.503347469337741,-
0.503347468293082,0.253072741539178,651.507401313379,0.807049061528305,0.0,0.876016,0.037459,0.053552,40,1,15,5479,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4074,'40RG116',4797.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.501512001972765,-
0.501512000928106,0.253072741539178,651.674863304065,0.807094512028863,0.0,0.876016,0.037459,0.053552,40,1,16,5480,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4075,'40RG117',4798.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.499853633212312,-
0.499853632167653,0.253072741539178,651.842478593586,0.807139989507973,0.0,0.876016,0.037459,0.053552,40,1,17,5481,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4076,'40RG118',4799.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.498372436552978,-
0.498372435508319,0.253072741539178,652.010230552704,0.807185489395152,0.0,0.876016,0.037459,0.053552,40,1,18,5482,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4077,'40RG119',4800.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.497068467748293,-
0.497068466703634,0.253072741539178,652.17810267831,0.807231007162747,0.0,0.876016,0.037459,0.053552,40,1,19,5483,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4078,'40RG120',4801.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.49594176497697,-
0.495941763932311,0.253072741539178,652.346078579464,0.807276538322114,0.0,0.876016,0.037459,0.053552,40,1,20,5484,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4079,'40RG121',4802.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.494992348996364,-
0.494992347951705,0.253072741539178,652.514141963328,0.807322078419756,0.0,0.876016,0.037459,0.053552,40,1,21,5485,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4080,'40RG122',4803.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.494220223280672,-
0.494220222236013,0.253072741539178,652.682276621019,0.807367623033454,0.0,0.876016,0.037459,0.053552,40,1,22,5486,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4081,'40RG123',4804.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.49362537414389,-
0.493625373099231,0.253072741539178,652.850466413387,0.807413167768377,0.0,0.876016,0.037459,0.053552,40,1,23,5487,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4082,'40RG124',4805.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.493207770847655,-
0.493207769802996,0.253072741539178,653.018695256754,0.807458708253189,0.0,0.876016,0.037459,0.053552,40,1,24,5488,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4083,'40RG125',4806.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.492967365693859,-
0.4929673646492,0.253072741539178,653.186947108608,0.807504240136145,0.0,0.876016,0.037459,0.053552,40,1,25,5489,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4084,'40RG126',4807.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.49290409410184,-
0.492904093057181,0.253072741539178,653.355205953285,0.807549759081198,0.0,0.876016,0.037459,0.053552,40,1,26,5490,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4085,'40RG127',4808.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.493017874670629,-
0.493017873625 97,0.253072741539178,653.523455787653,0.807595260764096,0.0,0.876016,0.037459,0.053552,40,1,27,5491,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4086,'40RG128',4809.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.493308609225815,-
0.493308608181156,0.253072741539178,653.691680606806,0.80764074086 8503,0.0,0.876016,0.037459,0.053552,40,1,28,5492,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4087,'40RG129',4810.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.493776182851265,-
0.493776181806606,0.253072741539178,653.859864389794,0.807686195082123,0.0,0.876016,0.037459,0.053552,40,1,29,5493,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4088,'40RG130',4811.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.494420463906033,-
0.494420462861374,0.253072741539178,654.027991085402,0.807731619092846,0.0,0.876016,0.037459,0.053552,40,1,30,5494,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4089,'40RG131',4812.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.495241304026011,-
0.495241302981352,0.253072741539178,654.196044597993,0.807777008584917,0.0,0.876016,0.037459,0.053552,40,1,31,5495,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4090,'40RG132',4813.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.496238538110938,-
0.496238537066279,0.253072741539178,654.364008773429,0.807822359235133,0.0,0.876016,0.037459,0.053552,40,1,32,5496,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4091,'40RG133',4814.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.497411984296407,-
0.497411983251748,0.253072741539178,654.531867385094,0.807867666709066,0.0,0.876016,0.037459,0.053552,40,1,33,5497,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4092,'40RG134',4815.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.498761443911684,-
0.498761442867025,0.253072741539178,654.699604120029,0.807912926657323,0.0,0.876016,0.037459,0.053552,40,1,34,5498,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4093,'40RG135',4816.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.500286701422583,-
0.500286700377924,0.253072741539178,654.867202565198,0.807958134711854,0.0,0.876016,0.037459,0.053552,40,1,35,5499,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4094,'40RG136',4817.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.501987524360467,-0.501987523315808,0.253072741539178,655.034646193897,0.808003286482288,0.0,0.876016,0.037459,0.053552,40,1,36,5500,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4095,'40RG137',4818.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.503863663237043,-0.503863662192384,0.253072741539178,655.201918352326,0.808048377552332,0.0,0.876016,0.037459,0.053552,40,1,37,5501,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4096,'40RG138',4819.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.50591485144505,-0.505914850400391,0.253072741539178,655.369002246349,0.808093403476212,0.0,0.876016,0.037459,0.053552,40,1,38,5502,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4097,'40RG139',4820.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.508140805145574,-0.508140804100915,0.253072741539178,655.535880928433,0.80813835977517,0.0,0.876016,0.037459,0.053552,40,1,39,5503,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4098,'40RG140',4821.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.510541223141823,-0.510541222097164,0.253072741539178,655.702537284818,0.808183241934061,0.0,0.876016,0.037459,0.053552,40,1,40,5504,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4099,'40RG141',4822.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.513115786739748,-0.513115785695089,0.253072741539178,655.868954022899,0.808228045397909,0.0,0.876016,0.037459,0.053552,40,1,41,5505,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4100,'40RG142',4823.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.515864159595617,-0.515864158550958,0.253072741539178,656.035113658868,0.808272765568677,0.0,0.876016,0.037459,0.053552,40,1,42,5506,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4101,'40RG143',4824.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.518785987551199,-0.51878598650654,0.253072741539178,656.200998505608,0.808317397801998,0.0,0.876016,0.037459,0.053552,40,1,43,5507,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4102,'40RG144',4825.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.521880898456354,-0.521880897411695,0.253072741539178,656.366590660874,0.808361937404032,0.0,0.876016,0.037459,0.053552,40,1,44,5508,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4103,'40RG145',4826.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.525148501979773,-0.525148500935114,0.253072741539178,656.531871995766,0.808406379628399,0.0,0.876016,0.037459,0.053552,40,1,45,5509,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4104,'40RG146',4827.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.528588389408179,-0.52858838836352,0.253072741539178,656.69682414352,0.8084507196731,0.0,0.876016,0.037459,0.053552,40,1,46,5510,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4105,'40RG147',4828.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.532200133433848,-0.532200132389189,0.253072741539178,656.861428488626,0.80849495267808,0.0,0.876016,0.037459,0.053552,40,1,47,5511,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4106,'40RG148',4829.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.535983287931438,-0.535983286886779,0.253072741539178,657.025666156303,0.808539073721526,0.0,0.876016,0.037459,0.053552,40,1,48,5512,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4107,'40RG149',4830.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.539937387724196,-0.539937386679537,0.253072741539178,657.189518002331,0.808583077818071,0.0,0.876016,0.037459,0.053552,40,1,49,5513,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4108,'40RG150',4831.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.544061948339754,-0.544061947295095,0.253072741539178,657.352964603277,0.808626959915752,0.0,0.876016,0.037459,0.053552,40,1,50,5514,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4109,'40RG151',4832.0,805.0,0.150369411765,1.44993994740478,1.44993994740478,0.0,1.44993994655349,-0.54835646575667,-0.548356464712011,0.253072741539178,657.515986247113,0.808670714893608,0.0,0.876016,0.037459,0.053552,40,1,51,5515,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4110,'40RG201',4841.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.539800154246014,-0.539800153128603,0.253072741539178,657.680294966711,0.808714569571087,0.0,0.876101,0.053559,40,2,1,5523,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4111,'40RG202',4842.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.534707853483469,-0.534707852366058,0.253072741539178,657.845104077422,0.808758647738739,0.0,0.876101,0.037436,0.053559,40,2,2,5524,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4112,'40RG203',4843.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.529787350252891,-0.52978734913548,0.253072741539178,658.010392688739,0.80880284104568,0.0,0.876101,0.037436,0.053559,40,2,3,5525,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4113,'40RG204',4844.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.525039060221286,-0.525039059103875,0.253072741539178,658.176140276618,0.808847143815169,0.0,0.876101,0.037436,0.053559,40,2,4,5526,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4114,'40RG205',4845.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.520463377013848,-0.52046337589637,0.253072741539178,658.342326674644,0.808891550475175,0.0,0.876101,0.037436,0.053559,40,2,5,5527,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4115,'40RG206',4846.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.516060672626993,-0.516060671509582,0.253072741539178,658.508932064725,0.808936055555797,0.0,0.876101,0.037436,0.053559,40,2,6,5528,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4116,'40RG207',4847.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.511831297831059,-0.511831296713648,0.253072741539178,658.675936967346,0.808980653686595,0.0,0.876101,0.037436,0.053559,40,2,7,5529,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4117,'40RG208',4848.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.507775582562048,-0.507775581444637,0.253072741539178,658.843322231406,0.809025339593801,0.0,0.876101,0.037436,0.053559,40,2,8,5530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4118,'40RG209',4849.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.503893836302319,-0.503893835184908,0.253072741539178,659.011069023648,0.809070108097421,0.0,0.876101,0.037436,0.053559,40,2,9,5531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4119,'40RG210',4850.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.50018634844939,-0.500186347331979,0.253072741539178,659.179158817712,0.809114954108238,0.0,0.876101,0.037436,0.053559,40,2,10,5532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4120,'40RG211',4851.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.496653388672962,-0.496653387555551,0.253072741539178,659.347573382832,0.809159872624715,0.0,0.876101,0.037436,0.053559,40,2,11,5533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4121,'40RG212',4852.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.493295207259323,-0.493295206141912,0.253072741539178,659.516294772184,0.809204858729816,0.0,0.876101,0.037436,0.053559,40,2,12,5534,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4122,'40RG213',4853.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.490112035443126,-0.490112034325715,0.253072741539178,659.685305310928,0.809249907587736,0.0,0.876101,0.037436,0.053559,40,2,13,5535,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4123,'40RG214',4854.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.487104085726259,-0.487104084608848,0.253072741539178,659.854587583938,0.80929501444058,0.0,0.876101,0.037436,0.053559,40,2,14,5536,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4124,'40RG215',4855.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.48427155218321,-0.48427155106579,0.253072741539178,660.024124423259,0.809340174604835,0.0,0.876101,0.037436,0.053559,40,2,15,5537,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4125,'40RG216',4856.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.481614610752929,-0.481614609635518,0.253072741539178,660.193898895296,0.809385383468106,0.0,0.876101,0.037436,0.053559,40,2,16,5538,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4126,'40RG217',4857.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.479133419516978,-0.479133418399567,0.253072741539178,660.363894287766,0.809430636485346,0.0,0.876101,0.037436,0.053559,40,2,17,5539,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4127,'40RG218',4858.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.476828118963398,-0.476828117845987,0.253072741539178,660.534094096421,0.80947592917537,0.0,0.876101,0.037436,0.053559,40,2,18,5540,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4128,'40RG219',4859.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.47469883223662,-0.474698831119209,0.253072741539178,660.704482011563,0.809521257117169,0.0,0.876101,0.037436,0.053559,40,2,19,5541,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4129,'40RG220',4860.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.4727456653727,-0.472745664255289,0.253072741539178,660.875041904373,0.809566615946216,0.0,0.876101,0.037436,0.053559,40,2,20,5542,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4130,'40RG221',4861.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.470968707520137,-0.470968706402726,0.253072741539178,661.045757813069,0.80961200135072,0.0,0.876101,0.037436,0.053559,40,2,21,5543,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4131,'40RG222',4862.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.469368031145835,-0.469368030028424,0.253072741539178,661.2166139289,0.809657409067846,0.0,0.876101,0.037436,0.053559,40,2,22,5544,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4132,'40RG223',4863.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.46794369222625,-0.467943691108839,0.253072741539178,661.387594582018,0.809702834879904,0.0,0.876101,0.037436,0.053559,40,2,23,5545,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4133,'40RG224',4864.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.466695730423681,-0.46669572930627,0.253072741539178,661.558684227214,0.809748274610506,0.0,0.876101,0.037436,0.053559,40,2,24,5546,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4134,'40RG225',4865.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.465624169247286,-0.465624168129875,0.253072741539178,661.729867429556,0.80979372412071,0.0,0.876101,0.037436,0.053559,40,2,25,5547,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4135,'40RG226',4866.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.464729016199201,-0.46472901508179,0.253072741539178,661.901128849943,0.809839179305133,0.0,0.876101,0.037436,0.053559,40,2,26,5548,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4136,'40RG227',4867.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.464010262905284,-0.464010261787873,0.253072741539178,662.072453230577,0.80988463608806,0.0,0.876101,0.037436,0.053559,40,2,27,5549,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4137,'40RG228',4868.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.463467885230785,-
0.46346788411374,0.253072741539178,662.24382538039,0.809930090419536,0.0,0.876101,0.037436,0.053559,40,2,28,5550,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4138,'40RG229',4869.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.463101843380678,-
0.463101842263267,0.253072741539178,662.415230160419,0.809975538271458,0.0,0.876101,0.037436,0.053559,40,2,29,5551,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4139,'40RG230',4870.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.462912081984926,-
0.462912080867515,0.253072741539178,662.586652469162,0.810020975633665,0.0,0.876101,0.037436,0.053559,40,2,30,5552,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4140,'40RG231',4871.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.462898530168254,-
0.462898529050843,0.253072741539178,662.758077227929,0.810066398510024,0.0,0.876101,0.037436,0.053559,40,2,31,5553,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4141,'40RG232',4872.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.463061101605036,-
0.463061100487625,0.253072741539178,662.929489366193,0.810111802914537,0.0,0.876101,0.037436,0.053559,40,2,32,5554,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4142,'40RG233',4873.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.463399694558768,-
0.463399693441357,0.253072741539178,663.100873806959,0.810157184867443,0.0,0.876101,0.037436,0.053559,40,2,33,5555,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4143,'40RG234',4874.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.463914191906654,-
0.463914190789243,0.253072741539178,663.272215452182,0.810202540391347,0.0,0.876101,0.037436,0.053559,40,2,34,5556,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4144,'40RG235',4875.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.464604461148959,-
0.464604460031548,0.253072741539178,663.443499168223,0.810247865507362,0.0,0.876101,0.037436,0.053559,40,2,35,5557,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4145,'40RG236',4876.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.465470354403636,-
0.465470353286225,0.253072741539178,663.614709771383,0.81029315623128,0.0,0.876101,0.037436,0.053559,40,2,36,5558,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4146,'40RG237',4877.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.466511708386144,-
0.466511707268733,0.253072741539178,663.785832013512,0.810338408569760,0.0,0.876101,0.037436,0.053559,40,2,37,5559,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4147,'40RG238',4878.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.467728344374437,-
0.467728343257026,0.253072741539178,663.95685056772,0.810383618516558,0.0,0.876101,0.037436,0.053559,40,2,38,5560,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4148,'40RG239',4879.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.469120068159477,-
0.469120067042066,0.253072741539178,664.127750014197,0.810428782048785,0.0,0.876101,0.037436,0.053559,40,2,39,5561,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4149,'40RG240',4880.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.470686669981291,-
0.47068666886388,0.253072741539178,664.298514826165,0.810473895123208,0.0,0.876101,0.037436,0.053559,40,2,40,5562,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4150,'40RG241',4881.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.472427924450891,-
0.47242792333348,0.253072741539178,664.469129355969,0.810518953672587,0.0,0.876101,0.037436,0.053559,40,2,41,5563,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4151,'40RG242',4882.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.474343590458049,-
0.474343589340638,0.253072741539178,664.639577821332,0.810563953602069,0.0,0.876101,0.037436,0.053559,40,2,42,5564,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4152,'40RG243',4883.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.476433411065309,-
0.476433409947898,0.253072741539178,664.809844291777,0.810608890785621,0.0,0.876101,0.037436,0.053559,40,2,43,5565,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4153,'40RG244',4884.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.478697113388081,-
0.47869711227067,0.253072741539178,664.979912675248,0.810653761062527,0.0,0.876101,0.037436,0.053559,40,2,44,5566,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4154,'40RG245',4885.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.481134408462048,-
0.481134407344637,0.253072741539178,665.149766704924,0.810698560233937,0.0,0.876101,0.037436,0.053559,40,2,45,5567,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4155,'40RG246',4886.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.483744991096032,-
0.48374498997621,0.253072741539178,665.319389926271,0.810743284059482,0.0,0.876101,0.037436,0.053559,40,2,46,5568,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4156,'40RG247',4887.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.486528539713626,-
0.486528538596215,0.253072741539178,665.488765684315,0.810787928253953,0.0,0.876101,0.037436,0.053559,40,2,47,5569,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4157,'40RG248',4888.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.489484716180898,-
0.48948471063487,0.253072741539178,665.657877111179,0.810832488484052,0.0,0.876101,0.037436,0.053559,40,2,48,5570,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4158,'40RG249',4889.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.492613165621997,-
0.492613164504586,0.253072741539178,665.826707113886,0.810876960365214,0.0,0.876101,0.037436,0.053559,40,2,49,5571,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4159,'40RG250',4890.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.495913516223326,-
0.495913515105915,0.253072741539178,665.995238362448,0.81092133945851,0.0,0.876101,0.037436,0.053559,40,2,50,5572,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4160,'40RG251',4891.0,805.0,0.150835686275,1.44979927310407,1.44979927310407,0.0,1.44979927225286,-0.499385379025207,-
0.499385377907796,0.253072741539178,666.16345327826,0.810965621267634,0.0,0.876101,0.037436,0.053559,40,2,51,5573,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4161,'41RG101',4901.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.568641835800861,-
0.568641834813573,0.375245789178781,666.325264583578,0.811009003549013,0.0,0.87618,0.037416,0.053566,41,1,1,5589,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4162,'41RG102',4902.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.56462504649914,-
0.56462504551852,0.375245789178781,666.487491083307,0.811051583378048,0.0,0.87618,0.037416,0.053566,41,1,2,5590,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4163,'41RG103',4903.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.560773635540753,-
0.560773634553465,0.375245789178781,666.650113280246,0.811094254583045,0.0,0.87618,0.037416,0.053566,41,1,3,5591,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4164,'41RG104',4904.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.557087927517883,-
0.557087926530595,0.375245789178781,666.813111948197,0.811137011973998,0.0,0.87618,0.037416,0.053566,41,1,4,5592,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4165,'41RG105',4905.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.553568226924902,-
0.553568225937614,0.375245789178781,666.976468122882,0.811179850437898,0.0,0.87618,0.037416,0.053566,41,1,5,5593,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4166,'41RG106',4906.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.550214818461718,-
0.55021481747443,0.375245789178781,667.140163092514,0.811222764936313,0.0,0.87618,0.037416,0.053566,41,1,6,5594,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4167,'41RG107',4907.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.547027967327025,-
0.547027966339737,0.375245789178781,667.304178388058,0.811265750502685,0.0,0.87618,0.037416,0.053566,41,1,7,5595,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4168,'41RG108',4908.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.544007919501105,-
0.544007918513817,0.375245789178781,667.468495773178,0.811308802239698,0.0,0.87618,0.037416,0.053566,41,1,8,5596,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4169,'41RG109',4909.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.541154902018121,-
0.541154901030833,0.375245789178781,667.633097233912,0.811351915316506,0.0,0.87618,0.037416,0.053566,41,1,9,5597,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4170,'41RG110',4910.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.538469123227237,-
0.538469122239949,0.375245789178781,667.797964968075,0.811395084965913,0.0,0.87618,0.037416,0.053566,41,1,10,5598,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4171,'41RG111',4911.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.535950773042728,-
0.535950772055544,0.375245789178781,667.963081374411,0.81143830648148,0.0,0.87618,0.037416,0.053566,41,1,11,5599,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4172,'41RG112',4912.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.533600023182479,-
0.533600022195191,0.375245789178781,668.128429041521,0.811481575214581,0.0,0.87618,0.037416,0.053566,41,1,12,5600,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4173,'41RG113',4913.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.53141702739505,-
0.531417026407762,0.375245789178781,668.293990736565,0.811524886571392,0.0,0.87618,0.037416,0.053566,41,1,13,5601,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4174,'41RG114',4914.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.529401921674626,-
0.529401920687338,0.375245789178781,668.459749393773,0.811568236009846,0.0,0.87618,0.037416,0.053566,41,1,14,5602,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4175,'41RG115',4915.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.527554824464203,-
0.527554823476915,0.375245789178781,668.625688102775,0.81161161903653,0.0,0.87618,0.037416,0.053566,41,1,15,5603,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4176,'41RG116',4916.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.525875836846374,-
0.525875835859086,0.375245789178781,668.791790096755,0.811655031203547,0.0,0.87618,0.037416,0.053566,41,1,16,5604,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4177,'41RG117',4917.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.524365042721953,-
0.524365041734665,0.375245789178781,668.958038740471,0.811698468105343,0.0,0.87618,0.037416,0.053566,41,1,17,5605,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4178,'41RG118',4918.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.523022508976019,-
0.523022507988731,0.375245789178781,669.124417518127,0.811741925375497,0.0,0.87618,0.037416,0.053566,41,1,18,5606,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4179,'41RG119',4919.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.521848285631449,-
0.521848284644161,0.375245789178781,669.290910021137,0.811785398683489,0.0,0.87618,0.037416,0.053566,41,1,19,5607,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4180,'41RG120',4920.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.520842405989832,-0.520842405002544,0.375245789178781,669.457499935781,0.811828883731438,0.0,0.87618,0.037416,0.053566,41,1,20,5608,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4181,'41RG121',4921.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.520004886759593,-0.520004885772305,0.375245789178781,669.62417103078,0.811872376250829,0.0,0.87618,0.037416,0.053566,41,1,21,5609,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4182,'41RG122',4922.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.519335728171292,-0.519335727184004,0.375245789178781,669.790907144793,0.811915871999216,0.0,0.87618,0.037416,0.053566,41,1,22,5610,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4183,'41RG123',4923.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.518834914080315,-0.518834913093027,0.375245789178781,669.957692173865,0.811959366756925,0.0,0.87618,0.037416,0.053566,41,1,23,5611,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4184,'41RG124',4924.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.5185024120563,-0.5185024110690 12,0.375245789178781,670.124510058827,0.812002856323735,0.0,0.87618,0.037416,0.053566,41,1,24,5612,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4185,'41RG125',4925.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.518338173460122,-0.518338172472834,0.375245789178781,670.291344772681,0.812046336515573,0.0,0.87618,0.037416,0.053566,41,1,25,5613,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4186,'41RG126',4926.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.518342133507765,-0.518342132520477,0.375245789178781,670.458180307958,0.812089803161196,0.0,0.87618,0.037416,0.053566,41,1,26,5614,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4187,'41RG127',4927.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.518514211321331,-0.518514210334043,0.375245789178781,670.625000664098,0.812133252098887,0.0,0.87618,0.037416,0.053566,41,1,27,5615,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4188,'41RG128',4928.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.518854309967416,-0.518854308980128,0.375245789178781,670.791789834835,0.812176679173153,0.0,0.87618,0.037416,0.053566,41,1,28,5616,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4189,'41RG129',4929.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.519362316482542,-0.519362315495254,0.375245789178781,670.958531795622,0.812220080231442,0.0,0.87618,0.037416,0.053566,41,1,29,5617,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4190,'41RG130',4930.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.520038101885894,-0.520038100898606,0.375245789178781,671.125210491106,0.812263451120869,0.0,0.87618,0.037416,0.053566,41,1,30,5618,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4191,'41RG131',4931.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.520881521179575,-0.520881520192287,0.375245789178781,671.291809822656,0.812306787684973,0.0,0.87618,0.037416,0.053566,41,1,31,5619,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4192,'41RG132',4932.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.521892413336267,-0.521892412348979,0.375245789178781,671.458313635983,0.812350085760482,0.0,0.87618,0.037416,0.053566,41,1,32,5620,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4193,'41RG133',4933.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.523070601274255,-0.523070600286967,0.375245789178781,671.624705708841,0.812393341174125,0.0,0.87618,0.037416,0.053566,41,1,33,5621,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4194,'41RG134',4934.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.524415891820559,-0.524415890833271,0.375245789178781,671.790969738836,0.812436549739455,0.0,0.87618,0.037416,0.053566,41,1,34,5622,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4195,'41RG135',4935.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.525928075661482,-0.525928074674194,0.375245789178781,671.957089331365,0.812479707253723,0.0,0.87618,0.037416,0.053566,41,1,35,5623,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4196,'41RG136',4936.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.527606927281475,-0.527606926294187,0.375245789178781,672.123047987679,0.812522809494787,0.0,0.87618,0.037416,0.053566,41,1,36,5624,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4197,'41RG137',4937.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.529452204889807,-0.529452203902519,0.375245789178781,672.288829093106,0.812565852218051,0.0,0.87618,0.037416,0.053566,41,1,37,5625,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4198,'41RG138',4938.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.531463650335901,-0.531463649348613,0.375245789178781,672.454415905437,0.812608831153472,0.0,0.87618,0.037416,0.053566,41,1,38,5626,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4199,'41RG139',4939.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.533640989012951,-0.533640988025663,0.375245789178781,672.619791543487,0.812651742002597,0.0,0.87618,0.037416,0.053566,41,1,39,5627,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4200,'41RG140',4940.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.535983929750322,-0.535983928763034,0.375245789178781,672.784938975862,0.812694580435662,0.0,0.87618,0.037416,0.053566,41,1,40,5628,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4201,'41RG141',4941.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.538492164694829,-0.538492163707541,0.375245789178781,672.949841009924,0.81273734208875,0.0,0.87618,0.037416,0.053566,41,1,41,5629,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4202,'41RG142',4942.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.541165369181392,-0.54116536819 4104,0.375245789178781,673.114480280993,0.81278002 2561004,0.0,0.87618,0.037416,0.053566,41,1,42,5630,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4203,'41RG143',4943.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.544003201592744,-0.544003200605456,0.375245789178781,673.278839241776,0.812822617411908,0.0,0.87618,0.037416,0.053566,41,1,43,5631,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4204,'41RG144',4944.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.547005303209111,-0.547005302221823,0.375245789178781,673.442900152063,0.812865122158633,0.0,0.87618,0.037416,0.053566,41,1,44,5632,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4205,'41RG145',4945.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.550171298047885,-0.550171297060597,0.375245789178781,673.606645068686,0.81290753227346,0.0,0.87618,0.037416,0.053566,41,1,45,5633,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4206,'41RG146',4946.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.553500792693036,-0.553500791705748,0.375245789178781,673.770055835769,0.812949843181269,0.0,0.87618,0.037416,0.053566,41,1,46,5634,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4207,'41RG147',4947.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.556993376115769,-0.556993375128481,0.375245789178781,673.93311407527,0.812992050257119,0.0,0.87618,0.037416,0.053566,41,1,47,5635,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4208,'41RG148',4948.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.560648619485412,-0.560648618498124,0.375245789178781,674.095801177848,0.813034148823899,0.0,0.87618,0.037416,0.053566,41,1,48,5636,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4209,'41RG149',4949.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.564466075971992,-0.564466074984704,0.375245789178781,674.258098294062,0.813076134150073,0.0,0.87618,0.037416,0.053566,41,1,49,5637,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4210,'41RG150',4950.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.568445280540011,-0.568445279552723,0.375245789178781,674.419986325905,0.813118001447508,0.0,0.87618,0.037416,0.053566,41,1,50,5638,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4211,'41RG151',4951.0,805.0,0.151211764706,1.44966855322621,1.44966855322621,0.0,1.44966855237508,-0.57258574973386,-0.572585748746572,0.375245789178781,674.581445918717,0.813159745869406,0.0,0.87618,0.037416,0.053566,41,1,51,5639,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4212,'41RG201',4960.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.582305429907251,-0.582305428919236,0.375245789178781,674.742284883206,0.813201340241103,0.0,0.876258,0.037395,0.053574,41,2,1,5647,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4213,'41RG202',4961.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.577788788909013,-0.577788787920998,0.375245789178781,674.903601653664,0.81324290160665,0.0,0.876258,0.037395,0.053574,41,2,2,5648,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4214,'41RG203',4962.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.573433200998419,-0.573433200010404,0.375245789178781,675.065376124265,0.813284569034784,0.0,0.876258,0.037395,0.053574,41,2,3,5649,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4215,'41RG204',4963.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.569239047611054,-0.569239046623039,0.375245789178781,675.227588480344,0.813326337259928,0.0,0.876258,0.037395,0.053574,41,2,4,5650,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4216,'41RG205',4964.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.5652066898329,-0.565206688844885,0.375245789178781,675.390219190816,0.813368201097589,0.0,0.876258,0.037395,0.053574,41,2,5,5651,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4217,'41RG206',4965.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.561336468719185,-0.56133646773117,0.375245789178781,675.553249000212,0.813410155442257,0.0,0.876258,0.037395,0.053574,41,2,6,5652,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4218,'41RG207',4966.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.557628705604829,-0.557628704616814,0.375245789178781,675.716658920354,0.813452195265228,0.0,0.876258,0.037395,0.053574,41,2,7,5653,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4219,'41RG208',4967.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.554083702406126,-0.554083701418111,0.375245789178781,675.880430221686,0.813494315612319,0.0,0.876258,0.037395,0.053574,41,2,8,5654,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4220,'41RG209',4968.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.550701741913288,-0.550701740925273,0.375245789178781,676.044554424273,0.813536511601509,0.0,0.876258,0.037395,0.053574,41,2,9,5655,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4221,'41RG210',4969.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.547483088073614,-0.547483087085599,0.375245789178781,676.20898328849,0.813578778420498,0.0,0.876258,0.037395,0.053574,41,2,10,5656,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4222,'41RG211',4970.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,1.44953951030404,-0.544427986264937,-0.544427985276922,0.375245789178781,676.373728805421,0.813621111324192,0.0,0.876258,0.037395,0.053574,41,2,11,5657,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4223,'41RG212',4971.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.541536663559066,-0.541536662571051,0.375245789178781,676.538763186979,0.813663505632109,0.0,0.0,0.876258,0.037395,0.053574,41,2,12,5658,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4224,'41RG213',4972.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.538809328974923,-0.538809327986908,0.375245789178781,676.704068855758,0.813705956725731,0.0,0.0,0.876258,0.037395,0.053574,41,2,13,5659,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4225,'41RG214',4973.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.536246173721318,-0.536246172733303,0.375245789178781,676.869628434653,0.813748460045787,0.0,0.0,0.876258,0.037395,0.053574,41,2,14,5660,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4226,'41RG215',4974.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.533847371428864,-0.533847370440849,0.375245789178781,677.035424736242,0.81379101108948,0.0,0.0,0.876258,0.037395,0.053574,41,2,15,5661,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4227,'41RG216',4975.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.531613078371032,-0.531613077383017,0.375245789178781,677.201440751961,0.813833605407662,0.0,0.0,0.876258,0.037395,0.053574,41,2,16,5662,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4228,'41RG217',4976.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.52954343367408,-0.529543432686065,0.375245789178781,677.367659641081,0.813876238601959,0.0,0.0,0.876258,0.037395,0.053574,41,2,17,5663,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4229,'41RG218',4977.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.527638559515646,-0.527638558527631,0.375245789178781,677.534064719504,0.813918906321855,0.0,0.0,0.876258,0.037395,0.053574,41,2,18,5664,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4230,'41RG219',4978.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.525898561311992,-0.525898560323977,0.375245789178781,677.700639448396,0.813961604261735,0.0,0.0,0.876258,0.037395,0.053574,41,2,19,5665,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4231,'41RG220',4979.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.524323527893523,-0.524323526905508,0.375245789178781,677.867367422668,0.81400432815789,0.0,0.0,0.876258,0.037395,0.053574,41,2,20,5666,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4232,'41RG221',4980.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.522913531668737,-0.522913530680722,0.375245789178781,678.034232359324,0.81404707378549,0.0,0.0,0.876258,0.037395,0.053574,41,2,21,5667,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4233,'41RG222',4981.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.521668628776206,-0.521668627788191,0.375245789178781,678.20121808569,0.814089836955535,0.0,0.0,0.876258,0.037395,0.053574,41,2,22,5668,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4234,'41RG223',4982.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.520588859224789,-0.520588858236774,0.375245789178781,678.368308527534,0.814132613511776,0.0,0.0,0.876258,0.037395,0.053574,41,2,23,5669,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4235,'41RG224',4983.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.51967424702165,-0.51967424603363,0.375245789178781,678.535487697107,0.81417539932762,0.0,0.0,0.876258,0.037395,0.053574,41,2,24,5670,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4236,'41RG225',4984.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.518924800288518,-0.518924799300503,0.375245789178781,678.702739681094,0.814218190303015,0.0,0.0,0.876258,0.037395,0.053574,41,2,25,5671,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4237,'41RG226',4985.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.518340511365603,-0.518340510377588,0.375245789178781,678.870048628515,0.814260982361328,0.0,0.0,0.876258,0.037395,0.053574,41,2,26,5672,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4238,'41RG227',4986.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.517921356903416,-0.517921355915401,0.375245789178781,679.037398738578,0.814303771446211,0.0,0.0,0.876258,0.037395,0.053574,41,2,27,5673,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4239,'41RG228',4987.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.517667297942419,-0.517667296954404,0.375245789178781,679.204774248497,0.814346553518463,0.0,0.0,0.876258,0.037395,0.053574,41,2,28,5674,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4240,'41RG229',4988.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.517578279980741,-0.517578278992726,0.375245789178781,679.37215942129,0.814389324552892,0.0,0.0,0.876258,0.037395,0.053574,41,2,29,5675,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4241,'41RG230',4989.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.517654233029413,-0.517654232041398,0.375245789178781,679.539538533583,0.814432080535181,0.0,0.0,0.876258,0.037395,0.053574,41,2,30,5676,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4242,'41RG231',4990.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.517895071655731,-0.517895070667716,0.375245789178781,679.706895863413,0.814474817458752,0.0,0.0,0.876258,0.037395,0.053574,41,2,31,5677,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4243,'41RG232',4991.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.518300695014441,-0.518300694026426,0.375245789178781,679.874215678059,0.814517531321655,0.0,0.0,0.876258,0.037395,0.053574,41,2,32,5678,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4244,'41RG233',4992.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.518870986866746,-0.518870985878731,0.375245789178781,680.041482221919,0.814560218123453,0.0,0.0,0.876258,0.037395,0.053574,41,2,33,5679,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4245,'41RG234',4993.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.519605815587676,-0.519605814599661,0.375245789178781,680.208679704421,0.814602873862138,0.0,0.0,0.876258,0.037395,0.053574,41,2,34,5680,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4246,'41RG235',4994.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.520505034161305,-0.52050503317329,0.375245789178781,680.375792288022,0.814645494531057,0.0,0.0,0.876258,0.037395,0.053574,41,2,35,5681,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4247,'41RG236',4995.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.521568480164214,-0.521568479176199,0.375245789178781,680.542804076264,0.814688076115872,0.0,0.0,0.876258,0.037395,0.053574,41,2,36,5682,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4248,'41RG237',4996.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.522795975737383,-0.522795974749368,0.375245789178781,680.709699101943,0.814730614591537,0.0,0.0,0.876258,0.037395,0.053574,41,2,37,5683,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4249,'41RG238',4997.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.524187327546253,-0.524187326558238,0.375245789178781,680.876461315375,0.81477310591931,0.0,0.0,0.876258,0.037395,0.053574,41,2,38,5684,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4250,'41RG239',4998.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.525742326729686,-0.525742325741671,0.375245789178781,681.043074572781,0.814815546043805,0.0,0.0,0.876258,0.037395,0.053574,41,2,39,5685,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4251,'41RG240',4999.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.527460748837294,-0.527460747849279,0.375245789178781,681.209522624817,0.814857930890069,0.0,0.0,0.876258,0.037395,0.053574,41,2,40,5686,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4252,'41RG241',5000.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.529342353755966,-0.52934235276795,0.375245789178781,681.37578910524,0.81490025636071,0.0,0.0,0.876258,0.037395,0.053574,41,2,41,5687,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4253,'41RG242',5001.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.531386885625006,-0.531386884636991,0.375245789178781,681.541857519752,0.81494251833307,0.0,0.0,0.876258,0.037395,0.053574,41,2,42,5688,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4254,'41RG243',5002.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.533594072740998,-0.533594071752983,0.375245789178781,681.707711235005,0.814984712656433,0.0,0.0,0.876258,0.037395,0.053574,41,2,43,5689,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4255,'41RG244',5003.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.535963627451318,-0.535963626463303,0.375245789178781,681.873333467809,0.815026835149299,0.0,0.0,0.876258,0.037395,0.053574,41,2,44,5690,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4256,'41RG245',5004.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.538495246038339,-0.538495245050324,0.375245789178781,682.03870727454,0.815068881596706,0.0,0.0,0.876258,0.037395,0.053574,41,2,45,5691,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4257,'41RG246',5005.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.541188608592359,-0.541188607604344,0.375245789178781,682.203815540766,0.815110847747609,0.0,0.0,0.876258,0.037395,0.053574,41,2,46,5692,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4258,'41RG247',5006.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.544043378875346,-0.544043377887331,0.375245789178781,682.368640971111,0.815152729312322,0.0,0.0,0.876258,0.037395,0.053574,41,2,47,5693,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4259,'41RG248',5007.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.547059204174625,-0.54705920318661,0.375245789178781,682.533166079362,0.815194521960022,0.0,0.0,0.876258,0.037395,0.053574,41,2,48,5694,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4260,'41RG249',5008.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.550235715147524,-0.550235714159509,0.375245789178781,682.697373178838,0.815236221316324,0.0,0.0,0.876258,0.037395,0.053574,41,2,49,5695,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4261,'41RG250',5009.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.553572525656358,-0.553572524668343,0.375245789178781,682.861244373044,0.81527782296093,0.0,0.0,0.876258,0.037395,0.053574,41,2,50,5696,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4262,'41RG251',5010.0,805.0,0.151644509804,1.44953951115509,1.44953951115509,0.0,0.0,1.44953951030404,-0.557069232594829,-0.557069231606814,0.375245789178781,683.024761546601,0.815319322425343,0.0,0.0,0.876258,0.037395,0.053574,41,2,51,5697,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4263,'42RG101',5020.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,0.0,1.44942041493501,-0.558254343374029,-0.558254342367621,0.453785605518526,683.188504752763,0.815360791002673,0.0,0.0,0.87633,0.037376,0.053582,42,1,1,5711,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4264,'42RG102',5021.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,0.0,1.44942041493501,-0.554402200021282,-0.554402199014874,0.453785605518526,683.352641784869,0.815402323430042,0.0,0.0,0.87633,0.037376,0.053582,42,1,2,5712,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4265,'42RG103',5022.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,0.0,1.44942041493501,-0.550710482918759,-0.550710481912351,0.453785605518526,683.517154010107,0.81544393851543,0.0,0.0,0.87633,0.037376,0.053582,42,1,3,5713,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4266,'42RG104',5023.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.547179483127663,-0.547179482121255,0.453785605518526,683.682023052784,0.815485631478869,0.0,0.87633,0.037376,0.053582,42,1,4,5714,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4267,'42RG105',5024.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.543809473303628,-0.54380947229722,0.453785605518526,683.847230785418,0.815527397610851,0.0,0.87633,0.037376,0.053582,42,1,5,5715,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4268,'42RG106',5025.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.540600707972301,-0.540600706965893,0.453785605518526,684.012759319524,0.815569232269952,0.0,0.87633,0.037376,0.053582,42,1,6,5716,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4269,'42RG107',5026.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.537553423795521,-0.537553422789113,0.453785605518526,684.178590996118,0.815611130880385,0.0,0.87633,0.037376,0.053582,42,1,7,5717,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4270,'42RG108',5027.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.534667839827832,-0.534667838821424,0.453785605518526,684.344708375959,0.815653088929478,0.0,0.87633,0.037376,0.053582,42,1,8,5718,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4271,'42RG109',5028.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.531944157762971,-0.531944156756563,0.453785605518526,684.511094229534,0.8156951019651,0.0,0.87633,0.037376,0.053582,42,1,9,5719,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4272,'42RG110',5029.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.529382562170226,-0.529382561163818,0.453785605518526,684.677731526807,0.815737165593026,0.0,0.87633,0.037376,0.053582,42,1,10,5720,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4273,'42RG111',5030.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.526983220720473,-0.526983219714065,0.453785605518526,684.844603426755,0.815779275474242,0.0,0.87633,0.037376,0.053582,42,1,11,5721,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4274,'42RG112',5031.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.524746284401529,-0.524746283395121,0.453785605518526,685.011693266688,0.815821427322204,0.0,0.87633,0.037376,0.053582,42,1,12,5722,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4275,'42RG113',5032.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.5226718877228,-0.522671886716392,0.453785605518526,685.178984551392,0.815863616900059,0.0,0.87633,0.037376,0.053582,42,1,13,5723,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4276,'42RG114',5033.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.520760148909047,-0.520760147902639,0.453785605518526,685.346460942089,0.815905840017807,0.0,0.87633,0.037376,0.053582,42,1,14,5724,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4277,'42RG115',5034.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.519011170082954,-0.519011169076546,0.453785605518526,685.514106245242,0.815948092529443,0.0,0.87633,0.037376,0.053582,42,1,15,5725,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4278,'42RG116',5035.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.517425037436708,-0.5174250364303,0.453785605518526,685.681904401209,0.815990370330053,0.0,0.87633,0.037376,0.053582,42,1,16,5726,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4279,'42RG117',5036.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.516001821392044,-0.516001820385636,0.453785605518526,685.849839472774,0.816032669352884,0.0,0.87633,0.037376,0.053582,42,1,17,5727,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4280,'42RG118',5037.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.514741576748945,-0.514741575742537,0.453785605518526,686.01789563356,0.81607498556639,0.0,0.87633,0.037376,0.053582,42,1,18,5728,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4281,'42RG119',5038.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.51364434282292,-0.51364434181512,0.453785605518526,686.186057156336,0.816117314971252,0.0,0.87633,0.037376,0.053582,42,1,19,5729,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4282,'42RG120',5039.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.512710143570543,-0.512710142564135,0.453785605518526,686.35430840124,0.816159653597381,0.0,0.87633,0.037376,0.053582,42,1,20,5730,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4283,'42RG121',5040.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.511938987703508,-0.5119389866971,0.453785605518526,686.52263380393,0.8162019975009,0.0,0.87633,0.037376,0.053582,42,1,21,5731,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4284,'42RG122',5041.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.511330868790877,-0.511330867784469,0.453785605518526,686.691017863669,0.816244342761129,0.0,0.87633,0.037376,0.053582,42,1,22,5732,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4285,'42RG123',5042.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.510885765349647,-0.510885764343239,0.453785605518526,686.85944513137,0.816286685477543,0.0,0.87633,0.037376,0.053582,42,1,23,5733,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4286,'42RG124',5043.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.510603640923604,-0.510603639917196,0.453785605518526,687.027900197603,0.816329021766739,0.0,0.87633,0.037376,0.053582,42,1,24,5734,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4287,'42RG125',5044.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.51048444415037,-0.51048444314396,0.453785605518526,687.196367680588,0.816371347759396,0.0,0.87633,0.037376,0.053582,42,1,25,5735,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4288,'42RG126',5045.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.510528108816856,-0.510528107810448,0.453785605518526,687.364832214181,0.816413659597238,0.0,0.87633,0.037376,0.053582,42,1,26,5736,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4289,'42RG127',5046.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.510734553902771,-0.510734552896363,0.453785605518526,687.53327843586,0.816455592543005,0.0,0.87633,0.037376,0.053582,42,1,27,5737,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4290,'42RG128',5047.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.511103683612744,-0.51110368260636,0.453785605518526,687.701690974747,0.816498225412427,0.0,0.87633,0.037376,0.053582,42,1,28,5738,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4291,'42RG129',5048.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.511635387396558,-0.51163538639015,0.453785605518526,687.8700543965,0.816540471701217,0.0,0.87633,0.037376,0.053582,42,1,29,5739,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4292,'42RG130',5049.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.512329539957874,-0.512329538951466,0.453785605518526,688.038353407159,0.816582688452077,0.0,0.87633,0.037376,0.053582,42,1,30,5740,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4293,'42RG131',5050.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.513186001251646,-0.513186000245238,0.453785605518526,688.206572409804,0.81662487181672,0.0,0.87633,0.037376,0.053582,42,1,31,5741,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4294,'42RG132',5051.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.514204616469825,-0.514204615463417,0.453785605518526,688.374695924284,0.81667017939916,0.0,0.87633,0.037376,0.053582,42,1,32,5742,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4295,'42RG133',5052.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.515385216016063,-0.515385215009655,0.453785605518526,688.542708359781,0.816709122956568,0.0,0.87633,0.037376,0.053582,42,1,33,5743,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4296,'42RG134',5053.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.516727615468851,-0.516727614462443,0.453785605518526,688.710594046381,0.816751182988806,0.0,0.87633,0.037376,0.053582,42,1,34,5744,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4297,'42RG135',5054.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.518231615533913,-0.518231614527505,0.453785605518526,688.878337223601,0.816793194143122,0.0,0.87633,0.037376,0.053582,42,1,35,5745,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4298,'42RG136',5055.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.519897001985454,-0.519897000979046,0.453785605518526,689.045922029048,0.816835152507539,0.0,0.87633,0.037376,0.053582,42,1,36,5746,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4299,'42RG137',5056.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.521723545596706,-0.521723544590298,0.453785605518526,689.213332487215,0.816877054148808,0.0,0.87633,0.037376,0.053582,42,1,37,5747,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4300,'42RG138',5057.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.523711002059598,-0.52371100105319,0.453785605518526,689.380552498431,0.816918895109663,0.0,0.87633,0.037376,0.053582,42,1,38,5748,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4301,'42RG139',5058.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.525859111894383,-0.525859110887975,0.453785605518526,689.54756582798,0.816960671406104,0.0,0.87633,0.037376,0.053582,42,1,39,5749,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4302,'42RG140',5059.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.528167600348594,-0.528167599342186,0.453785605518526,689.714356095393,0.817002379024739,0.0,0.87633,0.037376,0.053582,42,1,40,5750,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4303,'42RG141',5060.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.530636177285891,-0.530636176279483,0.453785605518526,689.880906763942,0.817044013920171,0.0,0.87633,0.037376,0.053582,42,1,41,5751,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4304,'42RG142',5061.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.533264537065434,-0.533264536059026,0.453785605518526,690.047201130333,0.81708557201244,0.0,0.87633,0.037376,0.053582,42,1,42,5752,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4305,'42RG143',5062.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.536052358410976,-0.536052357404568,0.453785605518526,690.21322231463,0.817127049184526,0.0,0.87633,0.037376,0.053582,42,1,43,5753,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4306,'42RG144',5063.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.538999304271114,-0.538999303264706,0.453785605518526,690.378953250399,0.817168441279904,0.0,0.87633,0.037376,0.053582,42,1,44,5754,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4307,'42RG145',5064.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.542105021669875,-0.542105020663467,0.453785605518526,690.544376675112,0.81720974410017,0.0,0.87633,0.037376,0.053582,42,1,45,5755,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4308,'42RG146',5065.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.545369141548405,-0.545369140541997,0.453785605518526,690.709475120808,0.817250953402733,0.0,0.87633,0.037376,0.053582,42,1,46,5756,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4309,'42RG147',5066.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.548791278598591,-0.548791277592183,0.453785605518526,690.874230905029,0.817292064898572,0.0,0.87633,0.037376,0.053582,42,1,47,5757,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4310,'42RG148',5067.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.552371031087076,-0.552371030080668,0.453785605518526,691.038626122044,0.817333074250071,0.0,0.87633,0.037376,0.053582,42,1,48,5758,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4311,'42RG149',5068.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.556107980672386,-0.556107979665978,0.453785605518526,691.202642634386,0.817373977068925,0.0,0.87633,0.037376,0.053582,42,1,49,5759,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4312,'42RG150',5069.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.560001692213659,-0.560001691207251,0.453785605518526,691.366262064691,0.817414768914136,0.0,0.87633,0.037376,0.053582,42,1,50,5760,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4313,'42RG151',5070.0,805.0,0.152015098039,1.44942041578599,1.44942041578599,0.0,1.44942041493501,-0.564051713571579,-0.564051712565171,0.453785605518526,691.529465787882,0.817455445290076,0.0,0.87633,0.037376,0.053582,42,1,51,5761,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4314,'42RG201',5079.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.564615634993877,-0.564615634034709,0.453785605518526,691.692952364714,0.817496090890417,0.0,0.87641,0.037355,0.05359,42,2,1,5769,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4315,'42RG202',5080.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.561426742322136,-0.561426741362968,0.453785605518526,691.856769416641,0.817536798528002,0.0,0.87641,0.037355,0.05359,42,2,2,5770,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4316,'42RG203',5081.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.558394607987611,-0.558394607028443,0.453785605518526,692.020899212898,0.817577571845229,0.0,0.87641,0.037355,0.05359,42,2,3,5771,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4317,'42RG204',5082.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.555519458314481,-0.555519457355313,0.453785605518526,692.18532423009,0.817618406384065,0.0,0.87641,0.037355,0.05359,42,2,4,5772,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4318,'42RG205',5083.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.552801502509872,-0.552801501550704,0.453785605518526,692.35002714311,0.817659297742961,0.0,0.87641,0.037355,0.05359,42,2,5,5773,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4319,'42RG206',5084.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.550240932884232,-0.550240931925064,0.453785605518526,692.514990815802,0.817700241574496,0.0,0.87641,0.037355,0.05359,42,2,6,5774,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4320,'42RG207',5085.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.547837925062484,-0.547837924103316,0.453785605518526,692.680198291427,0.817741233582965,0.0,0.87641,0.037355,0.05359,42,2,7,5775,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4321,'42RG208',5086.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.545592638185691,-0.545592637226523,0.453785605518526,692.84563278292,0.817782269521928,0.0,0.87641,0.037355,0.05359,42,2,8,5776,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4322,'42RG209',5087.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.543505215103113,-0.543505214143945,0.453785605518526,693.011277662959,0.817823345191701,0.0,0.87641,0.037355,0.05359,42,2,9,5777,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4323,'42RG210',5088.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.54157578255447,-0.541575781595302,0.453785605518526,693.177116453868,0.817864456436819,0.0,0.87641,0.037355,0.05359,42,2,10,5778,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4324,'42RG211',5089.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.539804451342295,-0.539804450383127,0.453785605518526,693.343132817351,0.817905599143452,0.0,0.87641,0.037355,0.05359,42,2,11,5779,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4325,'42RG212',5090.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.538191316494174,-0.538191315535006,0.453785605518526,693.509310544096,0.817946769236792,0.0,0.87641,0.037355,0.05359,42,2,12,5780,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4326,'42RG213',5091.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.536736457414793,-0.536736456455625,0.453785605518526,693.675633543233,0.817987962678408,0.0,0.87641,0.037355,0.05359,42,2,13,5781,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4327,'42RG214',5092.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.535439938027774,-0.535439937068606,0.453785605518526,693.842085831683,0.818029175463574,0.0,0.87641,0.037355,0.05359,42,2,14,5782,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4328,'42RG215',5093.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.534301806907041,-0.534301805947873,0.453785605518526,694.008651523406,0.818070403618576,0.0,0.87641,0.037355,0.05359,42,2,15,5783,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4329,'42RG216',5094.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.533322097397796,-0.533322096438628,0.453785605518526,694.175314818549,0.818111643197998,0.0,0.87641,0.037355,0.05359,42,2,16,5784,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4330,'42RG217',5095.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.532500827726895,-0.532500826767727,0.453785605518526,694.342059992526,0.818152890281989,0.0,0.87641,0.037355,0.05359,42,2,17,5785,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4331,'42RG218',5096.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.531838001102737,-0.531838000143569,0.453785605518526,694.508871385032,0.818194140973523,0.0,0.87641,0.037355,0.05359,42,2,18,5786,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4332,'42RG219',5097.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.531333605804508,-0.53133360484534,0.453785605518526,694.675733389001,0.818235391395641,0.0,0.87641,0.037355,0.05359,42,2,19,5787,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4333,'42RG220',5098.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.530987615260737,-0.530987614301569,0.453785605518526,694.842630439532,0.818276637688696,0.0,0.87641,0.037355,0.05359,42,2,20,5788,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4334,'42RG221',5099.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.530799988117283,-0.530799987158115,0.453785605518526,695.009547002791,0.818317876007588,0.0,0.87641,0.037355,0.05359,42,2,21,5789,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4335,'42RG222',5100.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.530770668294618,-0.53077066733545,0.453785605518526,695.176467564894,0.818359102519,0.0,0.87641,0.037355,0.05359,42,2,22,5790,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4336,'42RG223',5101.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.530899585034564,-0.530899584075396,0.453785605518526,695.343376620797,0.818400313398641,0.0,0.87641,0.037355,0.05359,42,2,23,5791,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4337,'42RG224',5102.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.531186652936195,-0.531186651977027,0.453785605518526,695.510258663197,0.81844150482849,0.0,0.87641,0.037355,0.05359,42,2,24,5792,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4338,'42RG225',5103.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.531631771981469,-0.531631771022301,0.453785605518526,695.677098171459,0.818482672994053,0.0,0.87641,0.037355,0.05359,42,2,25,5793,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4339,'42RG226',5104.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.532234827550066,-0.532234826590898,0.453785605518526,695.843879600583,0.818523814081634,0.0,0.87641,0.037355,0.05359,42,2,26,5794,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4340,'42RG227',5105.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.532995690423962,-0.532995689464794,0.453785605518526,696.010587370218,0.818564924275616,0.0,0.87641,0.037355,0.05359,42,2,27,5795,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4341,'42RG228',5106.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.533914216781379,-0.53391421582211,0.453785605518526,696.177205853747,0.818605999755765,0.0,0.87641,0.037355,0.05359,42,2,28,5796,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4342,'42RG229',5107.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.534990248180608,-0.53499024722144,0.453785605518526,696.343719367441,0.818647036694557,0.0,0.87641,0.037355,0.05359,42,2,29,5797,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4343,'42RG230',5108.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.536223611533695,-0.536223610574527,0.453785605518526,696.510112159706,0.818688031254525,0.0,0.87641,0.037355,0.05359,42,2,30,5798,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4344,'42RG231',5109.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.537614119069576,-0.537614118110408,0.453785605518526,696.67636840043,0.818728979585636,0.0,0.87641,0.037355,0.05359,42,2,31,5799,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4345,'42RG232',5110.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.539161568287749,-0.539161567328581,0.453785605518526,696.842472170446,0.8187698778227,0.0,0.87641,0.037355,0.05359,42,2,32,5800,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4346,'42RG233',5111.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.540865741901743,-0.540865740942575,0.453785605518526,697.008407451116,0.818810722082813,0.0,0.87641,0.037355,0.05359,42,2,33,5801,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4347,'42RG234',5112.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.542726407772956,-0.542726406813788,0.453785605518526,697.174158114061,0.818851508462833,0.0,0.87641,0.037355,0.05359,42,2,34,5802,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4348,'42RG235',5113.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.544743318834935,-0.544743317875767,0.453785605518526,697.339707911038,0.818892233036899,0.0,0.87641,0.037355,0.05359,42,2,35,5803,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4349,'42RG236',5114.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.546916213008085,-0.546916212048917,0.453785605518526,697.505040463985,0.818932891853991,0.0,0.87641,0.037355,0.05359,42,2,36,5804,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4350,'42RG237',5115.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.549244813105591,-0.549244812146423,0.453785605518526,697.670139255236,0.818973480935537,0.0,0.87641,0.037355,0.05359,42,2,37,5805,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4351,'42RG238',5116.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.551728826729568,-0.5517288257704,0.453785605518526,697.834987617935,0.819013996273068,0.0,0.87641,0.037355,0.05359,42,2,38,5806,'ccl_gap');
```

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INSERT INTO `rf_gap` VALUES (4352,'42RG239',5117.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.554367946159078,-0.55436794519991,0.453785605518526,697.999568726647,0.819054433825923,0.0,0.87641,0.037355,0.05359,42,2,39,5807,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4353,'42RG240',5118.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.557161848228883,-0.557161847269715,0.453785605518526,698.163865588184,0.81909478951901,0.0,0.87641,0.037355,0.05359,42,2,40,5808,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4354,'42RG241',5119.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.560110194200237,-0.560110193241069,0.453785605518526,698.327861032662,0.819135059240624,0.0,0.87641,0.037355,0.05359,42,2,41,5809,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4355,'42RG242',5120.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.563212629623162,-0.563212628663994,0.453785605518526,698.491537704796,0.819175238840323,0.0,0.87641,0.037355,0.05359,42,2,42,5810,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4356,'42RG243',5121.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.56646878419092,-0.566468783231752,0.453785605518526,698.654878055452,0.819215324126876,0.0,0.87641,0.037355,0.05359,42,2,43,5811,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4357,'42RG244',5122.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.56987827158657,-0.569878270627402,0.453785605518526,698.817864333464,0.819255310866262,0.0,0.87641,0.037355,0.05359,42,2,44,5812,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4358,'42RG245',5123.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.573440689322612,-0.573440688363444,0.453785605518526,698.980478577729,0.819295194779753,0.0,0.87641,0.037355,0.05359,42,2,45,5813,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4359,'42RG246',5124.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.577155618572358,-0.57715561761319,0.453785605518526,699.142702609605,0.819334971542059,0.0,0.87641,0.037355,0.05359,42,2,46,5814,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4360,'42RG247',5125.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.581022623995881,-0.581022623036713,0.453785605518526,699.304518025597,0.819374636779554,0.0,0.87641,0.037355,0.05359,42,2,47,5815,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4361,'42RG248',5126.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.585041253557885,-0.585041252598717,0.453785605518526,699.465906190382,0.819414186068577,0.0,0.87641,0.037355,0.05359,42,2,48,5816,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4362,'42RG249',5127.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.589211038340468,-0.5892110373813,0.453785605518526,699.626848230152,0.819453614933815,0.0,0.87641,0.037355,0.05359,42,2,49,5817,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4363,'42RG250',5128.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.593531492349054,-0.593531491389886,0.453785605518526,699.787325026312,0.819492918846765,0.0,0.87641,0.037355,0.05359,42,2,50,5818,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4364,'42RG251',5129.0,805.0,0.152380980392,1.44928811054843,1.44928811054843,0.0,1.44928810969752,-0.598002112313043,-0.598002111353875,0.453785605518526,699.947317209524,0.819532093224295,0.0,0.87641,0.037355,0.05359,42,2,51,5819,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4365,'43RG101',5139.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.598076649513042,-0.598076648551604,0.628318530717959,700.107711778129,0.81957124419708,0.0,0.876479,0.037337,0.053598,43,1,1,5835,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4366,'43RG102',5140.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.593575549935784,-0.593575548974346,0.628318530717959,700.268597626732,0.819610490974022,0.0,0.876479,0.037337,0.053598,43,1,2,5836,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4367,'43RG103',5141.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.589225359606408,-0.58922535864497,0.628318530717959,700.429955230083,0.819649841919238,0.0,0.876479,0.037337,0.053598,43,1,3,5837,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4368,'43RG104',5142.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.585026452676089,-0.585026451714651,0.628318530717959,700.591765330752,0.819689292184754,0.0,0.876479,0.037337,0.053598,43,1,4,5838,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4369,'43RG105',5143.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.580979184697639,-0.580979183736201,0.628318530717959,700.754008932911,0.819728836993465,0.0,0.876479,0.037337,0.053598,43,1,5,5839,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4370,'43RG106',5144.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.577083892902322,-0.577083891940884,0.628318530717959,700.91666729577,0.819768471637506,0.0,0.876479,0.037337,0.053598,43,1,6,5840,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4371,'43RG107',5145.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.573340896470085,-0.573340895508647,0.628318530717959,701.079721926684,0.819808191476539,0.0,0.876479,0.037337,0.053598,43,1,7,5841,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4372,'43RG108',5146.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.569750496793026,-0.569750495831588,0.628318530717959,701.243154573946,0.81984799193596,0.0,0.876479,0.037337,0.053598,43,1,8,5842,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4373,'43RG109',5147.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.566312977731669,-0.566312976770231,0.628318530717959,701.406947219271,0.819887868505033,0.0,0.876479,0.037337,0.053598,43,1,9,5843,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4374,'43RG110',5148.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.563028605863926,-0.563028604902488,0.628318530717959,701.571082069998,0.819927816734953,0.0,0.876479,0.037337,0.053598,43,1,10,5844,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4375,'43RG111',5149.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.559897630726282,-0.559897629764844,0.628318530717959,701.735541551014,0.819967832236842,0.0,0.876479,0.037337,0.053598,43,1,11,5845,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4376,'43RG112',5150.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.55692028504719,-0.556920284085752,0.628318530717959,701.900308296427,0.820007910679684,0.0,0.876479,0.037337,0.053598,43,1,12,5846,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4377,'43RG113',5151.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.554096784972216,-0.554096784010778,0.628318530717959,702.065365140986,0.820048047788197,0.0,0.876479,0.037337,0.053598,43,1,13,5847,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4378,'43RG114',5152.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.55142733028095,-0.551427329319512,0.628318530717959,702.230695111271,0.820088239340653,0.0,0.876479,0.037337,0.053598,43,1,14,5848,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4379,'43RG115',5153.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.548912104595231,-0.548912103633793,0.628318530717959,702.396281416675,0.820128481166646,0.0,0.876479,0.037337,0.053598,43,1,15,5849,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4380,'43RG116',5154.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.546551275578742,-0.546551274617304,0.628318530717959,702.562107440169,0.82016876914481,0.0,0.876479,0.037337,0.053598,43,1,16,5850,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4381,'43RG117',5155.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.544344995127502,-0.544344994166064,0.628318530717959,702.728156728888,0.82020909920049,0.0,0.876479,0.037337,0.053598,43,1,17,5851,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4382,'43RG118',5156.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.542293399551546,-0.542293398590108,0.628318530717959,702.89441299454,0.820249467303378,0.0,0.876479,0.037337,0.053598,43,1,18,5852,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4383,'43RG119',5157.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.540396609747105,-0.540396608785667,0.628318530717959,703.060860053642,0.820289869465105,0.0,0.876479,0.037337,0.053598,43,1,19,5853,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4384,'43RG120',5158.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.538654731359634,-0.538654730398196,0.628318530717959,703.227481917624,0.820330301736804,0.0,0.876479,0.037337,0.053598,43,1,20,5854,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4385,'43RG121',5159.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.537067854937077,-0.537067853975639,0.628318530717959,703.394262682778,0.82037076020633,0.0,0.876479,0.037337,0.053598,43,1,21,5855,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4386,'43RG122',5160.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.535636056073932,-0.535636055112494,0.628318530717959,703.561186570102,0.820411240997285,0.0,0.876479,0.037337,0.053598,43,1,22,5856,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4387,'43RG123',5161.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.534359395545223,-0.534359394583785,0.628318530717959,703.728237905012,0.820451740263455,0.0,0.876479,0.037337,0.053598,43,1,23,5857,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4388,'43RG124',5162.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.533237919430952,-0.533237918469514,0.628318530717959,703.895401106978,0.820492254189301,0.0,0.876479,0.037337,0.053598,43,1,24,5858,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4389,'43RG125',5163.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.532271659230559,-0.532271658269121,0.628318530717959,704.06266067906,0.82053277898588,0.0,0.876479,0.037337,0.053598,43,1,25,5859,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4390,'43RG126',5164.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.531460631967653,-0.531460631006215,0.628318530717959,704.230001197377,0.820573310888566,0.0,0.876479,0.037337,0.053598,43,1,26,5860,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4391,'43RG127',5165.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.530804840284573,-0.530804839323135,0.628318530717959,704.397407300513,0.820613846154465,0.0,0.876479,0.037337,0.053598,43,1,27,5861,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4392,'43RG128',5166.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.530304272527082,-0.530304271565644,0.628318530717959,704.564863678878,0.820654381059814,0.0,0.876479,0.037337,0.053598,43,1,28,5862,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4393,'43RG129',5167.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.529958902819117,-0.529958901857679,0.628318530717959,704.732355064029,0.820694911897374,0.0,0.876479,0.037337,0.053598,43,1,29,5863,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4394,'43RG130',5168.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.529768691127308,-0.52976869016587,0.628318530717959,704.899866217973,0.820735434973824,0.0,0.876479,0.037337,0.053598,43,1,30,5864,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4395,'43RG131',5169.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.529733583315745,-0.529733582354307,0.628318530717959,705.067381922454,0.820775946607153,0.0,0.876479,0.037337,0.053598,43,1,31,5865,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4396,'43RG132',5170.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.529853511190402,-0.529853510228964,0.628318530717959,705.23488696824,0.820816443124054,0.0,0.876479,0.037337,0.053598,43,1,32,5866,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4397,'43RG133',5171.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.530128392533981,-0.530128391572543,0.628318530717959,705.402366144424,0.820856920857328,0.0,0.876479,0.037337,0.053598,43,1,33,5867,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4398,'43RG134',5172.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.53055813113044,-0.530558130169002,0.628318530717959,705.569804227752,0.820897376143288,0.0,0.876479,0.037337,0.053598,43,1,34,5868,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4399,'43RG135',5173.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.531142616779717,-0.531142615818279,0.628318530717959,705.737185971978,0.820937805319186,0.0,0.876479,0.037337,0.053598,43,1,35,5869,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4400,'43RG136',5174.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.531881725302759,-0.531881724341321,0.628318530717959,705.904496097282,0.820978204720647,0.0,0.876479,0.037337,0.053598,43,1,36,5870,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4401,'43RG137',5175.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.532775318536607,-0.532775317575169,0.628318530717959,706.071719279728,0.821018570679119,0.0,0.876479,0.037337,0.053598,43,1,37,5871,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4402,'43RG138',5176.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.533823244319669,-0.533823243358231,0.628318530717959,706.238840140814,0.821058899519351,0.0,0.876479,0.037337,0.053598,43,1,38,5872,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4403,'43RG139',5177.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.535025336467625,-0.535025335506187,0.628318530717959,706.405843237091,0.821099187556886,0.0,0.876479,0.037337,0.053598,43,1,39,5873,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4404,'43RG140',5178.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.5363814147396,-0.536381413778162,0.628318530717959,706.572713049884,0.821139431095582,0.0,0.876479,0.037337,0.053598,43,1,40,5874,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4405,'43RG141',5179.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.537891284794994,-0.537891283833556,0.628318530717959,706.739433975114,0.821179626425164,0.0,0.876479,0.037337,0.053598,43,1,41,5875,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4406,'43RG142',5180.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.539554738141041,-0.539554737179603,0.628318530717959,706.905990313249,0.82121976981804,0.0,0.876479,0.037337,0.053598,43,1,42,5876,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4407,'43RG143',5181.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.541371552071026,-0.541371551109588,0.628318530717959,707.072366259374,0.821259857530733,0.0,0.876479,0.037337,0.053598,43,1,43,5877,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4408,'43RG144',5182.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.543341489593792,-0.543341488632354,0.628318530717959,707.238545893413,0.821299885793899,0.0,0.876479,0.037337,0.053598,43,1,44,5878,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4409,'43RG145',5183.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.545464299354051,-0.545464298392613,0.628318530717959,707.404513170502,0.821339850817651,0.0,0.876479,0.037337,0.053598,43,1,45,5879,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4410,'43RG146',5184.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.547739715543961,-0.547739714582523,0.628318530717959,707.570251911521,0.821379748785476,0.0,0.876479,0.037337,0.053598,43,1,46,5880,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4411,'43RG147',5185.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.550167457806494,-0.550167456845056,0.628318530717959,707.735745793823,0.821419575852774,0.0,0.876479,0.037337,0.053598,43,1,47,5881,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4412,'43RG148',5186.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.552747231130104,-0.552747230168666,0.628318530717959,707.900978342131,0.821459328144685,0.0,0.876479,0.037337,0.053598,43,1,48,5882,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4413,'43RG149',5187.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.555478725735099,-0.555478724773661,0.628318530717959,708.065932919654,0.821499001753962,0.0,0.876479,0.037337,0.053598,43,1,49,5883,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4414,'43RG150',5188.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.558361616952786,-0.558361615991348,0.628318530717959,708.230592719412,0.821538592738903,0.0,0.876479,0.037337,0.053598,43,1,50,5884,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4415,'43RG151',5189.0,805.0,0.152831372549,1.44917401668008,1.44917401668008,0.0,1.44917401582924,-0.56139556509565,-0.561395564134212,0.628318530717959,708.394940755785,0.821578097121328,0.0,0.876479,0.037337,0.053598,43,1,51,5885,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4416,'43RG201',5198.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.549310890192623,-0.549310889174993,0.628318530717959,708.560841869876,0.821617736742489,0.0,0.876548,0.03732,0.053605,43,2,1,5893,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4417,'43RG202',5199.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.54575486465117,-0.54575486363354,0.628318530717959,708.727104152414,0.821657592182454,0.0,0.876548,0.03732,0.053605,43,2,2,5894,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4418,'43RG203',5200.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.542351580497962,-0.542351579480332,0.628318530717959,708.893710174,0.821697518177426,0.0,0.876548,0.03732,0.053605,43,2,3,5895,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4419,'43RG204',5201.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.539101282861148,-0.539101281843518,0.628318530717959,709.060642735882,0.821737510493873,0.0,0.876548,0.03732,0.053605,43,2,4,5896,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4420,'43RG205',5202.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.536004200696536,-0.536004199678906,0.628318530717959,709.227884861456,0.821777564958275,0.0,0.876548,0.03732,0.053605,43,2,5,5897,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4421,'43RG206',5203.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.533060547020236,-0.533060546002606,0.628318530717959,709.395419787517,0.821817677454994,0.0,0.876548,0.03732,0.053605,43,2,6,5898,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4422,'43RG207',5204.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.530270519132942,-0.530270518115312,0.628318530717959,709.563230955278,0.821857843924068,0.0,0.876548,0.03732,0.053605,43,2,7,5899,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4423,'43RG208',5205.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.527634298835616,-0.527634297817986,0.628318530717959,709.731302001177,0.821898060358973,0.0,0.876548,0.03732,0.053605,43,2,8,5900,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4424,'43RG209',5206.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.525152052636316,-0.525152051618686,0.628318530717959,709.899616747467,0.82193832280432,0.0,0.876548,0.03732,0.053605,43,2,9,5901,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4425,'43RG210',5207.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.522823931948176,-0.522823930930546,0.628318530717959,710.068159192621,0.821978627353524,0.0,0.876548,0.03732,0.053605,43,2,10,5902,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4426,'43RG211',5208.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.520650073278149,-0.520650072260519,0.628318530717959,710.236913501563,0.822018970146419,0.0,0.876548,0.03732,0.053605,43,2,11,5903,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4427,'43RG212',5209.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.518630598406582,-0.518630597388952,0.628318530717959,710.405863995724,0.82205934736842,0.0,0.876548,0.03732,0.053605,43,2,12,5904,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4428,'43RG213',5210.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.516765614557359,-0.516765613539729,0.628318530717959,710.574995142948,0.822099755240178,0.0,0.876548,0.03732,0.053605,43,2,13,5905,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4429,'43RG214',5211.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.515055214558481,-0.515055213540851,0.628318530717959,710.744291547264,0.822140190030483,0.0,0.876548,0.03732,0.053605,43,2,14,5906,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4430,'43RG215',5212.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.513499476993077,-0.513499475975447,0.628318530717959,710.91373793852,0.822180648039962,0.0,0.876548,0.03732,0.053605,43,2,15,5907,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4431,'43RG216',5213.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.512098466340626,-0.512098465322996,0.628318530717959,711.083319161915,0.822221125602444,0.0,0.876548,0.03732,0.053605,43,2,16,5908,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4432,'43RG217',5214.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.510852233108524,-0.510852232090894,0.628318530717959,711.253020167416,0.822261619084813,0.0,0.876548,0.03732,0.053605,43,2,17,5909,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4433,'43RG218',5215.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.509760813953471,-0.509760812935841,0.628318530717959,711.422825999091,0.822302124882438,0.0,0.876548,0.03732,0.053605,43,2,18,5910,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4434,'43RG219',5216.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.508824231793228,-0.508824230775598,0.628318530717959,711.592721784366,0.822342639416975,0.0,0.876548,0.03732,0.053605,43,2,19,5911,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4435,'43RG220',5217.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.508042495908236,-0.508042494890606,0.628318530717959,711.762692723209,0.822383159133763,0.0,0.876548,0.03732,0.053605,43,2,20,5912,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4436,'43RG221',5218.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.507415602033122,-0.507415601015492,0.628318530717959,711.932724077264,0.822423680499209,0.0,0.876548,0.03732,0.053605,43,2,21,5913,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4437,'43RG222',5219.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.50694353243835,-0.50694353142072,0.628318530717959,712.102801158943,0.822464199998162,0.0,0.876548,0.03732,0.053605,43,2,22,5914,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4438,'43RG223',5220.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.506626256001554,-0.50662625983924,0.628318530717959,712.272909320484,0.822504714131285,0.0,0.876548,0.03732,0.053605,43,2,23,5915,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4439,'43RG224',5221.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.506463728268991,-0.506463727251361,0.628318530717959,712.443033942989,0.822545219412431,0.0,0.876548,0.03732,0.053605,43,2,24,5916,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4440,'43RG225',5222.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.506455891506876,-0.506455890489246,0.628318530717959,712.61316042546,0.822585712366007,0.0,0.876548,0.03732,0.053605,43,2,25,5917,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4441,'43RG226',5223.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.506602674742589,-0.506602673724959,0.628318530717959,712.783274173832,0.822626189524358,0.0,0.876548,0.03732,0.053605,43,2,26,5918,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4442,'43RG227',5224.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.506903993795775,-0.506903992778145,0.628318530717959,712.953360590027,0.822666647425146,0.0,0.876548,0.03732,0.053605,43,2,27,5919,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4443,'43RG228',5225.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.507359751299683,-0.507359750282053,0.628318530717959,713.123405061024,0.822707082608743,0.0,0.876548,0.03732,0.053605,43,2,28,5920,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4444,'43RG229',5226.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.507969836712364,-0.507969835694734,0.628318530717959,713.293392947983,0.822747491615636,0.0,0.876548,0.03732,0.053605,43,2,29,5921,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4445,'43RG230',5227.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.508734126318041,-0.508734125300411,0.628318530717959,713.463309575402,0.822787870983847,0.0,0.876548,0.03732,0.053605,43,2,30,5922,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4446,'43RG231',5228.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.509652483218603,-0.509652482200973,0.628318530717959,713.633140220343,0.822828217246369,0.0,0.876548,0.03732,0.053605,43,2,31,5923,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4447,'43RG232',5229.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.510724757315481,-0.510724756297851,0.628318530717959,713.802870101731,0.822868526928621,0.0,0.876548,0.03732,0.053605,43,2,32,5924,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4448,'43RG233',5230.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.511950785281643,-0.511950784264013,0.628318530717959,713.972484369729,0.822908796545932,0.0,0.876548,0.03732,0.053605,43,2,33,5925,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4449,'43RG234',5231.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.51333039052414,-0.51333038950651,0.628318530717959,714.141968095212,0.822949022601044,0.0,0.876548,0.03732,0.053605,43,2,34,5926,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4450,'43RG235',5232.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.514863383137326,-0.514863382119696,0.628318530717959,714.311306259347,0.822989201581644,0.0,0.876548,0.03732,0.053605,43,2,35,5927,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4451,'43RG236',5233.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.516549559846518,-0.516549558828888,0.628318530717959,714.480483743288,0.823029329957926,0.0,0.876548,0.03732,0.053605,43,2,36,5928,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4452,'43RG237',5234.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.518388703942408,-0.518388702924778,0.628318530717959,714.649485317999,0.823069404180192,0.0,0.876548,0.03732,0.053605,43,2,37,5929,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4453,'43RG238',5235.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.520380585206675,-0.520380584189045,0.628318530717959,714.818295634218,0.823109420676481,0.0,0.876548,0.03732,0.053605,43,2,38,5930,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4454,'43RG239',5236.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.522524959828375,-0.522524958810745,0.628318530717959,714.986899212574,0.823149375850237,0.0,0.876548,0.03732,0.053605,43,2,39,5931,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4455,'43RG240',5237.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.524821570311766,-0.524821569294136,0.628318530717959,715.155280433863,0.823189266078025,0.0,0.876548,0.03732,0.053605,43,2,40,5932,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4456,'43RG241',5238.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.52727014537527,-0.5272701435764,0.628318530717959,715.323423529499,0.823229087707283,0.0,0.876548,0.03732,0.053605,43,2,41,5933,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4457,'43RG242',5239.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.52987039984219,-0.52987039882456,0.628318530717959,715.491312572154,0.823268837054121,0.0,0.876548,0.03732,0.053605,43,2,42,5934,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4458,'43RG243',5240.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.532622034523131,-0.532622033505501,0.628318530717959,715.658931466591,0.823308510401174,0.0,0.876548,0.03732,0.053605,43,2,43,5935,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4459,'43RG244',5241.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.535524736090375,-0.535524735072745,0.628318530717959,715.826263940712,0.823348103995499,0.0,0.876548,0.03732,0.053605,43,2,44,5936,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4460,'43RG245',5242.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.538578176944158,-0.538578175926528,0.628318530717959,715.993293536824,0.823387614046527,0.0,0.876548,0.03732,0.053605,43,2,45,5937,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4461,'43RG246',5243.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.541782015071726,-0.541782014054096,0.628318530717959,716.160003603134,0.82342703672408,0.0,0.876548,0.03732,0.053605,43,2,46,5938,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4462,'43RG247',5244.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.545135893898576,-0.545135892880946,0.628318530717959,716.326377285498,0.823466368156435,0.0,0.876548,0.03732,0.053605,43,2,47,5939,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4463,'43RG248',5245.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.548639442132648,-0.548639441115018,0.628318530717959,716.492397519421,0.823505604428454,0.0,0.876548,0.03732,0.053605,43,2,48,5940,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4464,'43RG249',5246.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.552292273601695,-0.552292272584065,0.628318530717959,716.658047022325,0.823544741579782,0.0,0.876548,0.03732,0.053605,43,2,49,5941,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4465,'43RG250',5247.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.556093987083722,-0.556093986066092,0.628318530717959,716.823308286104,0.823583775603108,0.0,0.876548,0.03732,0.053605,43,2,50,5942,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4466,'43RG251',5248.0,805.0,0.153167058824,1.4490599407742,1.4490599407742,0.0,1.44905993992343,-0.560044166130994,-0.560044165113364,0.628318530717959,716.988163569967,0.823622702442496,0.0,0.876548,0.03732,0.053605,43,2,51,5943,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4467,'44RG101',5258.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.53927076977247,-0.539270768736434,0.706858347057703,717.155485421114,0.823661858661189,0.0,0.876619,0.037301,0.053612,44,1,1,5957,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4468,'44RG102',5259.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.535840402042869,-0.535840401006833,0.706858347057703,717.323150848501,0.823701332321444,0.0,0.876619,0.037301,0.053612,44,1,2,5958,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4469,'44RG103',5260.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.5325609202699,-0.532560919233864,0.706858347057703,717.491142948302,0.823740871057132,0.0,0.876619,0.037301,0.053612,44,1,3,5959,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4470,'44RG104',5261.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.529432548791587,-0.52943254755551,0.706858347057703,717.659445039799,0.823780470837775,0.0,0.876619,0.037301,0.053612,44,1,4,5960,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4471,'44RG105',5262.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.526455496591699,-0.526455495555663,0.706858347057703,717.828040656807,0.823820127689896,0.0,0.876619,0.037301,0.053612,44,1,5,5961,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4472,'44RG106',5263.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.523629957519955,-0.523629956483919,0.706858347057703,717.996913538874,0.823859837694906,0.0,0.876619,0.037301,0.053612,44,1,6,5962,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4473,'44RG107',5264.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.520956110503978,-0.520956109467942,0.706858347057703,718.166047622266,0.823899596986939,0.0,0.876619,0.037301,0.053612,44,1,7,5963,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4474,'44RG108',5265.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.518434119752766,-0.51843411871673,0.706858347057703,718.335427030749,0.823939401750635,0.0,0.876619,0.037301,0.053612,44,1,8,5964,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4475,'44RG109',5266.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.516064134951596,-0.51606413391556,0.706858347057703,718.505036066182,0.823979248218891,0.0,0.876619,0.037301,0.053612,44,1,9,5965,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4476,'44RG110',5267.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.513846291448058,-0.513846290412022,0.706858347057703,718.674859198944,0.824019132670566,0.0,0.876619,0.037301,0.053612,44,1,10,5966,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4477,'44RG111',5268.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.511780710429325,-0.511780709393289,0.706858347057703,718.844881058185,0.824059051428151,0.0,0.876619,0.037301,0.053612,44,1,11,5967,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4478,'44RG112',5269.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.509867499090302,-0.509867498054266,0.706858347057703,719.015086421937,0.824099000855401,0.0,0.876619,0.037301,0.053612,44,1,12,5968,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4479,'44RG113',5270.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.50810675079254,-0.508106749756504,0.706858347057703,719.185460207079,0.82413897735495,0.0,0.876619,0.037301,0.053612,44,1,13,5969,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4480,'44RG114',5271.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.506498545214112,-0.506498544178076,0.706858347057703,719.355987459182,0.824178977365879,0.0,0.876619,0.037301,0.053612,44,1,14,5970,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4481,'44RG115',5272.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.505042948489863,-
0.505042947453827,0.706858347057703,719.526653342237,0.824218997361279,0.0,0.876619,0.037301,0.053612,44,1,15,5971,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4482,'44RG116',5273.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.503740013342463,-
0.503740012306427,0.706858347057703,719.697443128278,0.824259033845779,0.0,0.876619,0.037301,0.053612,44,1,16,5972,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4483,'44RG117',5274.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.502589779203764,-
0.502589778167728,0.706858347057703,719.868342186921,0.824299083353065,0.0,0.876619,0.037301,0.053612,44,1,17,5973,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4484,'44RG118',5275.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.50159227232673,-
0.501592271290694,0.706858347057703,720.039335974815,0.824339142443372,0.0,0.876619,0.037301,0.053612,44,1,18,5974,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4485,'44RG119',5276.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.500747505887635,-
0.500747504851599,0.706858347057703,720.21041002503,0.824379207700973,0.0,0.876619,0.037301,0.053612,44,1,19,5975,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4486,'44RG120',5277.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.500055480078683,-
0.500055479042647,0.706858347057703,720.381549936392,0.824419275731656,0.0,0.876619,0.037301,0.053612,44,1,20,5976,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4487,'44RG121',5278.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.499516182190878,-
0.499516181154842,0.706858347057703,720.552741362761,0.82459343160188,0.0,0.876619,0.037301,0.053612,44,1,21,5977,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4488,'44RG122',5279.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.499129586687258,-
0.499129585651222,0.706858347057703,720.723970002291,0.824499406627778,0.0,0.876619,0.037301,0.053612,44,1,22,5978,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4489,'44RG123',5280.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.498895655266271,-
0.498895654230235,0.706858347057703,720.89522158665,0.824539462789539,0.0,0.876619,0.037301,0.053612,44,1,23,5979,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4490,'44RG124',5281.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.498814336915726,-
0.49881433587969,0.706858347057703,721.066481870241,0.824579508311948,0.0,0.876619,0.037301,0.053612,44,1,24,5980,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4491,'44RG125',5282.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.49888556795661,-
0.498885566920574,0.706858347057703,721.237736619413,0.824619539870306,0.0,0.876619,0.037301,0.053612,44,1,25,5981,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4492,'44RG126',5283.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.499109272077601,-
0.499109271041565,0.706858347057703,721.408971601689,0.824659554146213,0.0,0.876619,0.037301,0.053612,44,1,26,5982,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4493,'44RG127',5284.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.499485360359846,-
0.49948535932381,0.706858347057703,721.580172575007,0.824699547825038,0.0,0.876619,0.037301,0.053612,44,1,27,5983,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4494,'44RG128',5285.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.500013731291884,-
0.500013730255848,0.706858347057703,721.751325276994,0.82473951759341,0.0,0.876619,0.037301,0.053612,44,1,28,5984,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4495,'44RG129',5286.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.500694270775416,-
0.50069426973938,0.706858347057703,721.92241541429,0.824779460136719,0.0,0.876619,0.037301,0.053612,44,1,29,5985,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4496,'44RG130',5287.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.501526852121157,-
0.501526851085121,0.706858347057703,722.093428651912,0.824819372136625,0.0,0.876619,0.037301,0.053612,44,1,30,5986,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4497,'44RG131',5288.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.502511336035586,-
0.50251133499955,0.706858347057703,722.264350602689,0.824859250268601,0.0,0.876619,0.037301,0.053612,44,1,31,5987,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4498,'44RG132',5289.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.503647570598073,-
0.50364756956237,0.706858347057703,722.435166816769,0.824899091199477,0.0,0.876619,0.037301,0.053612,44,1,32,5988,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4499,'44RG133',5290.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.504935391228987,-
0.504935390192951,0.706858347057703,722.605862771215,0.824938891585021,0.0,0.876619,0.037301,0.053612,44,1,33,5989,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4500,'44RG134',5291.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.506374620648455,-
0.506374619612419,0.706858347057703,722.776423859688,0.824978648067543,0.0,0.876619,0.037301,0.053612,44,1,34,5990,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4501,'44RG135',5292.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.507965068826086,-
0.50796506779005,0.706858347057703,722.946835382242,0.825018357273516,0.0,0.876619,0.037301,0.053612,44,1,35,5991,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4502,'44RG136',5293.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.509706532921737,-
0.509706531885701,0.706858347057703,723.117082535239,0.825058015811244,0.0,0.876619,0.037301,0.053612,44,1,36,5992,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4503,'44RG137',5294.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.511598797217592,-
0.511598796181556,0.706858347057703,723.287150401384,0.825097620268545,0.0,0.876619,0.037301,0.053612,44,1,37,5993,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4504,'44RG138',5295.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.513641633041243,-
0.513641632005207,0.706858347057703,723.457023939906,0.825137167210484,0.0,0.876619,0.037301,0.053612,44,1,38,5994,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4505,'44RG139',5296.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.515834798680491,-
0.515834797644455,0.706858347057703,723.626687976884,0.825176653177133,0.0,0.876619,0.037301,0.053612,44,1,39,5995,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4506,'44RG140',5297.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.518178039289663,-
0.518178038253627,0.706858347057703,723.796127195738,0.825216074681373,0.0,0.876619,0.037301,0.053612,44,1,40,5996,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4507,'44RG141',5298.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.52067108678752,-
0.520671085751484,0.706858347057703,723.965326127887,0.825255428206742,0.0,0.876619,0.037301,0.053612,44,1,41,5997,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4508,'44RG142',5299.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.52331365974747,-
0.52331365871134,0.706858347057703,724.134269143595,0.825294710205322,0.0,0.876619,0.037301,0.053612,44,1,42,5998,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4509,'44RG143',5300.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.526105463279184,-
0.526105462243148,0.706858347057703,724.302940443008,0.825333917095677,0.0,0.876619,0.037301,0.053612,44,1,43,5999,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4510,'44RG144',5301.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.529046188903547,-
0.52904618786751,0.706858347057703,724.471324047396,0.825373045260837,0.0,0.876619,0.037301,0.053612,44,1,44,6000,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4511,'44RG145',5302.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.532135514418873,-
0.532135513382837,0.706858347057703,724.639403790615,0.825412091046337,0.0,0.876619,0.037301,0.053612,44,1,45,6001,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4512,'44RG146',5303.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.535373103760901,-
0.535373102724865,0.706858347057703,724.807163310793,0.825451050758308,0.0,0.876619,0.037301,0.053612,44,1,46,6002,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4513,'44RG147',5304.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.538758606854832,-
0.538758605818796,0.706858347057703,724.974586042256,0.825489920661626,0.0,0.876619,0.037301,0.053612,44,1,47,6003,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4514,'44RG148',5305.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.542291659461054,-
0.542291658425018,0.706858347057703,725.14165520771,0.825528696978115,0.0,0.876619,0.037301,0.053612,44,1,48,6004,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4515,'44RG149',5306.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.545971883013938,-
0.545971881977902,0.706858347057703,725.308353810682,0.825567375884823,0.0,0.876619,0.037301,0.053612,44,1,49,6005,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4516,'44RG150',5307.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.549798884454316,-
0.54979888341828,0.706858347057703,725.474664628228,0.825605953512348,0.0,0.876619,0.037301,0.053612,44,1,50,6006,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4517,'44RG151',5308.0,805.0,0.153541960784,1.44894257706682,1.44894257706682,0.0,1.44894257621612,-0.55377225605577,-
0.553772255019734,0.706858347057703,725.640570203942,0.825644425943241,0.0,0.876619,0.037301,0.053612,44,1,51,6007,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4518,'44RG201',5317.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.540580093312461,-
0.540580092304075,0.706858347057703,725.80814934901,0.825683031871264,0.0,0.876683,0.037284,0.053619,44,2,1,6015,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4519,'44RG202',5318.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.537619391274122,-
0.537619390265736,0.706858347057703,725.976026611612,0.825721853253202,0.0,0.876683,0.037284,0.053619,44,2,2,6016,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4520,'44RG203',5319.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.534806668027954,-
0.534806667019568,0.706858347057703,726.144185786163,0.825760726728229,0.0,0.876683,0.037284,0.053619,44,2,3,6017,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4521,'44RG204',5320.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.532142104419963,-
0.532142103411577,0.706858347057703,726.312610856314,0.825799650670533,0.0,0.876683,0.037284,0.053619,44,2,4,6018,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4522,'44RG205',5321.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.529625866898486,-
0.529625865658901,0.706858347057703,726.481285986306,0.82583862061749,0.0,0.876683,0.037284,0.053619,44,2,5,6019,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4523,'44RG206',5322.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.527258107698815,-
0.527258106690429,0.706858347057703,726.650195512155,0.825877632873494,0.0,0.876683,0.037284,0.053619,44,2,6,6020,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4524,'44RG207',5323.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.525038965019698,-0.525038964011312,0.706858347057703,726.819323932652,0.825916683786664,0.0,0.876683,0.037284,0.053619,44,2,7,6021,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4525,'44RG208',5324.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.522968563191769,-0.522968562183383,0.706858347057703,726.98865590021,0.825955769746685,0.0,0.876683,0.037284,0.053619,44,2,8,6022,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4526,'44RG209',5325.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.521047012837408,-0.521047011829022,0.706858347057703,727.158176211567,0.825994887182629,0.0,0.876683,0.037284,0.053619,44,2,9,6023,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4527,'44RG210',5326.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.519274411022452,-0.519274410014066,0.706858347057703,727.327869798346,0.826034032560742,0.0,0.876683,0.037284,0.053619,44,2,10,6024,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4528,'44RG211',5327.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.517650841399112,-0.517650840390726,0.706858347057703,727.497721717495,0.826073202382199,0.0,0.876683,0.037284,0.053619,44,2,11,6025,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4529,'44RG212',5328.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.516176374340405,-0.516176373332019,0.706858347057703,727.667717141616,0.826112393180846,0.0,0.876683,0.037284,0.053619,44,2,12,6026,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4530,'44RG213',5329.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.514851067065843,-0.514851066057457,0.706858347057703,727.837841349183,0.826151601520907,0.0,0.876683,0.037284,0.053619,44,2,13,6027,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4531,'44RG214',5330.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.513674963758179,-0.513674962749793,0.706858347057703,728.008079714683,0.82619082399469,0.0,0.876683,0.037284,0.053619,44,2,14,6028,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4532,'44RG215',5331.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.512648095671574,-0.512648094663188,0.706858347057703,728.178417698665,0.826230057220256,0.0,0.876683,0.037284,0.053619,44,2,15,6029,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4533,'44RG216',5332.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.511770481230558,-0.511770480222172,0.706858347057703,728.348840837724,0.826269297839094,0.0,0.876683,0.037284,0.053619,44,2,16,6030,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4534,'44RG217',5333.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.511042126120353,-0.511042125111967,0.706858347057703,728.519334734434,0.826308542513773,0.0,0.876683,0.037284,0.053619,44,2,17,6031,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4535,'44RG218',5334.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.51046302336792,-0.51046302235953 4,0.706858347057703,728.689885047222,0.826347787925594,0.0,0.876683,0.037284,0.053619,44,2,18,6032,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4536,'44RG219',5335.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.510033153414236,-0.51003315240585,0.706858347057703,728.860477480215,0.826387030772225,0.0,0.876683,0.037284,0.053619,44,2,19,6033,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4537,'44RG220',5336.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.509752484177427,-0.509752483169041,0.706858347057703,729.031097773052,0.826426267765347,0.0,0.876683,0.037284,0.053619,44,2,20,6034,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4538,'44RG221',5337.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.509620971106978,-0.509620970098592,0.706858347057703,729.201731690692,0.826465495628286,0.0,0.876683,0.037284,0.053619,44,2,21,6035,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4539,'44RG222',5338.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.509638557228855,-0.509638556220469,0.706858347057703,729.372365013204,0.826504711093659,0.0,0.876683,0.037284,0.053619,44,2,22,6036,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4540,'44RG223',5339.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.509805173181613,-0.509805172173227,0.706858347057703,729.542983525574,0.826543910901013,0.0,0.876683,0.037284,0.053619,44,2,23,6037,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4541,'44RG224',5340.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.510120737243712,-0.510120736235326,0.706858347057703,729.713573007515,0.826583091794475,0.0,0.876683,0.037284,0.053619,44,2,24,6038,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4542,'44RG225',5341.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.510585155351743,-0.510585154343357,0.706858347057703,729.884119223316,0.826622250520415,0.0,0.876683,0.037284,0.053619,44,2,25,6039,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4543,'44RG226',5342.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.511198321109662,-0.511198320101276,0.706858347057703,730.054607911717,0.826661383825111,0.0,0.876683,0.037284,0.053619,44,2,26,6040,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4544,'44RG227',5343.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.511960115789614,-0.511960114781228,0.706858347057703,730.225024775833,0.826700488452435,0.0,0.876683,0.037284,0.053619,44,2,27,6041,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4545,'44RG228',5344.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.512870408323325,-0.51287040731493 9,0.706858347057703,730.395355473139,0.82673956114155 2,0.0,0.876683,0.037284,0.053619,44,2,28,6042,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4546,'44RG229',5345.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.513929055285439,-0.513929054277053,0.706858347057703,730.565585605514,0.826778598624638,0.0,0.876683,0.037284,0.053619,44,2,29,6043,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4547,'44RG230',5346.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.515135900867749,-0.515135899859363,0.706858347057703,730.735700709368,0.826817597624613,0.0,0.876683,0.037284,0.053619,44,2,30,6044,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4548,'44RG231',5347.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.516490776845055,-0.516490775836669,0.706858347057703,730.905686245855,0.826856554852907,0.0,0.876683,0.037284,0.053619,44,2,31,6045,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4549,'44RG232',5348.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.517993502532706,-0.51799350152432,0.706858347057703,731.075527591179,0.826895467007241,0.0,0.876683,0.037284,0.053619,44,2,32,6046,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4550,'44RG233',5349.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.51964388473541,-0.519643883727024,0.706858347057703,731.245210027015,0.826934330769438,0.0,0.876683,0.037284,0.053619,44,2,33,6047,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4551,'44RG234',5350.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.521441717688235,-0.521441716679849,0.706858347057703,731.414718731041,0.826973142803269,0.0,0.876683,0.037284,0.053619,44,2,34,6048,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4552,'44RG235',5351.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.523386782989243,-0.523386781980857,0.706858347057703,731.584038767604,0.827011899752321,0.0,0.876683,0.037284,0.053619,44,2,35,6049,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4553,'44RG236',5352.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.525478849524178,-0.525478848515792,0.706858347057703,731.75315507852,0.827050599237905,0.0,0.876683,0.037284,0.053619,44,2,36,6050,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4554,'44RG237',5353.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.527717673383188,-0.527717672374802,0.706858347057703,731.922052474026,0.827089234857002,0.0,0.876683,0.037284,0.053619,44,2,37,6051,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4555,'44RG238',5354.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.530102997770131,-0.530102996761745,0.706858347057703,732.090715623892,0.827127806180239,0.0,0.876683,0.037284,0.053619,44,2,38,6052,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4556,'44RG239',5355.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.532634552904065,-0.532634551895679,0.706858347057703,732.259129048697,0.827166308749915,0.0,0.876683,0.037284,0.053619,44,2,39,6053,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4557,'44RG240',5356.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.535312055913325,-0.535312054904939,0.706858347057703,732.427277111297,0.827204739078064,0.0,0.876683,0.037284,0.053619,44,2,40,6054,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4558,'44RG241',5357.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.538135210722652,-0.538135209714266,0.706858347057703,732.595144008471,0.827243093644565,0.0,0.876683,0.037284,0.053619,44,2,41,6055,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4559,'44RG242',5358.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.541103707932864,-0.541103706924478,0.706858347057703,732.762713762779,0.827281368895299,0.0,0.876683,0.037284,0.053619,44,2,42,6056,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4560,'44RG243',5359.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.544217224694174,-0.544217223685788,0.706858347057703,732.929970214629,0.827319561240356,0.0,0.876683,0.037284,0.053619,44,2,43,6057,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4561,'44RG244',5360.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.547475424572157,-0.547475423563771,0.706858347057703,733.096897014564,0.827357667052295,0.0,0.876683,0.037284,0.053619,44,2,44,6058,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4562,'44RG245',5361.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.55087795740817,-0.550877956399784,0.706858347057703,733.263477615787,0.827395682664455,0.0,0.876683,0.037284,0.053619,44,2,45,6059,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4563,'44RG246',5362.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.554424459172525,-0.554424458164139,0.706858347057703,733.429695266935,0.82743360436 9325,0.0,0.876683,0.037284,0.053619,44,2,46,6060,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4564,'44RG247',5363.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.558114551812318,-0.558114550803932,0.706858347057703,733.595533005095,0.827471428416974,0.0,0.876683,0.037284,0.053619,44,2,47,6061,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4565,'44RG248',5364.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.561947843093465,-0.561947842085079,0.706858347057703,733.760973649104,0.827509151013537,0.0,0.876683,0.037284,0.053619,44,2,48,6062,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4566,'44RG249',5365.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.565923926436477,-0.565923925428091,0.706858347057703,733.925999793114,0.827546768319768,0.0,0.876683,0.037284,0.053619,44,2,49,6063,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4567,'44RG250',5366.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.570042380747809,-0.570042379739423,0.706858347057703,734.090593800452,0.82758427644966,0.0,0.876683,0.037284,0.053619,44,2,50,6064,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4568,'44RG251',5367.0,805.0,0.153895686275,1.44883680072015,1.44883680072015,0.0,1.44883679986951,-0.574302770245575,-0.574302769237189,0.706858347057703,734.254737797776,0.82762167146913,0.0,0.876683,0.037284,0.053619,44,2,51,6065,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4569,'45RG101',5377.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.575582529625824,-0.575582528626195,0.776671517137477,734.419139014914,0.82765903186317,0.0,0.876751,0.037267,0.053625,45,1,1,6079,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4570,'45RG102',5378.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.57146439050352,-0.57146438950389,0.776671517137477,734.583979134428,0.827696458690986,0.0,0.876751,0.037267,0.053625,45,1,2,6080,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4571,'45RG103',5379.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.567488707111885,-0.567488706112256,0.776671517137477,734.749240363375,0.827733970498656,0.0,0.876751,0.037267,0.053625,45,1,3,6081,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4572,'45RG104',5380.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.563655779994984,-0.563655778995354,0.776671517137477,734.91490515071,0.827771563177948,0.0,0.876751,0.037267,0.053625,45,1,4,6082,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4573,'45RG105',5381.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.559965894101636,-0.559965893102007,0.776671517137477,735.080956181,0.827809232680176,0.0,0.876751,0.037267,0.053625,45,1,5,6083,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4574,'45RG106',5382.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.556419319015148,-0.55641931801518,0.776671517137477,735.247376367866,0.827846975014685,0.0,0.876751,0.037267,0.053625,45,1,6,6084,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4575,'45RG107',5383.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.553016309176989,-0.553016308177359,0.776671517137477,735.414148847166,0.827884786247262,0.0,0.876751,0.037267,0.053625,45,1,7,6085,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4576,'45RG108',5384.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.5497571041043,-0.549757103104671,0.776671517137477,735.581256969925,0.827922662498501,0.0,0.876751,0.037267,0.053625,45,1,8,6086,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4577,'45RG109',5385.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.546641928601068,-0.546641927601438,0.776671517137477,735.748684295036,0.827960599942105,0.0,0.876751,0.037267,0.053625,45,1,9,6087,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4578,'45RG110',5386.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.543670992962404,-0.543670991962774,0.776671517137477,735.916414581726,0.82799859480315,0.0,0.876751,0.037267,0.053625,45,1,10,6088,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4579,'45RG111',5387.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.540844493172464,-0.540844492172834,0.776671517137477,736.08443178182,0.828036643356283,0.0,0.876751,0.037267,0.053625,45,1,11,6089,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4580,'45RG112',5388.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.538162611094903,-0.538162610095274,0.776671517137477,736.252720031798,0.828074741923895,0.0,0.876751,0.037267,0.053625,45,1,12,6090,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4581,'45RG113',5389.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.535625514656665,-0.535625513657035,0.776671517137477,736.421263644657,0.828112886874236,0.0,0.876751,0.037267,0.053625,45,1,13,6091,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4582,'45RG114',5390.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.533233358024105,-0.533233357024475,0.776671517137477,736.59004710161,0.828151074619503,0.0,0.876751,0.037267,0.053625,45,1,14,6092,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4583,'45RG115',5391.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.530986281771937,-0.530986280772307,0.776671517137477,736.7590550436,0.828189301613878,0.0,0.876751,0.037267,0.053625,45,1,15,6093,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4584,'45RG116',5392.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.528884413044465,-0.528884412044835,0.776671517137477,736.928272262671,0.828227564351546,0.0,0.876751,0.037267,0.053625,45,1,16,6094,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4585,'45RG117',5393.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.526927865709275,-0.52692786470964,0.776671517137477,737.09768369319,0.828265859364673,0.0,0.876751,0.037267,0.053625,45,1,17,6095,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4586,'45RG118',5394.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.525116740502951,-0.525116739503321,0.776671517137477,737.267274402932,0.828304183221356,0.0,0.876751,0.037267,0.053625,45,1,18,6096,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4587,'45RG119',5395.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.523451125169137,-0.52345112416908,0.776671517137477,737.43702958405,0.828342532523552,0.0,0.876751,0.037267,0.053625,45,1,19,6097,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4588,'45RG120',5396.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.521931094588367,-0.52193109358873,0.776671517137477,737.606934543923,0.828380903904975,0.0,0.876751,0.037267,0.053625,45,1,20,6098,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4589,'45RG121',5397.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.520556710900072,-0.520556709900443,0.776671517137477,737.776974695909,0.828419294028985,0.0,0.876751,0.037267,0.053625,45,1,21,6099,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4590,'45RG122',5398.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.519328023616295,-0.519328022616666,0.776671517137477,737.947135550007,0.828457699586443,0.0,0.876751,0.037267,0.053625,45,1,22,6100,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4591,'45RG123',5399.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.518245069727193,-0.518245068727563,0.776671517137477,738.117402703432,0.828496117293562,0.0,0.876751,0.037267,0.053625,45,1,23,6101,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4592,'45RG124',5400.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.517307873798442,-0.517307872798813,0.776671517137477,738.287761831128,0.828534543889737,0.0,0.876751,0.037267,0.053625,45,1,24,6102,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4593,'45RG125',5401.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.516516448060279,-0.516516447060649,0.776671517137477,738.458198676213,0.828572976135371,0.0,0.876751,0.037267,0.053625,45,1,25,6103,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4594,'45RG126',5402.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.515870792488171,-0.515870791488542,0.776671517137477,738.628699040378,0.828611410809684,0.0,0.876751,0.037267,0.053625,45,1,26,6104,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4595,'45RG127',5403.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.515370894875252,-0.515370893875623,0.776671517137477,738.799248774247,0.82864984470852,0.0,0.876751,0.037267,0.053625,45,1,27,6105,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4596,'45RG128',5404.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.515016730896149,-0.515016729896519,0.776671517137477,738.969833767706,0.828688274642152,0.0,0.876751,0.037267,0.053625,45,1,28,6106,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4597,'45RG129',5405.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.514808264162772,-0.514808263163143,0.776671517137477,739.140439940204,0.828726697433078,0.0,0.876751,0.037267,0.053625,45,1,29,6107,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4598,'45RG130',5406.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.514745446271504,-0.514745445271874,0.776671517137477,739.311053231059,0.828765109913822,0.0,0.876751,0.037267,0.053625,45,1,30,6108,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4599,'45RG131',5407.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.514828216842125,-0.514828215842495,0.776671517137477,739.481659589749,0.82880350892474,0.0,0.876751,0.037267,0.053625,45,1,31,6109,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4600,'45RG132',5408.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.515056503548321,-0.515056502548692,0.776671517137477,739.652244966223,0.828841891311823,0.0,0.876751,0.037267,0.053625,45,1,32,6110,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4601,'45RG133',5409.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.515430222139875,-0.515430221140246,0.776671517137477,739.822795301221,0.828880253924514,0.0,0.876751,0.037267,0.053625,45,1,33,6111,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4602,'45RG134',5410.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.515949276456708,-0.515949275457078,0.776671517137477,739.993296516631,0.828918593613532,0.0,0.876751,0.037267,0.053625,45,1,34,6112,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4603,'45RG135',5411.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.516613558434591,-0.516613557434962,0.776671517137477,740.163734505879,0.828956907228702,0.0,0.876751,0.037267,0.053625,45,1,35,6113,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4604,'45RG136',5412.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.517422948102534,-0.517422947102904,0.776671517137477,740.334095124371,0.828995191616809,0.0,0.876751,0.037267,0.053625,45,1,36,6114,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4605,'45RG137',5413.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.518377313572209,-0.518377312572579,0.776671517137477,740.504364179986,0.829033443619453,0.0,0.876751,0.037267,0.053625,45,1,37,6115,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4606,'45RG138',5414.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.519476511019362,-0.519476510019732,0.776671517137477,740.674527423648,0.829071660070941,0.0,0.876751,0.037267,0.053625,45,1,38,6116,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4607,'45RG139',5415.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.520720384656988,-0.520720383657359,0.776671517137477,740.844570539958,0.829109837796176,0.0,0.876751,0.037267,0.053625,45,1,39,6117,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4608,'45RG140',5416.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.52210876670088,-0.522108765701251,0.776671517137477,741.014479137927,0.829147973608585,0.0,0.876751,0.037267,0.053625,45,1,40,6118,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4609,'45RG141',5417.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.523641477327166,-0.523641476327537,0.776671517137477,741.184238741802,0.829186064308067,0.0,0.876751,0.037267,0.053625,45,1,41,6119,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4610,'45RG142',5418.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.525318324622118,-0.525318323622489,0.776671517137477,741.353834781988,0.829224106678959,0.0,0.876751,0.037267,0.053625,45,1,42,6120,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4611,'45RG143',5419.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.527139104524486,-0.527139103524856,0.776671517137477,741.523252586099,0.829262097488038,0.0,0.876751,0.037267,0.053625,45,1,43,6121,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4612,'45RG144',5420.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.529103600760321,-0.529103599760692,0.776671517137477,741.692477370127,0.829300033482555,0.0,0.876751,0.037267,0.053625,45,1,44,6122,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4613,'45RG145',5421.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.531211584770196,-0.531211583770567,0.776671517137477,741.861494229746,0.829337911388292,0.0,0.876751,0.037267,0.053625,45,1,45,6123,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4614,'45RG146',5422.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.533462815629306,-0.533462814629676,0.776671517137477,742.03028813176,0.829375727907661,0.0,0.876751,0.037267,0.053625,45,1,46,6124,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4615,'45RG147',5423.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.535857039960837,-0.535857038961208,0.776671517137477,742.198843905711,0.829413479717834,0.0,0.876751,0.037267,0.053625,45,1,47,6125,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4616,'45RG148',5424.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.538393991841558,-0.538393990841929,0.776671517137477,742.367146235647,0.82945116346892,0.0,0.876751,0.037267,0.053625,45,1,48,6126,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4617,'45RG149',5425.0,805.0,0.154320612245,1.44872443027238,1.44872443027238,0.0,1.44872442942181,-0.541073392701257,-0.541073391701627,0.776671517137477,742.535179652063,0.829488775782167,0.0,0.876751,0.037267,0.053625,45,1,49,6127,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4618,'45RG201',5434.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.540381537244768,-0.540381536191171,0.776671517137477,742.703588224017,0.829526386984068,0.0,0.876811,0.037251,0.053632,45,2,1,6135,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4619,'45RG202',5435.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.536787542822268,-0.536787541768671,0.776671517137477,742.872359853235,0.82956406768065,0.0,0.876811,0.037251,0.053632,45,2,2,6136,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4620,'45RG203',5436.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.533336580185938,-0.533336579132341,0.776671517137477,743.041478086141,0.829601814603493,0.0,0.876811,0.037251,0.053632,45,2,3,6137,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4621,'45RG204',5437.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.53002887860221,-0.530028877548613,0.776671517137477,743.210926692047,0.829639624027092,0.0,0.876811,0.037251,0.053632,45,2,4,6138,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4622,'45RG205',5438.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.526864653242829,-0.526864652189232,0.776671517137477,743.380689655675,0.829677492279848,0.0,0.876811,0.037251,0.053632,45,2,5,6139,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4623,'45RG206',5439.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.523844105391618,-0.523844104338021,0.776671517137477,743.550751169441,0.829715415742305,0.0,0.876811,0.037251,0.053632,45,2,6,6140,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4624,'45RG207',5440.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.520967422644404,-0.520967421590807,0.776671517137477,743.721095625539,0.829753390845342,0.0,0.876811,0.037251,0.053632,45,2,7,6141,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4625,'45RG208',5441.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.518234779101896,-0.518234778048299,0.776671517137477,743.891707607829,0.829791414068322,0.0,0.876811,0.037251,0.053632,45,2,8,6142,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4626,'45RG209',5442.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.515646335555432,-0.515646334501835,0.776671517137477,744.062571883535,0.8298294819372,0.0,0.876811,0.037251,0.053632,45,2,9,6143,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4627,'45RG210',5443.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.51320223966534,-0.513202238611743,0.776671517137477,744.233673394768,0.829867591022594,0.0,0.876811,0.037251,0.053632,45,2,10,6144,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4628,'45RG211',5444.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.510902626131938,-0.510902625078341,0.776671517137477,744.40499724989,0.829905737937822,0.0,0.876811,0.037251,0.053632,45,2,11,6145,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4629,'45RG212',5445.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.50874761685882,-0.508747615805223,0.776671517137477,744.576528714719,0.829943919336904,0.0,0.876811,0.037251,0.053632,45,2,12,6146,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4630,'45RG213',5446.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.506737321108645,-0.506737320055048,0.776671517137477,744.7482532036,0.829982131912533,0.0,0.876811,0.037251,0.053632,45,2,13,6147,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4631,'45RG214',5447.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.504871835650882,-0.50487183459728,0.776671517137477,744.920156270333,0.830020372394025,0.0,0.876811,0.037251,0.053632,45,2,14,6148,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4632,'45RG215',5448.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.503151244901873,-0.503151243848276,0.776671517137477,745.092223598991,0.83005863754524,0.0,0.876811,0.037251,0.053632,45,2,15,6149,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4633,'45RG216',5449.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.501575621056795,-0.501575620003198,0.776671517137477,745.264440994621,0.830096924162473,0.0,0.876811,0.037251,0.053632,45,2,16,6150,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4634,'45RG217',5450.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.500145024213581,-0.500145023159984,0.776671517137477,745.436794373844,0.83013522907234,0.0,0.876811,0.037251,0.053632,45,2,17,6151,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4635,'45RG218',5451.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.498859502488735,-0.498859501435138,0.776671517137477,745.609269755371,0.830173549129637,0.0,0.876811,0.037251,0.053632,45,2,18,6152,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4636,'45RG219',5452.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.497719092124954,-0.497719091071357,0.776671517137477,745.78185325043,0.830211881215178,0.0,0.876811,0.037251,0.053632,45,2,19,6153,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4637,'45RG220',5453.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.496723817590514,-0.496723816536917,0.776671517137477,745.95453105313,0.830250222233635,0.0,0.876811,0.037251,0.053632,45,2,20,6154,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4638,'45RG221',5454.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.495873691670383,-0.495873690616786,0.776671517137477,746.127289430759,0.830288569111355,0.0,0.876811,0.037251,0.053632,45,2,21,6155,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4639,'45RG222',5455.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.495168715549007,-0.49516871449541,0.776671517137477,746.300114714034,0.83032691879417,0.0,0.876811,0.037251,0.053632,45,2,22,6156,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4640,'45RG223',5456.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.494608878884691,-0.494608877831094,0.776671517137477,746.472993287307,0.830365268245205,0.0,0.876811,0.037251,0.053632,45,2,23,6157,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4641,'45RG224',5457.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.494194159875882,-0.494194158822285,0.776671517137477,746.645911578746,0.83040361444268,0.0,0.876811,0.037251,0.053632,45,2,24,6158,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4642,'45RG225',5458.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.493924525318662,-0.493924524265065,0.776671517137477,746.818856050481,0.830441954377703,0.0,0.876811,0.037251,0.053632,45,2,25,6159,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4643,'45RG226',5459.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.493799930656402,-0.493799929602805,0.776671517137477,746.991813188752,0.830480285052076,0.0,0.876811,0.037251,0.053632,45,2,26,6160,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4644,'45RG227',5460.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.493820320020576,-0.493820318966979,0.776671517137477,747.164769494043,0.830518603476091,0.0,0.876811,0.037251,0.053632,45,2,27,6161,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4645,'45RG228',5461.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.493985626263616,-0.493985625210019,0.776671517137477,747.337711471225,0.830556906666336,0.0,0.876811,0.037251,0.053632,45,2,28,6162,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4646,'45RG229',5462.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.494295770983101,-0.494295769929504,0.776671517137477,747.510625619714,0.830595191643505,0.0,0.876811,0.037251,0.053632,45,2,29,6163,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4647,'45RG230',5463.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.494750664538096,-0.494750663484499,0.776671517137477,747.683498423655,0.83063345543022,0.0,0.876811,0.037251,0.053632,45,2,30,6164,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4648,'45RG231',5464.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.495350206056828,-0.495350205003231,0.776671517137477,747.856316342136,0.830671695048856,0.0,0.876811,0.037251,0.053632,45,2,31,6165,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4649,'45RG232',5465.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.496094283436428,-0.496094282382831,0.776671517137477,748.029065799447,0.83070990751938,0.0,0.876811,0.037251,0.053632,45,2,32,6166,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4650,'45RG233',5466.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.496982773334381,-0.496982772280784,0.776671517137477,748.201733175392,0.830748089857231,0.0,0.876811,0.037251,0.053632,45,2,33,6167,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4651,'45RG234',5467.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.498015541152036,-0.498015540098439,0.776671517137477,748.37430479566,0.830786239071144,0.0,0.876811,0.037251,0.053632,45,2,34,6168,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4652,'45RG235',5468.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.499192441009996,-0.499192439956399,0.776671517137477,748.546766922266,0.830824352161084,0.0,0.876811,0.037251,0.053632,45,2,35,6169,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4653,'45RG236',5469.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.500513315715602,-0.500513314662005,0.776671517137477,748.719105744073,0.830862426116137,0.0,0.876811,0.037251,0.053632,45,2,36,6170,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4654,'45RG237',5470.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.501977996722659,-0.501977995669062,0.776671517137477,748.891307367401,0.830900457912447,0.0,0.876811,0.037251,0.053632,45,2,37,6171,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4655,'45RG238',5471.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.503586304083094,-0.503586303029497,0.776671517137477,749.063357806738,0.830938444511168,0.0,0.876811,0.037251,0.053632,45,2,38,6172,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4656,'45RG239',5472.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.505338046391501,-0.505338045337904,0.776671517137477,749.235242975551,0.830976382856448,0.0,0.876811,0.037251,0.053632,45,2,39,6173,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4657,'45RG240',5473.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.507233020721537,-0.50723301966794,0.776671517137477,749.406948677223,0.831014269873442,0.0,0.876811,0.037251,0.053632,45,2,40,6174,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4658,'45RG241',5474.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.509271012555175,-0.509271011501578,0.776671517137477,749.578460596105,0.831052102466349,0.0,0.876811,0.037251,0.053632,45,2,41,6175,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4659,'45RG242',5475.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.511451795704752,-0.511451794651155,0.776671517137477,749.749764288714,0.831089877516486,0.0,0.876811,0.037251,0.053632,45,2,42,6176,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4660,'45RG243',5476.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.513775132227523,-0.513775131173926,0.776671517137477,749.920845175066,0.831127591880391,0.0,0.876811,0.037251,0.053632,45,2,43,6177,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4661,'45RG244',5477.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.516240772333412,-0.516240771279815,0.776671517137477,750.091688530173,0.831165242387969,0.0,0.876811,0.037251,0.053632,45,2,44,6178,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4662,'45RG245',5478.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.518848454285646,-0.518848453232049,0.776671517137477,750.262279475694,0.831202825840667,0.0,0.876811,0.037251,0.053632,45,2,45,6179,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4663,'45RG246',5479.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.521597904294659,-0.521597903241062,0.776671517137477,750.432602971769,0.831240339009699,0.0,0.876811,0.037251,0.053632,45,2,46,6180,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4664,'45RG247',5480.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.524488836405596,-0.524488835351999,0.776671517137477,750.602643809025,0.8312777786343,0.0,0.876811,0.037251,0.053632,45,2,47,6181,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4665,'45RG248',5481.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.527520952379,-0.527520951325403,0.776671517137477,750.772386600787,0.831315141420035,0.0,0.876811,0.037251,0.053632,45,2,48,6182,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4666,'45RG249',5482.0,805.0,0.154643061224,1.44862529435163,1.44862529435163,0.0,1.44862529350111,-0.530693941565759,-0.530693940512162,0.776671517137477,750.941815775484,0.83135242403715,0.0,0.876811,0.037251,0.053632,45,2,49,6183,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4667,'46RG101',5492.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.589898009626614,-0.589898008689357,0.767944870877505,751.105375383342,0.831389014441822,0.0,0.876871,0.037235,0.053639,46,1,1,6197,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4668,'46RG102',5493.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.586480166095006,-0.586480165157749,0.767944870877505,751.269309192802,0.831424988874795,0.0,0.876871,0.037235,0.053639,46,1,2,6198,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4669,'46RG103',5494.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.583198572365162,-0.583198571427905,0.767944870877505,751.433600528239,0.831461031637995,0.0,0.876871,0.037235,0.053639,46,1,3,6199,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4670,'46RG104',5495.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.580053466495032,-0.580053465557775,0.767944870877505,751.598232904256,0.831497139016797,0.0,0.876871,0.037235,0.053639,46,1,4,6200,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4671,'46RG105',5496.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.577045072506733,-0.577045071569476,0.767944870877505,751.763190019451,0.83153307342416,0.0,0.876871,0.037235,0.053639,46,1,5,6201,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4672,'46RG106',5497.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.574173600562657,-0.574173599625254,0.767944870877505,751.928455749978,0.831569532990471,0.0,0.876871,0.037235,0.053639,46,1,6,6202,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4673,'46RG107',5498.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.571439247136018,-0.57143924619761,0.767944870877505,752.094014142913,0.831605812379499,0.0,0.876871,0.037235,0.053639,46,1,7,6203,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4674,'46RG108',5499.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.568842195175547,-0.56884219423829,0.767944870877505,752.259849409438,0.831642141969439,0.0,0.876871,0.037235,0.053639,46,1,8,6204,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4675,'46RG109',5500.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.566382614264503,-0.566382613327246,0.767944870877505,752.425945917842,0.831678518260067,0.0,0.876871,0.037235,0.053639,46,1,9,6205,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4676,'46RG110',5501.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.564060660773462,-0.564060659836205,0.767944870877505,752.592288186372,0.831714937789403,0.0,0.876871,0.037235,0.053639,46,1,10,6206,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4677,'46RG111',5502.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.56187647800697,-0.561876477069713,0.767944870877505,752.758860875914,0.831751397132083,0.0,0.876871,0.037235,0.053639,46,1,11,6207,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4678,'46RG112',5503.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.559830196344121,-0.559830195406864,0.767944870877505,752.925648782542,0.831787892897699,0.0,0.876871,0.037235,0.053639,46,1,12,6208,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4679,'46RG113',5504.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.557921933372474,-0.557921932435217,0.767944870877505,753.092636829924,0.831824421729111,0.0,0.876871,0.037235,0.053639,46,1,13,6209,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4680,'46RG114',5505.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.556151794015702,-0.556151793078445,0.767944870877505,753.259810061605,0.831860980300734,0.0,0.876871,0.037235,0.053639,46,1,14,6210,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4681,'46RG115',5506.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.55451987065455,-0.554519869717293,0.767944870877505,753.42715363318,0.8318975653168,0.0,0.876871,0.037235,0.053639,46,1,15,6211,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4682,'46RG116',5507.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.553026243241189,-0.553026242303932,0.767944870877505,753.594652804353,0.831934173509599,0.0,0.876871,0.037235,0.053639,46,1,16,6212,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4683,'46RG117',5508.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.551670979406841,-0.551670978469584,0.767944870877505,753.762292930909,0.831970801637698,0.0,0.876871,0.037235,0.053639,46,1,17,6213,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4684,'46RG118',5509.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.550454134562455,-0.550454133625198,0.767944870877505,753.930059456589,0.832007446484145,0.0,0.876871,0.037235,0.053639,46,1,18,6214,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4685,'46RG119',5510.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.549375751992817,-0.54937575105556,0.767944870877505,754.097937904896,0.832044104854659,0.0,0.876871,0.037235,0.053639,46,1,19,6215,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4686,'46RG120',5511.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.548435862943447,-0.54843586200619,0.767944870877505,754.265913870832,0.832080773575801,0.0,0.876871,0.037235,0.053639,46,1,20,6216,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4687,'46RG121',5512.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.547634486700735,-0.547634485763478,0.767944870877505,754.433973012571,0.83211744949314,0.0,0.876871,0.037235,0.053639,46,1,21,6217,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4688,'46RG122',5513.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.546971630664954,-0.546971629727697,0.767944870877505,754.602101043088,0.832154129469408,0.0,0.876871,0.037235,0.053639,46,1,22,6218,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4689,'46RG123',5514.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.5464472904164,-0.546447289479143,0.767944870877505,754.770283721746,0.832190810382649,0.0,0.876871,0.037235,0.053639,46,1,23,6219,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4690,'46RG124',5515.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.546061449774397,-0.546061448837140,0.767944870877505,754.938506845848,0.832227489124355,0.0,0.876871,0.037235,0.053639,46,1,24,6220,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4691,'46RG125',5516.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.545814080849203,-0.545814079911946,0.767944870877505,755.106756242174,0.832264162597613,0.0,0.876871,0.037235,0.053639,46,1,25,6221,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4692,'46RG126',5517.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.545705144087064,-0.545705143149807,0.767944870877505,755.275017758498,0.832300827715242,0.0,0.876871,0.037235,0.053639,46,1,26,6222,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4693,'46RG127',5518.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.545734588307985,-0.545734587370728,0.767944870877505,755.443277255099,0.832337481397929,0.0,0.876871,0.037235,0.053639,46,1,27,6223,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4694,'46RG128',5519.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.545902350736595,-0.545902349799338,0.767944870877505,755.611520596286,0.832374120572375,0.0,0.876871,0.037235,0.053639,46,1,28,6224,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4695,'46RG129',5520.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.546208357026023,-0.546208356088766,0.767944870877505,755.779733641927,0.832410742169441,0.0,0.876871,0.037235,0.053639,46,1,29,6225,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4696,'46RG130',5521.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.546652521274579,-0.546665520337322,0.767944870877505,755.947902239001,0.832447343122301,0.0,0.876871,0.037235,0.053639,46,1,30,6226,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4697,'46RG131',5522.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.547234746035874,-0.547234745098617,0.767944870877505,756.116012213186,0.832483920364606,0.0,0.876871,0.037235,0.053639,46,1,31,6227,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4698,'46RG132',5523.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.547954922321407,-0.54795492138415,0.767944870877505,756.28404936048,0.832520470828658,0.0,0.876871,0.037235,0.053639,46,1,32,6228,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4699,'46RG133',5524.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.54881292959684,-0.548812928659583,0.767944870877505,756.451999438873,0.832556991443592,0.0,0.876871,0.037235,0.053639,46,1,33,6229,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4700,'46RG134',5525.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.549808635771141,-0.549808634833884,0.767944870877505,756.61984816008,0.832593479133578,0.0,0.876871,0.037235,0.053639,46,1,34,6230,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4701,'46RG135',5526.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.550941897179191,-0.550941896241934,0.767944870877505,756.787581181329,0.832629930816038,0.0,0.876871,0.037235,0.053639,46,1,35,6231,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4702,'46RG136',5527.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.552212558557341,-0.552212557620084,0.767944870877505,756.955184097235,0.832666343399876,0.0,0.876871,0.037235,0.053639,46,1,36,6232,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4703,'46RG137',5528.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.553620453012717,-0.55362045207546,0.767944870877505,757.12264243175,0.832702713783734,0.0,0.876871,0.037235,0.053639,46,1,37,6233,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4704,'46RG138',5529.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.555165401985645,-0.555165401048388,0.767944870877505,757.289941630207,0.832739038854267,0.0,0.876871,0.037235,0.053639,46,1,38,6234,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4705,'46RG139',5530.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.556847215206024,-0.556847214268767,0.767944870877505,757.457067051463,0.83277531548444,0.0,0.876871,0.037235,0.053639,46,1,39,6235,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4706,'46RG140',5531.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.558665690642881,-0.558665689705624,0.767944870877505,757.624003960153,0.832815405531851,0.0,0.876871,0.037235,0.053639,46,1,40,6236,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4707,'46RG141',5532.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.56062061444806,-0.560620613510803,0.767944870877505,757.790737519063,0.832847710837086,0.0,0.876871,0.037235,0.053639,46,1,41,6237,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4708,'46RG142',5533.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.562711760893533,-0.56271175956276,0.767944870877505,757.957252781625,0.832883823222094,0.0,0.876871,0.037235,0.053639,46,1,42,6238,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4709,'46RG143',5534.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.56493889230264,-0.564938891365383,0.767944870877505,758.123534684552,0.832919874488596,0.0,0.876871,0.037235,0.053639,46,1,43,6239,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4710,'46RG144',5535.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.567301758975572,-0.567301758038315,0.767944870877505,758.289568040617,0.832955861416532,0.0,0.876871,0.037235,0.053639,46,1,44,6240,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4711,'46RG145',5536.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.569800099109221,-0.569800098171964,0.767944870877505,758.455337531584,0.832991780762536,0.0,0.876871,0.037235,0.053639,46,1,45,6241,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4712,'46RG146',5537.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.572433638710746,-0.572433637773489,0.767944870877505,758.620827701299,0.833027629258447,0.0,0.876871,0.037235,0.053639,46,1,46,6242,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4713,'46RG147',5538.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.575202091506346,-0.575202090569089,0.767944870877505,758.786022948957,0.833063403609861,0.0,0.876871,0.037235,0.053639,46,1,47,6243,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4714,'46RG148',5539.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.578105158844108,-0.578105157906851,0.767944870877505,758.950907522541,0.83309910049472,0.0,0.876871,0.037235,0.053639,46,1,48,6244,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4715,'46RG149',5540.0,805.0,0.154981428571,1.44852617199764,1.44852617199764,0.0,1.44852617114718,-0.581142529592204,-0.581142528654947,0.767944870877505,759.115465512463,0.833134716561944,0.0,0.876871,0.037235,0.053639,46,1,49,6245,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4716,'46RG201',5549.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.584966818645293,-0.584966817688505,0.767944870877505,759.279921557077,0.833170274440464,0.0,0.876928,0.03722,0.053645,46,2,1,6253,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4717,'46RG202',5550.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.581395535556163,-0.581395534599375,0.767944870877505,759.444766464664,0.833205851464681,0.0,0.876928,0.03722,0.053645,46,2,2,6254,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4718,'46RG203',5551.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.577958722599424,-0.577958721642636,0.767944870877505,759.609983649577,0.833241498817542,0.0,0.876928,0.03722,0.053645,46,2,3,6255,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4719,'46RG204',5552.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.574656625351799,-0.574656624395011,0.767944870877505,759.775556723889,0.833277212862763,0.0,0.876928,0.03722,0.053645,46,2,4,6256,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4720,'46RG205',5553.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.571489475679186,-0.571489474722398,0.767944870877505,759.941469491411,0.833312990010752,0.0,0.876928,0.03722,0.053645,46,2,5,6257,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4721,'46RG206',5554.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.56845749191557,-0.568457490958782,0.767944870877505,760.10770594152,0.833348826717241,0.0,0.876928,0.03722,0.053645,46,2,6,6258,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4722,'46RG207',5555.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.565560879036606,-0.565560878079818,0.767944870877505,760.274250242772,0.833384719481887,0.0,0.876928,0.03722,0.053645,46,2,7,6259,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4723,'46RG208',5556.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.562799828827866,-0.562799827871078,0.767944870877505,760.441086736333,0.833420664846823,0.0,0.876928,0.03722,0.053645,46,2,8,6260,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4724,'46RG209',5557.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.560174520047279,-0.560174519090491,0.767944870877505,760.608199929225,0.83345665939518,0.0,0.876928,0.03722,0.053645,46,2,9,6261,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4725,'46RG210',5558.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.557685118582117,-0.557685117625329,0.767944870877505,760.775574487405,0.833492699749557,0.0,0.876928,0.03722,0.053645,46,2,10,6262,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4726,'46RG211',5559.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.555331777599928,-0.55533177664314,0.767944870877505,760.943195228682,0.833528782570048,0.0,0.876928,0.03722,0.053645,46,2,11,6263,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4727,'46RG212',5560.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.553114637693529,-0.553114636736741,0.767944870877505,761.111047115482,0.833564904554804,0.0,0.876928,0.03722,0.053645,46,2,12,6264,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4728,'46RG213',5561.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.55103382701996,-0.551033826063172,0.767944870877505,761.279115247469,0.833601062434105,0.0,0.876928,0.03722,0.053645,46,2,13,6265,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4729,'46RG214',5562.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.549089461433173,-0.549089460476385,0.767944870877505,761.447384854039,0.833637252973035,0.0,0.876928,0.03722,0.053645,46,2,14,6266,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4730,'46RG215',5563.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.547281644610432,-0.547281643653644,0.767944870877505,761.61584128669,0.833673472967654,0.0,0.876928,0.03722,0.053645,46,2,15,6267,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4731,'46RG216',5564.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.545610468172402,-0.545610467215614,0.767944870877505,761.784470011272,0.833709719243739,0.0,0.876928,0.03722,0.053645,46,2,16,6268,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4732,'46RG217',5565.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.544076011796644,-0.544076010839856,0.767944870877505,761.953256600146,0.83374598865507,0.0,0.876928,0.03722,0.053645,46,2,17,6269,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4733,'46RG218',5566.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.542678343324642,-0.542678342367854,0.767944870877505,762.122186724229,0.8337822780817,0.0,0.876928,0.03722,0.053645,46,2,18,6270,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4734,'46RG219',5567.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.541417518862271,-0.541417517905483,0.767944870877505,762.291246144974,0.833818584428208,0.0,0.876928,0.03722,0.053645,46,2,19,6271,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4735,'46RG220',5568.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.540293582873491,-0.540293581916703,0.767944870877505,762.460420706256,0.833854904621933,0.0,0.876928,0.03722,0.053645,46,2,20,6272,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4736,'46RG221',5569.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.539306568267431,-0.539306567310643,0.767944870877505,762.6296963262,0.833891235611198,0.0,0.876928,0.03722,0.053645,46,2,21,6273,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4737,'46RG222',5570.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.538456496478605,-0.538456495521817,0.767944870877505,762.799058988942,0.833927574363525,0.0,0.876928,0.03722,0.053645,46,2,22,6274,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4738,'46RG223',5571.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.53774337754049,-0.537743376583702,0.767944870877505,762.96849473635,0.833963917863837,0.0,0.876928,0.03722,0.053645,46,2,23,6275,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4739,'46RG224',5572.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.537167210152166,-0.537167209195378,0.767944870877505,763.137989659691,0.834000263112654,0.0,0.876928,0.03722,0.053645,46,2,24,6276,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4740,'46RG225',5573.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.536727981738135,-0.536727980781347,0.767944870877505,763.307529891272,0.834036607124285,0.0,0.876928,0.03722,0.053645,46,2,25,6277,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4741,'46RG226',5574.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.536425668501326,-0.536425667544538,0.767944870877505,763.477101596055,0.834072946925016,0.0,0.876928,0.03722,0.053645,46,2,26,6278,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4742,'46RG227',5575.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.53626023546931,-0.536260234512522,0.767944870877505,763.646690963259,0.834109279551298,0.0,0.876928,0.03722,0.053645,46,2,27,6279,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4743,'46RG228',5576.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.536231636533376,-0.536231635576588,0.767944870877505,763.816284197946,0.834145602047929,0.0,0.876928,0.03722,0.053645,46,2,28,6280,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4744,'46RG229',5577.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.536339814481163,-0.536339813524375,0.767944870877505,763.985867512619,0.834181911466249,0.0,0.876928,0.03722,0.053645,46,2,29,6281,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4745,'46RG230',5578.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.53658470102221,-0.536584700065422,0.767944870877505,764.155427118818,0.834218204862328,0.0,0.876928,0.03722,0.053645,46,2,30,6282,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4746,'46RG231',5579.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.536966216806714,-0.536966215849926,0.767944870877505,764.324949218745,0.834254479295168,0.0,0.876928,0.03722,0.053645,46,2,31,6283,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4747,'46RG232',5580.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.537484271437467,-0.537484270480679,0.767944870877505,764.494419996905,0.834290731824907,0.0,0.876928,0.03722,0.053645,46,2,32,6284,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4748,'46RG233',5581.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.538138763475256,-0.538138762518468,0.767944870877505,764.663825611791,0.834326959511038,0.0,0.876928,0.03722,0.053645,46,2,33,6285,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4749,'46RG234',5582.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.538929580437358,-0.53892957948057,0.767944870877505,764.833152187603,0.83436315941063,0.0,0.876928,0.03722,0.053645,46,2,34,6286,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4750,'46RG235',5583.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.539856598789352,-0.539856597832564,0.767944870877505,765.002385806024,0.834399328576574,0.0,0.876928,0.03722,0.053645,46,2,35,6287,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4751,'46RG236',5584.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.540919683930571,-0.540919682973783,0.767944870877505,765.171512498054,0.834435464055834,0.0,0.876928,0.03722,0.053645,46,2,36,6288,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4752,'46RG237',5585.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.542118690172696,-0.542118689215908,0.767944870877505,765.34051823591,0.834471562887716,0.0,0.876928,0.03722,0.053645,46,2,37,6289,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4753,'46RG238',5586.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.543453460712104,-0.543453459755316,0.767944870877505,765.509388925007,0.83450762210216,0.0,0.876928,0.03722,0.053645,46,2,38,6290,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4754,'46RG239',5587.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.544923827595706,-0.544923826638918,0.767944870877505,765.678110396017,0.834543638718046,0.0,0.876928,0.03722,0.053645,46,2,39,6291,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4755,'46RG240',5588.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.546529611680615,-0.546529610723827,0.767944870877505,765.846668397024,0.834579609741525,0.0,0.876928,0.03722,0.053645,46,2,40,6292,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4756,'46RG241',5589.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.548270622587278,-0.54827062163049,0.767944870877505,766.015048585785,0.834615532164371,0.0,0.876928,0.03722,0.053645,46,2,41,6293,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4757,'46RG242',5590.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.550146658646813,-0.55014665769025,0.767944870877505,766.183236522088,0.834651402962359,0.0,0.876928,0.03722,0.053645,46,2,42,6294,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4758,'46RG243',5591.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.552157506842089,-0.552157505885301,0.767944870877505,766.351217660244,0.834687219093668,0.0,0.876928,0.03722,0.053645,46,2,43,6295,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4759,'46RG244',5592.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.554302942742953,-0.554302941786165,0.767944870877505,766.51897734169,0.834722977497319,0.0,0.876928,0.03722,0.053645,46,2,44,6296,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4760,'46RG245',5593.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.556582730435405,-0.556582729478617,0.767944870877505,766.686500787737,0.83475867509163,0.0,0.876928,0.03722,0.053645,46,2,45,6297,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4761,'46RG246',5594.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.558996622445707,-0.558996621488919,0.767944870877505,766.853773092459,0.834794308772717,0.0,0.876928,0.03722,0.053645,46,2,46,6298,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4762,'46RG247',5595.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.561544359658082,-0.561544358701294,0.767944870877505,767.020779215731,0.834829875413014,0.0,0.876928,0.03722,0.053645,46,2,47,6299,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4763,'46RG248',5596.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.564225671227451,-0.564225670270663,0.767944870877505,767.187503976426,0.834865371859846,0.0,0.876928,0.03722,0.053645,46,2,48,6300,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4764,'46RG249',5597.0,805.0,0.155321020408,1.44843201832504,1.44843201832504,0.0,1.44843201747464,-0.567040274486895,-0.56704027353017,0.767944870877505,767.353932045789,0.834900794934018,0.0,0.876928,0.03722,0.053645,46,2,49,6301,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4765,'47RG101',5607.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.579690726013505,-0.579690725078008,0.811578102177363,767.519279219281,0.83493605973375,0.0,0.876986,0.037205,0.053651,47,1,1,6315,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4766,'47RG102',5608.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.57679909935209,-0.576799098416593,0.811578102177363,767.684939668987,0.834971231212998,0.0,0.876986,0.037205,0.053651,47,1,2,6316,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4767,'47RG103',5609.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.574040061654316,-0.574040060718819,0.811578102177363,767.850897786384,0.835006455865935,0.0,0.876986,0.037205,0.053651,47,1,3,6317,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4768,'47RG104',5610.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.5714137941636,-0.571413793228103,0.811578102177363,768.017138122936,0.83504173033585,0.0,0.876986,0.037205,0.053651,47,1,4,6318,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4769,'47RG105',5611.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.568920465500486,-0.568920464564989,0.811578102177363,768.183645383616,0.835077051303655,0.0,0.876986,0.037205,0.053651,47,1,5,6319,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4770,'47RG106',5612.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.566560231806392,-0.566560230870895,0.811578102177363,768.350404420271,0.835112415486452,0.0,0.876986,0.037205,0.053651,47,1,6,6320,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4771,'47RG107',5613.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.5643332368819,-0.564333235946403,0.811578102177363,768.517400224845,0.835147819636069,0.0,0.876986,0.037205,0.053651,47,1,7,6321,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4772,'47RG108',5614.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.562239612319331,-0.562239611383834,0.811578102177363,768.684617922453,0.835183260537569,0.0,0.876986,0.037205,0.053651,47,1,8,6322,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4773,'47RG109',5615.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.560279477629741,-0.560279476694244,0.811578102177363,768.852042764336,0.835218735007728,0.0,0.876986,0.037205,0.053651,47,1,9,6323,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4774,'47RG110',5616.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.558452940363978,-0.558452939428481,0.811578102177363,769.019660120684,0.835254239893493,0.0,0.876986,0.037205,0.053651,47,1,10,6324,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4775,'47RG111',5617.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.55676009622784,-0.556760095292343,0.811578102177363,769.187455473354,0.835289772070416,0.0,0.876986,0.037205,0.053651,47,1,11,6325,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4776,'47RG112',5618.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.555201029191423,-0.555201028255926,0.811578102177363,769.355414408484,0.835325328441064,0.0,0.876986,0.037205,0.053651,47,1,12,6326,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4777,'47RG113',5619.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.553775811592139,-0.553775810656642,0.811578102177363,769.523522609008,0.835360905933416,0.0,0.876986,0.037205,0.053651,47,1,13,6327,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4778,'47RG114',5620.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.552484504231813,-0.552484503296316,0.811578102177363,769.691765847091,0.835396501499236,0.0,0.876986,0.037205,0.053651,47,1,14,6328,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4779,'47RG115',5621.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.5513271564676,-0.551327155532103,0.811578102177363,769.86012997648,0.835432112112438,0.0,0.876986,0.037205,0.053651,47,1,15,6329,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4780,'47RG116',5622.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.550303806296583,-0.550303805361086,0.811578102177363,770.02860092479,0.835467734767433,0.0,0.876986,0.037205,0.053651,47,1,16,6330,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4781,'47RG117',5623.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.54941448043413,-0.549414479498633,0.811578102177363,770.197164685732,0.835503366477467,0.0,0.876986,0.037205,0.053651,47,1,17,6331,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4782,'47RG118',5624.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.548659194385948,-0.548659193450451,0.811578102177363,770.365807311279,0.835539004272948,0.0,0.876986,0.037205,0.053651,47,1,18,6332,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4783,'47RG119',5625.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.548037952513859,-0.548037951578362,0.811578102177363,770.534514903802,0.83557464519977,0.0,0.876986,0.037205,0.053651,47,1,19,6333,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4784,'47RG120',5626.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.547550748095148,-0.547550747159651,0.811578102177363,770.703273608159,0.835610286317619,0.0,0.876986,0.037205,0.053651,47,1,20,6334,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4785,'47RG121',5627.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.547197563375569,-0.547197562440072,0.811578102177363,770.872069603762,0.835645924698294,0.0,0.876986,0.037205,0.053651,47,1,21,6335,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4786,'47RG122',5628.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.546978369615857,-0.54697836868036,0.811578102177363,771.040889096626,0.835681557424008,0.0,0.876986,0.037205,0.053651,47,1,22,6336,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4787,'47RG123',5629.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.54689312713213,-0.546893126196633,0.811578102177363,771.209718311402,0.835717181585696,0.0,0.876986,0.037205,0.053651,47,1,23,6337,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4788,'47RG124',5630.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.546941785329594,-0.546941784394097,0.811578102177363,771.378543483411,0.835752794281327,0.0,0.876986,0.037205,0.053651,47,1,24,6338,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4789,'47RG125',5631.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.547124282729989,-0.547124281794492,0.811578102177363,771.547350850687,0.835788392614213,0.0,0.876986,0.037205,0.053651,47,1,25,6339,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4790,'47RG126',5632.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.547440546992874,-0.547440546057377,0.811578102177363,771.71612664602,0.835823973691328,0.0,0.876986,0.037205,0.053651,47,1,26,6340,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4791,'47RG127',5633.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.547890494930265,-0.547890493994768,0.811578102177363,771.88485708904,0.835859534621624,0.0,0.876986,0.037205,0.053651,47,1,27,6341,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4792,'47RG128',5634.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.548474032515159,-0.548474031579662,0.811578102177363,772.053528378311,0.83589507251437,0.0,0.876986,0.037205,0.053651,47,1,28,6342,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4793,'47RG129',5635.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.549191054883728,-0.549191053948231,0.811578102177363,772.222126683473,0.835930584477485,0.0,0.876986,0.037205,0.053651,47,1,29,6343,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4794,'47RG130',5636.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.550041446331363,-0.550041445395866,0.811578102177363,772.390638137431,0.835966067615893,0.0,0.876986,0.037205,0.053651,47,1,30,6344,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4795,'47RG131',5637.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.551025080302445,-0.551025079366948,0.811578102177363,772.559048828588,0.836001519029885,0.0,0.876986,0.037205,0.053651,47,1,31,6345,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4796,'47RG132',5638.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.552141819374086,-0.552141818438589,0.811578102177363,772.727344793146,0.836036935813498,0.0,0.876986,0.037205,0.053651,47,1,32,6346,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4797,'47RG133',5639.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.553391515233592,-0.553391514298095,0.811578102177363,772.895512007477,0.836072315052914,0.0,0.876986,0.037205,0.053651,47,1,33,6347,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4798,'47RG134',5640.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.554774008650412,-0.554774007714915,0.811578102177363,773.063536380567,0.836107653824863,0.0,0.876986,0.037205,0.053651,47,1,34,6348,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4799,'47RG135',5641.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.556289129441573,-0.556289128506076,0.811578102177363,773.231403746544,0.836142949195065,0.0,0.876986,0.037205,0.053651,47,1,35,6349,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4800,'47RG136',5642.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.557936696431611,-0.557936695496114,0.811578102177363,773.399099857306,0.836178198216677,0.0,0.876986,0.037205,0.053651,47,1,36,6350,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4801,'47RG137',5643.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.559716517406834,-0.559716516471337,0.811578102177363,773.566610375243,0.836213397928769,0.0,0.876986,0.037205,0.053651,47,1,37,6351,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4802,'47RG138',5644.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.561628389063429,-0.56162838812793,0.811578102177363,773.733920866068,0.836248545354826,0.0,0.876986,0.037205,0.053651,47,1,38,6352,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4803,'47RG139',5645.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.563672096950732,-0.563672096015235,0.811578102177363,773.901016791774,0.836283637501271,0.0,0.876986,0.037205,0.053651,47,1,39,6353,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4804,'47RG140',5646.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.565847415408328,-0.565847414472831,0.811578102177363,774.067883503702,0.836318671356019,0.0,0.876986,0.037205,0.053651,47,1,40,6354,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4805,'47RG141',5647.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.568154107498039,-0.568154106562542,0.811578102177363,774.234506235752,0.836353643887507,0.0,0.876986,0.037205,0.053651,47,1,41,6355,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4806,'47RG142',5648.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.570591924930966,-0.570591923995469,0.811578102177363,774.400870097734,0.836388552041059,0.0,0.876986,0.037205,0.053651,47,1,42,6356,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4807,'47RG143',5649.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.573160607988903,-0.573160607053406,0.811578102177363,774.566960068862,0.836423392742027,0.0,0.876986,0.037205,0.053651,47,1,43,6357,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4808,'47RG144',5650.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.575859885441091,-0.575859884505594,0.811578102177363,774.73276099141,0.836458162889972,0.0,0.876986,0.037205,0.053651,47,1,44,6358,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4809,'47RG145',5651.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.578689474455764,-0.578689473520267,0.811578102177363,774.898257564536,0.836492859359625,0.0,0.876986,0.037205,0.053651,47,1,45,6359,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4810,'47RG146',5652.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.581649080507503,-0.581649079572006,0.811578102177363,775.063434338268,0.836527478999189,0.0,0.876986,0.037205,0.053651,47,1,46,6360,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4811,'47RG147',5653.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.584738397279231,-0.58473839634734,0.811578102177363,775.228275707688,0.836562018629124,0.0,0.876986,0.037205,0.053651,47,1,47,6361,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4812,'47RG148',5654.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.587957106560523,-0.587957105625026,0.811578102177363,775.392765907288,0.836596475040978,0.0,0.876986,0.037205,0.053651,47,1,48,6362,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4813,'47RG149',5655.0,805.0,0.155616530612,1.44833622539669,1.44833622539669,0.0,1.44833622454634,-0.591304878141251,-0.591304877205754,0.811578102177363,775.556889005537,0.836630844996259,0.0,0.876986,0.037205,0.053651,47,1,49,6363,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4814,'47RG201',5664.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.547839899098224,-0.547839899129457,0.811578102177363,775.725917552172,0.836665678096622,0.0,0.877043,0.03719,0.053658,47,2,1,6371,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4815,'47RG202',5665.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.545630489723379,-0.545630488754613,0.811578102177363,775.895174495536,0.8367010361 05036,0.0,0.877043,0.03719,0.053658,47,2,2,6372,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4816,'47RG203',5666.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.543554023919973,-0.543554022951206,0.811578102177363,776.064645400152,0.836736428372906,0.0,0.877043,0.03719,0.053658,47,2,3,6373,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4817,'47RG204',5667.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.541610611933203,-0.541610610964437,0.811578102177363,776.234315958305,0.836771851857221,0.0,0.877043,0.03719,0.053658,47,2,4,6374,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4818,'47RG205',5668.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.539800352599512,-0.53980035163074 5,0.811578102177363,776.404171982689,0.83680730354493 4,0.0,0.877043,0.03719,0.053658,47,2,5,6375,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4819,'47RG206',5669.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.538123333460521,-0.538123332491754,0.811578102177363,776.574199398944,0.836842780451371,0.0,0.877043,0.03719,0.053658,47,2,6,6376,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4820,'47RG207',5670.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.536579630870956,-0.536579629902189,0.811578102177363,776.744384238103,0.836878279618639,0.0,0.877043,0.03719,0.053658,47,2,7,6377,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4821,'47RG208',5671.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.535169310100502,-0.535169309131735,0.811578102177363,776.914712628937,0.836913798114,0.0,0.877043,0.03719,0.053658,47,2,8,6378,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4822,'47RG209',5672.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.533892425429424,-0.533892424460657,0.811578102177363,777.085170790234,0.836949333028238,0.0,0.877043,0.03719,0.053658,47,2,9,6379,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4823,'47RG210',5673.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.532749020238087,-0.532749019269321,0.811578102177363,777.255745022986,0.836984881474012,0.0,0.877043,0.03719,0.053658,47,2,10,6380,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4824,'47RG211',5674.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.531739127090186,-0.531739126121419,0.811578102177363,777.42642170253,0.837020440584193,0.0,0.877043,0.03719,0.053658,47,2,11,6381,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4825,'47RG212',5675.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.530862767809568,-0.530086276684001,0.811578102177363,777.597187270617,0.837056007510197,0.0,0.877043,0.03719,0.053658,47,2,12,6382,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4826,'47RG213',5676.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.530119953550961,-0.530119952582194,0.811578102177363,777.768028227441,0.837091579420302,0.0,0.877043,0.03719,0.053658,47,2,13,6383,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4827,'47RG214',5677.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.529510684864166,-0.529510683895399,0.811578102177363,777.938931123622,0.837127153497965,0.0,0.877043,0.03719,0.053658,47,2,14,6384,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4828,'47RG215',5678.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.529034951751962,-0.52903495078196,0.811578102177363,778.10988255216,0.837162726940131,0.0,0.877043,0.03719,0.053658,47,2,15,6385,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4829,'47RG216',5679.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.528692733721587,-0.52869273275282,0.811578102177363,778.280869140363,0.837198296955535,0.0,0.877043,0.03719,0.053658,47,2,16,6386,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4830,'47RG217',5680.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.528483999829896,-0.52848399886113,0.811578102177363,778.451877541756,0.837233860763013,0.0,0.877043,0.03719,0.053658,47,2,17,6387,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4831,'47RG218',5681.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.528408708722027,-0.528408707753261,0.811578102177363,778.62289442798,0.837269415589799,0.0,0.877043,0.03719,0.053658,47,2,18,6388,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4832,'47RG219',5682.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.528466808663846,-0.528466807695079,0.811578102177363,778.793906480699,0.837304958669837,0.0,0.877043,0.03719,0.053658,47,2,19,6389,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4833,'47RG220',5683.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.528658237567884,-0.528658236599117,0.811578102177363,778.964900383496,0.837340487242084,0.0,0.877043,0.03719,0.053658,47,2,20,6390,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4834,'47RG221',5684.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.528982923012956,-0.52898292204419,0.811578102177363,779.135862813803,0.83737599854883,0.0,0.877043,0.03719,0.053658,47,2,21,6391,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4835,'47RG222',5685.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.529440782257398,-0.529440781288631,0.811578102177363,779.306780434835,0.837411489834013,0.0,0.877043,0.03719,0.053658,47,2,22,6392,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4836,'47RG223',5686.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.530031722246272,-0.530031721277506,0.811578102177363,779.477639887565,0.837446958341548,0.0,0.877043,0.03719,0.053658,47,2,23,6393,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4837,'47RG224',5687.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.530755639611871,-0.530755638643104,0.811578102177363,779.648427782733,0.837482401313671,0.0,0.877043,0.03719,0.053658,47,2,24,6394,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4838,'47RG225',5688.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.531612420668433,-0.531612419699666,0.811578102177363,779.819130692895,0.837517815989276,0.0,0.877043,0.03719,0.053658,47,2,25,6395,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4839,'47RG226',5689.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.532601941400331,-0.532601940431565,0.811578102177363,779.989735144534,0.83755319960229,0.0,0.877043,0.03719,0.053658,47,2,26,6396,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4840,'47RG227',5690.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.533724067444477,-0.53372406647571,0.811578102177363,780.16022761022,0.837588549380039,0.0,0.877043,0.03719,0.053658,47,2,27,6397,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4841,'47RG228',5691.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.534978654066352,-0.534978653097586,0.811578102177363,780.330594500849,0.837623862541644,0.0,0.877043,0.03719,0.053658,47,2,28,6398,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4842,'47RG229',5692.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.536365546130265,-0.536365545161498,0.811578102177363,780.500822157945,0.837659136296428,0.0,0.877043,0.03719,0.053658,47,2,29,6399,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4843,'47RG230',5693.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.537884578063471,-0.537884577094704,0.811578102177363,780.670896846058,0.837694367842347,0.0,0.877043,0.03719,0.053658,47,2,30,6400,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4844,'47RG231',5694.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.539535573814826,-0.539535572846059,0.811578102177363,780.840804745242,0.837729554364435,0.0,0.877043,0.03719,0.053658,47,2,31,6401,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4845,'47RG232',5695.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.541318346807175,-0.541318345838409,0.811578102177363,781.010531943637,0.837764693033274,0.0,0.877043,0.03719,0.053658,47,2,32,6402,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4846,'47RG233',5696.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.543232699884408,-0.543232698915642,0.811578102177363,781.180064430157,0.83779978100349,0.0,0.877043,0.03719,0.053658,47,2,33,6403,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4847,'47RG234',5697.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.54527842525282,-0.545278424284053,0.811578102177363,781.349388087287,0.837834815412269,0.0,0.877043,0.03719,0.053658,47,2,34,6404,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4848,'47RG235',5698.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.547455304416995,-0.547455303448228,0.811578102177363,781.518488684009,0.837869793377904,0.0,0.877043,0.03719,0.053658,47,2,35,6405,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4849,'47RG236',5699.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.549763108110342,-0.549763107141576,0.811578102177363,781.687351868853,0.837904711998364,0.0,0.877043,0.03719,0.053658,47,2,36,6406,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4850,'47RG237',5700.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.552201596220153,-0.552201595251386,0.811578102177363,781.855963163084,0.8379395683499,0.0,0.877043,0.03719,0.053658,47,2,37,6407,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4851,'47RG238',5701.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.554770517707838,-0.554770516739072,0.811578102177363,782.024307954036,0.837974359485676,0.0,0.877043,0.03719,0.053658,47,2,38,6408,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4852,'47RG239',5702.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.557469610523819,-0.557469609555053,0.811578102177363,782.192371488599,0.838009082434437,0.0,0.877043,0.03719,0.053658,47,2,39,6409,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4853,'47RG240',5703.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.560298601517731,-0.560298600548965,0.811578102177363,782.360138866867,0.838043734199204,0.0,0.877043,0.03719,0.053658,47,2,40,6410,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4854,'47RG241',5704.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.563257206343673,-0.56325720537490,0.811578102177363,782.527595035952,0.838078311756014,0.0,0.877043,0.03719,0.053658,47,2,41,6411,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4855,'47RG242',5705.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.566345129360928,-0.566345128392161,0.811578102177363,782.694724783979,0.838112812052688,0.0,0.877043,0.03719,0.053658,47,2,42,6412,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4856,'47RG243',5706.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.569562063530023,-0.569562062561257,0.811578102177363,782.861512734258,0.838147232007645,0.0,0.877043,0.03719,0.053658,47,2,43,6413,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4857,'47RG244',5707.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.572907690304762,-0.572907689335995,0.811578102177363,783.02794333966,0.838181568508749,0.0,0.877043,0.03719,0.053658,47,2,44,6414,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4858,'47RG245',5708.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.576381679519636,-0.57638167855087,0.811578102177363,783.194000877181,0.838215818412205,0.0,0.877043,0.03719,0.053658,47,2,45,6415,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4859,'47RG246',5709.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.579983689273534,-0.579983688304768,0.811578102177363,783.359669442725,0.838249978541491,0.0,0.877043,0.03719,0.053658,47,2,46,6416,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4860,'47RG247',5710.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.583713365809396,-0.58371336484063,0.811578102177363,783.524932946093,0.838284045686336,0.0,0.877043,0.03719,0.053658,47,2,47,6417,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4861,'47RG248',5711.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.587570343390186,-0.587570342421419,0.811578102177363,783.689775106207,0.83831801660175,0.0,0.877043,0.03719,0.053658,47,2,48,6418,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4862,'47RG249',5712.0,805.0,0.155905102041,1.44824209641459,1.44824209641459,0.0,1.4482420955643,-0.591554244171273,-0.591554243202506,0.811578102177363,783.854179446561,0.838351888007094,0.0,0.877043,0.03719,0.053658,47,2,49,6419,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4863,'48RG101',5722.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.570572081351413,-0.570572080352641,0.881391272257136,784.021230355866,0.83838597545222,0.0,0.877099,0.037176,0.053664,48,1,1,6431,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4864,'48RG102',5723.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.566893415758016,-0.566893414759244,0.881391272257136,784.18867543366,0.838420364238637,0.0,0.877099,0.037176,0.053664,48,1,2,6432,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4865,'48RG103',5724.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.563343926118102,-0.56334392511933,0.881391272257136,784.35649872884,0.838454820972553,0.0,0.877099,0.037176,0.053664,48,1,3,6433,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4866,'48RG104',5725.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.559923849061641,-0.559923848062869,0.881391272257136,784.524684490841,0.838489342323552,0.0,0.877099,0.037176,0.053664,48,1,4,6434,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4867,'48RG105',5726.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.556633408741395,-0.556633407742623,0.881391272257136,784.693217164094,0.838523925006078,0.0,0.877099,0.037176,0.053664,48,1,5,6435,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4868,'48RG106',5727.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.553472817003475,-0.553472816004703,0.881391272257136,784.862081382286,0.83858565778223,0.0,0.877099,0.037176,0.053664,48,1,6,6436,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4869,'48RG107',5728.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.550442273553274,-0.550442272554502,0.881391272257136,785.03126196243,0.838593261440488,0.0,0.877099,0.037176,0.053664,48,1,7,6437,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4870,'48RG108',5729.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.547541966116577,-0.547541965117805,0.881391272257136,785.200743898752,0.83862800883449,0.0,0.877099,0.037176,0.053664,48,1,8,6438,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4871,'48RG109',5730.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.544772070595728,-0.544772069596956,0.881391272257136,785.370512356406,0.838662804841651,0.0,0.877099,0.037176,0.053664,48,1,9,6439,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4872,'48RG110',5731.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.542132751220813,-0.542132750222041,0.881391272257136,785.540552665026,0.838697646381844,0.0,0.877099,0.037176,0.053664,48,1,10,6440,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4873,'48RG111',5732.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.539624160695454,-0.539624159696682,0.881391272257136,785.710850312122,0.838732530412007,0.0,0.877099,0.037176,0.053664,48,1,11,6441,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4874,'48RG112',5733.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.537246440337549,-0.537246439338777,0.881391272257136,785.881390936329,0.838767453924737,0.0,0.877099,0.037176,0.053664,48,1,12,6442,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4875,'48RG113',5734.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.534999720214445,-0.534999719215673,0.881391272257136,786.05216032052,0.83880241394684,0.0,0.877099,0.037176,0.053664,48,1,13,6443,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4876,'48RG114',5735.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.532884119272731,-0.532884118273959,0.881391272257136,786.223144384786,0.83883740753789,0.0,0.877099,0.037176,0.053664,48,1,14,6444,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4877,'48RG115',5736.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.530899745462322,-0.53089974446355,0.881391272257136,786.394329179299,0.838872431788697,0.0,0.877099,0.037176,0.053664,48,1,15,6445,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4878,'48RG116',5737.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.52904669585501,-0.52904669485501,0.881391272257136,786.565700877059,0.838907483819841,0.0,0.877099,0.037176,0.053664,48,1,16,6446,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4879,'48RG117',5738.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.527325056757065,-0.527325055758293,0.881391272257136,786.73724576654,0.838942560780113,0.0,0.877099,0.037176,0.053664,48,1,17,6447,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4880,'48RG118',5739.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.52573490381628,-0.525734902817508,0.881391272257136,786.908950244231,0.838977659844977,0.0,0.877099,0.037176,0.053664,48,1,18,6448,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4881,'48RG119',5740.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.524276302122943,-0.524276301124171,0.881391272257136,787.080800807101,0.839012778215,0.0,0.877099,0.037176,0.053664,48,1,19,6449,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4882,'48RG120',5741.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.522949306304903,-0.522949305306131,0.881391272257136,787.25278404497,0.839047913114271,0.0,0.877099,0.037176,0.053664,48,1,20,6450,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4883,'48RG121',5742.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.521753960616693,-0.52175395961792,0.881391272257136,787.42488663282,0.83908306178809,0.0,0.877099,0.037176,0.053664,48,1,21,6451,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4884,'48RG122',5743.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.520690299022627,-0.520690298023855,0.881391272257136,787.597095323031,0.839118221504951,0.0,0.877099,0.037176,0.053664,48,1,22,6452,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4885,'48RG123',5744.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.519758345273688,-0.519758344274916,0.881391272257136,787.769396937565,0.839153389547743,0.0,0.877099,0.037176,0.053664,48,1,23,6453,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4886,'48RG124',5745.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.518958112978589,-0.518958111979817,0.881391272257136,787.941778360097,0.83918856321931,0.0,0.877099,0.037176,0.053664,48,1,24,6454,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4887,'48RG125',5746.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.518289605668359,-0.518289604669587,0.881391272257136,788.114226528111,0.83922373983723,0.0,0.877099,0.037176,0.053664,48,1,25,6455,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4888,'48RG126',5747.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.517752816855144,-0.517752815856372,0.881391272257136,788.286728424953,0.83925891673289,0.0,0.877099,0.037176,0.053664,48,1,26,6456,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4889,'48RG127',5748.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.517347730084454,-0.517347729085682,0.881391272257136,788.45927107186,0.839294091249854,0.0,0.877099,0.037176,0.053664,48,1,27,6457,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4890,'48RG128',5749.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.517074318981679,-0.517074317982907,0.881391272257136,788.631841519976,0.839329260742216,0.0,0.877099,0.037176,0.053664,48,1,28,6458,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4891,'48RG129',5750.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.51693254729203,-0.516932546293258,0.881391272257136,788.804426842346,0.839364422572957,0.0,0.877099,0.037176,0.053664,48,1,29,6459,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4892,'48RG130',5751.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.516922368914501,-0.516922367915729,0.881391272257136,788.97701412591,0.839399574112307,0.0,0.877099,0.037176,0.053664,48,1,30,6460,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4893,'48RG131',5752.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.517043727929804,-0.517043726931032,0.881391272257136,789.149590463503,0.839434712736102,0.0,0.877099,0.037176,0.053664,48,1,31,6461,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4894,'48RG132',5753.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.517296558621831,-0.517296557623059,0.881391272257136,789.32214294586,0.839469835824151,0.0,0.877099,0.037176,0.053664,48,1,32,6462,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4895,'48RG133',5754.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.517680785493256,-0.517680784494484,0.881391272257136,789.494658653638,0.839504940758605,0.0,0.877099,0.037176,0.053664,48,1,33,6463,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4896,'48RG134',5755.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.518196323275029,-0.518196322276257,0.881391272257136,789.667124649468,0.839540024922335,0.0,0.877099,0.037176,0.053664,48,1,34,6464,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4897,'48RG135',5756.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.518843076929558,-0.51884307593078,0.881391272257136,789.839527970033,0.839575085697316,0.0,0.877099,0.037176,0.053664,48,1,35,6465,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4898,'48RG136',5757.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.519620941648207,-0.519620940649435,0.881391272257136,790.011855618189,0.839610120463023,0.0,0.877099,0.037176,0.053664,48,1,36,6466,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4899,'48RG137',5758.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.520529802842576,-0.520529801843804,0.881391272257136,790.184094555129,0.839645126594841,0.0,0.877099,0.037176,0.053664,48,1,37,6467,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4900,'48RG138',5759.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.521569536129882,-0.5215695353111,0.881391272257136,790.356231692603,0.839680101462477,0.0,0.877099,0.037176,0.053664,48,1,38,6468,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4901,'48RG139',5760.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.522740007312536,-0.522740006313764,0.881391272257136,790.528253885197,0.8397150424284,0.0,0.877099,0.037176,0.053664,48,1,39,6469,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4902,'48RG140',5761.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.524041072351758,-0.524041071352986,0.881391272257136,790.700147922683,0.839749946846285,0.0,0.877099,0.037176,0.053664,48,1,40,6470,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4903,'48RG141',5762.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.525472577335578,-0.525472576336806,0.881391272257136,790.871900522438,0.839784812059484,0.0,0.877099,0.037176,0.053664,48,1,41,6471,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4904,'48RG142',5763.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.527034358440923,-0.52703435742151,0.881391272257136,791.043498321953,0.839819635399505,0.0,0.877099,0.037176,0.053664,48,1,42,6472,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4905,'48RG143',5764.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.528726241890383,-0.528726240891611,0.881391272257136,791.214927871425,0.83985441418452,0.0,0.877099,0.037176,0.053664,48,1,43,6473,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4906,'48RG144',5765.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.530548043903246,-0.530548042904474,0.881391272257136,791.38617562645,0.839889145717887,0.0,0.877099,0.037176,0.053664,48,1,44,6474,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4907,'48RG145',5766.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.532499570640895,-0.532499569642123,0.881391272257136,791.55722794082,0.839923828272867,0.0,0.877099,0.037176,0.053664,48,1,45,6475,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4908,'48RG146',5767.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.534580618147382,-0.53458061714861,0.881391272257136,791.728071059429,0.839958456160361,0.0,0.877099,0.037176,0.053664,48,1,46,6476,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4909,'48RG147',5768.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.53679097228411,-0.536790971285338,0.881391272257136,791.8986911113,0.839993029589176,0.0,0.877099,0.037176,0.053664,48,1,47,6477,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4910,'48RG148',5769.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.539130408659582,-0.53913040766081,0.881391272257136,792.069074102738,0.840027544802977,0.0,0.877099,0.037176,0.053664,48,1,48,6478,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4911,'48RG149',5770.0,805.0,0.156298571429,1.44814963073239,1.44814963073239,0.0,1.44814962988215,-0.541598692554417,-
0.541598691555645,0.881391272257136,792.239205910618,0.840061999009779,0.0,0.877099,0.037176,0.053664,48,1,49,6479,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4912,'48RG201',5779.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.537359294628021,-
0.537359293612659,0.881391272257136,792.410019666053,0.840096485205664,0.0,0.877153,0.05367,48,2,1,6487,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4913,'48RG202',5780.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.534806545280002,-
0.53480654426464,0.881391272257136,792.581093615763,0.840131055051169,0.0,0.877153,0.037162,0.05367,48,2,2,6488,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4914,'48RG203',5781.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.532383274486524,-
0.532383273471162,0.881391272257136,792.75241358224,0.840165664398727,0.0,0.877153,0.037162,0.05367,48,2,3,6489,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4915,'48RG204',5782.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.530089612559422,-
0.53008961154406,0.881391272257136,792.923965534265,0.84020031035209,0.0,0.877153,0.037162,0.05367,48,2,4,6490,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4916,'48RG205',5783.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.527925678996123,-
0.527925677980761,0.881391272257136,793.095735580019,0.840234990047691,0.0,0.877153,0.037162,0.05367,48,2,5,6491,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4917,'48RG206',5784.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.525891582603236,-
0.525891581587874,0.881391272257136,793.267709960067,0.840269700653197,0.0,0.877153,0.037162,0.05367,48,2,6,6492,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4918,'48RG207',5785.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.523987421614699,-
0.52398742059937,0.881391272257136,793.439875040229,0.840304439366049,0.0,0.877153,0.037162,0.05367,48,2,7,6493,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4919,'48RG208',5786.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.522213283804277,-
0.522213282788915,0.881391272257136,793.612217304347,0.840339203411973,0.0,0.877153,0.037162,0.05367,48,2,8,6494,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4920,'48RG209',5787.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.520569246592522,-
0.52056924557716,0.881391272257136,793.78472334696,0.840373990043473,0.0,0.877153,0.037162,0.05367,48,2,9,6495,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4921,'48RG210',5788.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.519055377148007,-
0.519055376132645,0.881391272257136,793.957379865881,0.840408796538313,0.0,0.877153,0.037162,0.05367,48,2,10,6496,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4922,'48RG211',5789.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.517671732482675,-
0.517671731467313,0.881391272257136,794.130173654701,0.840443620197984,0.0,0.877153,0.037162,0.05367,48,2,11,6497,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4923,'48RG212',5790.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.516418359541575,-
0.516418358526213,0.881391272257136,794.303091595214,0.840478458346147,0.0,0.877153,0.037162,0.05367,48,2,12,6498,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4924,'48RG213',5791.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.515295295286599,-
0.515295294271237,0.881391272257136,794.476120649779,0.84051330832708,0.0,0.877153,0.037162,0.05367,48,2,13,6499,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4925,'48RG214',5792.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.514302566774404,-
0.514302565759042,0.881391272257136,794.64924785362,0.840548167504102,0.0,0.877153,0.037162,0.05367,48,2,14,6500,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4926,'48RG215',5793.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.513440191228376,-
0.513440190213014,0.881391272257136,794.822460307078,0.840583033257997,0.0,0.877153,0.037162,0.05367,48,2,15,6501,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4927,'48RG216',5794.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.512708176104653,-
0.512708175089291,0.881391272257136,794.995745167817,0.840617902985423,0.0,0.877153,0.037162,0.05367,48,2,16,6502,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4928,'48RG217',5795.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.512106519152148,-
0.512106518136786,0.881391272257136,795.169089642995,0.840652774097323,0.0,0.877153,0.037162,0.05367,48,2,17,6503,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4929,'48RG218',5796.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511635208466615,-
0.511635207451253,0.881391272257136,795.342480981401,0.840687644017329,0.0,0.877153,0.037162,0.05367,48,2,18,6504,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4930,'48RG219',5797.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511294222538787,-
0.511294221523425,0.881391272257136,795.515906465579,0.84072251018016,0.0,0.877153,0.037162,0.05367,48,2,19,6505,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4931,'48RG220',5798.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511083530296304,-
0.511083529280942,0.881391272257136,795.689353403926,0.840757370030022,0.0,0.877153,0.037162,0.05367,48,2,20,6506,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4932,'48RG221',5799.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511003091139891,-
0.511003090124529,0.881391272257136,795.862809122791,0.840792221019014,0.0,0.877153,0.037162,0.05367,48,2,21,6507,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4933,'48RG222',5800.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511052854973343,-
0.511052853957981,0.881391272257136,796.036260958565,0.84082706060552,0.0,0.877153,0.037162,0.05367,48,2,22,6508,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4934,'48RG223',5801.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511232762227728,-
0.511232761212366,0.881391272257136,796.209696249786,0.840861886252624,0.0,0.877153,0.037162,0.05367,48,2,23,6509,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4935,'48RG224',5802.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511542743879303,-
0.511542742863941,0.881391272257136,796.383102329251,0.840896695426512,0.0,0.877153,0.037162,0.05367,48,2,24,6510,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4936,'48RG225',5803.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.511982721461898,-
0.511982720446536,0.881391272257136,796.556466516146,0.840931485594891,0.0,0.877153,0.037162,0.05367,48,2,25,6511,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4937,'48RG226',5804.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.512552607073133,-
0.512552606057771,0.881391272257136,796.729776108212,0.840966254225414,0.0,0.877153,0.037162,0.05367,48,2,26,6512,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4938,'48RG227',5805.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.513252303374621,-
0.513252302359259,0.881391272257136,796.903018373938,0.841000998784104,0.0,0.877153,0.037162,0.05367,48,2,27,6513,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4939,'48RG228',5806.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.514081703586768,-
0.514081702571406,0.881391272257136,797.076180544793,0.841035716733805,0.0,0.877153,0.037162,0.05367,48,2,28,6514,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4940,'48RG229',5807.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.515040691477317,-
0.515040690461955,0.881391272257136,797.249249807514,0.841070405532627,0.0,0.877153,0.037162,0.05367,48,2,29,6515,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4941,'48RG230',5808.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.516129141344436,-
0.516129140329074,0.881391272257136,797.422213296444,0.841105062632419,0.0,0.877153,0.037162,0.05367,48,2,30,6516,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4942,'48RG231',5809.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.517346917993898,-
0.517346916978536,0.881391272257136,797.595058085929,0.841139685477242,0.0,0.877153,0.037162,0.05367,48,2,31,6517,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4943,'48RG232',5810.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.518693876710742,-
0.51869387569538,0.881391272257136,797.76777118279,0.841174271501871,0.0,0.877153,0.037162,0.05367,48,2,32,6518,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4944,'48RG233',5811.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.52016986322554,-
0.520169862210178,0.881391272257136,797.940339518866,0.841208818130301,0.0,0.877153,0.037162,0.05367,48,2,33,6519,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4945,'48RG234',5812.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.521774713674461,-
0.521774712659099,0.881391272257136,798.112749943642,0.841243322774284,0.0,0.877153,0.037162,0.05367,48,2,34,6520,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4946,'48RG235',5813.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.523508254554905,-
0.523508253539543,0.881391272257136,798.284989216966,0.841277782831873,0.0,0.877153,0.037162,0.05367,48,2,35,6521,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4947,'48RG236',5814.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.525370302674801,-
0.525370301659439,0.881391272257136,798.457044001862,0.841312195685997,0.0,0.877153,0.037162,0.05367,48,2,36,6522,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4948,'48RG237',5815.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.52736066509744,-
0.527360664082078,0.881391272257136,798.628900857448,0.841346558703054,0.0,0.877153,0.037162,0.05367,48,2,37,6523,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4949,'48RG238',5816.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.529479139080394,-
0.529479138065032,0.881391272257136,798.800546231963,0.841380869231523,0.0,0.877153,0.037162,0.05367,48,2,38,6524,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4950,'48RG239',5817.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.531725512010006,-
0.531725510994644,0.881391272257136,798.971966455918,0.841415124600611,0.0,0.877153,0.037162,0.05367,48,2,39,6525,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4951,'48RG240',5818.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.534099561330251,-
0.534099560314889,0.881391272257136,799.14314773536,0.841449322118917,0.0,0.877153,0.037162,0.05367,48,2,40,6526,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4952,'48RG241',5819.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.536601054467191,-
0.536601053451829,0.881391272257136,799.31407614528,0.841483459073129,0.0,0.877153,0.037162,0.05367,48,2,41,6527,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4953,'48RG242',5820.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.539229748748426,-
0.539229747733064,0.881391272257136,799.484737623156,0.841517532726745,0.0,0.877153,0.037162,0.05367,48,2,42,6528,'ccl_gap');
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INSERT INTO `rf_gap` VALUES (4954,'48RG243',5821.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.541985391317802,-0.54198539030244,0.881391272257136,799.655117962642,0.841551540318831,0.0,0.877153,0.037162,0.05367,48,2,43,6529,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4955,'48RG244',5822.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.544867719045484,-0.544867718030122,0.881391272257136,799.82520280741,0.841585479062804,0.0,0.877153,0.037162,0.05367,48,2,44,6530,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4956,'48RG245',5823.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.547876458434253,-0.547876457418891,0.881391272257136,799.994977645156,0.84161934614525,0.0,0.877153,0.037162,0.05367,48,2,45,6531,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4957,'48RG246',5824.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.55101132552025,-0.551011324504888,0.881391272257136,800.164427801773,0.841653138724778,0.0,0.877153,0.037162,0.05367,48,2,46,6532,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4958,'48RG247',5825.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.554272025770949,-0.554272024755587,0.881391272257136,800.333538435699,0.841686853930909,0.0,0.877153,0.037162,0.05367,48,2,47,6533,'ccl_gap');
INSERT INTO `rf_gap` VALUES (4960,'48RG249',5827.0,805.0,0.156561428571,1.44806047857755,1.44806047857755,0.0,1.44806047772737,-0.561169694145271,-0.561169693129909,0.881391272257136,800.670680899353,0.841754040589197,0.0,0.877153,0.037162,0.05367,48,2,49,6534,'ccl_gap');
CREATE TABLE quad_family(
  id integer primary key,
  name text,
  l_eff_cal double precision check(l_eff_cal > 0.0),-- effective magnet length
  a0_cal double precision,
  a1_cal double precision,
  a2_cal double precision,
  a3_cal double precision,
  a4_cal double precision,
  a5_cal double precision,
  unique(name, l_eff_cal, a0_cal, a1_cal, a2_cal, a3_cal, a4_cal)
);
INSERT INTO `quad_family` VALUES (1,'family-1',1.0,-7.4055,4.0189,-0.39174,0.026075,-0.00081229,9.2351e-06);
INSERT INTO `quad_family` VALUES (2,'family-2',1.0,-5.2817,3.2938,-0.30217,0.020535,-0.00065016,7.4556e-06);
INSERT INTO `quad_family` VALUES (3,'family-3',1.0,-7.7153,4.0401,-0.37471,0.023768,-0.00070506,7.6743e-06);
CREATE TABLE quad(
  id integer primary key,
  name text unique,
  view_index double precision unique,
  monitor integer not null default 0,
  gradient_model double precision default 0.0,
  length_model double precision,
  aperture_model double precision,
  family_cal  integer references quad_family(id)
          on delete restrict,
  shunt_cal double precision,
  polarity_design integer not null default 1.0,
  channel integer references epics_channel(id)
          on delete restrict,
  model_index integer unique,
  model_type text not null default 'quad'
);
INSERT INTO `quad` VALUES (1,'05QD02N1',39.3,0,22.2075136198247,0.11878,0.02216,1,0.0,1,1,569,'quad');
INSERT INTO `quad` VALUES (2,'05QD02N2',39.5,0,-22.2075136198247,0.11878,0.02216,1,0.0,-1,1,571,'quad');
INSERT INTO `quad` VALUES (3,'05QD03N1',83.3,0,19.8702586296627,0.11878,0.02216,1,0.0,1,2,614,'quad');
INSERT INTO `quad` VALUES (4,'05QD03N2',83.5,0,-19.8702586296627,0.11878,0.02216,1,0.0,-1,2,616,'quad');
INSERT INTO `quad` VALUES (5,'05QD04N1',127.3,0,19.8702586296627,0.11878,0.02216,1,0.0,1,2,661,'quad');
INSERT INTO `quad` VALUES (6,'05QD04N2',127.5,0,-19.8702586296627,0.11878,0.02216,1,0.0,-1,2,663,'quad');
INSERT INTO `quad` VALUES (7,'06QD01N1',172.1,0,18.7789827808592,0.11878,0.02216,1,0.0,1,6,706,'quad');
INSERT INTO `quad` VALUES (8,'06QD01N2',172.3,0,-18.7789827808592,0.11878,0.02216,1,0.0,-1,6,708,'quad');
INSERT INTO `quad` VALUES (9,'06QD02N1',214.3,0,18.7789827808592,0.11878,0.02216,1,0.0,1,6,753,'quad');
INSERT INTO `quad` VALUES (10,'06QD02N2',214.5,0,-18.7789827808592,0.11878,0.02216,1,0.0,-1,6,755,'quad');
INSERT INTO `quad` VALUES (11,'06QD03N1',256.1,0,20.1639925000721,0.11878,0.02216,1,0.0,1,7,796,'quad');
INSERT INTO `quad` VALUES (12,'06QD03N2',256.3,0,-20.1639925000721,0.11878,0.02216,1,0.0,-1,7,798,'quad');
INSERT INTO `quad` VALUES (13,'06QD04N1',298.3,0,20.1639925000721,0.11878,0.02216,1,0.0,1,7,841,'quad');
INSERT INTO `quad` VALUES (14,'06QD04N2',298.5,0,-20.1639925000721,0.11878,0.02216,1,0.0,-1,7,843,'quad');
INSERT INTO `quad` VALUES (15,'07QD01N1',341.7,0,21.7004070208,0.11878,0.02216,2,0.0,1,11,890,'quad');
INSERT INTO `quad` VALUES (16,'07QD01N2',341.9,0,-22.2597343968,0.11878,0.02216,1,0.0,-1,11,892,'quad');
INSERT INTO `quad` VALUES (17,'07QD02N1',383.1,0,21.7004070208,0.11878,0.02216,2,0.0,1,11,933,'quad');
INSERT INTO `quad` VALUES (18,'07QD02N2',383.3,0,-21.7004070208,0.11878,0.02216,2,0.0,-1,11,935,'quad');
INSERT INTO `quad` VALUES (19,'07QD03N1',425.3,0,22.4632843828417,0.115,0.02216,2,0.0,1,12,978,'quad');
INSERT INTO `quad` VALUES (20,'07QD03N2',425.5,0,-22.4632843828417,0.115,0.02216,2,0.0,-1,12,980,'quad');
INSERT INTO `quad` VALUES (21,'07QD04N1',467.1,0,22.4632843828417,0.115,0.02216,2,0.0,1,12,1021,'quad');
INSERT INTO `quad` VALUES (22,'07QD04N2',467.3,0,-22.4632843828417,0.115,0.02216,2,0.0,-1,12,1023,'quad');
INSERT INTO `quad` VALUES (23,'08QD01N1',510.7,0,23.5741771168073,0.115,0.02216,2,0.0,1,16,1070,'quad');
INSERT INTO `quad` VALUES (24,'08QD01N2',510.9,0,-23.5741771168073,0.115,0.02216,2,0.0,-1,16,1072,'quad');
INSERT INTO `quad` VALUES (25,'08QD02N1',552.1,0,23.5741771168073,0.115,0.02216,2,0.0,1,16,1113,'quad');
INSERT INTO `quad` VALUES (26,'08QD02N2',552.3,0,-23.5741771168073,0.115,0.02216,2,0.0,-1,16,1115,'quad');
INSERT INTO `quad` VALUES (27,'08QD03N1',594.3,0,22.8033519379959,0.115,0.02216,2,0.0,1,17,1156,'quad');
INSERT INTO `quad` VALUES (28,'08QD03N2',594.5,0,-22.8033519379959,0.115,0.02216,2,0.0,-1,17,1158,'quad');
INSERT INTO `quad` VALUES (29,'08QD04N1',636.1,0,22.8033519379959,0.115,0.02216,2,0.0,1,17,1197,'quad');
INSERT INTO `quad` VALUES (30,'08QD04N2',636.3,0,-22.8033519379959,0.115,0.02216,2,0.0,-1,17,1199,'quad');
INSERT INTO `quad` VALUES (31,'09QD01N1',679.7,0,26.1864402295166,0.115,0.02216,2,0.0,1,21,1244,'quad');
INSERT INTO `quad` VALUES (32,'09QD01N2',679.9,0,-26.1864402295166,0.115,0.02216,2,0.0,-1,21,1246,'quad');
INSERT INTO `quad` VALUES (33,'09QD02N1',721.1,0,26.1864402295166,0.115,0.02216,2,0.0,1,21,1287,'quad');
INSERT INTO `quad` VALUES (34,'09QD02N2',721.3,0,-26.1864402295166,0.115,0.02216,2,0.0,-1,21,1289,'quad');
INSERT INTO `quad` VALUES (35,'09QD03N1',763.3,0,23.2007728353637,0.115,0.02216,2,0.0,1,22,1330,'quad');
INSERT INTO `quad` VALUES (36,'09QD03N2',763.5,0,-23.2007728353637,0.115,0.02216,2,0.0,-1,22,1332,'quad');
INSERT INTO `quad` VALUES (37,'09QD04N1',805.1,0,23.2007728353637,0.115,0.02216,2,0.0,1,22,1371,'quad');
INSERT INTO `quad` VALUES (38,'09QD04N2',805.3,0,-23.2007728353637,0.115,0.02216,2,0.0,-1,22,1373,'quad');
INSERT INTO `quad` VALUES (39,'10QD01N1',848.7,0,27.2333148080983,0.1024,0.02216,2,0.0,1,26,1418,'quad');
INSERT INTO `quad` VALUES (40,'10QD01N2',848.9,0,-27.2333148080983,0.1024,0.02216,2,0.0,-1,26,1420,'quad');
INSERT INTO `quad` VALUES (41,'10QD02N1',888.1,0,27.2333148080983,0.1024,0.02216,2,0.0,1,26,1459,'quad');
INSERT INTO `quad` VALUES (42,'10QD02N2',888.3,0,-27.2333148080983,0.1024,0.02216,2,0.0,-1,26,1461,'quad');
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INSERT INTO `quad` VALUES (43,'10QD03N1',928.3,0,27.7216851929185,0.1024,0.02216,2,0.0,1,27,1500,'quad');
INSERT INTO `quad` VALUES (44,'10QD03N2',928.5,0,-27.7216851929185,0.1024,0.02216,2,0.0,-1,27,1502,'quad');
INSERT INTO `quad` VALUES (45,'10QD04N1',968.1,0,27.7216851929185,0.1024,0.02216,2,0.0,1,27,1539,'quad');
INSERT INTO `quad` VALUES (46,'10QD04N2',968.3,0,-27.7216851929185,0.1024,0.02216,2,0.0,-1,27,1541,'quad');
INSERT INTO `quad` VALUES (47,'11QD01N1',1009.7,0,27.8537258719434,0.1024,0.02216,2,0.0,1,31,1584,'quad');
INSERT INTO `quad` VALUES (48,'11QD01N2',1009.9,0,-27.8537258719434,0.1024,0.02216,2,0.0,-1,31,1586,'quad');
INSERT INTO `quad` VALUES (49,'11QD02N1',1049.1,0,27.8537258719434,0.1024,0.02216,2,0.0,1,31,1625,'quad');
INSERT INTO `quad` VALUES (50,'11QD02N2',1049.3,0,-27.8537258719434,0.1024,0.02216,2,0.0,-1,31,1627,'quad');
INSERT INTO `quad` VALUES (51,'11QD03N1',1089.1,0,26.0272066000485,0.1024,0.02216,2,0.0,1,32,1664,'quad');
INSERT INTO `quad` VALUES (52,'11QD03N2',1089.3,0,-26.0272066000485,0.1024,0.02216,2,0.0,-1,32,1666,'quad');
INSERT INTO `quad` VALUES (53,'11QD04N1',1129.1,0,26.0272066000485,0.1024,0.02216,2,0.0,1,32,1703,'quad');
INSERT INTO `quad` VALUES (54,'11QD04N2',1129.3,0,-26.0272066000485,0.1024,0.02216,2,0.0,-1,32,1705,'quad');
INSERT INTO `quad` VALUES (55,'12QD01N1',1170.7,0,27.4577568952163,0.1024,0.02216,2,0.0,1,36,1748,'quad');
INSERT INTO `quad` VALUES (56,'12QD01N2',1170.9,0,-27.4577568952163,0.1024,0.02216,2,0.0,-1,36,1750,'quad');
INSERT INTO `quad` VALUES (57,'12QD02N1',1210.1,0,27.4577568952163,0.1024,0.02216,2,0.0,1,36,1789,'quad');
INSERT INTO `quad` VALUES (58,'12QD02N2',1210.3,0,-27.4577568952163,0.1024,0.02216,2,0.0,-1,36,1791,'quad');
INSERT INTO `quad` VALUES (59,'12QD03N1',1250.1,0,27.4777370031051,0.1024,0.02216,2,0.0,1,37,1828,'quad');
INSERT INTO `quad` VALUES (60,'12QD03N2',1250.3,0,-27.4777370031051,0.1024,0.02216,2,0.0,-1,37,1830,'quad');
INSERT INTO `quad` VALUES (61,'12QD04N1',1290.1,0,23.7881171925189,0.1024,0.02216,2,0.0,1,38,1867,'quad');
INSERT INTO `quad` VALUES (62,'12QD04N2',1290.3,0,-23.7881171925189,0.1024,0.02216,2,0.0,-1,38,1869,'quad');
INSERT INTO `quad` VALUES (63,'13QD01N1',1331.7,0,27.6059191119901,0.1024,0.02216,2,0.0,1,42,1912,'quad');
INSERT INTO `quad` VALUES (64,'13QD01N2',1331.9,0,-27.6059191119901,0.1024,0.02216,2,0.0,-1,42,1914,'quad');
INSERT INTO `quad` VALUES (65,'13QD02N1',1400.1,0,27.4577568952163,0.1024,0.02216,2,0.0,1,43,1982,'quad');
INSERT INTO `quad` VALUES (66,'13QD02N2',1400.3,0,-27.4577568952163,0.1024,0.02216,2,0.0,-1,43,1984,'quad');
INSERT INTO `quad` VALUES (67,'14QD01N1',1470.5,0,27.8630354515438,0.1024,0.02216,2,0.0,1,47,2054,'quad');
INSERT INTO `quad` VALUES (68,'14QD01N2',1470.7,0,-27.8630354515438,0.1024,0.02216,2,0.0,-1,47,2056,'quad');
INSERT INTO `quad` VALUES (69,'14QD02N1',1537.1,0,27.8630354515438,0.1024,0.02216,2,0.0,1,47,2122,'quad');
INSERT INTO `quad` VALUES (70,'14QD02N2',1537.3,0,-27.8630354515438,0.1024,0.02216,2,0.0,-1,47,2124,'quad');
INSERT INTO `quad` VALUES (71,'15QD01N1',1605.7,0,27.9277557432307,0.1024,0.02216,2,0.0,1,51,2194,'quad');
INSERT INTO `quad` VALUES (72,'15QD01N2',1605.9,0,-27.9277557432307,0.1024,0.02216,2,0.0,-1,51,2196,'quad');
INSERT INTO `quad` VALUES (73,'15QD02N1',1672.1,0,27.9277557432307,0.1024,0.02216,2,0.0,1,51,2262,'quad');
INSERT INTO `quad` VALUES (74,'15QD02N2',1672.3,0,-27.9277557432307,0.1024,0.02216,2,0.0,-1,51,2264,'quad');
INSERT INTO `quad` VALUES (75,'16QD01N1',1740.5,0,30.0264057968847,0.1024,0.02216,3,0.0,1,55,2332,'quad');
INSERT INTO `quad` VALUES (76,'16QD01N2',1740.7,0,-30.0264057968847,0.1024,0.02216,3,0.0,-1,55,2334,'quad');
INSERT INTO `quad` VALUES (77,'16QD02N1',1807.1,0,30.0264057968847,0.1024,0.02216,3,0.0,1,55,2400,'quad');
INSERT INTO `quad` VALUES (78,'16QD02N2',1807.3,0,-30.0264057968847,0.1024,0.02216,3,0.0,-1,55,2402,'quad');
INSERT INTO `quad` VALUES (79,'17QD01N1',1875.7,0,29.966975511162,0.1024,0.02216,3,0.0,1,59,2472,'quad');
INSERT INTO `quad` VALUES (80,'17QD01N2',1875.9,0,-29.966975511162,0.1024,0.02216,3,0.0,-1,59,2474,'quad');
INSERT INTO `quad` VALUES (81,'17QD02N1',1942.1,0,29.966975511162,0.1024,0.02216,3,0.0,1,59,2540,'quad');
INSERT INTO `quad` VALUES (82,'17QD02N2',1942.3,0,-29.966975511162,0.1024,0.02216,3,0.0,-1,59,2542,'quad');
INSERT INTO `quad` VALUES (83,'18QD01N1',2010.5,0,30.0264057968847,0.1024,0.02216,3,0.0,1,63,2610,'quad');
INSERT INTO `quad` VALUES (84,'18QD01N2',2010.7,0,-30.0264057968847,0.1024,0.02216,3,0.0,-1,63,2612,'quad');
INSERT INTO `quad` VALUES (85,'18QD02N1',2077.1,0,30.0264057968847,0.1024,0.02216,3,0.0,1,63,2678,'quad');
INSERT INTO `quad` VALUES (86,'18QD02N2',2077.3,0,-30.0264057968847,0.1024,0.02216,3,0.0,-1,63,2680,'quad');
INSERT INTO `quad` VALUES (87,'19QD01N1',2145.7,0,30.2369470379011,0.1024,0.02216,3,0.0,1,67,2750,'quad');
INSERT INTO `quad` VALUES (88,'19QD01N2',2145.9,0,-30.2369470379011,0.1024,0.02216,3,0.0,-1,67,2752,'quad');
INSERT INTO `quad` VALUES (89,'19QD02N1',2210.1,0,30.2369470379011,0.1024,0.02216,3,0.0,1,67,2816,'quad');
INSERT INTO `quad` VALUES (90,'19QD02N2',2210.3,0,-30.2369470379011,0.1024,0.02216,3,0.0,-1,67,2818,'quad');
INSERT INTO `quad` VALUES (91,'20QD01N1',2276.5,0,29.978894878984,0.1024,0.02216,3,0.0,1,71,2884,'quad');
INSERT INTO `quad` VALUES (92,'20QD01N2',2276.7,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,71,2886,'quad');
INSERT INTO `quad` VALUES (93,'20QD02N1',2341.1,0,29.978894878984,0.1024,0.02216,3,0.0,1,71,2950,'quad');
INSERT INTO `quad` VALUES (94,'20QD02N2',2341.3,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,71,2952,'quad');
INSERT INTO `quad` VALUES (95,'21QD01N1',2407.7,0,29.978894878984,0.1024,0.02216,3,0.0,1,75,3020,'quad');
INSERT INTO `quad` VALUES (96,'21QD01N2',2407.9,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,75,3022,'quad');
INSERT INTO `quad` VALUES (97,'21QD02N1',2472.1,0,29.978894878984,0.1024,0.02216,3,0.0,1,75,3086,'quad');
INSERT INTO `quad` VALUES (98,'21QD02N2',2472.3,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,75,3088,'quad');
INSERT INTO `quad` VALUES (99,'22QD01N1',2538.3,0,30.2600159460596,0.1024,0.02216,3,0.0,1,79,3152,'quad');
INSERT INTO `quad` VALUES (100,'22QD01N2',2538.5,0,-30.2600159460596,0.1024,0.02216,3,0.0,-1,79,3154,'quad');
INSERT INTO `quad` VALUES (101,'22QD02N1',2603.1,0,30.2600159460596,0.1024,0.02216,3,0.0,1,79,3218,'quad');
INSERT INTO `quad` VALUES (102,'22QD02N2',2603.3,0,-30.2600159460596,0.1024,0.02216,3,0.0,-1,79,3220,'quad');
INSERT INTO `quad` VALUES (103,'23QD01N1',2669.5,0,30.0618648068423,0.1024,0.02216,3,0.0,1,83,3286,'quad');
INSERT INTO `quad` VALUES (104,'23QD01N2',2669.7,0,-30.0618648068423,0.1024,0.02216,3,0.0,-1,83,3288,'quad');
INSERT INTO `quad` VALUES (105,'23QD02N1',2734.1,0,30.0618648068423,0.1024,0.02216,3,0.0,1,83,3352,'quad');
INSERT INTO `quad` VALUES (106,'23QD02N2',2734.3,0,-30.0618648068423,0.1024,0.02216,3,0.0,-1,83,3354,'quad');
INSERT INTO `quad` VALUES (107,'24QD01N1',2800.5,0,29.978894878984,0.1024,0.02216,3,0.0,1,87,3420,'quad');
INSERT INTO `quad` VALUES (108,'24QD01N2',2800.7,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,87,3422,'quad');
INSERT INTO `quad` VALUES (109,'24QD02N1',2863.1,0,29.978894878984,0.1024,0.02216,3,0.0,1,87,3484,'quad');
INSERT INTO `quad` VALUES (110,'24QD02N2',2863.3,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,87,3486,'quad');
INSERT INTO `quad` VALUES (111,'25QD01N1',2927.7,0,30.0382420127007,0.1024,0.02216,3,0.0,1,91,3552,'quad');
INSERT INTO `quad` VALUES (112,'25QD01N2',2927.9,0,-30.0382420127007,0.1024,0.02216,3,0.0,-1,91,3554,'quad');
INSERT INTO `quad` VALUES (113,'25QD02N1',2990.1,0,30.0382420127007,0.1024,0.02216,3,0.0,1,91,3616,'quad');
INSERT INTO `quad` VALUES (114,'25QD02N2',2990.3,0,-30.0382420127007,0.1024,0.02216,3,0.0,-1,91,3618,'quad');
INSERT INTO `quad` VALUES (115,'26QD01N1',3054.5,0,30.0145530008517,0.1024,0.02216,3,0.0,1,95,3682,'quad');
INSERT INTO `quad` VALUES (116,'26QD01N2',3054.7,0,-30.0145530008517,0.1024,0.02216,3,0.0,-1,95,3684,'quad');
INSERT INTO `quad` VALUES (117,'26QD02N1',3117.1,0,30.0145530008517,0.1024,0.02216,3,0.0,1,95,3746,'quad');
INSERT INTO `quad` VALUES (118,'26QD02N2',3117.3,0,-30.0145530008517,0.1024,0.02216,3,0.0,-1,95,3748,'quad');
INSERT INTO `quad` VALUES (119,'27QD01N1',3181.7,0,29.9550394392063,0.1024,0.02216,3,0.0,1,99,3814,'quad');
INSERT INTO `quad` VALUES (120,'27QD01N2',3181.9,0,-29.9550394392063,0.1024,0.02216,3,0.0,-1,99,3816,'quad');
INSERT INTO `quad` VALUES (121,'27QD02N1',3244.1,0,29.9550394392063,0.1024,0.02216,3,0.0,1,99,3878,'quad');
INSERT INTO `quad` VALUES (122,'27QD02N2',3244.3,0,-29.9550394392063,0.1024,0.02216,3,0.0,-1,99,3880,'quad');
INSERT INTO `quad` VALUES (123,'28QD01N1',3308.5,0,30.442284672392,0.1024,0.02216,3,0.0,1,103,3944,'quad');
INSERT INTO `quad` VALUES (124,'28QD01N2',3308.7,0,-30.442284672392,0.1024,0.02216,3,0.0,-1,103,3946,'quad');
INSERT INTO `quad` VALUES (125,'28QD02N1',3371.1,0,30.442284672392,0.1024,0.02216,3,0.0,1,103,4008,'quad');
INSERT INTO `quad` VALUES (126,'28QD02N2',3371.3,0,-30.442284672392,0.1024,0.02216,3,0.0,-1,103,4010,'quad');
INSERT INTO `quad` VALUES (127,'29QD01N1',3435.7,0,30.0736514375265,0.1024,0.02216,3,0.0,1,107,4076,'quad');
INSERT INTO `quad` VALUES (128,'29QD01N2',3435.9,0,-30.0736514375265,0.1024,0.02216,3,0.0,-1,107,4078,'quad');
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INSERT INTO `quad` VALUES (129,'29QD02N1',3498.1,0,30.0736514375265,0.1024,0.02216,3,0.0,1,107,4140,'quad');
INSERT INTO `quad` VALUES (130,'29QD02N2',3498.3,0,-30.0736514375265,0.1024,0.02216,3,0.0,-1,107,4142,'quad');
INSERT INTO `quad` VALUES (131,'30QD01N1',3562.5,0,30.0500616740122,0.1024,0.02216,3,0.0,1,111,4206,'quad');
INSERT INTO `quad` VALUES (132,'30QD01N2',3562.7,0,-30.0500616740122,0.1024,0.02216,3,0.0,-1,111,4208,'quad');
INSERT INTO `quad` VALUES (133,'30QD02N1',3623.1,0,30.0500616740122,0.1024,0.02216,3,0.0,1,111,4268,'quad');
INSERT INTO `quad` VALUES (134,'30QD02N2',3623.3,0,-30.0500616740122,0.1024,0.02216,3,0.0,-1,111,4270,'quad');
INSERT INTO `quad` VALUES (135,'31QD01N1',3685.7,0,30.0105983799488,0.1024,0.02216,3,0.0,1,115,4334,'quad');
INSERT INTO `quad` VALUES (136,'31QD01N2',3685.9,0,-30.0105983799488,0.1024,0.02216,3,0.0,-1,115,4336,'quad');
INSERT INTO `quad` VALUES (137,'31QD02N1',3746.1,0,30.0105983799488,0.1024,0.02216,3,0.0,1,115,4396,'quad');
INSERT INTO `quad` VALUES (138,'31QD02N2',3746.3,0,-30.0105983799488,0.1024,0.02216,3,0.0,-1,115,4398,'quad');
INSERT INTO `quad` VALUES (139,'32QD01N1',3808.5,0,30.0137622243067,0.1024,0.02216,3,0.0,1,119,4460,'quad');
INSERT INTO `quad` VALUES (140,'32QD01N2',3808.7,0,-30.0137622243067,0.1024,0.02216,3,0.0,-1,119,4462,'quad');
INSERT INTO `quad` VALUES (141,'32QD02N1',3869.1,0,30.0137622243067,0.1024,0.02216,3,0.0,1,119,4522,'quad');
INSERT INTO `quad` VALUES (142,'32QD02N2',3869.3,0,-30.0137622243067,0.1024,0.02216,3,0.0,-1,119,4524,'quad');
INSERT INTO `quad` VALUES (143,'33QD01N1',3931.7,0,30.0113894517799,0.1024,0.02216,3,0.0,1,123,4588,'quad');
INSERT INTO `quad` VALUES (144,'33QD01N2',3931.9,0,-30.0113894517799,0.1024,0.02216,3,0.0,-1,123,4590,'quad');
INSERT INTO `quad` VALUES (145,'33QD02N1',3992.1,0,30.0113894517799,0.1024,0.02216,3,0.0,1,123,4650,'quad');
INSERT INTO `quad` VALUES (146,'33QD02N2',3992.3,0,-30.0113894517799,0.1024,0.02216,3,0.0,-1,123,4652,'quad');
INSERT INTO `quad` VALUES (147,'34QD01N1',4054.5,0,30.0500616740122,0.1024,0.02216,3,0.0,1,127,4714,'quad');
INSERT INTO `quad` VALUES (148,'34QD01N2',4054.7,0,-30.0500616740122,0.1024,0.02216,3,0.0,-1,127,4716,'quad');
INSERT INTO `quad` VALUES (149,'34QD02N1',4115.1,0,30.0500616740122,0.1024,0.02216,3,0.0,1,127,4776,'quad');
INSERT INTO `quad` VALUES (150,'34QD02N2',4115.3,0,-30.0500616740122,0.1024,0.02216,3,0.0,-1,127,4778,'quad');
INSERT INTO `quad` VALUES (151,'35QD01N1',4177.7,0,29.9971388552127,0.1024,0.02216,3,0.0,1,131,4842,'quad');
INSERT INTO `quad` VALUES (152,'35QD01N2',4177.9,0,-29.9971388552127,0.1024,0.02216,3,0.0,-1,131,4844,'quad');
INSERT INTO `quad` VALUES (153,'35QD02N1',4238.1,0,29.9971388552127,0.1024,0.02216,3,0.0,1,131,4904,'quad');
INSERT INTO `quad` VALUES (154,'35QD02N2',4238.3,0,-29.9971388552127,0.1024,0.02216,3,0.0,-1,131,4906,'quad');
INSERT INTO `quad` VALUES (155,'36QD01N1',4300.5,0,30.0026835992004,0.1024,0.02216,3,0.0,1,135,4968,'quad');
INSERT INTO `quad` VALUES (156,'36QD01N2',4300.7,0,-30.0026835992004,0.1024,0.02216,3,0.0,-1,135,4970,'quad');
INSERT INTO `quad` VALUES (157,'36QD02N1',4359.1,0,30.0026835992004,0.1024,0.02216,3,0.0,1,135,5028,'quad');
INSERT INTO `quad` VALUES (158,'36QD02N2',4359.3,0,-30.0026835992004,0.1024,0.02216,3,0.0,-1,135,5030,'quad');
INSERT INTO `quad` VALUES (159,'37QD01N1',4419.7,0,29.9995156177131,0.1024,0.02216,3,0.0,1,139,5092,'quad');
INSERT INTO `quad` VALUES (160,'37QD01N2',4419.9,0,-29.9995156177131,0.1024,0.02216,3,0.0,-1,139,5094,'quad');
INSERT INTO `quad` VALUES (161,'37QD02N1',4478.1,0,29.9995156177131,0.1024,0.02216,3,0.0,1,139,5152,'quad');
INSERT INTO `quad` VALUES (162,'37QD02N2',4478.3,0,-29.9995156177131,0.1024,0.02216,3,0.0,-1,139,5154,'quad');
INSERT INTO `quad` VALUES (163,'38QD01N1',4538.3,0,30.0003077239824,0.1024,0.02216,3,0.0,1,143,5212,'quad');
INSERT INTO `quad` VALUES (164,'38QD01N2',4538.5,0,-30.0003077239824,0.1024,0.02216,3,0.0,-1,143,5214,'quad');
INSERT INTO `quad` VALUES (165,'38QD02N1',4597.1,0,30.0003077239824,0.1024,0.02216,3,0.0,1,143,5272,'quad');
INSERT INTO `quad` VALUES (166,'38QD02N2',4597.3,0,-30.0003077239824,0.1024,0.02216,3,0.0,-1,143,5274,'quad');
INSERT INTO `quad` VALUES (167,'39QD01N1',4657.7,0,30.0003077239824,0.1024,0.02216,3,0.0,1,147,5336,'quad');
INSERT INTO `quad` VALUES (168,'39QD01N2',4657.9,0,-30.0003077239824,0.1024,0.02216,3,0.0,-1,147,5338,'quad');
INSERT INTO `quad` VALUES (169,'39QD02N1',4716.1,0,30.0003077239824,0.1024,0.02216,3,0.0,1,147,5396,'quad');
INSERT INTO `quad` VALUES (170,'39QD02N2',4716.3,0,-30.0003077239824,0.1024,0.02216,3,0.0,-1,147,5398,'quad');
INSERT INTO `quad` VALUES (171,'40QD01N1',4776.5,0,30.0058503980576,0.1024,0.02216,3,0.0,1,151,5458,'quad');
INSERT INTO `quad` VALUES (172,'40QD01N2',4776.7,0,-30.0058503980576,0.1024,0.02216,3,0.0,-1,151,5460,'quad');
INSERT INTO `quad` VALUES (173,'40QD02N1',4835.1,0,30.0058503980576,0.1024,0.02216,3,0.0,1,151,5518,'quad');
INSERT INTO `quad` VALUES (174,'40QD02N2',4835.3,0,-30.0058503980576,0.1024,0.02216,3,0.0,-1,151,5520,'quad');
INSERT INTO `quad` VALUES (175,'41QD01N1',4895.7,0,29.978894878984,0.1024,0.02216,3,0.0,1,155,5582,'quad');
INSERT INTO `quad` VALUES (176,'41QD01N2',4895.9,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,155,5584,'quad');
INSERT INTO `quad` VALUES (177,'41QD02N1',4954.1,0,29.978894878984,0.1024,0.02216,3,0.0,1,155,5642,'quad');
INSERT INTO `quad` VALUES (178,'41QD02N2',4954.3,0,-29.978894878984,0.1024,0.02216,3,0.0,-1,155,5644,'quad');
INSERT INTO `quad` VALUES (179,'42QD01N1',5014.5,0,30.078361475158,0.1024,0.02216,3,0.0,1,159,5704,'quad');
INSERT INTO `quad` VALUES (180,'42QD01N2',5014.7,0,-30.078361475158,0.1024,0.02216,3,0.0,-1,159,5706,'quad');
INSERT INTO `quad` VALUES (181,'42QD02N1',5073.1,0,30.078361475158,0.1024,0.02216,3,0.0,1,159,5764,'quad');
INSERT INTO `quad` VALUES (182,'42QD02N2',5073.3,0,-30.078361475158,0.1024,0.02216,3,0.0,-1,159,5766,'quad');
INSERT INTO `quad` VALUES (183,'43QD01N1',5133.7,0,29.967770655102,0.1024,0.02216,3,0.0,1,163,5828,'quad');
INSERT INTO `quad` VALUES (184,'43QD01N2',5133.9,0,-29.967770655102,0.1024,0.02216,3,0.0,-1,163,5830,'quad');
INSERT INTO `quad` VALUES (185,'43QD02N1',5192.1,0,29.967770655102,0.1024,0.02216,3,0.0,1,163,5888,'quad');
INSERT INTO `quad` VALUES (186,'43QD02N2',5192.3,0,-29.967770655102,0.1024,0.02216,3,0.0,-1,163,5890,'quad');
INSERT INTO `quad` VALUES (187,'44QD01N1',5252.5,0,30.2523334363524,0.1024,0.02216,3,0.0,1,167,5950,'quad');
INSERT INTO `quad` VALUES (188,'44QD01N2',5252.7,0,-30.2523334363524,0.1024,0.02216,3,0.0,-1,167,5952,'quad');
INSERT INTO `quad` VALUES (189,'44QD02N1',5311.1,0,30.2523334363524,0.1024,0.02216,3,0.0,1,167,6010,'quad');
INSERT INTO `quad` VALUES (190,'44QD02N2',5311.3,0,-30.2523334363524,0.1024,0.02216,3,0.0,-1,167,6012,'quad');
INSERT INTO `quad` VALUES (191,'45QD01N1',5371.5,0,29.9335123393043,0.1024,0.02216,3,0.0,1,171,6072,'quad');
INSERT INTO `quad` VALUES (192,'45QD01N2',5371.7,0,-29.9335123393043,0.1024,0.02216,3,0.0,-1,171,6074,'quad');
INSERT INTO `quad` VALUES (193,'45QD02N1',5428.1,0,29.9335123393043,0.1024,0.02216,3,0.0,1,171,6130,'quad');
INSERT INTO `quad` VALUES (194,'45QD02N2',5428.3,0,-29.9335123393043,0.1024,0.02216,3,0.0,-1,171,6132,'quad');
INSERT INTO `quad` VALUES (195,'46QD01N1',5486.5,0,30.0121804497784,0.1024,0.02216,3,0.0,1,175,6190,'quad');
INSERT INTO `quad` VALUES (196,'46QD01N2',5486.7,0,-30.0121804497784,0.1024,0.02216,3,0.0,-1,175,6192,'quad');
INSERT INTO `quad` VALUES (197,'46QD02N1',5543.1,0,30.0121804497784,0.1024,0.02216,3,0.0,1,175,6248,'quad');
INSERT INTO `quad` VALUES (198,'46QD02N2',5543.3,0,-30.0121804497784,0.1024,0.02216,3,0.0,-1,175,6250,'quad');
INSERT INTO `quad` VALUES (199,'47QD01N1',5601.5,0,29.9907975668387,0.1024,0.02216,3,0.0,1,179,6308,'quad');
INSERT INTO `quad` VALUES (200,'47QD01N2',5601.7,0,-29.9907975668387,0.1024,0.02216,3,0.0,-1,179,6310,'quad');
INSERT INTO `quad` VALUES (201,'47QD02N1',5658.1,0,29.9907975668387,0.1024,0.02216,3,0.0,1,179,6366,'quad');
INSERT INTO `quad` VALUES (202,'47QD02N2',5658.3,0,-29.9907975668387,0.1024,0.02216,3,0.0,-1,179,6368,'quad');
INSERT INTO `quad` VALUES (203,'48QD01N1',5716.3,0,30.0026835992004,0.1024,0.02216,3,0.0,1,183,6424,'quad');
INSERT INTO `quad` VALUES (204,'48QD01N2',5716.5,0,-30.0026835992004,0.1024,0.02216,3,0.0,-1,183,6426,'quad');
INSERT INTO `quad` VALUES (205,'48QD02N1',5773.1,0,30.0026835992004,0.1024,0.02216,3,0.0,1,183,6482,'quad');
INSERT INTO `quad` VALUES (206,'48QD02N2',5773.3,0,-30.0026835992004,0.1024,0.02216,3,0.0,-1,183,6484,'quad');
CREATE TABLE epics_channel(
    id integer primary key,
    lcs_name text unique,
    value_type text,  -- current or voltage_tmp
    value double precision default 0.0,
    value_txt text default 'NA',
    update_time date --default datetime('now')
);
```

V1.0

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INSERT INTO `epics_channel` VALUES (0,'MRPH001D01','rf_ph_master',76.0,'NA','2017-01-27 11:04:37');
INSERT INTO `epics_channel` VALUES (1,'05QD002I01','AMP',17.955,'NA','2014-12-04 12:40:54');
INSERT INTO `epics_channel` VALUES (2,'05QD003I01','AMP',16.005,'NA','2014-12-04 12:40:54');
INSERT INTO `epics_channel` VALUES (3,'05KS001E02','rf_amp',100.0,'NA','2015-03-18 10:07:05');
INSERT INTO `epics_channel` VALUES (4,'05KS001E01','rf_ph',-36.0,'NA','2017-01-27 11:45:41');
INSERT INTO `epics_channel` VALUES (5,'05TM001L01','delay',0.0,'NO','2015-03-18 10:05:28');
INSERT INTO `epics_channel` VALUES (6,'06QD001I01','AMP',15.12,'NA','2014-12-04 12:40:54');
INSERT INTO `epics_channel` VALUES (7,'06QD003I01','AMP',16.245,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (8,'06KS001E02','rf_amp',100.0,'NA','2015-03-18 09:29:53');
INSERT INTO `epics_channel` VALUES (9,'06KS001E01','rf_ph',-35.5,'NA','2015-03-18 09:21:35');
INSERT INTO `epics_channel` VALUES (10,'06TM001L01','delay',0.0,'NO','2015-03-18 10:06:00');
INSERT INTO `epics_channel` VALUES (11,'07QD001I01','AMP',18.0,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (12,'07QD003I01','AMP',18.69,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (13,'07KS001E02','rf_amp',100.0,'NA','2015-03-18 16:11:57');
INSERT INTO `epics_channel` VALUES (14,'07KS001E01','rf_ph',-35.0,'NA','2015-03-18 15:46:02');
INSERT INTO `epics_channel` VALUES (15,'07TM001L01','delay',0.0,'NO','2015-03-18 15:45:31');
INSERT INTO `epics_channel` VALUES (16,'08QD001I01','AMP',19.74,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (17,'08QD003I01','AMP',19.005,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (18,'08KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:39');
INSERT INTO `epics_channel` VALUES (19,'08KS001E01','rf_ph',-34.5,'NA','2015-03-18 09:35:47');
INSERT INTO `epics_channel` VALUES (20,'08TM001L01','delay',0.0,'NO','2015-03-18 15:46:02');
INSERT INTO `epics_channel` VALUES (21,'09QD001I01','AMP',22.575,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (22,'09QD003I01','AMP',19.38,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (23,'09KS001E02','rf_amp',100.0,'NA','2015-03-18 09:45:56');
INSERT INTO `epics_channel` VALUES (24,'09KS001E01','rf_ph',-34.0,'NA','2015-03-18 09:46:21');
INSERT INTO `epics_channel` VALUES (25,'09TM001L01','delay',0.0,'NO','2015-03-18 09:46:06');
INSERT INTO `epics_channel` VALUES (26,'10QD001I01','AMP',23.97,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (27,'10QD003I01','AMP',24.705,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (28,'10KS001E02','rf_amp',100.0,'NA','2015-03-18 08:15:27');
INSERT INTO `epics_channel` VALUES (29,'10KS001E01','rf_ph',-33.5,'NA','2015-03-18 09:49:57');
INSERT INTO `epics_channel` VALUES (30,'10TM001L01','delay',0.0,'NO','2015-03-18 09:49:42');
INSERT INTO `epics_channel` VALUES (31,'11QD001I01','AMP',24.915,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (32,'11QD003I01','AMP',22.38,'NA','2014-12-04 12:40:55');
INSERT INTO `epics_channel` VALUES (33,'11KS001E02','rf_amp',100.0,'NA','2015-03-18 09:56:13');
INSERT INTO `epics_channel` VALUES (34,'11KS001E01','rf_ph',-33.0,'NA','2015-03-18 09:56:52');
INSERT INTO `epics_channel` VALUES (35,'11TM001L01','delay',0.0,'NO','2015-03-18 09:56:22');
INSERT INTO `epics_channel` VALUES (36,'12QD001I01','AMP',24.3,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (37,'12QD003I01','AMP',24.33,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (38,'12QD004I01','AMP',19.95,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (39,'12KS001E02','rf_amp',100.0,'NA','2015-03-18 08:30:18');
INSERT INTO `epics_channel` VALUES (40,'12KS001E01','rf_ph',-32.5,'NA','2015-03-18 09:59:37');
INSERT INTO `epics_channel` VALUES (41,'12TM001L01','delay',0.0,'NO','2015-03-18 09:59:08');
INSERT INTO `epics_channel` VALUES (42,'13QD001I01','AMP',24.525,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (43,'13QD002I01','AMP',24.3,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (44,'13KS001E02','rf_amp',100.0,'NA','2015-03-18 08:56:03');
INSERT INTO `epics_channel` VALUES (45,'13KS001E01','rf_ph',-32.0,'NA','2015-03-18 08:46:15');
INSERT INTO `epics_channel` VALUES (46,'13TM001L01','delay',0.0,'NO','2015-03-18 09:59:37');
INSERT INTO `epics_channel` VALUES (47,'14QD001I01','AMP',24.93,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (48,'14KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:53');
INSERT INTO `epics_channel` VALUES (49,'14KS001E01','rf_ph',-31.5,'NA','2015-02-19 15:36:52');
INSERT INTO `epics_channel` VALUES (50,'14TM001L01','delay',0.0,'NO','2015-03-18 08:46:15');
INSERT INTO `epics_channel` VALUES (51,'15QD001I01','AMP',25.035,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (52,'15KS001E02','rf_amp',100.0,'NA','2016-01-20 15:36:15');
INSERT INTO `epics_channel` VALUES (53,'15KS001E01','rf_ph',-31.0,'NA','2015-02-19 15:40:50');
INSERT INTO `epics_channel` VALUES (54,'15TM001L01','delay',0.0,'NO','2015-02-23 14:03:12');
INSERT INTO `epics_channel` VALUES (55,'16QD001I01','AMP',25.035,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (56,'16KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:55');
INSERT INTO `epics_channel` VALUES (57,'16KS001E01','rf_ph',-30.5,'NA','2015-02-19 15:44:15');
INSERT INTO `epics_channel` VALUES (58,'16TM001L01','delay',0.0,'NO','2015-02-23 14:03:12');
INSERT INTO `epics_channel` VALUES (59,'17QD001I01','AMP',24.96,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (60,'17KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:56');
INSERT INTO `epics_channel` VALUES (61,'17KS001E01','rf_ph',-30.0,'NA','2015-02-19 15:47:44');
INSERT INTO `epics_channel` VALUES (62,'17TM001L01','delay',0.0,'NO','2015-02-23 14:03:12');
INSERT INTO `epics_channel` VALUES (63,'18QD001I01','AMP',25.035,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (64,'18KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:58');
INSERT INTO `epics_channel` VALUES (65,'18KS001E01','rf_ph',-30.0,'NA','2015-02-19 15:50:53');
INSERT INTO `epics_channel` VALUES (66,'18TM001L01','delay',0.0,'NO','2015-02-23 14:03:12');
INSERT INTO `epics_channel` VALUES (67,'19QD001I01','AMP',25.305,'NA','2014-12-04 12:40:56');
INSERT INTO `epics_channel` VALUES (68,'19KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:58');
INSERT INTO `epics_channel` VALUES (69,'19KS001E01','rf_ph',-30.0,'NA','2015-02-19 15:54:04');
INSERT INTO `epics_channel` VALUES (70,'19TM001L01','delay',0.0,'NO','2015-02-23 14:03:12');
INSERT INTO `epics_channel` VALUES (71,'20QD001I01','AMP',24.975,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (72,'20KS001E02','rf_amp',100.0,'NA','2014-11-24 09:24:59');
INSERT INTO `epics_channel` VALUES (73,'20KS001E01','rf_ph',-30.0,'NA','2015-02-19 15:56:44');
INSERT INTO `epics_channel` VALUES (74,'20TM001L01','delay',0.0,'NO','2015-02-23 14:03:12');
INSERT INTO `epics_channel` VALUES (75,'21QD001I01','AMP',24.975,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (76,'21KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:00');
INSERT INTO `epics_channel` VALUES (77,'21KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:01:49');
INSERT INTO `epics_channel` VALUES (78,'21TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (79,'22QD001I01','AMP',25.335,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (80,'22KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:01');
INSERT INTO `epics_channel` VALUES (81,'22KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:07:31');
INSERT INTO `epics_channel` VALUES (82,'22TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (83,'23QD001I01','AMP',25.08,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (84,'23KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:02');
INSERT INTO `epics_channel` VALUES (85,'23KS001E01','rf_ph',-30.0,'NA','2014-11-24 09:26:05');
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INSERT INTO `epics_channel` VALUES (86,'23TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (87,'24QD001I01','AMP',24.975,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (88,'24KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:03');
INSERT INTO `epics_channel` VALUES (89,'24KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:10:17');
INSERT INTO `epics_channel` VALUES (90,'24TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (91,'25QD001I01','AMP',25.05,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (92,'25KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:04');
INSERT INTO `epics_channel` VALUES (93,'25KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:13:28');
INSERT INTO `epics_channel` VALUES (94,'25TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (95,'26QD001I01','AMP',25.02,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (96,'26KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:06');
INSERT INTO `epics_channel` VALUES (97,'26KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:20:15');
INSERT INTO `epics_channel` VALUES (98,'26TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (99,'27QD001I01','AMP',24.945,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (100,'27KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:07');
INSERT INTO `epics_channel` VALUES (101,'27KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:23:42');
INSERT INTO `epics_channel` VALUES (102,'27TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (103,'28QD001I01','AMP',25.575,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (104,'28KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:07');
INSERT INTO `epics_channel` VALUES (105,'28KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:26:38');
INSERT INTO `epics_channel` VALUES (106,'28TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (107,'29QD001I01','AMP',25.095,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (108,'29KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:08');
INSERT INTO `epics_channel` VALUES (109,'29KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:29:33');
INSERT INTO `epics_channel` VALUES (110,'29TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (111,'30QD001I01','AMP',25.065,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (112,'30KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:09');
INSERT INTO `epics_channel` VALUES (113,'30KS001E01','rf_ph',-30.0,'NA','2015-02-19 16:34:03');
INSERT INTO `epics_channel` VALUES (114,'30TM001L01','delay',0.0,'NO','2015-02-23 14:03:13');
INSERT INTO `epics_channel` VALUES (115,'31QD001I01','AMP',25.015,'NA','2014-12-04 12:40:57');
INSERT INTO `epics_channel` VALUES (116,'31KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:10');
INSERT INTO `epics_channel` VALUES (117,'31KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:01:06');
INSERT INTO `epics_channel` VALUES (118,'31TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (119,'32QD001I01','AMP',25.019,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (120,'32KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:11');
INSERT INTO `epics_channel` VALUES (121,'32KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:04:05');
INSERT INTO `epics_channel` VALUES (122,'32TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (123,'33QD001I01','AMP',25.016,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (124,'33KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:11');
INSERT INTO `epics_channel` VALUES (125,'33KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:05:59');
INSERT INTO `epics_channel` VALUES (126,'33TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (127,'34QD001I01','AMP',25.065,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (128,'34KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:12');
INSERT INTO `epics_channel` VALUES (129,'34KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:08:43');
INSERT INTO `epics_channel` VALUES (130,'34TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (131,'35QD001I01','AMP',24.998,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (132,'35KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:13');
INSERT INTO `epics_channel` VALUES (133,'35KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:10:20');
INSERT INTO `epics_channel` VALUES (134,'35TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (135,'36QD001I01','AMP',25.005,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (136,'36KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:14');
INSERT INTO `epics_channel` VALUES (137,'36KS001E01','rf_ph',-30.0,'NA','2015-02-20 09:37:49');
INSERT INTO `epics_channel` VALUES (138,'36TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (139,'37QD001I01','AMP',25.001,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (140,'37KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:15');
INSERT INTO `epics_channel` VALUES (141,'37KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:14:06');
INSERT INTO `epics_channel` VALUES (142,'37TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (143,'38QD001I01','AMP',25.002,'NA','2014-12-04 12:40:58');
INSERT INTO `epics_channel` VALUES (144,'38KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:15');
INSERT INTO `epics_channel` VALUES (145,'38KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:15:28');
INSERT INTO `epics_channel` VALUES (146,'38TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (147,'39QD001I01','AMP',25.002,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (148,'39KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:16');
INSERT INTO `epics_channel` VALUES (149,'39KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:16:41');
INSERT INTO `epics_channel` VALUES (150,'39TM001L01','delay',0.0,'NO','2015-03-02 16:54:24');
INSERT INTO `epics_channel` VALUES (151,'40QD001I01','AMP',25.009,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (152,'40KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:17');
INSERT INTO `epics_channel` VALUES (153,'40KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:19:14');
INSERT INTO `epics_channel` VALUES (154,'40TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (155,'41QD001I01','AMP',24.975,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (156,'41KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:18');
INSERT INTO `epics_channel` VALUES (157,'41KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:20:32');
INSERT INTO `epics_channel` VALUES (158,'41TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (159,'42QD001I01','AMP',25.101,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (160,'42KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:19');
INSERT INTO `epics_channel` VALUES (161,'42KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:22:05');
INSERT INTO `epics_channel` VALUES (162,'42TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (163,'43QD001I01','AMP',24.961,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (164,'43KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:19');
INSERT INTO `epics_channel` VALUES (165,'43KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:23:41');
INSERT INTO `epics_channel` VALUES (166,'43TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (167,'44QD001I01','AMP',25.325,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (168,'44KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:20');
INSERT INTO `epics_channel` VALUES (169,'44KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:25:01');
INSERT INTO `epics_channel` VALUES (170,'44TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (171,'45QD001I01','AMP',24.918,'NA','2014-12-04 12:40:59');
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INSERT INTO `epics_channel` VALUES (172,'45KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:21');
INSERT INTO `epics_channel` VALUES (173,'45KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:26:35');
INSERT INTO `epics_channel` VALUES (174,'45TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (175,'46QD001I01','AMP',25.017,'NA','2014-12-04 12:40:59');
INSERT INTO `epics_channel` VALUES (176,'46KS001E02','rf_amp',100.0,'NA','2014-11-24 09:25:22');
INSERT INTO `epics_channel` VALUES (177,'46KS001E01','rf_ph',-30.0,'NA','2015-02-19 17:27:45');
INSERT INTO `epics_channel` VALUES (178,'46TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (179,'47QD001I01','AMP',24.99,'NA','2014-12-04 12:41:00');
INSERT INTO `epics_channel` VALUES (180,'47KS001E02','rf_amp',100.0,'NA','2016-01-20 15:33:22');
INSERT INTO `epics_channel` VALUES (181,'47KS001E01','rf_ph',-30.0,'NA','2016-01-20 15:27:24');
INSERT INTO `epics_channel` VALUES (182,'47TM001L01','delay',0.0,'NO','2015-03-02 16:54:25');
INSERT INTO `epics_channel` VALUES (183,'48QD001I01','AMP',25.005,'NA','2014-12-04 12:41:00');
INSERT INTO `epics_channel` VALUES (184,'48KS001E02','rf_amp',100.0,'NA','2015-03-18 16:44:12');
INSERT INTO `epics_channel` VALUES (185,'48KS001E01','rf_ph',-30.0,'NA','2016-01-20 15:20:38');
INSERT INTO `epics_channel` VALUES (186,'48TM001L01','delay',0.0,'NO','2015-03-18 09:04:44');
CREATE TABLE drift(
  id integer primary key,
  name text unique,
  view_index double precision unique,
  length_model double precision,
  aperture_model double precision,
  model_index integer unique,
  model_type text not null default 'drift'
);
INSERT INTO `drift` VALUES (1,'05DR02N1',39.0,0.1223,0.02216,566,'drift');
INSERT INTO `drift` VALUES (2,'05DR02N2',39.2,0.15277,0.02216,568,'drift');
INSERT INTO `drift` VALUES (3,'05DR02N3',39.4,0.08122,0.02216,570,'drift');
INSERT INTO `drift` VALUES (4,'05DR02N4',39.6,0.12568316,0.02216,572,'drift');
INSERT INTO `drift` VALUES (5,'05DR03N1',83.0,0.10809198,0.02216,611,'drift');
INSERT INTO `drift` VALUES (6,'05DR03N2',83.2,0.10741922,0.02216,613,'drift');
INSERT INTO `drift` VALUES (7,'05DR03N3',83.4,0.08122,0.02216,615,'drift');
INSERT INTO `drift` VALUES (8,'05DR03N4',83.6,0.13764522,0.02216,617,'drift');
INSERT INTO `drift` VALUES (9,'05DR03N5',83.8,0.06245358,0.02216,619,'drift');
INSERT INTO `drift` VALUES (10,'05DR04N1',127.0,0.0794327,0.02216,658,'drift');
INSERT INTO `drift` VALUES (11,'05DR04N2',127.2,0.11373366,0.02216,660,'drift');
INSERT INTO `drift` VALUES (12,'05DR04N3',127.4,0.08122,0.02216,662,'drift');
INSERT INTO `drift` VALUES (13,'05DR04N4',127.6,0.16903454,0.02216,664,'drift');
INSERT INTO `drift` VALUES (14,'05DR04N5',127.8,0.0648691,0.02216,666,'drift');
INSERT INTO `drift` VALUES (15,'06DR01N1',172.0,0.12723538,0.02216,705,'drift');
INSERT INTO `drift` VALUES (16,'06DR01N2',172.2,0.08122,0.02216,707,'drift');
INSERT INTO `drift` VALUES (17,'06DR01N3',172.4,0.06242462,0.02216,709,'drift');
INSERT INTO `drift` VALUES (18,'06DR01N4',172.6,0.01579,0.02216,711,'drift');
INSERT INTO `drift` VALUES (19,'06DR01N5',172.8,0.10437,0.02216,713,'drift');
INSERT INTO `drift` VALUES (20,'06DR02N1',214.0,0.11014838,0.02216,750,'drift');
INSERT INTO `drift` VALUES (21,'06DR02N2',214.2,0.1103961,0.02216,752,'drift');
INSERT INTO `drift` VALUES (22,'06DR02N3',214.4,0.08122,0.02216,754,'drift');
INSERT INTO `drift` VALUES (23,'06DR02N4',214.6,0.16188444,0.02216,756,'drift');
INSERT INTO `drift` VALUES (24,'06DR02N5',214.8,0.06262108,0.02216,758,'drift');
INSERT INTO `drift` VALUES (25,'06DR03N1',256.0,0.22711166,0.02216,795,'drift');
INSERT INTO `drift` VALUES (26,'06DR03N2',256.2,0.08122,0.02216,797,'drift');
INSERT INTO `drift` VALUES (27,'06DR03N3',256.4,0.16005,0.02216,799,'drift');
INSERT INTO `drift` VALUES (28,'06DR03N4',256.6,0.06642,0.02216,801,'drift');
INSERT INTO `drift` VALUES (29,'06DR04N1',298.0,0.109474,0.02216,838,'drift');
INSERT INTO `drift` VALUES (30,'06DR04N2',298.2,0.12362188,0.02216,840,'drift');
INSERT INTO `drift` VALUES (31,'06DR04N3',298.4,0.08122,0.02216,842,'drift');
INSERT INTO `drift` VALUES (32,'06DR04N4',298.6,0.16913106,0.02216,844,'drift');
INSERT INTO `drift` VALUES (33,'06DR04N5',298.8,0.06294306,0.02216,846,'drift');
INSERT INTO `drift` VALUES (34,'07DR01N1',341.0,0.1847766,0.02216,883,'drift');
INSERT INTO `drift` VALUES (35,'07DR01N2',341.2,0.0513234,0.02216,885,'drift');
INSERT INTO `drift` VALUES (36,'07DR01N3',341.4,0.03853418,0.02216,887,'drift');
INSERT INTO `drift` VALUES (37,'07DR01N4',341.6,0.17066268,0.02216,889,'drift');
INSERT INTO `drift` VALUES (38,'07DR01N5',341.8,0.08122,0.02216,891,'drift');
INSERT INTO `drift` VALUES (39,'07DR01N6',342.0,0.1330529,0.02216,893,'drift');
INSERT INTO `drift` VALUES (40,'07DR01N7',342.2,0.24562024,0.02216,895,'drift');
INSERT INTO `drift` VALUES (41,'07DR02N1',383.0,0.25795776,0.02216,932,'drift');
INSERT INTO `drift` VALUES (42,'07DR02N2',383.2,0.08122,0.02216,934,'drift');
INSERT INTO `drift` VALUES (43,'07DR02N3',383.4,0.16212066,0.02216,936,'drift');
INSERT INTO `drift` VALUES (44,'07DR02N4',383.6,0.06147158,0.02216,938,'drift');
INSERT INTO `drift` VALUES (45,'07DR03N1',425.0,0.0907815,0.02216,975,'drift');
INSERT INTO `drift` VALUES (46,'07DR03N2',425.2,0.17105154,0.02216,977,'drift');
INSERT INTO `drift` VALUES (47,'07DR03N3',425.4,0.085,0.02216,979,'drift');
INSERT INTO `drift` VALUES (48,'07DR03N4',425.6,0.16636524,0.02216,981,'drift');
INSERT INTO `drift` VALUES (49,'07DR03N5',425.8,0.06493172,0.02216,983,'drift');
INSERT INTO `drift` VALUES (50,'07DR04N1',467.0,0.2756957,0.02216,1020,'drift');
INSERT INTO `drift` VALUES (51,'07DR04N2',467.2,0.085,0.02216,1022,'drift');
INSERT INTO `drift` VALUES (52,'07DR04N3',467.4,0.16411734,0.02216,1024,'drift');
INSERT INTO `drift` VALUES (53,'07DR04N4',467.6,0.06187696,0.02216,1026,'drift');
INSERT INTO `drift` VALUES (54,'08DR01N1',510.0,0.0722426,0.02216,1063,'drift');
INSERT INTO `drift` VALUES (55,'08DR01N2',510.2,0.0527574,0.02216,1065,'drift');
INSERT INTO `drift` VALUES (56,'08DR01N3',510.4,0.03865466,0.02216,1067,'drift');
INSERT INTO `drift` VALUES (57,'08DR01N4',510.6,0.18492502,0.02216,1069,'drift');
INSERT INTO `drift` VALUES (58,'08DR01N5',510.8,0.085,0.02216,1071,'drift');
INSERT INTO `drift` VALUES (59,'08DR01N6',511.0,0.1465634,0.02216,1073,'drift');
INSERT INTO `drift` VALUES (60,'08DR01N7',511.2,0.19338692,0.02216,1075,'drift');
INSERT INTO `drift` VALUES (61,'08DR02N1',552.0,0.18647442,0.02216,1112,'drift');
INSERT INTO `drift` VALUES (62,'08DR02N2',552.2,0.085,0.02216,1114,'drift');
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INSERT INTO `drift` VALUES (63,'08DR02N3',552.4,0.14993558,0.02216,1116,'drift');
INSERT INTO `drift` VALUES (64,'08DR03N1',594.0,0.08529728,0.02216,1153,'drift');
INSERT INTO `drift` VALUES (65,'08DR03N2',594.2,0.1382703,0.02216,1155,'drift');
INSERT INTO `drift` VALUES (66,'08DR03N3',594.4,0.085,0.02216,1157,'drift');
INSERT INTO `drift` VALUES (67,'08DR03N4',594.6,0.11832242,0.02216,1159,'drift');
INSERT INTO `drift` VALUES (68,'08DR04N1',636.0,0.18432576,0.02216,1196,'drift');
INSERT INTO `drift` VALUES (69,'08DR04N2',636.2,0.085,0.02216,1198,'drift');
INSERT INTO `drift` VALUES (70,'08DR04N3',636.4,0.16277424,0.02216,1200,'drift');
INSERT INTO `drift` VALUES (71,'09DR01N1',679.0,0.07532234,0.02216,1237,'drift');
INSERT INTO `drift` VALUES (72,'09DR01N2',679.2,0.04967766,0.02216,1239,'drift');
INSERT INTO `drift` VALUES (73,'09DR01N3',679.4,0.0397659,0.02216,1241,'drift');
INSERT INTO `drift` VALUES (74,'09DR01N4',679.6,0.22186424,0.02216,1243,'drift');
INSERT INTO `drift` VALUES (75,'09DR01N5',679.8,0.085,0.02216,1245,'drift');
INSERT INTO `drift` VALUES (76,'09DR01N6',680.0,0.16100838,0.02216,1247,'drift');
INSERT INTO `drift` VALUES (77,'09DR01N7',680.2,0.18922148,0.02216,1249,'drift');
INSERT INTO `drift` VALUES (78,'09DR02N1',721.0,0.18568118,0.02216,1286,'drift');
INSERT INTO `drift` VALUES (79,'09DR02N2',721.2,0.085,0.02216,1288,'drift');
INSERT INTO `drift` VALUES (80,'09DR02N3',721.4,0.17261882,0.02216,1290,'drift');
INSERT INTO `drift` VALUES (81,'09DR03N1',763.0,0.08902028,0.02216,1327,'drift');
INSERT INTO `drift` VALUES (82,'09DR03N2',763.2,0.12520962,0.02216,1329,'drift');
INSERT INTO `drift` VALUES (83,'09DR03N3',763.4,0.085,0.02216,1331,'drift');
INSERT INTO `drift` VALUES (84,'09DR03N4',763.6,0.1497601,0.02216,1333,'drift');
INSERT INTO `drift` VALUES (85,'09DR04N1',805.0,0.20732456,0.02216,1370,'drift');
INSERT INTO `drift` VALUES (86,'09DR04N2',805.2,0.085,0.02216,1372,'drift');
INSERT INTO `drift` VALUES (87,'09DR04N3',805.4,0.16195544,0.02216,1374,'drift');
INSERT INTO `drift` VALUES (88,'10DR01N1',848.0,0.07599054,0.02216,1411,'drift');
INSERT INTO `drift` VALUES (89,'10DR01N2',848.2,0.04900946,0.02216,1413,'drift');
INSERT INTO `drift` VALUES (90,'10DR01N3',848.4,0.04193524,0.02216,1415,'drift');
INSERT INTO `drift` VALUES (91,'10DR01N4',848.6,0.2345625,0.02216,1417,'drift');
INSERT INTO `drift` VALUES (92,'10DR01N5',848.8,0.0976,0.02216,1419,'drift');
INSERT INTO `drift` VALUES (93,'10DR01N6',849.0,0.17920574,0.02216,1421,'drift');
INSERT INTO `drift` VALUES (94,'10DR01N7',849.2,0.19499652,0.02216,1423,'drift');
INSERT INTO `drift` VALUES (95,'10DR02N1',888.0,0.1948956,0.02216,1458,'drift');
INSERT INTO `drift` VALUES (96,'10DR02N2',888.2,0.0976,0.02216,1460,'drift');
INSERT INTO `drift` VALUES (97,'10DR02N3',888.4,0.1995044,0.02216,1462,'drift');
INSERT INTO `drift` VALUES (98,'10DR03N1',928.0,0.08605916,0.02216,1497,'drift');
INSERT INTO `drift` VALUES (99,'10DR03N2',928.2,0.14872066,0.02216,1499,'drift');
INSERT INTO `drift` VALUES (100,'10DR03N3',928.4,0.0976,0.02216,1501,'drift');
INSERT INTO `drift` VALUES (101,'10DR03N4',928.6,0.16693018,0.02216,1503,'drift');
INSERT INTO `drift` VALUES (102,'10DR04N1',968.0,0.22656038,0.02216,1538,'drift');
INSERT INTO `drift` VALUES (103,'10DR04N2',968.2,0.0976,0.02216,1540,'drift');
INSERT INTO `drift` VALUES (104,'10DR04N3',968.4,0.17916962,0.02216,1542,'drift');
INSERT INTO `drift` VALUES (105,'11DR01N1',1009.0,0.0776082,0.02216,1577,'drift');
INSERT INTO `drift` VALUES (106,'11DR01N2',1009.2,0.0473918,0.02216,1579,'drift');
INSERT INTO `drift` VALUES (107,'11DR01N3',1009.4,0.04180538,0.02216,1581,'drift');
INSERT INTO `drift` VALUES (108,'11DR01N4',1009.6,0.2666173,0.02216,1583,'drift');
INSERT INTO `drift` VALUES (109,'11DR01N5',1009.8,0.0976,0.02216,1585,'drift');
INSERT INTO `drift` VALUES (110,'11DR01N6',1010.0,0.19657426,0.02216,1587,'drift');
INSERT INTO `drift` VALUES (111,'11DR01N7',1010.2,0.19000306,0.02216,1589,'drift');
INSERT INTO `drift` VALUES (112,'11DR02N1',1049.0,0.21149406,0.02216,1624,'drift');
INSERT INTO `drift` VALUES (113,'11DR02N2',1049.2,0.0976,0.02216,1626,'drift');
INSERT INTO `drift` VALUES (114,'11DR02N3',1049.4,0.20467594,0.02216,1628,'drift');
INSERT INTO `drift` VALUES (115,'11DR03N1',1089.0,0.2448721,0.02216,1663,'drift');
INSERT INTO `drift` VALUES (116,'11DR03N2',1089.2,0.0976,0.02216,1665,'drift');
INSERT INTO `drift` VALUES (117,'11DR03N3',1089.4,0.1761979,0.02216,1667,'drift');
INSERT INTO `drift` VALUES (118,'11DR04N1',1129.0,0.2393386,0.02216,1702,'drift');
INSERT INTO `drift` VALUES (119,'11DR04N2',1129.2,0.0976,0.02216,1704,'drift');
INSERT INTO `drift` VALUES (120,'11DR04N3',1129.4,0.1872414,0.02216,1706,'drift');
INSERT INTO `drift` VALUES (121,'12DR01N1',1170.0,0.0788403,0.02216,1741,'drift');
INSERT INTO `drift` VALUES (122,'12DR01N2',1170.2,0.0461597,0.02216,1743,'drift');
INSERT INTO `drift` VALUES (123,'12DR01N3',1170.4,0.0460981,0.02216,1745,'drift');
INSERT INTO `drift` VALUES (124,'12DR01N4',1170.6,0.3013696,0.02216,1747,'drift');
INSERT INTO `drift` VALUES (125,'12DR01N5',1170.8,0.0976,0.02216,1749,'drift');
INSERT INTO `drift` VALUES (126,'12DR01N6',1171.0,0.1941511,0.02216,1751,'drift');
INSERT INTO `drift` VALUES (127,'12DR01N7',1171.2,0.1843412,0.02216,1753,'drift');
INSERT INTO `drift` VALUES (128,'12DR02N1',1210.0,0.2216471,0.02216,1788,'drift');
INSERT INTO `drift` VALUES (129,'12DR02N2',1210.2,0.0976,0.02216,1790,'drift');
INSERT INTO `drift` VALUES (130,'12DR02N3',1210.4,0.2131629,0.02216,1792,'drift');
INSERT INTO `drift` VALUES (131,'12DR03N1',1250.0,0.2251738,0.02216,1827,'drift');
INSERT INTO `drift` VALUES (132,'12DR03N2',1250.2,0.0976,0.02216,1829,'drift');
INSERT INTO `drift` VALUES (133,'12DR03N3',1250.4,0.2189062,0.02216,1831,'drift');
INSERT INTO `drift` VALUES (134,'12DR04N1',1290.0,0.2332831,0.02216,1866,'drift');
INSERT INTO `drift` VALUES (135,'12DR04N2',1290.2,0.0976,0.02216,1868,'drift');
INSERT INTO `drift` VALUES (136,'12DR04N3',1290.4,0.2145569,0.02216,1870,'drift');
INSERT INTO `drift` VALUES (137,'13DR01N1',1331.0,0.0832786,0.02216,1905,'drift');
INSERT INTO `drift` VALUES (138,'13DR01N2',1331.2,0.0417214,0.02216,1907,'drift');
INSERT INTO `drift` VALUES (139,'13DR01N3',1331.4,0.0454438,0.02216,1909,'drift');
INSERT INTO `drift` VALUES (140,'13DR01N4',1331.6,0.3198303,0.02216,1911,'drift');
INSERT INTO `drift` VALUES (141,'13DR01N5',1331.8,0.0976,0.02216,1913,'drift');
INSERT INTO `drift` VALUES (142,'13DR01N6',1332.0,0.1978417,0.02216,1915,'drift');
INSERT INTO `drift` VALUES (143,'13DR01N7',1332.2,0.1799142,0.02216,1917,'drift');
INSERT INTO `drift` VALUES (144,'13DR02N1',1400.0,0.2545704,0.02216,1981,'drift');
INSERT INTO `drift` VALUES (145,'13DR02N2',1400.2,0.0976,0.02216,1983,'drift');
INSERT INTO `drift` VALUES (146,'13DR02N3',1400.4,0.1924296,0.02216,1985,'drift');
INSERT INTO `drift` VALUES (147,'14DR01N1',1470.0,0.0953558,0.02216,2049,'drift');
INSERT INTO `drift` VALUES (148,'14DR01N2',1470.2,0.0321442,0.02216,2051,'drift');
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INSERT INTO `drift` VALUES (149,'14DR01N3',1470.4,0.4556716,0.02216,2053,'drift');
INSERT INTO `drift` VALUES (150,'14DR01N4',1470.6,0.0976,0.02216,2055,'drift');
INSERT INTO `drift` VALUES (151,'14DR01N5',1470.8,0.14252,0.02216,2057,'drift');
INSERT INTO `drift` VALUES (152,'14DR01N6',1470.9,0.17536,0.02216,2059,'drift');
INSERT INTO `drift` VALUES (153,'14DR02N1',1537.0,0.2931086,0.02216,2121,'drift');
INSERT INTO `drift` VALUES (154,'14DR02N2',1537.2,0.0976,0.02216,2123,'drift');
INSERT INTO `drift` VALUES (155,'14DR02N3',1537.4,0.1856214,0.02216,2125,'drift');
INSERT INTO `drift` VALUES (156,'15DR01N1',1605.0,0.1009397,0.02216,2187,'drift');
INSERT INTO `drift` VALUES (157,'15DR01N2',1605.2,0.0240603,0.02216,2189,'drift');
INSERT INTO `drift` VALUES (158,'15DR01N3',1605.4,0.0663967,0.02216,2191,'drift');
INSERT INTO `drift` VALUES (159,'15DR01N4',1605.6,0.2164726,0.02216,2193,'drift');
INSERT INTO `drift` VALUES (160,'15DR01N5',1605.8,0.0976,0.02216,2195,'drift');
INSERT INTO `drift` VALUES (161,'15DR01N6',1606.0,0.12696,0.02216,2197,'drift');
INSERT INTO `drift` VALUES (162,'15DR01N7',1606.2,0.16615,0.02216,2199,'drift');
INSERT INTO `drift` VALUES (163,'15DR02N1',1672.0,0.2872882,0.02216,2261,'drift');
INSERT INTO `drift` VALUES (164,'15DR02N2',1672.2,0.0976,0.02216,2263,'drift');
INSERT INTO `drift` VALUES (165,'15DR02N3',1672.4,0.2065518,0.02216,2265,'drift');
INSERT INTO `drift` VALUES (166,'16DR01N1',1740.0,0.102958,0.02216,2327,'drift');
INSERT INTO `drift` VALUES (167,'16DR01N2',1740.2,0.0703301,0.02216,2329,'drift');
INSERT INTO `drift` VALUES (168,'16DR01N3',1740.4,0.2397949,0.02216,2331,'drift');
INSERT INTO `drift` VALUES (169,'16DR01N4',1740.6,0.0976,0.02216,2333,'drift');
INSERT INTO `drift` VALUES (170,'16DR01N5',1740.8,0.1413013,0.02216,2335,'drift');
INSERT INTO `drift` VALUES (171,'16DR01N6',1741.0,0.1625457,0.02216,2337,'drift');
INSERT INTO `drift` VALUES (172,'16DR02N1',1807.0,0.3128156,0.02216,2399,'drift');
INSERT INTO `drift` VALUES (173,'16DR02N2',1807.2,0.0976,0.02216,2401,'drift');
INSERT INTO `drift` VALUES (174,'16DR02N3',1807.4,0.1991044,0.02216,2403,'drift');
INSERT INTO `drift` VALUES (175,'17DR01N1',1875.0,0.1043379,0.02216,2465,'drift');
INSERT INTO `drift` VALUES (176,'17DR01N2',1875.2,0.0206621,0.02216,2467,'drift');
INSERT INTO `drift` VALUES (177,'17DR01N3',1875.4,0.0503893,0.02216,2469,'drift');
INSERT INTO `drift` VALUES (178,'17DR01N4',1875.6,0.2488602,0.02216,2471,'drift');
INSERT INTO `drift` VALUES (179,'17DR01N5',1875.8,0.0976,0.02216,2473,'drift');
INSERT INTO `drift` VALUES (180,'17DR01N6',1876.0,0.1592794,0.02216,2475,'drift');
INSERT INTO `drift` VALUES (181,'17DR01N7',1876.2,0.1608011,0.02216,2477,'drift');
INSERT INTO `drift` VALUES (182,'17DR02N1',1942.0,0.3026419,0.02216,2539,'drift');
INSERT INTO `drift` VALUES (183,'17DR02N2',1942.2,0.0976,0.02216,2541,'drift');
INSERT INTO `drift` VALUES (184,'17DR02N3',1942.4,0.2256681,0.02216,2543,'drift');
INSERT INTO `drift` VALUES (185,'18DR01N1',2010.0,0.1077079,0.02216,2605,'drift');
INSERT INTO `drift` VALUES (186,'18DR01N2',2010.2,0.0672058,0.02216,2607,'drift');
INSERT INTO `drift` VALUES (187,'18DR01N3',2010.4,0.2540646,0.02216,2609,'drift');
INSERT INTO `drift` VALUES (188,'18DR01N4',2010.6,0.0976,0.02216,2611,'drift');
INSERT INTO `drift` VALUES (189,'18DR01N5',2010.8,0.1717356,0.02216,2613,'drift');
INSERT INTO `drift` VALUES (190,'18DR01N6',2011.0,0.1638361,0.02216,2615,'drift');
INSERT INTO `drift` VALUES (191,'18DR02N1',2077.0,0.3034157,0.02216,2677,'drift');
INSERT INTO `drift` VALUES (192,'18DR02N2',2077.2,0.0976,0.02216,2679,'drift');
INSERT INTO `drift` VALUES (193,'18DR02N3',2077.4,0.2398543,0.02216,2681,'drift');
INSERT INTO `drift` VALUES (194,'19DR01N1',2145.0,0.1075117,0.02216,2743,'drift');
INSERT INTO `drift` VALUES (195,'19DR01N2',2145.2,0.0174883,0.02216,2745,'drift');
INSERT INTO `drift` VALUES (196,'19DR01N3',2145.4,0.0528036,0.02216,2747,'drift');
INSERT INTO `drift` VALUES (197,'19DR01N4',2145.6,0.3253929,0.02216,2749,'drift');
INSERT INTO `drift` VALUES (198,'19DR01N5',2145.8,0.0976,0.02216,2751,'drift');
INSERT INTO `drift` VALUES (199,'19DR01N6',2146.0,0.1224063,0.02216,2753,'drift');
INSERT INTO `drift` VALUES (200,'19DR01N7',2146.2,0.1578472,0.02216,2755,'drift');
INSERT INTO `drift` VALUES (201,'19DR02N1',2210.0,0.3427025,0.02216,2815,'drift');
INSERT INTO `drift` VALUES (202,'19DR02N2',2210.2,0.0976,0.02216,2817,'drift');
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INSERT INTO `drift` VALUES (205,'20DR01N2',2276.2,0.0704672,0.02216,2881,'drift');
INSERT INTO `drift` VALUES (206,'20DR01N3',2276.4,0.3119208,0.02216,2883,'drift');
INSERT INTO `drift` VALUES (207,'20DR01N4',2276.6,0.0976,0.02216,2885,'drift');
INSERT INTO `drift` VALUES (208,'20DR01N5',2276.8,0.1473719,0.02216,2887,'drift');
INSERT INTO `drift` VALUES (209,'20DR01N6',2277.0,0.1546616,0.02216,2889,'drift');
INSERT INTO `drift` VALUES (210,'20DR02N1',2341.0,0.323082,0.02216,2949,'drift');
INSERT INTO `drift` VALUES (211,'20DR02N2',2341.2,0.0976,0.02216,2951,'drift');
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INSERT INTO `drift` VALUES (214,'21DR01N2',2407.2,0.0137338,0.02216,3015,'drift');
INSERT INTO `drift` VALUES (215,'21DR01N3',2407.4,0.0582371,0.02216,3017,'drift');
INSERT INTO `drift` VALUES (216,'21DR01N4',2407.6,0.3203612,0.02216,3019,'drift');
INSERT INTO `drift` VALUES (217,'21DR01N5',2407.8,0.0976,0.02216,3021,'drift');
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INSERT INTO `drift` VALUES (229,'22DR02N2',2603.2,0.0976,0.02216,3219,'drift');
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INSERT INTO `drift` VALUES (232,'23DR01N2',2669.2,0.0658932,0.02216,3283,'drift');
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INSERT INTO `drift` VALUES (234,'23DR01N4',2669.6,0.0976,0.02216,3287,'drift');
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INSERT INTO `drift` VALUES (238,'23DR02N2',2734.2,0.0976,0.02216,3353,'drift');
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INSERT INTO `drift` VALUES (404,'41DR01N5',4895.8,0.0976,0.02216,5583,'drift');
INSERT INTO `drift` VALUES (405,'41DR01N6',4896.0,0.1257286,0.02216,5585,'drift');
INSERT INTO `drift` VALUES (406,'41DR01N7',4896.2,0.1233074,0.02216,5587,'drift');
```

```sql
INSERT INTO `drift` VALUES (407,'41DR02N1',4954.0,0.3201098,0.02216,5641,'drift');
INSERT INTO `drift` VALUES (408,'41DR02N2',4954.2,0.0976,0.02216,5643,'drift');
INSERT INTO `drift` VALUES (409,'41DR02N3',4954.4,0.1341102,0.02216,5645,'drift');
INSERT INTO `drift` VALUES (410,'42DR01N1',5014.0,0.1451901,0.02216,5699,'drift');
INSERT INTO `drift` VALUES (411,'42DR01N2',5014.2,0.0682396,0.02216,5701,'drift');
INSERT INTO `drift` VALUES (412,'42DR01N3',5014.4,0.2543898,0.02216,5703,'drift');
INSERT INTO `drift` VALUES (413,'42DR01N4',5014.6,0.0976,0.02216,5705,'drift');
INSERT INTO `drift` VALUES (414,'42DR01N5',5014.8,0.1644661,0.02216,5707,'drift');
INSERT INTO `drift` VALUES (415,'42DR01N6',5015.0,0.1239844,0.02216,5709,'drift');
INSERT INTO `drift` VALUES (416,'42DR02N1',5073.0,0.3340075,0.02216,5763,'drift');
INSERT INTO `drift` VALUES (417,'42DR02N2',5073.2,0.0976,0.02216,5765,'drift');
INSERT INTO `drift` VALUES (418,'42DR02N3',5073.4,0.1246825,0.02216,5767,'drift');
INSERT INTO `drift` VALUES (419,'43DR01N1',5133.0,0.125,0.02216,5821,'drift');
INSERT INTO `drift` VALUES (420,'43DR01N2',5133.2,0.0252429,0.02216,5823,'drift');
INSERT INTO `drift` VALUES (421,'43DR01N3',5133.4,0.0889914,0.02216,5825,'drift');
INSERT INTO `drift` VALUES (422,'43DR01N4',5133.6,0.2352661,0.02216,5827,'drift');
INSERT INTO `drift` VALUES (423,'43DR01N5',5133.8,0.0976,0.02216,5829,'drift');
INSERT INTO `drift` VALUES (424,'43DR01N6',5134.0,0.1613191,0.02216,5831,'drift');
INSERT INTO `drift` VALUES (425,'43DR01N7',5134.2,0.1218705,0.02216,5833,'drift');
INSERT INTO `drift` VALUES (426,'43DR02N1',5192.0,0.3257969,0.02216,5887,'drift');
INSERT INTO `drift` VALUES (427,'43DR02N2',5192.2,0.0976,0.02216,5889,'drift');
INSERT INTO `drift` VALUES (428,'43DR02N3',5192.4,0.1373131,0.02216,5891,'drift');
INSERT INTO `drift` VALUES (429,'44DR01N1',5252.0,0.1519341,0.02216,5945,'drift');
INSERT INTO `drift` VALUES (430,'44DR01N2',5252.2,0.0695783,0.02216,5947,'drift');
INSERT INTO `drift` VALUES (431,'44DR01N3',5252.4,0.2632416,0.02216,5949,'drift');
INSERT INTO `drift` VALUES (432,'44DR01N4',5252.6,0.0976,0.02216,5951,'drift');
INSERT INTO `drift` VALUES (433,'44DR01N5',5252.8,0.16813,0.02216,5953,'drift');
INSERT INTO `drift` VALUES (434,'44DR01N6',5252.95,0.11553,0.02216,5955,'drift');
INSERT INTO `drift` VALUES (435,'44DR02N1',5311.0,0.3264387,0.02216,6009,'drift');
INSERT INTO `drift` VALUES (436,'44DR02N2',5311.2,0.0976,0.02216,6011,'drift');
INSERT INTO `drift` VALUES (437,'44DR02N3',5311.4,0.1405513,0.02216,6013,'drift');
INSERT INTO `drift` VALUES (438,'45DR01N1',5371.0,0.125,0.02216,6067,'drift');
INSERT INTO `drift` VALUES (439,'45DR01N2',5371.2,0.1183314,0.02216,6069,'drift');
INSERT INTO `drift` VALUES (440,'45DR01N3',5371.4,0.2529597,0.02216,6071,'drift');
INSERT INTO `drift` VALUES (441,'45DR01N4',5371.6,0.0975999999999,0.02216,6073,'drift');
INSERT INTO `drift` VALUES (442,'45DR01N5',5371.8,0.1596402,0.02216,6075,'drift');
INSERT INTO `drift` VALUES (443,'45DR01N6',5372.0,0.1169287,0.02216,6077,'drift');
INSERT INTO `drift` VALUES (444,'45DR02N1',5428.0,0.3335612,0.02216,6129,'drift');
INSERT INTO `drift` VALUES (445,'45DR02N2',5428.2,0.0975999999999,0.02216,6131,'drift');
INSERT INTO `drift` VALUES (446,'45DR02N3',5428.4,0.1363488,0.02216,6133,'drift');
INSERT INTO `drift` VALUES (447,'46DR01N1',5486.0,0.1539803,0.02216,6185,'drift');
INSERT INTO `drift` VALUES (448,'46DR01N2',5486.2,0.0711683,0.02216,6187,'drift');
INSERT INTO `drift` VALUES (449,'46DR01N3',5486.4,0.2661144,0.02216,6189,'drift');
INSERT INTO `drift` VALUES (450,'46DR01N4',5486.6,0.0975999999999,0.02216,6191,'drift');
INSERT INTO `drift` VALUES (451,'46DR01N5',5486.8,0.1709151,0.02216,6193,'drift');
INSERT INTO `drift` VALUES (452,'46DR01N6',5487.0,0.1164419,0.02216,6195,'drift');
INSERT INTO `drift` VALUES (453,'46DR02N1',5543.0,0.3629558,0.02216,6247,'drift');
INSERT INTO `drift` VALUES (454,'46DR02N2',5543.2,0.0975999999999,0.02216,6249,'drift');
INSERT INTO `drift` VALUES (455,'46DR02N3',5543.4,0.1101342,0.02216,6251,'drift');
INSERT INTO `drift` VALUES (456,'47DR01N1',5601.0,0.125,0.02216,6303,'drift');
INSERT INTO `drift` VALUES (457,'47DR01N2',5601.2,0.1205827,0.02216,6305,'drift');
INSERT INTO `drift` VALUES (458,'47DR01N3',5601.4,0.2429877,0.02216,6307,'drift');
INSERT INTO `drift` VALUES (459,'47DR01N4',5601.6,0.0975999999999,0.02216,6309,'drift');
INSERT INTO `drift` VALUES (460,'47DR01N5',5601.8,0.1774532,0.02216,6311,'drift');
INSERT INTO `drift` VALUES (461,'47DR01N6',5602.0,0.1172264,0.02216,6313,'drift');
INSERT INTO `drift` VALUES (462,'47DR02N1',5658.0,0.3056233,0.02216,6365,'drift');
INSERT INTO `drift` VALUES (463,'47DR02N2',5658.2,0.0975999999999,0.02216,6367,'drift');
INSERT INTO `drift` VALUES (464,'47DR02N3',5658.4,0.1731067,0.02216,6369,'drift');
INSERT INTO `drift` VALUES (465,'48DR01N1',5716.0,0.2294968,0.02216,6421,'drift');
INSERT INTO `drift` VALUES (466,'48DR01N2',5716.2,0.2663785,0.02216,6423,'drift');
INSERT INTO `drift` VALUES (467,'48DR01N3',5716.4,0.0975999999999,0.02216,6425,'drift');
INSERT INTO `drift` VALUES (468,'48DR01N4',5716.6,0.176902,0.02216,6427,'drift');
INSERT INTO `drift` VALUES (469,'48DR01N5',5716.8,0.1160527,0.02216,6429,'drift');
INSERT INTO `drift` VALUES (470,'48DR02N1',5773.0,0.342465,0.02216,6481,'drift');
INSERT INTO `drift` VALUES (471,'48DR02N2',5773.2,0.0975999999999,0.02216,6483,'drift');
INSERT INTO `drift` VALUES (472,'48DR02N3',5773.4,0.137485,0.02216,6485,'drift');
INSERT INTO `drift` VALUES (473,'49DRN1',5828.0,0.125,0.02216,6536,'drift');
INSERT INTO `drift` VALUES (474,'49DRN2',5828.2,20.029,0.02216,6538,'drift');
CREATE TABLE diode(
  id integer primary key,
  name text,
  c0_cal double precision not null default 1.0,
  c1_cal double precision not null default 0.1,
  c2_cal double precision not null default 0.0,
  c3_cal double precision not null default 0.0,
  c4_cal double precision not null default 0.0
);
INSERT INTO `diode` VALUES (1,'diode1',0.0195,0.185,-0.0798,0.0977,-0.0485);
INSERT INTO `diode` VALUES (2,'MD06DI',0.0,0.0,0.0,0.0,0.0);
INSERT INTO `diode` VALUES (3,'MD07DI',0.0,0.0,0.0,0.0,0.0);
CREATE TABLE diagnostics(
  id integer primary key,
  name text,
  view_index double precision unique,
  diag_type text,
  monitor integer not null default 0,
```

```sql
    model_index integer unique,
    model_type text not null default 'diagnostics'
);
INSERT INTO `diagnostics` VALUES (1,'CLZ',0.3,'MK',0,527,'diagnostics');
INSERT INTO `diagnostics` VALUES (2,'05WS02',39.1,'WS',0,567,'diagnostics');
INSERT INTO `diagnostics` VALUES (3,'05PM03',83.1,'PM',0,612,'diagnostics');
INSERT INTO `diagnostics` VALUES (4,'05WS03',83.7,'WS',0,618,'diagnostics');
INSERT INTO `diagnostics` VALUES (5,'05CM04',127.1,'CM',0,659,'diagnostics');
INSERT INTO `diagnostics` VALUES (6,'05WS04',127.7,'WS',0,665,'diagnostics');
INSERT INTO `diagnostics` VALUES (7,'05DT',172.5,'DT',0,710,'diagnostics');
INSERT INTO `diagnostics` VALUES (8,'06WS01',172.7,'WS',0,712,'diagnostics');
INSERT INTO `diagnostics` VALUES (9,'06PM02',214.1,'PM',0,751,'diagnostics');
INSERT INTO `diagnostics` VALUES (10,'06WS02',214.7,'WS',0,757,'diagnostics');
INSERT INTO `diagnostics` VALUES (11,'06WS03',256.5,'WS',0,800,'diagnostics');
INSERT INTO `diagnostics` VALUES (12,'06PM04',298.1,'PM',0,839,'diagnostics');
INSERT INTO `diagnostics` VALUES (13,'06WS04',298.7,'WS',0,845,'diagnostics');
INSERT INTO `diagnostics` VALUES (14,'07CM01',341.1,'CM',0,884,'diagnostics');
INSERT INTO `diagnostics` VALUES (15,'06DT',341.3,'DT',0,886,'diagnostics');
INSERT INTO `diagnostics` VALUES (16,'07PM01',341.5,'PM',0,888,'diagnostics');
INSERT INTO `diagnostics` VALUES (17,'07WS01',342.1,'WS',0,894,'diagnostics');
INSERT INTO `diagnostics` VALUES (18,'07WS02',383.5,'WS',0,937,'diagnostics');
INSERT INTO `diagnostics` VALUES (19,'07PM03',425.1,'PM',0,976,'diagnostics');
INSERT INTO `diagnostics` VALUES (20,'07WS03',425.7,'WS',0,982,'diagnostics');
INSERT INTO `diagnostics` VALUES (21,'07WS04',467.5,'WS',0,1025,'diagnostics');
INSERT INTO `diagnostics` VALUES (22,'08CM01',510.1,'CM',0,1064,'diagnostics');
INSERT INTO `diagnostics` VALUES (23,'07DT',510.3,'DT',0,1066,'diagnostics');
INSERT INTO `diagnostics` VALUES (24,'08PM01',510.5,'PM',0,1068,'diagnostics');
INSERT INTO `diagnostics` VALUES (25,'08WS01',511.1,'WS',0,1074,'diagnostics');
INSERT INTO `diagnostics` VALUES (26,'08PM03',594.1,'PM',0,1154,'diagnostics');
INSERT INTO `diagnostics` VALUES (27,'09CM01',679.1,'CM',0,1238,'diagnostics');
INSERT INTO `diagnostics` VALUES (28,'08DT',679.3,'DT',0,1240,'diagnostics');
INSERT INTO `diagnostics` VALUES (29,'09PM01',679.5,'PM',0,1242,'diagnostics');
INSERT INTO `diagnostics` VALUES (30,'09WS01',680.1,'WS',0,1248,'diagnostics');
INSERT INTO `diagnostics` VALUES (31,'09PM03',763.1,'PM',0,1328,'diagnostics');
INSERT INTO `diagnostics` VALUES (32,'10CM01',848.1,'CM',0,1412,'diagnostics');
INSERT INTO `diagnostics` VALUES (33,'09DT',848.3,'DT',0,1414,'diagnostics');
INSERT INTO `diagnostics` VALUES (34,'10PM01',848.5,'PM',0,1416,'diagnostics');
INSERT INTO `diagnostics` VALUES (35,'10WS01',849.1,'WS',0,1422,'diagnostics');
INSERT INTO `diagnostics` VALUES (36,'10PM03',928.1,'PM',0,1498,'diagnostics');
INSERT INTO `diagnostics` VALUES (37,'11CM01',1009.1,'CM',0,1578,'diagnostics');
INSERT INTO `diagnostics` VALUES (38,'10DT',1009.3,'DT',0,1580,'diagnostics');
INSERT INTO `diagnostics` VALUES (39,'11PM01',1009.5,'PM',0,1582,'diagnostics');
INSERT INTO `diagnostics` VALUES (40,'11WS01',1010.1,'WS',0,1588,'diagnostics');
INSERT INTO `diagnostics` VALUES (41,'12CM01',1170.1,'CM',0,1742,'diagnostics');
INSERT INTO `diagnostics` VALUES (42,'11DT',1170.3,'DT',0,1744,'diagnostics');
INSERT INTO `diagnostics` VALUES (43,'12PM01',1170.5,'PM',0,1746,'diagnostics');
INSERT INTO `diagnostics` VALUES (44,'12WS01',1171.1,'WS',0,1752,'diagnostics');
INSERT INTO `diagnostics` VALUES (45,'13CM01',1331.1,'CM',0,1906,'diagnostics');
INSERT INTO `diagnostics` VALUES (46,'12DT',1331.3,'DT',0,1908,'diagnostics');
INSERT INTO `diagnostics` VALUES (47,'13PM01',1331.5,'PM',0,1910,'diagnostics');
INSERT INTO `diagnostics` VALUES (48,'13WS01',1332.1,'WS',0,1916,'diagnostics');
INSERT INTO `diagnostics` VALUES (49,'14CM01',1470.1,'CM',0,2050,'diagnostics');
INSERT INTO `diagnostics` VALUES (50,'13DT',1470.3,'DT',0,2052,'diagnostics');
INSERT INTO `diagnostics` VALUES (51,'14WS01',1470.85,'WS',0,2058,'diagnostics');
INSERT INTO `diagnostics` VALUES (52,'15CM01',1605.1,'CM',0,2188,'diagnostics');
INSERT INTO `diagnostics` VALUES (53,'14DT',1605.3,'DT',0,2190,'diagnostics');
INSERT INTO `diagnostics` VALUES (54,'15PM01',1605.5,'PM',0,2192,'diagnostics');
INSERT INTO `diagnostics` VALUES (55,'15WS01',1606.1,'WS',0,2198,'diagnostics');
INSERT INTO `diagnostics` VALUES (56,'16CM01',1740.1,'CM',0,2328,'diagnostics');
INSERT INTO `diagnostics` VALUES (57,'16PM01',1740.3,'PM',0,2330,'diagnostics');
INSERT INTO `diagnostics` VALUES (58,'16WS01',1740.9,'WS',0,2336,'diagnostics');
INSERT INTO `diagnostics` VALUES (59,'17CM01',1875.1,'CM',0,2466,'diagnostics');
INSERT INTO `diagnostics` VALUES (60,'16DT',1875.3,'DT',0,2468,'diagnostics');
INSERT INTO `diagnostics` VALUES (61,'17PM01',1875.5,'PM',0,2470,'diagnostics');
INSERT INTO `diagnostics` VALUES (62,'17WS01',1876.1,'WS',0,2476,'diagnostics');
INSERT INTO `diagnostics` VALUES (63,'18CM01',2010.1,'CM',0,2606,'diagnostics');
INSERT INTO `diagnostics` VALUES (64,'18PM01',2010.3,'PM',0,2608,'diagnostics');
INSERT INTO `diagnostics` VALUES (65,'18WS01',2010.9,'WS',0,2614,'diagnostics');
INSERT INTO `diagnostics` VALUES (66,'19CM01',2145.1,'CM',0,2744,'diagnostics');
INSERT INTO `diagnostics` VALUES (67,'18DT',2145.3,'DT',0,2746,'diagnostics');
INSERT INTO `diagnostics` VALUES (68,'19PM01',2145.5,'PM',0,2748,'diagnostics');
INSERT INTO `diagnostics` VALUES (69,'19WS01',2146.1,'WS',0,2754,'diagnostics');
INSERT INTO `diagnostics` VALUES (70,'20CM01',2276.1,'CM',0,2880,'diagnostics');
INSERT INTO `diagnostics` VALUES (71,'20PM01',2276.3,'PM',0,2882,'diagnostics');
INSERT INTO `diagnostics` VALUES (72,'20WS01',2276.9,'WS',0,2888,'diagnostics');
INSERT INTO `diagnostics` VALUES (73,'21CM01',2407.1,'CM',0,3014,'diagnostics');
INSERT INTO `diagnostics` VALUES (74,'20DT',2407.3,'DT',0,3016,'diagnostics');
INSERT INTO `diagnostics` VALUES (75,'21PM01',2407.5,'PM',0,3018,'diagnostics');
INSERT INTO `diagnostics` VALUES (76,'21WS01',2408.1,'WS',0,3024,'diagnostics');
INSERT INTO `diagnostics` VALUES (77,'22CM01',2538.1,'CM',0,3150,'diagnostics');
INSERT INTO `diagnostics` VALUES (78,'22WS01',2538.7,'WS',0,3156,'diagnostics');
INSERT INTO `diagnostics` VALUES (79,'22DT',2669.1,'DT',0,3282,'diagnostics');
INSERT INTO `diagnostics` VALUES (80,'23PM01',2669.3,'PM',0,3284,'diagnostics');
INSERT INTO `diagnostics` VALUES (81,'23WS01',2669.9,'WS',0,3290,'diagnostics');
INSERT INTO `diagnostics` VALUES (82,'24PM01',2800.1,'PM',0,3416,'diagnostics');
INSERT INTO `diagnostics` VALUES (83,'24PM01',2800.3,'PM',0,3418,'diagnostics');
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INSERT INTO `diagnostics` VALUES (84,'24WS01',2800.9,'WS',0,3424,'diagnostics');
INSERT INTO `diagnostics` VALUES (85,'25CM01',2927.1,'CM',0,3546,'diagnostics');
INSERT INTO `diagnostics` VALUES (86,'24DT',2927.3,'DT',0,3548,'diagnostics');
INSERT INTO `diagnostics` VALUES (87,'25PM01',2927.5,'PM',0,3550,'diagnostics');
INSERT INTO `diagnostics` VALUES (88,'25WS01',2928.1,'WS',0,3556,'diagnostics');
INSERT INTO `diagnostics` VALUES (89,'26CM01',3054.1,'CM',0,3678,'diagnostics');
INSERT INTO `diagnostics` VALUES (90,'26PM01',3054.3,'PM',0,3680,'diagnostics');
INSERT INTO `diagnostics` VALUES (91,'26WS01',3054.9,'WS',0,3686,'diagnostics');
INSERT INTO `diagnostics` VALUES (92,'27CM01',3181.1,'CM',0,3808,'diagnostics');
INSERT INTO `diagnostics` VALUES (93,'26DT',3181.3,'DT',0,3810,'diagnostics');
INSERT INTO `diagnostics` VALUES (94,'27PM01',3181.5,'PM',0,3812,'diagnostics');
INSERT INTO `diagnostics` VALUES (95,'27WS01',3182.1,'WS',0,3818,'diagnostics');
INSERT INTO `diagnostics` VALUES (96,'28CM01',3308.1,'CM',0,3940,'diagnostics');
INSERT INTO `diagnostics` VALUES (97,'28PM01',3308.3,'PM',0,3942,'diagnostics');
INSERT INTO `diagnostics` VALUES (98,'28WS01',3308.9,'WS',0,3948,'diagnostics');
INSERT INTO `diagnostics` VALUES (99,'29CM01',3435.1,'CM',0,4070,'diagnostics');
INSERT INTO `diagnostics` VALUES (100,'28DT',3435.3,'DT',0,4072,'diagnostics');
INSERT INTO `diagnostics` VALUES (101,'29PM01',3435.5,'PM',0,4074,'diagnostics');
INSERT INTO `diagnostics` VALUES (102,'29WS01',3436.1,'WS',0,4080,'diagnostics');
INSERT INTO `diagnostics` VALUES (103,'30CM01',3562.1,'CM',0,4202,'diagnostics');
INSERT INTO `diagnostics` VALUES (104,'30PM01',3562.3,'PM',0,4204,'diagnostics');
INSERT INTO `diagnostics` VALUES (105,'30WS01',3562.9,'WS',0,4210,'diagnostics');
INSERT INTO `diagnostics` VALUES (106,'31CM01',3685.1,'CM',0,4328,'diagnostics');
INSERT INTO `diagnostics` VALUES (107,'30DT',3685.3,'DT',0,4330,'diagnostics');
INSERT INTO `diagnostics` VALUES (108,'31PM01',3685.5,'PM',0,4332,'diagnostics');
INSERT INTO `diagnostics` VALUES (109,'31WS01',3686.1,'WS',0,4338,'diagnostics');
INSERT INTO `diagnostics` VALUES (110,'32CM01',3808.1,'CM',0,4456,'diagnostics');
INSERT INTO `diagnostics` VALUES (111,'32PM01',3808.3,'PM',0,4458,'diagnostics');
INSERT INTO `diagnostics` VALUES (112,'32WS01',3808.9,'WS',0,4464,'diagnostics');
INSERT INTO `diagnostics` VALUES (113,'32DT',3931.1,'DT',0,4582,'diagnostics');
INSERT INTO `diagnostics` VALUES (114,'33CM01',3931.3,'CM',0,4584,'diagnostics');
INSERT INTO `diagnostics` VALUES (115,'33PM01',3931.5,'PM',0,4586,'diagnostics');
INSERT INTO `diagnostics` VALUES (116,'33WS01',3932.1,'WS',0,4592,'diagnostics');
INSERT INTO `diagnostics` VALUES (117,'34CM01',4054.1,'CM',0,4710,'diagnostics');
INSERT INTO `diagnostics` VALUES (118,'34PM01',4054.3,'PM',0,4712,'diagnostics');
INSERT INTO `diagnostics` VALUES (119,'34WS01',4054.9,'WS',0,4718,'diagnostics');
INSERT INTO `diagnostics` VALUES (120,'34DT',4177.1,'DT',0,4836,'diagnostics');
INSERT INTO `diagnostics` VALUES (121,'35CM01',4177.3,'CM',0,4838,'diagnostics');
INSERT INTO `diagnostics` VALUES (122,'35PM01',4177.5,'PM',0,4840,'diagnostics');
INSERT INTO `diagnostics` VALUES (123,'35WS01',4178.1,'WS',0,4846,'diagnostics');
INSERT INTO `diagnostics` VALUES (124,'36CM01',4300.1,'CM',0,4964,'diagnostics');
INSERT INTO `diagnostics` VALUES (125,'36PM01',4300.3,'PM',0,4966,'diagnostics');
INSERT INTO `diagnostics` VALUES (126,'36WS01',4300.9,'WS',0,4972,'diagnostics');
INSERT INTO `diagnostics` VALUES (127,'36DT',4419.1,'DT',0,5086,'diagnostics');
INSERT INTO `diagnostics` VALUES (128,'37CM01',4419.3,'CM',0,5088,'diagnostics');
INSERT INTO `diagnostics` VALUES (129,'37PM01',4419.5,'PM',0,5090,'diagnostics');
INSERT INTO `diagnostics` VALUES (130,'37WS01',4420.1,'WS',0,5096,'diagnostics');
INSERT INTO `diagnostics` VALUES (131,'38PM01',4538.1,'PM',0,5210,'diagnostics');
INSERT INTO `diagnostics` VALUES (132,'38WS01',4538.7,'WS',0,5216,'diagnostics');
INSERT INTO `diagnostics` VALUES (133,'38DT',4657.1,'DT',0,5330,'diagnostics');
INSERT INTO `diagnostics` VALUES (134,'39CM01',4657.3,'CM',0,5332,'diagnostics');
INSERT INTO `diagnostics` VALUES (135,'39PM01',4657.5,'PM',0,5334,'diagnostics');
INSERT INTO `diagnostics` VALUES (136,'39WS01',4658.1,'WS',0,5340,'diagnostics');
INSERT INTO `diagnostics` VALUES (137,'40CM01',4776.1,'CM',0,5454,'diagnostics');
INSERT INTO `diagnostics` VALUES (138,'40PM01',4776.3,'PM',0,5456,'diagnostics');
INSERT INTO `diagnostics` VALUES (139,'40WS01',4776.9,'WS',0,5462,'diagnostics');
INSERT INTO `diagnostics` VALUES (140,'40DT',4895.1,'DT',0,5576,'diagnostics');
INSERT INTO `diagnostics` VALUES (141,'41CM01',4895.3,'CM',0,5578,'diagnostics');
INSERT INTO `diagnostics` VALUES (142,'41PM01',4895.5,'PM',0,5580,'diagnostics');
INSERT INTO `diagnostics` VALUES (143,'41WS01',4896.1,'WS',0,5586,'diagnostics');
INSERT INTO `diagnostics` VALUES (144,'42CM01',5014.1,'CM',0,5700,'diagnostics');
INSERT INTO `diagnostics` VALUES (145,'42PM01',5014.3,'PM',0,5702,'diagnostics');
INSERT INTO `diagnostics` VALUES (146,'42WS01',5014.9,'WS',0,5708,'diagnostics');
INSERT INTO `diagnostics` VALUES (147,'42DT',5133.1,'DT',0,5822,'diagnostics');
INSERT INTO `diagnostics` VALUES (148,'43CM01',5133.3,'CM',0,5824,'diagnostics');
INSERT INTO `diagnostics` VALUES (149,'43PM01',5133.5,'PM',0,5826,'diagnostics');
INSERT INTO `diagnostics` VALUES (150,'43WS01',5134.1,'WS',0,5832,'diagnostics');
INSERT INTO `diagnostics` VALUES (151,'44CM01',5252.1,'CM',0,5946,'diagnostics');
INSERT INTO `diagnostics` VALUES (152,'44PM01',5252.3,'PM',0,5948,'diagnostics');
INSERT INTO `diagnostics` VALUES (153,'44WS01',5252.9,'WS',0,5954,'diagnostics');
INSERT INTO `diagnostics` VALUES (154,'44DT',5371.1,'DT',0,6068,'diagnostics');
INSERT INTO `diagnostics` VALUES (155,'45PM01',5371.3,'PM',0,6070,'diagnostics');
INSERT INTO `diagnostics` VALUES (156,'45WS01',5371.9,'WS',0,6076,'diagnostics');
INSERT INTO `diagnostics` VALUES (157,'46CM01',5486.1,'CM',0,6186,'diagnostics');
INSERT INTO `diagnostics` VALUES (158,'46PM01',5486.3,'PM',0,6188,'diagnostics');
INSERT INTO `diagnostics` VALUES (159,'46WS01',5486.9,'WS',0,6194,'diagnostics');
INSERT INTO `diagnostics` VALUES (160,'46DT',5601.1,'DT',0,6304,'diagnostics');
INSERT INTO `diagnostics` VALUES (161,'47PM01',5601.3,'PM',0,6306,'diagnostics');
INSERT INTO `diagnostics` VALUES (162,'47WS01',5601.9,'WS',0,6312,'diagnostics');
INSERT INTO `diagnostics` VALUES (163,'48PM01',5716.1,'PM',0,6422,'diagnostics');
INSERT INTO `diagnostics` VALUES (164,'48WS01',5716.7,'WS',0,6428,'diagnostics');
INSERT INTO `diagnostics` VALUES (165,'48DT',5828.1,'DT',0,6537,'diagnostics');
INSERT INTO `diagnostics` VALUES (166,'SYDT',5828.3,'DT',0,6539,'diagnostics');
CREATE TABLE ccl_tank(
    id integer primary key,
    name text,
```

```
  view_index double precision unique,
  module_id integer,
  tank_id integer,
  avg_phase_tmp double precision not null default 0.0,
  avg_phase_design double precision not null default 0.0,
  phase_offset_structure double precision not null default 0.0,
  cell_length_design double precision not null default 0.0,
  t_design double precision not null default 0.0,
  tp_design double precision not null default 0.0,
  sp_design double precision not null default 0.0,
  model_type text not null default 'ccl_tank'
);
INSERT INTO `ccl_tank` VALUES (1,'05TK01',0.0,5,1,-0.481393297329139,-0.481393296205213,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (2,'05TK02',44.0,5,2,-0.589530948684983,-0.589530947807213,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (3,'05TK03',88.0,5,3,-0.642463233846622,-0.642463233062101,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (4,'05TK04',132.0,5,4,-0.68002977490025,-0.68002977418303,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (5,'06TK01',177.0,6,1,-0.587678894025155,-0.587678893143857,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (6,'06TK02',219.0,6,2,-0.570633974601546,-0.570633973686834,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (7,'06TK03',261.0,6,3,-0.62706347512189,-0.627063474311652,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (8,'06TK04',303.0,6,4,-0.670128412514167,-0.670128411773288,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (9,'07TK01',346.0,7,1,-0.575243755719333,-0.575243754813831,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (10,'07TK02',388.0,7,2,-0.590739456350481,-0.590739455475002,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (11,'07TK03',430.0,7,3,-0.573936234471737,-0.573936233563636,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (12,'07TK04',472.0,7,4,-0.567835048786824,-0.567835047866456,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (13,'08TK01',515.0,8,1,-0.717826680430085,-0.717826679757731,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (14,'08TK02',557.0,8,2,-0.675123518119181,-0.675123517385857,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (15,'08TK03',599.0,8,3,-0.598280662568206,-0.59828066170684,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (16,'08TK04',641.0,8,4,-0.522186486013081,-0.522186484992835,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (17,'09TK01',684.0,9,1,-0.576971022565002,-0.576971021662918,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (18,'09TK02',726.0,9,2,-0.605309322258274,-0.605309321409786,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (19,'09TK03',768.0,9,3,-0.587579786017063,-0.587579785135576,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (20,'09TK04',810.0,9,4,-0.491994861450324,-0.491994860354856,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (21,'10TK01',853.0,10,1,-0.652539384910503,-0.652539384142242,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (22,'10TK02',893.0,10,2,-0.588690225566281,-0.588690224686912,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (23,'10TK03',933.0,10,3,-0.528859763298424,-0.528859762293747,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (24,'10TK04',973.0,10,4,-0.569214190116268,-0.569214189198693,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (25,'11TK01',1014.0,11,1,-0.594642070243266,-0.59464206937513,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (26,'11TK02',1054.0,11,2,-0.589728367850761,-0.589728366973366,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (27,'11TK03',1094.0,11,3,-0.560220193593,-0.560220192656988,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (28,'11TK04',1134.0,11,4,-0.518804443248012,-0.518804442219737,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (29,'12TK01',1175.0,12,1,-0.57426407949882,-0.574264078591373,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (30,'12TK02',1215.0,12,2,-0.658245314741335,-0.658245313982093,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (31,'12TK03',1255.0,12,3,-0.619330465910493,-0.619330465086927,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (32,'12TK04',1295.0,12,4,-0.528573425574853,-0.528573424569515,180.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (33,'13TK01',1336.0,13,1,-0.345731960518234,-0.345731958888248,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (34,'13TK02',1405.0,13,2,-0.58417130014955,-0.584171299261517,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (35,'14TK01',1475.0,14,1,-0.496651108837299,-0.496651107753976,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (36,'14TK02',1542.0,14,2,-0.514904613189698,-0.514904612152046,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (37,'15TK01',1610.0,15,1,-0.453025752225658,-0.453025751019559,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (38,'15TK02',1677.0,15,2,-0.478186929194831,-0.478186928062069,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (39,'16TK01',1745.0,16,1,-0.533673781894389,-0.533673780900724,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (40,'16TK02',1812.0,16,2,-0.565726104584528,-0.565726103659865,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (41,'17TK01',1880.0,17,1,-0.538683012550556,-0.53868301156816,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (42,'17TK02',1947.0,17,2,-0.522221522192867,-0.522221521172703,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (43,'18TK01',2015.0,18,1,-0.488167526685826,-0.488167525580215,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (44,'18TK02',2082.0,18,2,-0.529260248721862,-0.529260247718108,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (45,'19TK01',2150.0,19,1,-0.468163266236991,-0.468163265075889,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (46,'19TK02',2215.0,19,2,-0.450540821752178,-0.450540820538424,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (47,'20TK01',2281.0,20,1,-0.503029041816421,-0.5030290407494,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (48,'20TK02',2346.0,20,2,-0.527518965221261,-0.527518964213484,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (49,'21TK01',2412.0,21,1,-0.503621252997191,-0.503621251931664,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (50,'21TK02',2477.0,21,2,-0.484270349412466,-0.484270348296377,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (51,'22TK01',2543.0,22,1,-0.544920042576427,-0.544920041607802,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (52,'22TK02',2608.0,22,2,-0.539462240832721,-0.539462239852061,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (53,'23TK01',2674.0,23,1,-0.572380333079205,-0.572380332167998,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (54,'23TK02',2739.0,23,2,-0.569324332993563,-0.569324332076211,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (55,'24TK01',2805.0,24,1,-0.525466433942716,-0.525466432930166,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (56,'24TK02',2868.0,24,2,-0.567680795509407,-0.567680794588726,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (57,'25TK01',2932.0,25,1,-0.485786559467637,-0.485786558355643,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (58,'25TK02',2995.0,25,2,-0.469495560733888,-0.469495559576617,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (59,'26TK01',3059.0,26,1,-0.520213428581656,-0.520213427556738,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (60,'26TK02',3122.0,26,2,-0.50205413878882,-0.5020541377719332,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (61,'27TK01',3186.0,27,1,-0.520632473053336,-0.520632472029412,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (62,'27TK02',3249.0,27,2,-0.521662674729147,-0.521662673707664,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (63,'28TK01',3313.0,28,1,-0.528756228731183,-0.528756227726267,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (64,'28TK02',3376.0,28,2,-0.529598334626058,-0.529598333623082,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (65,'29TK01',3440.0,29,1,-0.572970170860816,-0.572970169950789,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (66,'29TK02',3503.0,29,2,-0.532473448490131,-0.532473447493737,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (67,'30TK01',3567.0,30,1,-0.485898062435032,-0.485898061323338,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (68,'30TK02',3628.0,30,2,-0.540374190001432,-0.540374189022798,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (69,'31TK01',3690.0,31,1,-0.497685468095126,-0.497685467014474,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (70,'31TK02',3751.0,31,2,-0.4862856255156,-0.486285624404949,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (71,'32TK01',3813.0,32,1,-0.503177376688719,-0.503177375622073,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (72,'32TK02',3874.0,32,2,-0.510955153556454,-0.510955152509174,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (73,'33TK01',3936.0,33,1,-0.537393068031867,-0.537393067046587,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (74,'33TK02',3997.0,33,2,-0.508449794694615,-0.508449793641156,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
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INSERT INTO `ccl_tank` VALUES (75,'34TK01',4059.0,34,1,-0.46182435794998,-0.461824356770369,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (76,'34TK02',4120.0,34,2,-0.509423856081257,-0.509423855030206,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (77,'35TK01',4182.0,35,1,-0.480897366759382,-0.480897365634097,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (78,'35TK02',4243.0,35,2,-0.469075444990944,-0.469075443832468,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (79,'36TK01',4305.0,36,1,-0.50619239420804,-0.506192393148965,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (80,'36TK02',4364.0,36,2,-0.492560998770974,-0.492560997676994,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (81,'37TK01',4424.0,37,1,-0.519477882249332,-0.519477881222663,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (82,'37TK02',4483.0,37,2,-0.512633768822105,-0.512633767778933,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (83,'38TK01',4543.0,38,1,-0.534073077758827,-0.534073076766067,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (84,'38TK02',4602.0,38,2,-0.544086700069037,-0.544086699098589,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (85,'39TK01',4662.0,39,1,-0.503457207983736,-0.503457206917796,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (86,'39TK02',4721.0,39,2,-0.537873238472339,-0.537873237488135,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (87,'40TK01',4781.0,40,1,-0.512025064160307,-0.512025063115648,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (88,'40TK02',4840.0,40,2,-0.483782857838412,-0.483782856721001,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (89,'41TK01',4900.0,41,1,-0.536497856396955,-0.536497855409666,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (90,'41TK02',4959.0,41,2,-0.536174639369529,-0.536174638381513,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (91,'42TK01',5019.0,42,1,-0.528110173562883,-0.528110172556474,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (92,'42TK02',5078.0,42,2,-0.549278810380018,-0.54927880942085,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (93,'43TK01',5138.0,43,1,-0.548227105640302,-0.548227104678864,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (94,'43TK02',5197.0,43,2,-0.523297239799906,-0.523297238782276,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (95,'44TK01',5257.0,44,1,-0.515572846418985,-0.515572845382949,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (96,'44TK02',5316.0,44,2,-0.527256008644337,-0.52725600763595,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (97,'45TK01',5376.0,45,1,-0.531056688598755,-0.531056687599125,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (98,'45TK02',5433.0,45,2,-0.508394342667744,-0.508394341614147,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (99,'46TK01',5491.0,46,1,-0.559622239674913,-0.559622238737656,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (100,'46TK02',5548.0,46,2,-0.55038579742699,-0.550385796470202,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (101,'47TK01',5606.0,47,1,-0.560468270612748,-0.560468269677251,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (102,'47TK02',5663.0,47,2,-0.544855194730759,-0.544855193761993,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (103,'48TK01',5721.0,48,1,-0.531431396580365,-0.531431395581592,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
INSERT INTO `ccl_tank` VALUES (104,'48TK02',5778.0,48,2,-0.524263540915114,-0.524263539899752,0.0,0.0,0.0,0.0,0.0,'ccl_tank');
CREATE TABLE caperture(
 id integer primary key,
 name text,
 view_index double precision unique,
 aperture_model double precision not null default 0.0,
 in_out_model integer not null default 1,
 model_index integer unique,
 model_type text not null default 'caperture'
);
INSERT INTO `caperture` VALUES (1,'05BA101',0.5,0.01588,1,528,'caperture');
INSERT INTO `caperture` VALUES (3,'05BA136',36.5,0.01588,1,565,'caperture');
INSERT INTO `caperture` VALUES (4,'05BA201',44.5,0.01588,1,573,'caperture');
INSERT INTO `caperture` VALUES (6,'05BA236',80.5,0.01588,1,610,'caperture');
INSERT INTO `caperture` VALUES (7,'05BA301',88.5,0.01588,1,620,'caperture');
INSERT INTO `caperture` VALUES (9,'05BA336',124.5,0.01588,1,657,'caperture');
INSERT INTO `caperture` VALUES (10,'05BA401',132.5,0.01588,1,667,'caperture');
INSERT INTO `caperture` VALUES (12,'05BA436',168.5,0.01588,1,704,'caperture');
INSERT INTO `caperture` VALUES (13,'06BA101',177.5,0.01588,1,714,'caperture');
INSERT INTO `caperture` VALUES (15,'06BA134',211.5,0.01588,1,749,'caperture');
INSERT INTO `caperture` VALUES (16,'06BA201',219.5,0.01588,1,759,'caperture');
INSERT INTO `caperture` VALUES (18,'06BA234',253.5,0.01588,1,794,'caperture');
INSERT INTO `caperture` VALUES (19,'06BA301',261.5,0.01588,1,802,'caperture');
INSERT INTO `caperture` VALUES (21,'06BA334',295.5,0.01588,1,837,'caperture');
INSERT INTO `caperture` VALUES (22,'06BA401',303.5,0.01588,1,847,'caperture');
INSERT INTO `caperture` VALUES (24,'06BA434',337.5,0.01588,1,882,'caperture');
INSERT INTO `caperture` VALUES (25,'07BA101',346.5,0.01588,1,896,'caperture');
INSERT INTO `caperture` VALUES (27,'07BA134',380.5,0.01588,1,931,'caperture');
INSERT INTO `caperture` VALUES (28,'07BA201',388.5,0.01588,1,939,'caperture');
INSERT INTO `caperture` VALUES (30,'07BA234',422.5,0.01588,1,974,'caperture');
INSERT INTO `caperture` VALUES (31,'07BA301',430.5,0.01588,1,984,'caperture');
INSERT INTO `caperture` VALUES (33,'07BA334',464.5,0.01588,1,1019,'caperture');
INSERT INTO `caperture` VALUES (34,'07BA401',472.5,0.01588,1,1027,'caperture');
INSERT INTO `caperture` VALUES (36,'07BA434',506.5,0.01588,1,1062,'caperture');
INSERT INTO `caperture` VALUES (37,'08BA101',515.5,0.01588,1,1076,'caperture');
INSERT INTO `caperture` VALUES (39,'08BA134',549.5,0.01588,1,1111,'caperture');
INSERT INTO `caperture` VALUES (40,'08BA201',557.5,0.01588,1,1117,'caperture');
INSERT INTO `caperture` VALUES (42,'08BA234',591.5,0.01588,1,1152,'caperture');
INSERT INTO `caperture` VALUES (43,'08BA301',599.5,0.01588,1,1160,'caperture');
INSERT INTO `caperture` VALUES (45,'08BA334',633.5,0.01588,1,1195,'caperture');
INSERT INTO `caperture` VALUES (46,'08BA401',641.5,0.01588,1,1201,'caperture');
INSERT INTO `caperture` VALUES (48,'08BA434',675.5,0.01588,1,1236,'caperture');
INSERT INTO `caperture` VALUES (49,'09BA101',684.5,0.01588,1,1250,'caperture');
INSERT INTO `caperture` VALUES (51,'09BA134',718.5,0.01588,1,1285,'caperture');
INSERT INTO `caperture` VALUES (52,'09BA201',726.5,0.01588,1,1291,'caperture');
INSERT INTO `caperture` VALUES (54,'09BA234',760.5,0.01588,1,1326,'caperture');
INSERT INTO `caperture` VALUES (55,'09BA301',768.5,0.01588,1,1334,'caperture');
INSERT INTO `caperture` VALUES (57,'09BA334',802.5,0.01588,1,1369,'caperture');
INSERT INTO `caperture` VALUES (58,'09BA401',810.5,0.01588,1,1375,'caperture');
INSERT INTO `caperture` VALUES (60,'09BA434',844.5,0.01588,1,1410,'caperture');
INSERT INTO `caperture` VALUES (61,'10BA101',853.5,0.01588,1,1424,'caperture');
INSERT INTO `caperture` VALUES (63,'10BA132',885.5,0.01588,1,1457,'caperture');
INSERT INTO `caperture` VALUES (64,'10BA201',893.5,0.01588,1,1463,'caperture');
INSERT INTO `caperture` VALUES (66,'10BA232',925.5,0.01588,1,1496,'caperture');
INSERT INTO `caperture` VALUES (67,'10BA301',933.5,0.01588,1,1504,'caperture');
INSERT INTO `caperture` VALUES (69,'10BA332',965.5,0.01588,1,1537,'caperture');
INSERT INTO `caperture` VALUES (70,'10BA401',973.5,0.01588,1,1543,'caperture');
```

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INSERT INTO `caperture` VALUES (72,'10BA432',1005.5,0.01588,1,1576,'caperture');
INSERT INTO `caperture` VALUES (73,'11BA101',1014.5,0.01588,1,1590,'caperture');
INSERT INTO `caperture` VALUES (75,'11BA132',1046.5,0.01588,1,1623,'caperture');
INSERT INTO `caperture` VALUES (76,'11BA201',1054.5,0.01588,1,1629,'caperture');
INSERT INTO `caperture` VALUES (78,'11BA232',1086.5,0.01588,1,1662,'caperture');
INSERT INTO `caperture` VALUES (79,'11BA301',1094.5,0.01588,1,1668,'caperture');
INSERT INTO `caperture` VALUES (81,'11BA332',1126.5,0.01588,1,1701,'caperture');
INSERT INTO `caperture` VALUES (82,'11BA401',1134.5,0.01588,1,1707,'caperture');
INSERT INTO `caperture` VALUES (84,'11BA432',1166.5,0.01588,1,1740,'caperture');
INSERT INTO `caperture` VALUES (85,'12BA101',1175.5,0.01588,1,1754,'caperture');
INSERT INTO `caperture` VALUES (87,'12BA132',1207.5,0.01588,1,1787,'caperture');
INSERT INTO `caperture` VALUES (88,'12BA201',1215.5,0.01588,1,1793,'caperture');
INSERT INTO `caperture` VALUES (90,'12BA232',1247.5,0.01588,1,1826,'caperture');
INSERT INTO `caperture` VALUES (91,'12BA301',1255.5,0.01588,1,1832,'caperture');
INSERT INTO `caperture` VALUES (93,'12BA332',1287.5,0.01588,1,1865,'caperture');
INSERT INTO `caperture` VALUES (94,'12BA401',1295.5,0.01588,1,1871,'caperture');
INSERT INTO `caperture` VALUES (96,'12BA432',1327.5,0.01588,1,1904,'caperture');
INSERT INTO `caperture` VALUES (97,'13BA101',1336.5,0.01905,1,1918,'caperture');
INSERT INTO `caperture` VALUES (99,'13BA161',1397.5,0.01905,1,1980,'caperture');
INSERT INTO `caperture` VALUES (100,'13BA201',1405.5,0.01905,1,1986,'caperture');
INSERT INTO `caperture` VALUES (102,'13BA261',1466.5,0.01905,1,2048,'caperture');
INSERT INTO `caperture` VALUES (103,'14BA101',1475.5,0.01905,1,2060,'caperture');
INSERT INTO `caperture` VALUES (105,'14BA159',1534.5,0.01905,1,2120,'caperture');
INSERT INTO `caperture` VALUES (106,'14BA201',1542.5,0.01905,1,2126,'caperture');
INSERT INTO `caperture` VALUES (108,'14BA259',1601.5,0.01905,1,2186,'caperture');
INSERT INTO `caperture` VALUES (109,'15BA101',1610.5,0.01905,1,2200,'caperture');
INSERT INTO `caperture` VALUES (111,'15BA159',1669.5,0.01905,1,2260,'caperture');
INSERT INTO `caperture` VALUES (112,'15BA201',1677.5,0.01905,1,2266,'caperture');
INSERT INTO `caperture` VALUES (114,'15BA259',1736.5,0.01905,1,2326,'caperture');
INSERT INTO `caperture` VALUES (115,'16BA101',1745.5,0.01905,1,2338,'caperture');
INSERT INTO `caperture` VALUES (117,'16BA159',1804.5,0.01905,1,2398,'caperture');
INSERT INTO `caperture` VALUES (118,'16BA201',1812.5,0.01905,1,2404,'caperture');
INSERT INTO `caperture` VALUES (120,'16BA259',1871.5,0.01905,1,2464,'caperture');
INSERT INTO `caperture` VALUES (121,'17BA101',1880.5,0.01905,1,2478,'caperture');
INSERT INTO `caperture` VALUES (123,'17BA159',1939.5,0.01905,1,2538,'caperture');
INSERT INTO `caperture` VALUES (124,'17BA201',1947.5,0.01905,1,2544,'caperture');
INSERT INTO `caperture` VALUES (126,'17BA259',2006.5,0.01905,1,2604,'caperture');
INSERT INTO `caperture` VALUES (127,'18BA101',2015.5,0.01905,1,2616,'caperture');
INSERT INTO `caperture` VALUES (129,'18BA159',2074.5,0.01905,1,2676,'caperture');
INSERT INTO `caperture` VALUES (130,'18BA201',2082.5,0.01905,1,2682,'caperture');
INSERT INTO `caperture` VALUES (132,'18BA259',2141.5,0.01905,1,2742,'caperture');
INSERT INTO `caperture` VALUES (133,'19BA101',2150.5,0.01905,1,2756,'caperture');
INSERT INTO `caperture` VALUES (135,'19BA157',2207.5,0.01905,1,2814,'caperture');
INSERT INTO `caperture` VALUES (136,'19BA201',2215.5,0.01905,1,2820,'caperture');
INSERT INTO `caperture` VALUES (138,'19BA257',2272.5,0.01905,1,2878,'caperture');
INSERT INTO `caperture` VALUES (139,'20BA101',2281.5,0.01905,1,2890,'caperture');
INSERT INTO `caperture` VALUES (141,'20BA157',2338.5,0.01905,1,2948,'caperture');
INSERT INTO `caperture` VALUES (142,'20BA201',2346.5,0.01905,1,2954,'caperture');
INSERT INTO `caperture` VALUES (144,'20BA257',2403.5,0.01905,1,3012,'caperture');
INSERT INTO `caperture` VALUES (145,'21BA101',2412.5,0.01905,1,3026,'caperture');
INSERT INTO `caperture` VALUES (147,'21BA157',2469.5,0.01905,1,3084,'caperture');
INSERT INTO `caperture` VALUES (148,'21BA201',2477.5,0.01905,1,3090,'caperture');
INSERT INTO `caperture` VALUES (150,'21BA257',2534.5,0.01905,1,3148,'caperture');
INSERT INTO `caperture` VALUES (151,'22BA101',2543.5,0.01905,1,3158,'caperture');
INSERT INTO `caperture` VALUES (153,'22BA157',2600.5,0.01905,1,3216,'caperture');
INSERT INTO `caperture` VALUES (154,'22BA201',2608.5,0.01905,1,3222,'caperture');
INSERT INTO `caperture` VALUES (156,'22BA257',2665.5,0.01905,1,3280,'caperture');
INSERT INTO `caperture` VALUES (157,'23BA101',2674.5,0.01905,1,3292,'caperture');
INSERT INTO `caperture` VALUES (159,'23BA157',2731.5,0.01905,1,3350,'caperture');
INSERT INTO `caperture` VALUES (160,'23BA201',2739.5,0.01905,1,3356,'caperture');
INSERT INTO `caperture` VALUES (162,'23BA257',2796.5,0.01905,1,3414,'caperture');
INSERT INTO `caperture` VALUES (163,'24BA101',2805.5,0.01905,1,3426,'caperture');
INSERT INTO `caperture` VALUES (165,'24BA155',2860.5,0.01905,1,3482,'caperture');
INSERT INTO `caperture` VALUES (166,'24BA201',2868.5,0.01905,1,3488,'caperture');
INSERT INTO `caperture` VALUES (168,'24BA255',2923.5,0.01905,1,3544,'caperture');
INSERT INTO `caperture` VALUES (169,'25BA101',2932.5,0.01905,1,3558,'caperture');
INSERT INTO `caperture` VALUES (171,'25BA155',2987.5,0.01905,1,3614,'caperture');
INSERT INTO `caperture` VALUES (172,'25BA201',2995.5,0.01905,1,3620,'caperture');
INSERT INTO `caperture` VALUES (174,'25BA255',3050.5,0.01905,1,3676,'caperture');
INSERT INTO `caperture` VALUES (175,'26BA101',3059.5,0.01905,1,3688,'caperture');
INSERT INTO `caperture` VALUES (177,'26BA155',3114.5,0.01905,1,3744,'caperture');
INSERT INTO `caperture` VALUES (178,'26BA201',3122.5,0.01905,1,3750,'caperture');
INSERT INTO `caperture` VALUES (180,'26BA255',3177.5,0.01905,1,3806,'caperture');
INSERT INTO `caperture` VALUES (181,'27BA101',3186.5,0.01905,1,3820,'caperture');
INSERT INTO `caperture` VALUES (183,'27BA155',3241.5,0.01905,1,3876,'caperture');
INSERT INTO `caperture` VALUES (184,'27BA201',3249.5,0.01905,1,3882,'caperture');
INSERT INTO `caperture` VALUES (186,'27BA255',3304.5,0.01905,1,3938,'caperture');
INSERT INTO `caperture` VALUES (187,'28BA101',3313.5,0.01905,1,3950,'caperture');
INSERT INTO `caperture` VALUES (189,'28BA155',3368.5,0.01905,1,4006,'caperture');
INSERT INTO `caperture` VALUES (190,'28BA201',3376.5,0.01905,1,4012,'caperture');
INSERT INTO `caperture` VALUES (192,'28BA255',3431.5,0.01905,1,4068,'caperture');
INSERT INTO `caperture` VALUES (193,'29BA101',3440.5,0.01905,1,4082,'caperture');
INSERT INTO `caperture` VALUES (195,'29BA155',3495.5,0.01905,1,4138,'caperture');
INSERT INTO `caperture` VALUES (196,'29BA201',3503.5,0.01905,1,4144,'caperture');
INSERT INTO `caperture` VALUES (198,'29BA255',3558.5,0.01905,1,4200,'caperture');
INSERT INTO `caperture` VALUES (199,'30BA101',3567.5,0.01905,1,4212,'caperture');
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INSERT INTO `caperture` VALUES (201,'30BA153',3620.5,0.01905,1,4266,'caperture');
INSERT INTO `caperture` VALUES (202,'30BA201',3628.5,0.01905,1,4272,'caperture');
INSERT INTO `caperture` VALUES (204,'30BA253',3681.5,0.01905,1,4326,'caperture');
INSERT INTO `caperture` VALUES (205,'31BA101',3690.5,0.01905,1,4340,'caperture');
INSERT INTO `caperture` VALUES (207,'31BA153',3743.5,0.01905,1,4394,'caperture');
INSERT INTO `caperture` VALUES (208,'31BA201',3751.5,0.01905,1,4400,'caperture');
INSERT INTO `caperture` VALUES (210,'31BA253',3804.5,0.01905,1,4454,'caperture');
INSERT INTO `caperture` VALUES (211,'32BA101',3813.5,0.01905,1,4466,'caperture');
INSERT INTO `caperture` VALUES (213,'32BA153',3866.5,0.01905,1,4520,'caperture');
INSERT INTO `caperture` VALUES (214,'32BA201',3874.5,0.01905,1,4526,'caperture');
INSERT INTO `caperture` VALUES (216,'32BA253',3927.5,0.01905,1,4580,'caperture');
INSERT INTO `caperture` VALUES (217,'33BA101',3936.5,0.01905,1,4594,'caperture');
INSERT INTO `caperture` VALUES (219,'33BA153',3989.5,0.01905,1,4648,'caperture');
INSERT INTO `caperture` VALUES (220,'33BA201',3997.5,0.01905,1,4654,'caperture');
INSERT INTO `caperture` VALUES (222,'33BA253',4050.5,0.01905,1,4708,'caperture');
INSERT INTO `caperture` VALUES (223,'34BA101',4059.5,0.01905,1,4720,'caperture');
INSERT INTO `caperture` VALUES (225,'34BA153',4112.5,0.01905,1,4774,'caperture');
INSERT INTO `caperture` VALUES (226,'34BA201',4120.5,0.01905,1,4780,'caperture');
INSERT INTO `caperture` VALUES (228,'34BA253',4173.5,0.01905,1,4834,'caperture');
INSERT INTO `caperture` VALUES (229,'35BA101',4182.5,0.01905,1,4848,'caperture');
INSERT INTO `caperture` VALUES (231,'35BA153',4235.5,0.01905,1,4902,'caperture');
INSERT INTO `caperture` VALUES (232,'35BA201',4243.5,0.01905,1,4908,'caperture');
INSERT INTO `caperture` VALUES (234,'35BA253',4296.5,0.01905,1,4962,'caperture');
INSERT INTO `caperture` VALUES (235,'36BA101',4305.5,0.01905,1,4974,'caperture');
INSERT INTO `caperture` VALUES (237,'36BA151',4356.5,0.01905,1,5026,'caperture');
INSERT INTO `caperture` VALUES (238,'36BA201',4364.5,0.01905,1,5032,'caperture');
INSERT INTO `caperture` VALUES (240,'36BA251',4415.5,0.01905,1,5084,'caperture');
INSERT INTO `caperture` VALUES (241,'37BA101',4424.5,0.01905,1,5098,'caperture');
INSERT INTO `caperture` VALUES (243,'37BA151',4475.5,0.01905,1,5150,'caperture');
INSERT INTO `caperture` VALUES (244,'37BA201',4483.5,0.01905,1,5156,'caperture');
INSERT INTO `caperture` VALUES (246,'37BA251',4534.5,0.01905,1,5208,'caperture');
INSERT INTO `caperture` VALUES (247,'38BA101',4543.5,0.01905,1,5218,'caperture');
INSERT INTO `caperture` VALUES (249,'38BA151',4594.5,0.01905,1,5270,'caperture');
INSERT INTO `caperture` VALUES (250,'38BA201',4602.5,0.01905,1,5276,'caperture');
INSERT INTO `caperture` VALUES (252,'38BA251',4653.5,0.01905,1,5328,'caperture');
INSERT INTO `caperture` VALUES (253,'39BA101',4662.5,0.01905,1,5342,'caperture');
INSERT INTO `caperture` VALUES (255,'39BA151',4713.5,0.01905,1,5394,'caperture');
INSERT INTO `caperture` VALUES (256,'39BA201',4721.5,0.01905,1,5400,'caperture');
INSERT INTO `caperture` VALUES (258,'39BA251',4772.5,0.01905,1,5452,'caperture');
INSERT INTO `caperture` VALUES (259,'40BA101',4781.5,0.01905,1,5464,'caperture');
INSERT INTO `caperture` VALUES (261,'40BA151',4832.5,0.01905,1,5516,'caperture');
INSERT INTO `caperture` VALUES (262,'40BA201',4840.5,0.01905,1,5522,'caperture');
INSERT INTO `caperture` VALUES (264,'40BA251',4891.5,0.01905,1,5574,'caperture');
INSERT INTO `caperture` VALUES (265,'41BA101',4900.5,0.01905,1,5588,'caperture');
INSERT INTO `caperture` VALUES (267,'41BA151',4951.5,0.01905,1,5640,'caperture');
INSERT INTO `caperture` VALUES (268,'41BA201',4959.5,0.01905,1,5646,'caperture');
INSERT INTO `caperture` VALUES (270,'41BA251',5010.5,0.01905,1,5698,'caperture');
INSERT INTO `caperture` VALUES (271,'42BA101',5019.5,0.01905,1,5710,'caperture');
INSERT INTO `caperture` VALUES (273,'42BA151',5070.5,0.01905,1,5762,'caperture');
INSERT INTO `caperture` VALUES (274,'42BA201',5078.5,0.01905,1,5768,'caperture');
INSERT INTO `caperture` VALUES (276,'42BA251',5129.5,0.01905,1,5820,'caperture');
INSERT INTO `caperture` VALUES (277,'43BA101',5138.5,0.01905,1,5834,'caperture');
INSERT INTO `caperture` VALUES (279,'43BA151',5189.5,0.01905,1,5886,'caperture');
INSERT INTO `caperture` VALUES (280,'43BA201',5197.5,0.01905,1,5892,'caperture');
INSERT INTO `caperture` VALUES (282,'43BA251',5248.5,0.01905,1,5944,'caperture');
INSERT INTO `caperture` VALUES (283,'44BA101',5257.5,0.01905,1,5956,'caperture');
INSERT INTO `caperture` VALUES (285,'44BA151',5308.5,0.01905,1,6008,'caperture');
INSERT INTO `caperture` VALUES (286,'44BA201',5316.5,0.01905,1,6014,'caperture');
INSERT INTO `caperture` VALUES (288,'44BA251',5367.5,0.01905,1,6066,'caperture');
INSERT INTO `caperture` VALUES (289,'45BA101',5376.5,0.01905,1,6078,'caperture');
INSERT INTO `caperture` VALUES (291,'45BA149',5425.5,0.01905,1,6128,'caperture');
INSERT INTO `caperture` VALUES (292,'45BA201',5433.5,0.01905,1,6134,'caperture');
INSERT INTO `caperture` VALUES (294,'45BA249',5482.5,0.01905,1,6184,'caperture');
INSERT INTO `caperture` VALUES (295,'46BA101',5491.5,0.01905,1,6196,'caperture');
INSERT INTO `caperture` VALUES (297,'46BA149',5540.5,0.01905,1,6246,'caperture');
INSERT INTO `caperture` VALUES (298,'46BA201',5548.5,0.01905,1,6252,'caperture');
INSERT INTO `caperture` VALUES (300,'46BA249',5597.5,0.01905,1,6302,'caperture');
INSERT INTO `caperture` VALUES (301,'47BA101',5606.5,0.01905,1,6314,'caperture');
INSERT INTO `caperture` VALUES (303,'47BA149',5655.5,0.01905,1,6364,'caperture');
INSERT INTO `caperture` VALUES (304,'47BA201',5663.5,0.01905,1,6370,'caperture');
INSERT INTO `caperture` VALUES (306,'47BA249',5712.5,0.01905,1,6420,'caperture');
INSERT INTO `caperture` VALUES (307,'48BA101',5721.5,0.01905,1,6430,'caperture');
INSERT INTO `caperture` VALUES (309,'48BA149',5770.5,0.01905,1,6480,'caperture');
INSERT INTO `caperture` VALUES (310,'48BA201',5778.5,0.01905,1,6486,'caperture');
INSERT INTO `caperture` VALUES (312,'48BA249',5827.5,0.01905,1,6535,'caperture');
CREATE TRIGGER update_rf_module_voltage after update of voltage_tmp on rf_module
begin
  update rf_module set
    operating_amplitude_fraction_tmp = on_off * amplitude_scale_cal *(
      (select c0_cal from diode where diode_id = diode.id) +
      (select c1_cal from diode where diode_id = diode.id) * voltage_tmp +
      (select c2_cal from diode where diode_id = diode.id) * power(voltage_tmp, 2.0) +
      (select c3_cal from diode where diode_id = diode.id) * power(voltage_tmp, 3.0) +
      (select c4_cal from diode where diode_id = diode.id) * power(voltage_tmp, 4.0)) / amplitude_design
  where rowid = new.rowid;
end;
```

```
CREATE TRIGGER update_rf_module_phase_shift after update of phase_shift_tmp on rf_module
begin
   update rf_gap set
      beam_phase_shift_model = ((select phase_shift_tmp from rf_module where rf_gap.module_id = id) +
      (select case when model_type = 'ccl_gap' then (select phase_offset_structure from ccl_tank where
      module_id = rf_gap.module_id and tank_id = rf_gap.tank_id) else 0.0 end)) / 180.0 * pi()
      where module_id = new.rowid;
end;
CREATE TRIGGER update_rf_module_phase_offset after update of phase_offset_cal on rf_module
begin
   update rf_module set
      phase_shift_tmp = (phase_offset_cal + (select value from epics_channel where
      rf_module.phase_channel = epics_channel.id)) where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_delay after update of on_off on rf_module
begin
   update rf_module set
      voltage_tmp = voltage_cal * (select value from epics_channel where rf_module.amplitude_channel = id)
      where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_amplitude_tilt after update of amplitude_tilt_cal on rf_module
begin
   update rf_gap set
      amplitude_tilt_tmp = (select amplitude_tilt_cal from rf_module where rf_gap.module_id = id) *
      (1.0 - 2.0/((select count(*) from rf_gap where module_id = new.rowid) - 1) * (cell_id - 1))
      where module_id = new.rowid;
end;
CREATE TRIGGER update_rf_module_amplitude_scale after update of amplitude_scale_cal on rf_module
begin
   update rf_module set
      operating_amplitude_fraction_tmp = on_off * amplitude_scale_cal *(
          (select c0_cal from diode where diode_id = diode.id) +
          (select c1_cal from diode where diode_id = diode.id) * voltage_tmp +
          (select c2_cal from diode where diode_id = diode.id) * power(voltage_tmp, 2.0) +
          (select c3_cal from diode where diode_id = diode.id) * power(voltage_tmp, 3.0) +
          (select c4_cal from diode where diode_id = diode.id) * power(voltage_tmp, 4.0)) /amplitude_design
      where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_module_amplitude after update of operating_amplitude_fraction_tmp on rf_module
begin
   update rf_gap set
      amplitude_tmp = amplitude_design * (select operating_amplitude_fraction_tmp
      from rf_module where rf_gap.module_id = id) where module_id = new.rowid;
   update ccl_tank set
      avg_phase_design = (select avg(ref_phase_design) from rf_gap where module_id = ccl_tank.module_id and
      tank_id = ccl_tank.tank_id) where module_id = new.rowid;
   update ccl_tank set
      avg_phase_tmp = -acos(cos(avg_phase_design) /(select case when new.operating_amplitude_fraction_tmp = 0.0
      then 1.0 else new.operating_amplitude_fraction_tmp end)) where module_id = new.rowid;
end;
CREATE TRIGGER update_rf_gap_amplitude_tmp after update of amplitude_tmp on rf_gap
begin
   update rf_gap set
      amplitude_model = amplitude_tmp * (amplitude_tilt_tmp + 1.0) where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_gap_amplitude_tilt after update of amplitude_tilt_tmp on rf_gap
begin
   update rf_gap set
      amplitude_model = amplitude_tmp * (amplitude_tilt_tmp + 1.0) where rowid = new.rowid;
end;
CREATE TRIGGER update_rf_gap_amplitude_model after update of amplitude_model on rf_gap
begin
   update rf_gap set
      ref_phase_model = -acos(cos(ref_phase_design) * amplitude_design/
      (select case when amplitude_model > 0.0 and amplitude_design * cos(ref_phase_design) /
      amplitude_model <= 1.0 then amplitude_model else amplitude_design end))
      where rowid = new.rowid and model_type = 'dtl_gap';
end;
CREATE TRIGGER update_epics_txt_channel after update of value_txt on epics_channel
begin
   update rf_module set
      on_off = (select case when (select value_txt from epics_channel where rf_module.delay_channel = id) = 'YES' then 0 else 1 end)
      where exists(select * from epics_channel where rf_module.delay_channel = new.rowid);
end;
CREATE TRIGGER update_epics_numeric_channel after update of value on epics_channel
begin
   update epics_channel set
      update_time = datetime('now', 'localtime') where rowid = new.rowid;
-- quad
   update quad set
      polarity_design = (select case when new.value >= 0.0 then 1.0 else -1.0 end)
      where new.value_type = 'DVM' and quad.channel = new.rowid;
   update quad set
      gradient_model= polarity_design*(((select a0_cal from quad_family mf where quad.family_cal = mf.id)+
              (select a1_cal from quad_family mf where quad.family_cal = mf.id)*
              ((select value from epics_channel where quad.channel=id)-shunt_cal)+
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                    (select a2_cal from quad_family mf where quad.family_cal = mf.id)*
                    power(((select value from epics_channel where quad.channel=id)-shunt_cal), 2.0)+
                    (select a3_cal from quad_family mf where quad.family_cal = mf.id)*
                    power(((select value from epics_channel where quad.channel=id)-shunt_cal), 3.0)+
                    (select a4_cal from quad_family mf where quad.family_cal = mf.id)*
                    power(((select value from epics_channel where quad.channel=id)-shunt_cal), 4.0)+
                    (select a5_cal from quad_family mf where quad.family_cal = mf.id)*
                    power(((select value from epics_channel where quad.channel=id)-shunt_cal), 5.0))/
                    (select l_eff_cal from quad_family mf where quad.family_cal = mf.id))
    where exists(select * from epics_channel where quad.channel = new.rowid);
-- rf amplitude
  update rf_module set
    voltage_tmp = voltage_cal * (select value from epics_channel where rf_module.amplitude_channel = id)
    where exists(select * from epics_channel where rf_module.amplitude_channel = new.rowid);
-- rf phase
  update rf_module set
    phase_shift_tmp = phase_offset_cal + (select value from epics_channel where
      rf_module.phase_channel = id) + (select value from epics_channel where
      rf_module.phase_master_channel = id)
    where exists(select * from epics_channel where rf_module.phase_channel = new.rowid or
      rf_module.phase_master_channel = new.rowid);
-- update rf_module set
--    phase_shift_tmp = phase_offset_cal + (select value from epics_channel where
--      rf_module.phase_channel = id) + (select value from epics_channel where
--      lcs_name = 'MRPH001D01')
--    where exists(select * from epics_channel where rf_module.phase_channel = new.rowid) or
--      new.lcs_name = 'MRPH001D01';
-- rf on/off
  update rf_module set
    on_off = (select case when (select value from epics_channel where rf_module.delay_channel = id) = 1 then 0 else 1 end)
    where exists(select * from epics_channel where rf_module.delay_channel = new.rowid);
  update epics_channel set
    value_txt = (select case when value = 1 then 'YES' else 'NO' end) where rowid = new.rowid and value_type = 'delay';
end;
CREATE TRIGGER update_ccl_tank_tp after update of tp_design on ccl_tank
begin
  update rf_gap set
    tp_model = (select tp_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_t after update of t_design on ccl_tank
begin
  update rf_gap set
    t_model = (select t_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_sp after update of sp_design on ccl_tank
begin
  update rf_gap set
    sp_model = (select sp_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_phase_offset after update of phase_offset_structure on ccl_tank
begin
  update rf_gap set
    beam_phase_shift_model = ((select phase_shift_tmp from rf_module where rf_gap.module_id = id) +
    (select case when model_type = 'ccl_gap' then (select phase_offset_structure from ccl_tank where
    module_id = rf_gap.module_id and tank_id = rf_gap.tank_id) else 0.0 end)) / 180.0 * pi()
    where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_cell_length after update of cell_length_design on ccl_tank
begin
  update rf_gap set
    length_model = (select cell_length_design from ccl_tank where module_id = rf_gap.module_id
    and tank_id = rf_gap.tank_id) where module_id = new.module_id and tank_id = new.tank_id;
end;
CREATE TRIGGER update_ccl_tank_avg_phase after update of avg_phase_tmp on ccl_tank
begin
  update rf_gap set
    ref_phase_model = ref_phase_design + (new.avg_phase_tmp - new.avg_phase_design)
    where new.module_id = module_id and new.tank_id = tank_id;
end;
CREATE TRIGGER insert_epics_channel after insert on epics_channel
begin
  update epics_channel set update_time = datetime('now', 'localtime') where rowid = new.rowid;
end;
CREATE VIEW linac as
  select view_index, name, model_type, model_index from quad union
  select view_index, name, model_type, model_index from rf_gap union
  select view_index, name, model_type, model_index from drift union
  select view_index, name, model_type, model_index from diagnostics union
  select view_index, name, model_type, model_index from caperture;
CREATE VIEW channel_list as
  select view_index, name, model_type, (select lcs_name from epics_channel where id = amplitude_channel) as channel1,
    (select lcs_name from epics_channel where id = phase_channel) as channel2,
    (select lcs_name from epics_channel where id = delay_channel) as channel3,
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    (select lcs_name from epics_channel where id = phase_master_channel) as channel4 from rf_module union
  select view_index, name, model_type, (select lcs_name from epics_channel where id = channel), null, null, null from quad;
COMMIT;
```