Final Project

Shivani Haridas Pitla

2022-12-07

```r
#installing and calling the required packages
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.2.2
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.3.6      v purrr   0.3.4
## v tibble  3.1.8      v dplyr   1.0.10
## v tidyr   1.2.0      v stringr 1.4.1
## v readr   2.1.2      v forcats 0.5.2
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```r
library(ggplot2)
library(factoextra)
```

```
## Warning: package 'factoextra' was built under R version 4.2.2
```

```
## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa
```

```r
library(ISLR)
library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'
##
## The following object is masked from 'package:dplyr':
##
##     combine
```

```r
library(cluster)
library(dplyr)
library(caret)
```

```
## Loading required package: lattice
##
## Attaching package: 'caret'
```

```
##
## The following object is masked from 'package:purrr':
##
##     lift
```

```
#Importing the data set
MFCI=read.csv("C:/Users/shiva/Downloads/fuel_receipts_costs_eia923.csv")
```

```
#choosing the variables
MFCI1<-MFCI[,c(11,15,16,17,18,19,20)]
str(MFCI1)
```

```
## 'data.frame':    608565 obs. of  7 variables:
##  $ fuel_group_code    : chr  "coal" "coal" "natural_gas" "coal" ...
##  $ fuel_received_units: num  259412 52241 2783619 25397 764 ...
##  $ fuel_mmbtu_per_unit: num  23.1 22.8 1.04 24.61 24.45 ...
##  $ sulfur_content_pct : num  0.49 0.48 0 1.69 0.84 1.54 0 2.16 1.24 1.9 ...
##  $ ash_content_pct    : num  5.4 5.7 0 14.7 15.5 14.6 0 15.4 11.9 15.4 ...
##  $ mercury_content_ppm: num  NA NA NA NA NA NA NA NA NA NA ...
##  $ fuel_cost_per_mmbtu: num  2.13 2.12 8.63 2.78 3.38 ...
```

```
#checking if there are any NA's
colSums(is.na(MFCI1))
```

```
##     fuel_group_code fuel_received_units fuel_mmbtu_per_unit  sulfur_content_pct
##                   0                   0                   0                   0
##     ash_content_pct mercury_content_ppm fuel_cost_per_mmbtu
##                   0              289482              200240
```

```
#Imputing NA values
MFCI1$fuel_cost_per_mmbtu[is.na(MFCI1$fuel_cost_per_mmbtu)]<-
  mean(MFCI1$fuel_cost_per_mmbtu, na.rm = T)
MFCI1$mercury_content_ppm[is.na(MFCI1$mercury_content_ppm)]<-
  mean(MFCI1$mercury_content_ppm, na.rm = T)
colMeans(is.na(MFCI1))
```

```
##     fuel_group_code fuel_received_units fuel_mmbtu_per_unit  sulfur_content_pct
##                   0                   0                   0                   0
##     ash_content_pct mercury_content_ppm fuel_cost_per_mmbtu
##                   0                   0                   0
```

```
#Sampling 2% of the data from the whole dataset
set.seed(1211)
MFCI1 <-MFCI1%>%sample_frac(0.02)
```

```
#partitioning the data
set.seed(1000)
MFCI_part <- createDataPartition(MFCI1$fuel_cost_per_mmbtu,p=.75, list = FALSE)
Train <- MFCI1[MFCI_part,]
Test <- MFCI1[-MFCI_part,]
```

```
#Data Normalization
df <- Train[,-c(1)]
normmodel_MFCI1 <- preProcess(df,
                method=c("center","scale"))
trainnorm_MFCI1<-predict(normmodel_MFCI1,df)
```

```
#Finding the optimal "k"
A<-fviz_nbclust(trainnorm_MFCI1,kmeans,method="silhouette")
A
```


Optimal number of clusters

```
B<-fviz_nbclust(trainnorm_MFCI1,kmeans,method="wss")
B
```

Optimal number of clusters
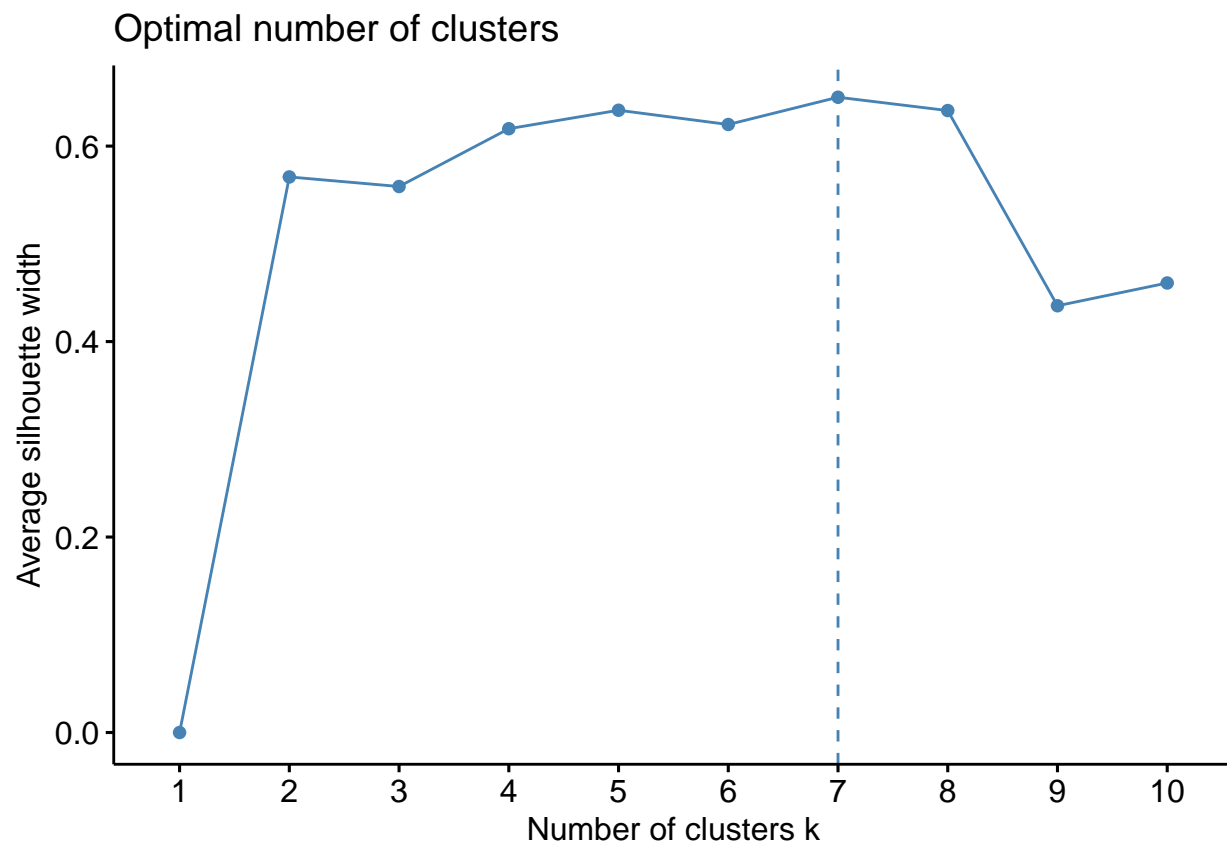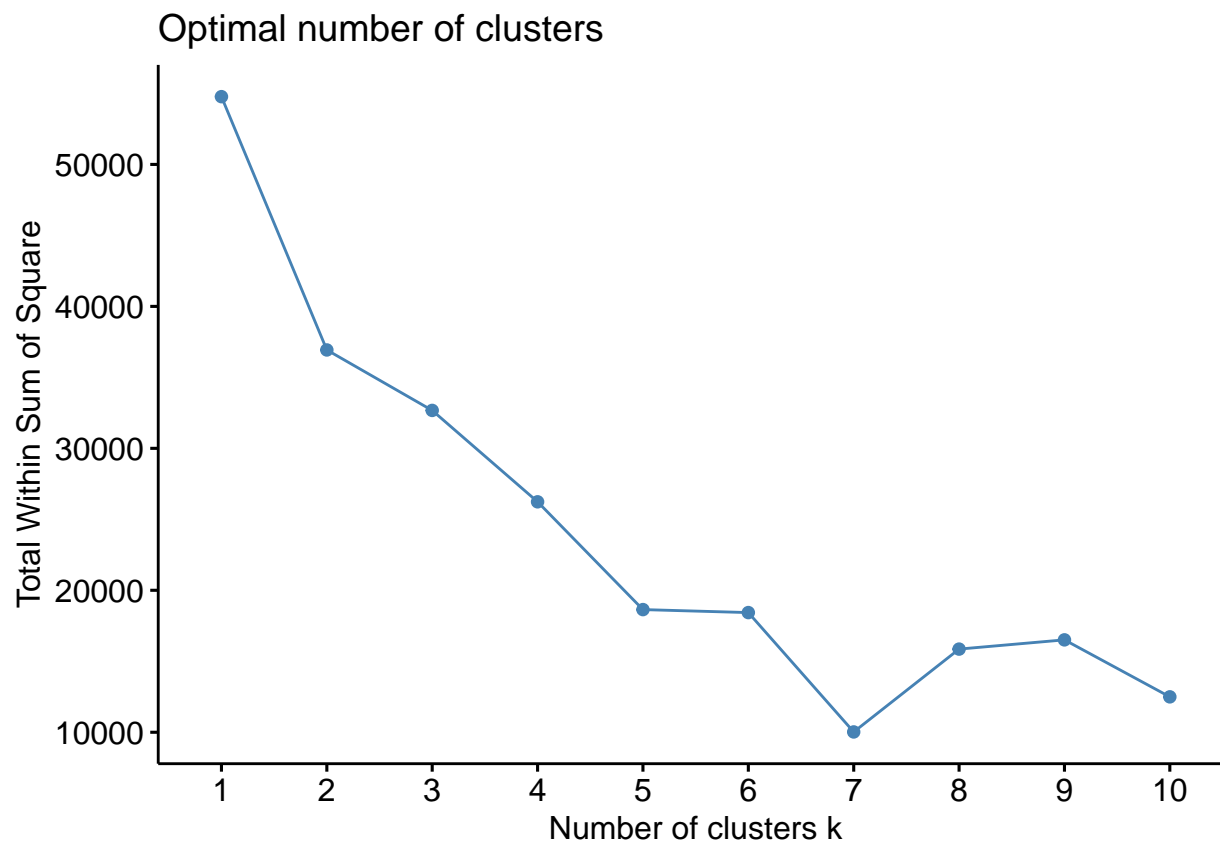

```
# computing K-means clustering for K=7
kmeans.1 <- kmeans(trainnorm_MFCI1, centers = 7, nstart = 25)
cluster <- kmeans.1$cluster

#binding the training set with the cluster
mfci_bind<-cbind(Train,cluster)
head(mfci_bind)
```

```
##   fuel_group_code fuel_received_units fuel_mmbtu_per_unit sulfur_content_pct
## 1     natural_gas               81241               1.036               0.00
## 2     natural_gas                1760               1.031               0.00
## 4            coal               42093              17.674               0.21
## 6     natural_gas              314074               1.054               0.00
## 7     natural_gas              284297               1.033               0.00
## 8     natural_gas                 503               1.000               0.00
##   ash_content_pct mercury_content_ppm fuel_cost_per_mmbtu cluster
## 1             0.0         0.008048896               5.470       5
## 2             0.0         0.000000000               1.963       5
## 4             4.5         0.008048896               1.642       2
## 6             0.0         0.000000000               2.687       5
## 7             0.0         0.000000000               4.930       5
## 8             0.0         0.008048896               5.270       5
```

```
#plotting the clusters
mfci_plot<-fviz_cluster(kmeans.1, data = trainnorm_MFCI1)+ggtitle("k=7")
mfci_plot
```

k=7
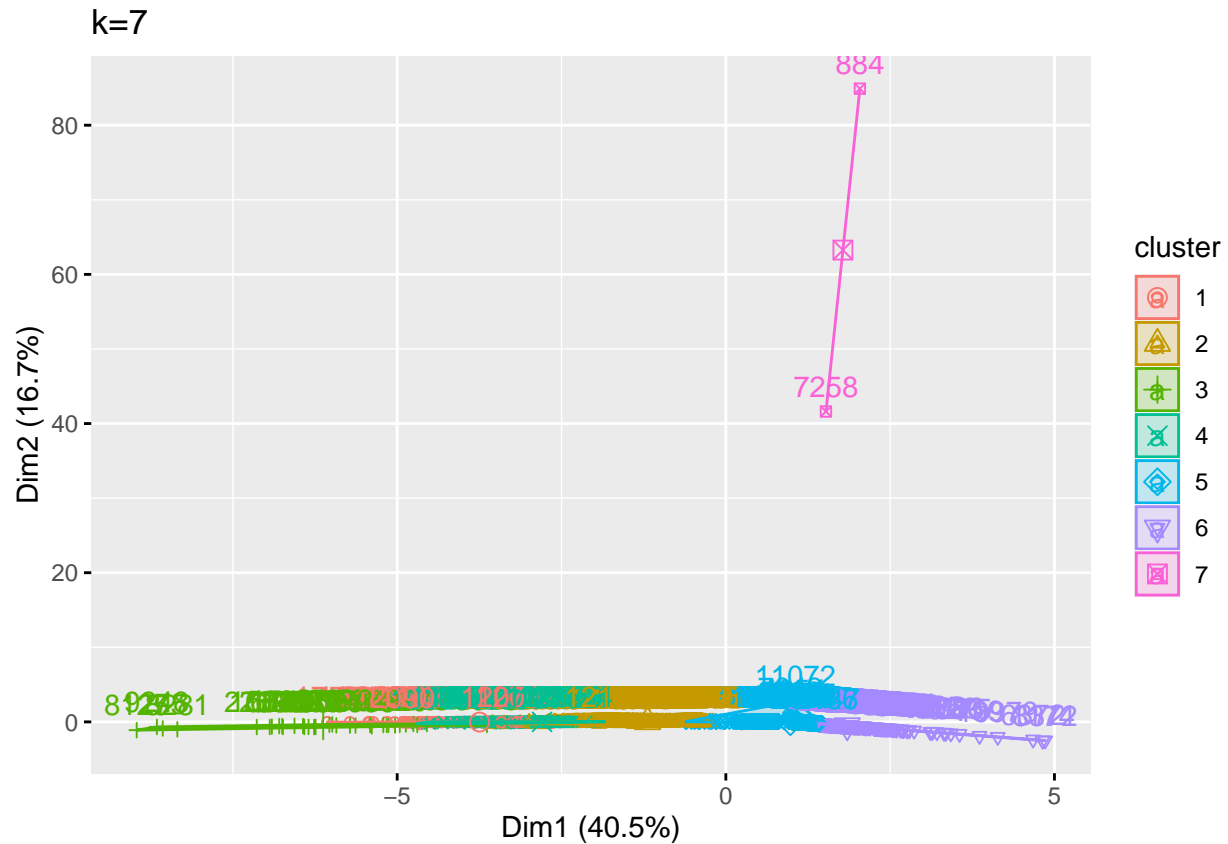

```
#calculating the averages
mfci_med<-mfci_bind%>%group_by(cluster)%>%
  summarize(avrg_units=median(fuel_received_units),
            avrg_cost=median(fuel_cost_per_mmbtu),
            avrg_mmbtu=median(fuel_mmbtu_per_unit),
            avrg_sulfur=median(sulfur_content_pct),
            avrg_ash=median(ash_content_pct),
            avrg_mercury=median(mercury_content_ppm))
mfci_med
```

```
## # A tibble: 7 x 7
##   cluster avrg_units avrg_cost avrg_mmbtu avrg_sulfur avrg_ash avrg_mercury
##     <int>      <dbl>     <dbl>      <dbl>       <dbl>    <dbl>        <dbl>
## 1       1       2575     14.2       13.3       0.825     40.2      0.00805
## 2       2      25568      2.68       18.4       0.46       6.6      0.00805
## 3       3       4854     14.2       21.7        2.08     20.7      0.39
## 4       4      20867      2.7        23.7        2.92      8.8      0.00805
## 5       5      15087      6.95        1.03       0         0        0
## 6       6   2412168.     14.2         1.03       0         0        0
## 7       7          4   63510.         1          0         0        0
```

```
#Binding cluster and fuel group for interpretations
mfci_bind %>% select(fuel_group_code,cluster) %>% group_by(cluster,fuel_group_code) %>% count()
```

```
## # A tibble: 12 x 3
## # Groups:   cluster, fuel_group_code [12]
##    cluster fuel_group_code     n
##      <int> <chr>           <int>
## 1        1 coal              122
## 2        2 coal             2188
## 3        3 coal               33
## 4        4 coal              951
## 5        4 petroleum_coke     51
## 6        5 coal                1
## 7        5 natural_gas      4477
## 8        5 other_gas          21
## 9        5 petroleum         846
## 10       6 natural_gas       436
## 11       6 other_gas           2
## 12       7 natural_gas         2
```

mfci_bind

```
##       fuel_group_code fuel_received_units fuel_mmbtu_per_unit
## 1         natural_gas               81241               1.036
## 2         natural_gas                1760               1.031
## 4                coal               42093              17.674
## 6         natural_gas              314074               1.054
## 7         natural_gas              284297               1.033
## 8         natural_gas                 503               1.000
## 10               coal               62489              16.660
## 11          petroleum                 136               5.850
## 13               coal               28226              17.283
## 15               coal               10535              24.600
## 17               coal               27177              18.044
## 18          petroleum                   2               5.670
## 19               coal              184916              16.814
## 20        natural_gas             5235092               1.018
## 21        natural_gas               10000               1.007
## 22        natural_gas                4277               1.020
## 23               coal               16802              17.780
## 24        natural_gas               11221               1.035
## 25        natural_gas               25628               1.050
## 26        natural_gas               16257               1.009
## 27               coal               10923              25.570
## 28        natural_gas               36590               1.027
## 29               coal                5264              22.507
## 30               coal              130290              17.667
## 31               coal                1062              23.250
## 34               coal               35177              21.970
## 35               coal                1526              16.800
## 36               coal                7515              24.810
## 38        natural_gas               19716               1.066
## 39        natural_gas                8823               1.030
## 40               coal               28536              25.161
## 42               coal               24404              21.716
## 43          petroleum                2678               5.920
## 45        natural_gas                3771               1.030
```

```
## 47               coal          66821          22.850
## 48        natural_gas            450           1.040
## 50               coal          15356          16.914
## 51        natural_gas           6753           1.020
## 52        natural_gas           6378           1.034
## 53        natural_gas           1561           1.030
## 54        natural_gas            432           1.014
## 56        natural_gas          26869           1.032
## 57               coal         237760          16.630
## 58        natural_gas        1067947           1.019
## 59               coal         252191          19.452
## 60        natural_gas            526           1.020
## 61          petroleum          94791           5.852
## 65               coal          15322          16.908
## 67        natural_gas           9629           1.053
## 68     petroleum_coke           2979          29.020
## 69          petroleum          10178           5.920
## 70        natural_gas         181373           1.020
## 72        natural_gas         753972           1.038
## 73        natural_gas           9075           1.020
## 75        natural_gas          63544           1.011
## 76        natural_gas          99980           0.990
## 77          petroleum             44           5.758
## 78               coal         119106          25.242
## 79        natural_gas           3525           0.997
## 81        natural_gas         356271           1.000
## 83          petroleum            441           5.796
## 84        natural_gas           3454           1.000
## 85        natural_gas          10000           1.023
## 86               coal         110771          17.334
## 87               coal          16984          25.800
## 88        natural_gas        2391261           1.042
## 89               coal         127719          17.640
## 90        natural_gas          95175           1.000
## 92               coal          14232          17.690
## 93        natural_gas         319223           1.035
## 94               coal         158734          17.090
## 97        natural_gas             11           1.020
## 98        natural_gas        2322584           1.015
## 99        natural_gas           8640           1.012
## 102         petroleum          70130           6.300
## 103       natural_gas           1714           1.000
## 104       natural_gas            392           1.032
## 105       natural_gas          70588           1.030
## 107       natural_gas         290674           1.015
## 108       natural_gas         805430           1.003
## 109              coal          14430          17.822
## 110              coal           1201          15.080
## 111       natural_gas         842586           1.040
## 112       natural_gas         159685           1.077
## 113       natural_gas         385325           1.102
## 114              coal          15799          17.814
## 116              coal          43814          17.000
## 117       natural_gas             72           1.000
```

```
## 118            coal      139767      16.820
## 119            coal       63861      17.600
## 122            coal       20900      24.844
## 123     natural_gas      731302       1.034
## 124     natural_gas      364390       1.032
## 125     natural_gas      136321       1.021
## 126     natural_gas        4471       1.020
## 128     natural_gas      329469       1.035
## 129            coal       24889      24.054
## 130            coal       75900      24.492
## 132            coal       10735      25.024
## 134     natural_gas        6841       1.030
## 135     natural_gas        1294       1.230
## 136       petroleum         379       5.800
## 137     natural_gas          16       1.010
## 139            coal        5493      12.860
## 140            coal      360786      17.566
## 141     natural_gas      250085       1.014
## 142     natural_gas        6169       1.027
## 143     natural_gas      180914       1.060
## 144     natural_gas      102740       1.095
## 145            coal       13524      17.744
## 147            coal         743      21.700
## 148     natural_gas      142000       1.008
## 149     natural_gas        4860       1.090
## 150     natural_gas       64309       1.044
## 151            coal      163497      17.046
## 153            coal       25715      24.148
## 154     natural_gas        2360       1.052
## 155     natural_gas      431621       1.007
## 156            coal        3328      22.590
## 158            coal       20900      26.634
## 160     natural_gas         406       1.027
## 162     natural_gas        5945       1.000
## 163            coal        4079      17.850
## 165            coal       99675      20.160
## 166     natural_gas          12       1.000
## 167     natural_gas        1311       1.037
## 168     natural_gas      981668       1.010
## 169     natural_gas      217925       1.000
## 170            coal       65647      23.800
## 171     natural_gas        8834       1.110
## 173     natural_gas      249792       1.004
## 175     natural_gas      146691       1.000
## 176       petroleum         357       5.770
## 178     natural_gas       36967       1.047
## 179     natural_gas        2434       1.081
## 181     natural_gas        2130       1.033
## 182            coal        2720      10.550
## 183     natural_gas       10224       1.018
## 184            coal      247339      16.626
## 186     natural_gas           6       1.022
## 187     natural_gas      273123       1.079
## 188     natural_gas      413220       1.016
```

```
## 189         coal        56941     16.014
## 191  natural_gas       768283      1.055
## 192  natural_gas         5271      1.028
## 193  natural_gas      1820478      1.000
## 194         coal         2102     23.462
## 195  natural_gas        14986      1.070
## 196  natural_gas       461402      1.008
## 198  natural_gas         8899      1.028
## 200         coal        30521     17.800
## 203    petroleum         1426      5.880
## 204         coal         2875     23.080
## 205         coal        39119     22.430
## 206         coal        64093     23.500
## 207    petroleum           34      5.825
## 208    petroleum        12032      5.729
## 209  natural_gas       335777      1.028
## 210  natural_gas         1207      1.000
## 211  natural_gas       182518      1.035
## 212         coal         4998     24.000
## 214  natural_gas         2441      1.017
## 215  natural_gas         2505      1.026
## 216         coal        29944     18.130
## 217  natural_gas       333885      1.038
## 218  natural_gas      3995355      1.020
## 220         coal        27487     23.840
## 221  natural_gas        89820      1.029
## 222  natural_gas      1094419      1.045
## 223         coal        52224     22.015
## 225  natural_gas        14518      1.049
## 226         coal        20808     21.522
## 228         coal        31400     24.216
## 230  natural_gas      1989389      1.029
## 231         coal        11012     22.392
## 233         coal       167318     16.040
## 235  natural_gas       533967      1.029
## 236  natural_gas        21199      1.039
## 238  natural_gas       154932      1.018
## 240    petroleum         4821      5.800
## 241         coal        12165     25.450
## 242  natural_gas         1378      1.073
## 243    petroleum          114      5.825
## 244  natural_gas          320      1.025
## 248  natural_gas          890      1.010
## 249  natural_gas          332      1.028
## 250  natural_gas         1093      1.047
## 252  natural_gas        13839      1.063
## 253    petroleum           18      5.800
## 254         coal       107013     26.033
## 255         coal        17550     26.013
## 256  natural_gas        19132      1.048
## 257         coal       177265     16.882
## 259    petroleum         1476      6.300
## 260         coal         2875     26.000
## 261  natural_gas           88      1.020
```

```
## 262          coal        2890    23.770
## 264     petroleum         714     5.754
## 265   natural_gas       11486     1.024
## 266          coal      106078    23.411
## 267   natural_gas      204049     1.012
## 268   natural_gas        5422     1.000
## 269          coal       28901    17.881
## 270   natural_gas        1120     1.000
## 271          coal       38841    24.430
## 272          coal       53331    17.400
## 273   natural_gas         150     1.000
## 275          coal        4854    15.242
## 276   natural_gas       29002     1.000
## 278          coal       16294    17.110
## 279   natural_gas        1055     1.021
## 280     petroleum         178     5.800
## 281   natural_gas       12473     1.014
## 282   natural_gas      340861     1.230
## 287          coal        3738    15.020
## 288          coal       15632    17.504
## 289          coal      121345    24.200
## 291          coal       22954    24.666
## 292   natural_gas      349269     1.041
## 294          coal       46294    22.922
## 295   natural_gas       54926     1.030
## 297     petroleum        2636     5.900
## 298   natural_gas     6083427     1.051
## 300   natural_gas     2904867     1.029
## 302          coal       14101    25.870
## 303   natural_gas      225935     1.030
## 305          coal        9831    21.840
## 306   natural_gas      691067     1.032
## 308   natural_gas      160682     1.000
## 310          coal       67851    23.550
## 312   natural_gas     2241546     1.011
## 313     petroleum         153     5.670
## 316          coal      115016    17.680
## 317          coal         879    23.720
## 318   natural_gas        1667     1.000
## 320          coal       19997    17.495
## 321          coal       21455    25.905
## 322          coal       84537    26.000
## 323          coal        3547    23.430
## 324     petroleum        1905     5.880
## 326   natural_gas        6296     1.041
## 330          coal        1259    15.000
## 332   natural_gas       18461     1.050
## 333          coal       22504    23.340
## 334   natural_gas       53306     1.032
## 335          coal        8020    24.960
## 336   natural_gas      561590     1.017
## 337   natural_gas     1339210     1.035
## 339   natural_gas      134264     1.039
## 340   natural_gas        1576     1.030
```

```
## 341       natural_gas          44442         1.023
## 343       natural_gas         132732         1.000
## 344       natural_gas            120         1.020
## 346       natural_gas           1510         1.014
## 347              coal          21179        17.000
## 348       natural_gas          96454         1.025
## 349       natural_gas            474         1.026
## 350       natural_gas          38517         1.027
## 351       natural_gas          41713         1.038
## 352       natural_gas         295727         1.021
## 353         petroleum          34239         5.880
## 354              coal           8000        26.180
## 355         petroleum             48         5.800
## 356              coal           7944        23.890
## 358              coal          35729        22.574
## 359         petroleum            178         5.820
## 360              coal          22066        23.769
## 361              coal          15930        16.816
## 363              coal          85289        17.310
## 364         petroleum            648         5.880
## 366              coal         126661        17.144
## 368       natural_gas          21525         1.020
## 369       natural_gas        1329173         1.054
## 370       natural_gas           4605         1.000
## 371       natural_gas         280626         1.038
## 374       natural_gas         283973         1.053
## 375       natural_gas        4422744         1.049
## 376       natural_gas           3877         1.025
## 377       natural_gas           1025         1.135
## 378              coal          88134        23.142
## 380       natural_gas         244060         1.017
## 381              coal          19987        24.900
## 382              coal           7767        22.600
## 383              coal          15235        23.660
## 385       natural_gas          73513         1.010
## 386       natural_gas            215         1.000
## 388       natural_gas           3210         1.020
## 389       natural_gas          83663         1.023
## 390              coal           9000        24.730
## 391              coal          52849        25.200
## 392       natural_gas          31000         1.025
## 393         petroleum           3029         5.800
## 395              coal         205325        19.532
## 396       natural_gas            109         1.022
## 397              coal          17240        24.410
## 398       natural_gas            371         1.016
## 399              coal         113799        17.900
## 400              coal          65810        17.036
## 403       natural_gas          44697         1.028
## 404              coal          48296        26.120
## 405       natural_gas        1190772         1.144
## 407       natural_gas          80692         1.012
## 409       natural_gas           9176         1.000
## 411              coal           3300        24.412
```

```
## 414      natural_gas       86935       1.042
## 416      natural_gas      103335       1.000
## 417        petroleum         900       5.825
## 418      natural_gas        9771       1.099
## 419             coal        1600      24.522
## 425             coal       12576      23.990
## 426      natural_gas        6827       1.040
## 427      natural_gas        4860       1.000
## 428      natural_gas          25       1.026
## 429      natural_gas       28439       1.035
## 430             coal       31941      17.396
## 431      natural_gas      323535       1.030
## 432      natural_gas      892088       1.007
## 433      natural_gas     3035231       1.030
## 434             coal        5915      25.890
## 436             coal        3105      25.166
## 437             coal        9187      24.400
## 438        petroleum        1550       5.755
## 439      natural_gas       14439       1.025
## 441      natural_gas      915431       1.016
## 442        petroleum          89       5.754
## 443             coal       97994      17.617
## 445             coal       27849      17.600
## 449             coal        1289      12.400
## 450             coal       44025      17.930
## 453      natural_gas         908       1.040
## 454      natural_gas           7       1.074
## 455      natural_gas       16332       1.048
## 458      natural_gas     1541521       1.019
## 460      natural_gas         563       1.220
## 461             coal       10007      23.956
## 462             coal        8255      22.768
## 463      natural_gas      744216       1.101
## 465        petroleum        1789       5.796
## 466      natural_gas         211       1.020
## 467             coal       16253      23.918
## 469             coal      137008      21.920
## 470             coal       54813      17.640
## 471      natural_gas        3891       1.028
## 473      natural_gas       12702       1.044
## 474        petroleum        1775       5.800
## 475      natural_gas        4960       1.032
## 476      natural_gas      908514       1.030
## 479      natural_gas       43330       1.010
## 481             coal       72487      16.818
## 482             coal       19606      24.240
## 484      natural_gas      676238       1.010
## 485      natural_gas          15       1.000
## 486        petroleum        1081       5.820
## 488             coal       12124      23.970
## 489        petroleum        1728       5.730
## 490             coal       12807      25.780
## 492      natural_gas        2553       1.000
## 494      natural_gas        1258       1.000
```

```
## 496      natural_gas       46329       1.030
## 497      natural_gas       26908       1.022
## 498       petroleum         3105       5.790
## 499      natural_gas      271348       1.015
## 500      natural_gas      282080       1.009
## 501      natural_gas      281827       1.029
## 503             coal       12008      26.362
## 505             coal      126616      16.070
## 506      natural_gas        3914       1.000
## 507             coal       79618      17.986
## 508      natural_gas        1708       1.030
## 510             coal       13480      25.600
## 511             coal       91248      22.268
## 512      natural_gas       29253       1.032
## 513      natural_gas        1476       1.061
## 514      natural_gas      121588       1.012
## 516             coal       11820      24.560
## 517      natural_gas      138575       1.025
## 518             coal       41271      17.934
## 519             coal       17755      17.714
## 520      natural_gas        1014       1.000
## 521      natural_gas        2831       1.030
## 522      natural_gas      165902       1.002
## 524             coal       79227      23.100
## 525             coal       63295      24.093
## 526             coal       19222      24.500
## 527             coal       29496      26.650
## 528      natural_gas       42081       1.036
## 529      natural_gas        1496       1.003
## 530       petroleum            5       5.880
## 531      natural_gas      511886       1.042
## 532      natural_gas       25461       1.027
## 533             coal      307400      17.370
## 534       petroleum            7       5.850
## 535             coal       12427      24.643
## 537             coal       28654      17.804
## 538      natural_gas      233474       1.061
## 540             coal       28699      23.950
## 541      natural_gas      128314       1.024
## 544             coal       11507      23.722
## 545             coal        6999      25.524
## 546             coal       11282      20.570
## 548             coal         281      15.360
## 550             coal       46199      22.100
## 551      natural_gas        8616       1.021
## 552             coal        1233      17.290
## 553      natural_gas      274514       0.996
## 554             coal         586      23.830
## 555             coal       16120      17.720
## 556       petroleum          357       5.754
## 557             coal       33345      17.040
## 558      natural_gas        8218       1.020
## 560      natural_gas       63641       1.006
## 561             coal       30441      17.340
```

```
## 562     natural_gas         199358          1.020
## 566            coal          29671         16.910
## 567     natural_gas           6247          1.020
## 568       petroleum           1405          5.825
## 569            coal          14989         25.800
## 570     natural_gas          54628          1.030
## 571     natural_gas         137366          1.024
## 572     natural_gas          49224          1.040
## 573     natural_gas          98833          1.000
## 575            coal          94397         16.868
## 578       petroleum           1098          6.200
## 579     natural_gas         158717          1.030
## 581     natural_gas        2637777          1.026
## 582     natural_gas           2056          0.990
## 583     natural_gas          47000          1.010
## 585            coal          81451         25.170
## 586            coal         258043         22.402
## 587     natural_gas          13522          1.025
## 589       petroleum             57          5.782
## 590     natural_gas            661          1.038
## 591     natural_gas          85300          1.033
## 592     natural_gas        2910211          1.032
## 593            coal          11623         25.150
## 594     natural_gas             66          1.025
## 595            coal          11974         24.740
## 596     natural_gas         681027          1.082
## 598     natural_gas         779154          0.900
## 599            coal           2562         21.068
## 600            coal           9092         22.780
## 601       petroleum            142          5.800
## 602     natural_gas        1740808          0.995
## 603       petroleum            489          5.880
## 604            coal          18152         17.358
## 605            coal            248         10.820
## 606            coal          51534         14.017
## 607     natural_gas            174          1.037
## 608            coal             22         22.110
## 609     natural_gas        3985312          1.015
## 610     natural_gas          46099          1.027
## 611            coal          16141         17.790
## 612            coal          33661         25.930
## 613            coal          77491         23.760
## 614     natural_gas          23077          0.950
## 615            coal           1773         25.300
## 616            coal          58600         17.862
## 620     natural_gas         393734          1.032
## 621       petroleum            409          5.830
## 622     natural_gas           5060          1.023
## 625            coal           8392         21.750
## 626       petroleum           1548          5.880
## 627     natural_gas           9802          1.000
## 629     natural_gas        1223142          1.020
## 630     natural_gas          90031          1.033
## 631       petroleum           2670          5.828
```

```
## 635         natural_gas       310000         1.029
## 636                coal         21011        23.694
## 637         natural_gas          3612         1.052
## 638           petroleum            79         6.000
## 639         natural_gas         10065         1.059
## 642         natural_gas        158390         1.037
## 644                coal         25757        25.630
## 645                coal        105350        16.060
## 646         natural_gas         23154         1.030
## 647           petroleum            98         5.850
## 649         natural_gas        586115         1.076
## 650                coal         47898        17.430
## 651         natural_gas         66182         1.086
## 655                coal          8320        26.160
## 656         natural_gas        269961         1.036
## 657           petroleum          8021         5.800
## 658         natural_gas       2379176         1.035
## 659                coal         12000        25.300
## 660         natural_gas       1290004         1.029
## 661                coal         89962        25.878
## 663         natural_gas         12581         0.989
## 664         natural_gas        567843         1.032
## 665                coal           355        24.446
## 666         natural_gas         81309         1.020
## 667                coal        235696        22.150
## 668                coal        174786        17.500
## 669         natural_gas         51367         1.061
## 670                coal         25779        17.942
## 671         natural_gas           486         1.031
## 672                coal         14962        25.700
## 673           petroleum            28         5.700
## 674                coal         17242        17.770
## 675           petroleum            38         5.920
## 676                coal         12747        24.060
## 677           petroleum           468         6.000
## 678           petroleum           527         5.900
## 680         natural_gas          4180         1.010
## 682           petroleum           238         5.636
## 683                coal        125842        16.700
## 684                coal          9904        20.980
## 685                coal        114076        17.540
## 686         natural_gas           170         1.000
## 687           petroleum          1627         5.770
## 688         natural_gas        592808         1.035
## 689         natural_gas          6918         0.967
## 691         natural_gas         12493         1.065
## 692         natural_gas       1921839         1.040
## 693                coal         20097        25.520
## 695         natural_gas          9881         1.012
## 696           petroleum         18155         6.300
## 697                coal         33401        22.720
## 698         natural_gas        157168         1.030
## 699                coal            93        25.600
## 700         natural_gas          2913         1.030
```

```
## 701         natural_gas              56700           1.095
## 703                coal              31871          25.660
## 704                coal               2481          25.070
## 705         natural_gas                756           1.028
## 707                coal              72060          25.880
## 708         natural_gas            4944578           1.014
## 709                coal               8793          22.380
## 710         natural_gas                530           1.020
## 712         natural_gas             591841           1.020
## 713         natural_gas                108           1.017
## 714                coal              41995          23.148
## 716         natural_gas                919           1.013
## 717         natural_gas             300057           1.025
## 719         natural_gas              51128           1.110
## 720                coal              24492          26.070
## 721         natural_gas               2704           1.000
## 722         natural_gas             139892           1.044
## 723           petroleum               1560           5.800
## 724                coal               7856          22.000
## 726         natural_gas               1099           1.064
## 727         natural_gas                138           1.006
## 729         natural_gas              57887           1.068
## 731         natural_gas              46114           1.026
## 732         natural_gas              22825           1.018
## 733         natural_gas                811           1.030
## 734         natural_gas            2335308           1.059
## 735         natural_gas              54913           1.000
## 736         natural_gas            1015642           1.015
## 739         natural_gas             137141           1.013
## 741         natural_gas                 39           1.034
## 742                coal              30172          17.680
## 743                coal                120          17.240
## 744         natural_gas                668           1.000
## 746           petroleum                664           5.825
## 747           petroleum              20003           5.850
## 748           other_gas             183685           0.964
## 749         natural_gas              87339           1.000
## 750                coal               2374          27.400
## 751         natural_gas              32221           1.048
## 752         natural_gas                412           1.015
## 754                coal              62870          17.750
## 755                coal              16493          18.120
## 756                coal              47569          22.212
## 757                coal              51527          23.030
## 758                coal              13634          24.630
## 759                coal              15400          26.000
## 760                coal              10896          25.230
## 762         natural_gas             405254           1.019
## 763         natural_gas             185886           1.040
## 765           petroleum                433           5.825
## 766         natural_gas              14951           1.100
## 767         natural_gas              29231           1.020
## 768         natural_gas             175955           0.998
## 769         natural_gas              77425           1.030
```

```
## 771              coal        214314        16.690
## 772              coal        692853        12.500
## 773     petroleum_coke        13156        28.716
## 774              coal         16331        17.016
## 775       natural_gas          9000         1.017
## 776       natural_gas        517083         1.024
## 777       natural_gas           494         1.021
## 778       natural_gas        242230         1.073
## 779              coal         80646        25.900
## 780       natural_gas        939155         1.020
## 781              coal            69        26.190
## 782       natural_gas        181038         1.036
## 784         petroleum          3704         5.817
## 785       natural_gas           106         1.046
## 786              coal        211296        16.214
## 787       natural_gas         14493         1.035
## 788       natural_gas       2154595         1.037
## 789         petroleum           214         5.820
## 791         petroleum           153         5.790
## 793       natural_gas          9931         1.030
## 794              coal         68290        17.029
## 795       natural_gas        708155         1.012
## 798              coal         59836        22.096
## 799       natural_gas       9953602         1.015
## 800       natural_gas          4722         1.015
## 801       natural_gas        441190         1.030
## 802              coal         27761        17.250
## 803              coal         42208        24.100
## 805              coal         81228        25.002
## 808         petroleum         86323         6.226
## 809       natural_gas            99         0.998
## 810       natural_gas          6229         1.068
## 811              coal         27156        21.841
## 812         petroleum          6100         5.920
## 813       natural_gas         57665         1.004
## 814       natural_gas       2583685         1.031
## 815       natural_gas          8467         1.065
## 817              coal         19655        23.646
## 818       natural_gas       4353264         1.065
## 820       natural_gas          1478         1.032
## 821       natural_gas        733335         1.026
## 822       natural_gas            41         1.100
## 823       natural_gas        202548         1.028
## 825       natural_gas         53700         1.030
## 826       natural_gas            26         1.034
## 827              coal         10162        25.396
## 828       natural_gas          2902         1.143
## 829              coal         15441        17.702
## 830              coal         17829        17.200
## 831       natural_gas          3487         1.003
## 832       natural_gas         16446         1.032
## 834              coal          1702        25.250
## 835       natural_gas        133103         1.000
## 837       natural_gas        455070         1.055
```

```
## 838       natural_gas        125505        1.021
## 840              coal         116988       17.690
## 841       natural_gas         34278         1.094
## 842              coal          1554        23.552
## 843       natural_gas         11956         1.000
## 844         petroleum          5218         5.800
## 845              coal         24629        23.406
## 847              coal         29009        17.720
## 848       natural_gas         86557         1.038
## 850              coal         48512        21.900
## 851       natural_gas          8643         1.030
## 852              coal         38730        17.430
## 853       natural_gas       2200784         1.011
## 854              coal        139894        18.490
## 857       natural_gas         30495         1.035
## 858              coal         14371        23.882
## 859       natural_gas        312031         1.069
## 861              coal         16822        17.172
## 863         other_gas        615231         1.314
## 864              coal         53700        17.520
## 865              coal         10954        26.020
## 866       natural_gas        263885         1.065
## 867              coal         12924        25.984
## 868       natural_gas           699         1.040
## 869              coal         15497        17.940
## 870       natural_gas         11824         1.030
## 871       natural_gas         87201         1.030
## 872         petroleum            90         5.770
## 873       natural_gas       2190521         1.029
## 874       natural_gas         14591         1.028
## 875       natural_gas          1547         1.030
## 876              coal         21163        22.760
## 877       natural_gas         33157         1.053
## 879              coal         33118        24.130
## 880       natural_gas          8593         1.057
## 881       natural_gas        203079         1.018
## 882              coal         13418        12.000
## 883       natural_gas        546967         1.025
## 884       natural_gas             1         1.000
## 885       natural_gas       3193488         1.030
## 887         petroleum           195         5.796
## 888              coal        558425        16.780
## 889       natural_gas         49824         1.000
## 890              coal         13169        25.000
## 891       natural_gas        142894         1.013
## 892              coal         32600        17.370
## 893         petroleum           544         5.912
## 894              coal        311786        12.982
## 895              coal         22408        19.652
## 896              coal         17514        24.540
## 897       natural_gas         24627         1.010
## 899       natural_gas       1500365         1.007
## 900              coal         32845        17.820
## 901              coal         69708        25.380
```

```
## 903        coal           17299        23.510
## 904   natural_gas        665825         1.034
## 906    petroleum           331          5.800
## 907        coal           11284        24.776
## 908    petroleum            9           5.850
## 910   natural_gas       2741477         1.030
## 911   natural_gas         53905         1.032
## 913        coal           18229        17.000
## 914   natural_gas          215          1.028
## 915        coal           68471        23.875
## 916    petroleum          2335          5.820
## 918   natural_gas       1717571         1.011
## 919        coal           17677        23.660
## 920        coal           14376        18.010
## 921   natural_gas         11267         1.094
## 922   natural_gas        606718         1.013
## 924        coal           52094        17.731
## 925   natural_gas          170          1.037
## 928   natural_gas         35926         1.028
## 929        coal           79193        17.600
## 930    petroleum          1072          5.817
## 931        coal           65838        17.220
## 932   natural_gas         14080         1.040
## 938    petroleum           174          5.900
## 940   natural_gas       2210632         1.021
## 941   natural_gas         9037          1.028
## 942        coal           14303        22.970
## 945        coal           18536        17.000
## 946        coal            3966        22.440
## 948   natural_gas       2405500         1.000
## 949     other_gas        273100         1.020
## 950        coal            3065         8.920
## 951   natural_gas       1644055         1.038
## 953   natural_gas         27025         1.032
## 954        coal            1207        17.046
## 955        coal           72195        24.870
## 957   natural_gas       2696359         1.020
## 959   natural_gas         10185         1.013
## 961   natural_gas         77279         1.020
## 962   natural_gas         87637         1.024
## 964   natural_gas         62181         1.000
## 965   natural_gas          3523         1.010
## 966        coal           29560        25.406
## 967   natural_gas        749588         1.025
## 968        coal           33994        24.480
## 969        coal            2632        25.680
## 970   natural_gas         98987         1.029
## 971        coal           38920        24.514
## 973   natural_gas         12931         1.000
## 974   natural_gas       1193488         1.095
## 975   natural_gas        111378         1.014
## 976        coal           13780        26.002
## 978        coal           49245        17.050
## 980   natural_gas          979          1.008
```

```
## 981       natural_gas          124          1.031
## 983              coal        74389         16.809
## 984              coal         3111         22.640
## 985              coal        67629         24.944
## 986       natural_gas        62320          1.043
## 988              coal         3209         22.424
## 991              coal        12593         25.260
## 992       natural_gas      2130538          1.048
## 994              coal       794431         12.730
## 995       natural_gas      1733521          1.028
## 998       natural_gas      1052448          1.050
## 999       natural_gas        12758          1.016
## 1002      natural_gas         3699          1.029
## 1003             coal        21337         24.521
## 1004      natural_gas        35275          1.036
## 1005             coal        27756         24.360
## 1006        petroleum          657          5.754
## 1007      natural_gas       437002          1.030
## 1008      natural_gas        16527          1.040
## 1009             coal          820         22.300
## 1010             coal        26095         26.330
## 1011      natural_gas       118940          1.040
## 1012      natural_gas          198          1.028
## 1013             coal        79302         25.000
## 1014      natural_gas          343          1.000
## 1015             coal        32257         17.290
## 1016      natural_gas       106408          1.020
## 1017             coal        44156         17.700
## 1019      natural_gas       863150          1.030
## 1022      natural_gas       660215          1.040
## 1023      natural_gas          110          1.100
## 1026      natural_gas       323612          1.041
## 1027      natural_gas       347565          1.036
## 1028      natural_gas        38786          1.013
## 1030             coal        12737         24.520
## 1031        petroleum         2143          5.800
## 1033      natural_gas        42134          1.101
## 1034      natural_gas         3347          1.040
## 1035             coal          117         17.928
## 1037             coal       101108         16.670
## 1040      natural_gas         1038          1.018
## 1041      natural_gas         4487          1.030
## 1042        petroleum         1424          5.860
## 1043      natural_gas        97822          1.086
## 1044      natural_gas      2382557          1.017
## 1045      natural_gas      1402657          1.031
## 1048      natural_gas          339          1.000
## 1049             coal        30726         17.618
## 1050      natural_gas       308367          1.014
## 1051      natural_gas       288803          1.012
## 1052      natural_gas        60197          1.100
## 1053             coal        66895         17.680
## 1054             coal        43305         25.950
## 1057      natural_gas        20735          1.000
```

```
## 1058            coal         13618      22.735
## 1059     natural_gas          9756       1.040
## 1060            coal        112528      22.634
## 1061     natural_gas        426208       1.035
## 1062     natural_gas          9615       1.040
## 1063            coal         32682      16.780
## 1064            coal         27860      16.990
## 1065            coal        118908      19.362
## 1066     natural_gas       4438843       1.014
## 1067            coal         23759      23.192
## 1069     natural_gas         79974       1.033
## 1070     natural_gas          2625       1.059
## 1071     natural_gas        126000       1.010
## 1074       petroleum           179       5.880
## 1076     natural_gas          3753       1.000
## 1079     natural_gas         14254       1.040
## 1081  petroleum_coke         44511      28.440
## 1082     natural_gas         15093       1.000
## 1083       petroleum           320       5.880
## 1084            coal         12630      23.190
## 1085     natural_gas          7402       1.025
## 1086            coal         13225      23.880
## 1087            coal         14563      16.670
## 1088     natural_gas       2536427       1.046
## 1089     natural_gas        291091       1.090
## 1090            coal         33215      22.939
## 1091     natural_gas        148970       1.020
## 1093     natural_gas         14768       1.021
## 1094     natural_gas           380       1.000
## 1095     natural_gas       7200930       1.021
## 1096            coal         99500      16.974
## 1098       petroleum           170       5.760
## 1101            coal         15977      17.100
## 1103     natural_gas       4835353       1.013
## 1104            coal        692557      12.700
## 1106     natural_gas         30724       1.061
## 1109            coal          5533      23.410
## 1112     natural_gas         31852       1.000
## 1113     natural_gas        984433       1.023
## 1114            coal         10910      24.160
## 1117       petroleum         17922       5.800
## 1118     natural_gas        652444       1.070
## 1119            coal         58446      17.070
## 1120     natural_gas        624242       1.021
## 1122            coal         12872      25.050
## 1123       petroleum           893       5.796
## 1124     natural_gas          4300       1.031
## 1125            coal         11986      25.250
## 1126     natural_gas        157461       1.030
## 1128     natural_gas          7202       1.028
## 1129     natural_gas         16730       1.028
## 1130       petroleum          3508       5.500
## 1132     natural_gas         90054       1.000
## 1133            coal         27715      16.839
```

```
## 1134       natural_gas              3485          1.033
## 1136       natural_gas            366420          1.080
## 1138              coal             44797         16.879
## 1139              coal               782         26.854
## 1140         petroleum               419          5.880
## 1141              coal             23311         21.396
## 1142              coal             20778         21.722
## 1144         petroleum                51          5.700
## 1145       natural_gas              2421          1.036
## 1146              coal             11510         23.672
## 1147       natural_gas            385075          1.060
## 1150       natural_gas               112          1.020
## 1151              coal              1352         13.890
## 1152              coal             26649         23.690
## 1153       natural_gas            117922          1.000
## 1154       natural_gas           1670619          1.035
## 1156              coal             77675         24.930
## 1157       natural_gas              5062          1.022
## 1160         petroleum               130          6.200
## 1161              coal              5307         24.746
## 1162       natural_gas               352          1.000
## 1163              coal                23         21.860
## 1164       natural_gas            609460          1.014
## 1165         petroleum              2292          5.770
## 1166         petroleum              1607          5.857
## 1167       natural_gas              1315          1.018
## 1168       natural_gas              3692          1.025
## 1169         petroleum                 4          5.800
## 1170              coal              7276         22.610
## 1171       natural_gas               176          1.026
## 1172       natural_gas            991455          1.030
## 1173              coal            285300         17.532
## 1174       natural_gas          13255404          0.994
## 1175              coal              9382         25.620
## 1176       natural_gas           4016807          1.030
## 1178       natural_gas           3191279          1.039
## 1180              coal              1602         22.546
## 1181       natural_gas            578266          1.018
## 1182       natural_gas             19414          1.032
## 1184       natural_gas             85512          1.020
## 1185              coal             28265         16.740
## 1186              coal             32746         18.030
## 1187         petroleum               140          5.660
## 1188              coal            200487         18.269
## 1190              coal             14248         17.680
## 1191         petroleum               276          5.880
## 1192              coal             16243         17.752
## 1193       natural_gas             15347          1.010
## 1194              coal             39683         26.250
## 1195       natural_gas           1086281          1.030
## 1198              coal             27702         22.872
## 1200              coal             13956         17.910
## 1201       natural_gas             10133          1.022
## 1202       natural_gas             72382          1.033
```

```
## 1203       natural_gas           8309          1.093
## 1204              coal           5816         24.746
## 1205         petroleum           1080          5.800
## 1206       natural_gas         139445          1.018
## 1207              coal          14906         22.400
## 1208              coal          35766         17.220
## 1209       natural_gas         250801          1.040
## 1210         petroleum            917          5.790
## 1212       natural_gas         484798          1.047
## 1213              coal          22316         25.375
## 1214              coal         192623         17.984
## 1215       natural_gas          12657          1.033
## 1216       natural_gas           4237          1.031
## 1217       natural_gas         238963          1.001
## 1218              coal          31607         17.598
## 1219         petroleum           1072          5.825
## 1222       natural_gas        3554865          1.032
## 1223       natural_gas          72554          1.020
## 1224       natural_gas         203637          1.100
## 1225              coal           7786         23.102
## 1226       natural_gas        1800036          1.035
## 1228       natural_gas          54453          1.014
## 1229       natural_gas            105          1.030
## 1230       natural_gas           4864          1.028
## 1232       natural_gas           1439          1.007
## 1233              coal           7005         24.600
## 1234       natural_gas            180          1.023
## 1235       natural_gas           1321          1.032
## 1236       natural_gas          34550          1.025
## 1237              coal          70711         17.500
## 1239         petroleum           1614          5.817
## 1240              coal          82690         21.005
## 1241         petroleum            490          5.268
## 1242       natural_gas            636          1.020
## 1243              coal          33460         17.421
## 1246       natural_gas         156200          1.033
## 1247              coal          16397         17.550
## 1248       natural_gas          15013          1.021
## 1250       natural_gas          92573          1.032
## 1251              coal           9191         25.430
## 1255              coal          16156         17.062
## 1256       natural_gas        2628904          1.024
## 1258              coal          19795         23.884
## 1260       natural_gas         163634          0.996
## 1261       natural_gas         289504          1.017
## 1262       natural_gas           2557          1.000
## 1263       natural_gas          19063          0.954
## 1264              coal            136         26.800
## 1266              coal          14865         17.056
## 1267       natural_gas          30813          1.029
## 1268              coal          12976         23.802
## 1271       natural_gas           2061          1.017
## 1272              coal            103         25.240
## 1273              coal          64887         17.670
```

```
## 1274          coal       13216      23.151
## 1275          coal        2077      21.350
## 1276     petroleum         649       5.669
## 1277   natural_gas      142781       1.030
## 1278   natural_gas       39423       1.037
## 1279          coal        6302      25.420
## 1280          coal       63595      17.736
## 1282          coal        8063      26.020
## 1283     petroleum        1046       5.777
## 1284          coal       16931      17.680
## 1285          coal       47650      23.090
## 1289   natural_gas       49612       1.040
## 1290   natural_gas        1606       1.039
## 1292   natural_gas       17057       1.019
## 1293   natural_gas       21694       1.017
## 1295     petroleum         532       5.800
## 1296   natural_gas     3336426       1.030
## 1297   natural_gas          15       1.000
## 1298   natural_gas      217245       1.029
## 1300   natural_gas        2208       1.030
## 1301          coal       78880      25.276
## 1302   natural_gas     2666846       1.039
## 1303     petroleum         879       5.712
## 1304   natural_gas      135922       1.030
## 1308   natural_gas     1173973       1.022
## 1309          coal       12129      17.740
## 1310   natural_gas       56562       1.030
## 1311   natural_gas     3766951       1.022
## 1314     petroleum         180       5.754
## 1315   natural_gas         244       1.027
## 1316   natural_gas       18574       1.040
## 1317          coal       24931      21.970
## 1321   natural_gas      542288       0.993
## 1322          coal       29612      24.160
## 1323   natural_gas        2552       1.010
## 1324          coal       19499      23.656
## 1325          coal        9294      25.200
## 1326   natural_gas      423819       1.026
## 1327   natural_gas         111       0.990
## 1328          coal        6682      23.504
## 1329   natural_gas       11905       0.995
## 1330   natural_gas       11459       1.020
## 1332     petroleum        1765       5.800
## 1333          coal       48842      16.600
## 1335          coal       16364      17.532
## 1336          coal       15461      23.510
## 1337          coal       27671      18.600
## 1338          coal       25568      25.470
## 1339          coal       12509      19.580
## 1340   natural_gas       48596       1.030
## 1341          coal       52912      25.030
## 1342   natural_gas       13000       1.003
## 1343   natural_gas        6958       1.060
## 1345   natural_gas       10426       1.015
```

```
## 1346      natural_gas      2854569       1.010
## 1347             coal        59314      24.108
## 1348      natural_gas         1940       1.039
## 1349             coal        14425      23.446
## 1350      natural_gas        10450       0.997
## 1351      natural_gas         3770       1.030
## 1352      natural_gas        33439       1.030
## 1353             coal         2980      22.312
## 1354      natural_gas            4       1.021
## 1355      natural_gas        19063       1.035
## 1357      natural_gas       861327       1.033
## 1358             coal        63318      24.246
## 1359      natural_gas        89858       1.006
## 1360             coal        76531      16.764
## 1361             coal        17248      25.570
## 1362             coal         8446      24.636
## 1363             coal        14159      23.016
## 1364      natural_gas        16132       1.044
## 1365        petroleum          715       5.880
## 1366             coal        30992      16.920
## 1367      natural_gas      1535601       1.010
## 1368      natural_gas        15601       1.020
## 1370      natural_gas       637443       1.046
## 1371      natural_gas          589       1.036
## 1372      natural_gas        17045       1.017
## 1373             coal          100      21.650
## 1374             coal         1696      25.310
## 1376      natural_gas       255473       1.039
## 1377      natural_gas      2176237       1.033
## 1379             coal        13690      17.600
## 1380             coal        13136      25.880
## 1381      natural_gas         4798       1.042
## 1383             coal        41498      17.072
## 1384      natural_gas        26822       1.029
## 1385             coal        11427      23.420
## 1386      natural_gas       598172       1.034
## 1387      natural_gas        14660       1.029
## 1388      natural_gas           71       1.030
## 1389      natural_gas        19016       1.027
## 1390      natural_gas       171681       1.030
## 1391      natural_gas        15347       1.010
## 1392      natural_gas       199230       1.016
## 1394      natural_gas         9079       1.051
## 1396             coal         5738      17.830
## 1398        petroleum          177       5.880
## 1400             coal        55734      17.580
## 1401             coal          502      23.000
## 1402             coal        63535      22.829
## 1403      natural_gas         1691       1.033
## 1404      natural_gas       853639       1.050
## 1405      natural_gas          539       1.074
## 1406        petroleum          948       5.800
## 1407             coal        49624      23.851
## 1408             coal       177471      24.440
```

```
## 1409      natural_gas          4598      1.038
## 1411      natural_gas        395340      1.030
## 1413      natural_gas          2885      1.027
## 1414             coal         95231     17.620
## 1415        petroleum         79668      5.780
## 1416      natural_gas         12195      1.000
## 1417             coal         67852     24.858
## 1418      natural_gas        357002      1.049
## 1419      natural_gas       2360197      1.025
## 1420      natural_gas        351414      1.027
## 1421      natural_gas          1410      1.031
## 1422      natural_gas        454638      1.000
## 1423      natural_gas        116985      0.978
## 1424      natural_gas           764      1.030
## 1425      natural_gas        277362      1.035
## 1426             coal           143     25.530
## 1427             coal        251252     17.300
## 1429      natural_gas        591292      1.040
## 1430             coal         93636     17.086
## 1431      natural_gas         14978      1.039
## 1432             coal         71654     18.592
## 1433             coal         66304     23.962
## 1434      natural_gas        830939      1.052
## 1435             coal         15462     23.500
## 1437      natural_gas        690626      1.028
## 1438        petroleum           592      5.796
## 1439             coal         15864     17.710
## 1440             coal         11825     24.720
## 1441      natural_gas       1075219      1.000
## 1442             coal         42350     17.380
## 1443      natural_gas          4247      1.036
## 1446      natural_gas       4748800      1.012
## 1447      natural_gas           219      1.030
## 1449             coal         11331     23.062
## 1450             coal         16079     22.900
## 1452             coal         10200     23.916
## 1453      natural_gas            60      1.027
## 1454      natural_gas          1656      1.012
## 1455      natural_gas         65737      1.032
## 1457      natural_gas        190406      1.020
## 1458             coal         47579     17.190
## 1459      natural_gas         18227      1.080
## 1460             coal          5762     16.782
## 1461             coal         28144     17.575
## 1462   petroleum_coke          7815     28.206
## 1463             coal         20834     22.866
## 1464      natural_gas        895826      1.008
## 1465      natural_gas        155000      1.041
## 1466      natural_gas         65000      1.003
## 1467      natural_gas       3859986      1.026
## 1468             coal         10761     24.894
## 1469             coal          9950     22.090
## 1470        other_gas          3424      2.500
## 1471      natural_gas         48544      1.030
```

```
## 1472      natural_gas          15039          1.093
## 1473      natural_gas           3527          1.008
## 1475      natural_gas        2596459          1.050
## 1477             coal           7158         17.100
## 1478             coal          20271         25.700
## 1479      natural_gas          62220          1.013
## 1481      natural_gas           3806          1.030
## 1482      natural_gas          46206          1.028
## 1483      natural_gas           2347          1.032
## 1484      natural_gas        5088445          1.042
## 1486      natural_gas         760574          1.017
## 1488        petroleum           1786          5.880
## 1489      natural_gas           6554          1.068
## 1490             coal         108994         17.600
## 1491        petroleum             20          5.400
## 1492             coal            934         21.850
## 1493      natural_gas            158          1.000
## 1494             coal         158839         17.760
## 1495      natural_gas          10552          1.033
## 1496             coal          13524         25.610
## 1497  petroleum_coke          12725         28.600
## 1498      natural_gas           2645          1.044
## 1499      natural_gas         119185          1.051
## 1500      natural_gas          44136          1.009
## 1501             coal           8196         17.852
## 1502             coal            102         17.020
## 1504             coal           8568         24.028
## 1505             coal           3415         25.308
## 1507      natural_gas           4808          1.040
## 1508             coal            252         23.152
## 1509      natural_gas          86416          1.028
## 1510      natural_gas           1235          1.030
## 1512      natural_gas         227040          1.038
## 1513             coal          10559         25.020
## 1514        petroleum            691          5.351
## 1516      natural_gas          61070          1.027
## 1517      natural_gas        1099426          1.017
## 1518      natural_gas          45104          1.010
## 1519        petroleum           4830          5.827
## 1520      natural_gas         114852          1.055
## 1521      natural_gas        2054802          1.036
## 1522      natural_gas            538          1.000
## 1524             coal          22286         25.256
## 1526             coal          36037         11.650
## 1529      natural_gas            372          1.060
## 1530             coal          34370         24.660
## 1531      natural_gas          54409          1.027
## 1532      natural_gas         665200          1.003
## 1533      natural_gas         226222          1.006
## 1534      natural_gas         110658          1.002
## 1535      natural_gas          69882          1.016
## 1536      natural_gas        2063979          1.035
## 1537      natural_gas             46          1.000
## 1539      natural_gas          48403          1.033
```

```
## 1540          natural_gas                268252              1.030
## 1541          natural_gas                324266              1.026
## 1543          natural_gas                 31594              1.035
## 1545          natural_gas                 10238              1.029
## 1546                 coal                 60786             16.685
## 1548                 coal                 72132             17.686
## 1549          natural_gas                 21890              1.036
## 1550          natural_gas                 20172              1.065
## 1551                 coal                 11015             22.470
## 1552                 coal                 26389             22.670
## 1553                 coal                 75733             18.640
## 1554          natural_gas                551445              1.050
## 1556                 coal                 12908             24.140
## 1557          natural_gas                 10724              1.070
## 1558          natural_gas                 16562              1.029
## 1561          natural_gas                 16452              1.020
## 1562                 coal                 12000             24.850
## 1563          natural_gas                823649              1.036
## 1564            petroleum                  2534              5.800
## 1565          natural_gas                     2              1.020
## 1566          natural_gas               2082604              1.023
## 1567                 coal                 48539             23.500
## 1568                 coal                 49369             17.570
## 1569          natural_gas                 63778              1.060
## 1570          natural_gas                    47              1.030
## 1571          natural_gas                152481              1.027
## 1572          natural_gas                 35757              1.113
## 1573                 coal                 45394             16.600
## 1574          natural_gas                388006              1.040
## 1575          natural_gas                 50065              1.009
## 1576          natural_gas                 67952              1.021
## 1579                 coal                 59884             17.680
## 1581                 coal                 14479             17.100
## 1582          natural_gas                 48322              1.083
## 1584          natural_gas                  1237              1.096
## 1585          natural_gas                 75363              1.020
## 1586                 coal                   122             17.900
## 1587                 coal                 38782             25.016
## 1588            other_gas               1247677              0.179
## 1589                 coal                 12285             22.620
## 1590            petroleum                  1421              5.880
## 1591          natural_gas                171507              0.997
## 1594          natural_gas                 11625              1.008
## 1595            petroleum                  4837              5.880
## 1596          natural_gas                192727              1.012
## 1598          natural_gas                166288              1.005
## 1599                 coal                 50474             14.200
## 1600          natural_gas               2322738              1.033
## 1601                 coal                 10998             21.700
## 1602                 coal                 33768             25.156
## 1604                 coal                 93901             17.522
## 1605          natural_gas                185185              1.026
## 1607                 coal                 32603             16.520
## 1608                 coal                 11766             24.434
```

```
## 1610          coal        12430    23.130
## 1611   natural_gas         9707     1.030
## 1613   natural_gas        96145     1.008
## 1614          coal        47726    17.260
## 1615   natural_gas      1386595     1.017
## 1616          coal       211685    24.910
## 1617   natural_gas         7838     1.044
## 1618          coal        65688    17.488
## 1619   natural_gas           62     1.048
## 1621          coal        21167    24.216
## 1622   natural_gas        18356     1.030
## 1623   natural_gas        36700     1.012
## 1625          coal        12716    24.992
## 1626   natural_gas          531     1.028
## 1629          coal        45839    17.696
## 1630          coal        13207    24.880
## 1631          coal         8321    24.120
## 1632          coal        10701    25.564
## 1633   natural_gas          378     1.022
## 1634   natural_gas       936220     1.025
## 1635          coal        69716    18.180
## 1638          coal        31900    22.730
## 1639          coal        50763    24.892
## 1640   natural_gas          719     1.003
## 1641          coal        11114    21.712
## 1642     petroleum         1191     5.800
## 1645          coal       119685    17.220
## 1646          coal        80592    17.822
## 1647   natural_gas        77934     1.040
## 1648          coal        88173    26.000
## 1649          coal        55318    21.700
## 1650          coal       116150    23.214
## 1651          coal        32998    14.842
## 1652   natural_gas      1625650     1.049
## 1655          coal          108    25.326
## 1656          coal        23551    24.740
## 1657   natural_gas        31045     1.098
## 1658   natural_gas        82756     1.035
## 1659          coal        34315    25.090
## 1660          coal         1046    23.756
## 1663          coal        29043    17.610
## 1664          coal        20268    17.408
## 1671          coal         9859    24.160
## 1672   natural_gas        59233     1.027
## 1673          coal       139276    17.980
## 1674          coal        16042    20.024
## 1675          coal        15044    17.344
## 1676          coal        11004    24.696
## 1677          coal       137436    17.230
## 1681          coal        15711    17.774
## 1682   natural_gas         5551     1.060
## 1683   natural_gas      1230150     1.029
## 1685   natural_gas      2246991     1.035
## 1687   natural_gas         8135     1.012
```

```
## 1689    natural_gas       535345     1.017
## 1690    natural_gas        12957     1.058
## 1692           coal         8198    25.310
## 1693    natural_gas         1185     1.000
## 1695    natural_gas       210190     1.028
## 1697    natural_gas        70496     1.036
## 1698    natural_gas       142400     1.030
## 1701    natural_gas         4093     1.053
## 1702           coal        22849    23.828
## 1704           coal         9340    22.230
## 1705           coal        15448    23.650
## 1707      petroleum        29671     5.880
## 1708    natural_gas         1121     1.020
## 1710    natural_gas       137480     1.080
## 1711           coal        79553    16.840
## 1712      petroleum         1976     5.779
## 1713    natural_gas          121     1.054
## 1714    natural_gas        70468     1.050
## 1715           coal        36375    22.920
## 1717    natural_gas        40629     1.020
## 1718           coal         3962    25.677
## 1719    natural_gas      1057971     1.035
## 1720    natural_gas        14523     1.029
## 1721    natural_gas         3549     1.056
## 1722    natural_gas         1524     1.002
## 1723    natural_gas        41600     1.018
## 1726           coal         8424    23.680
## 1727    natural_gas       438774     1.000
## 1728           coal         2126    23.588
## 1730    natural_gas      3192642     1.029
## 1731      petroleum           17     5.880
## 1732           coal         1820    26.000
## 1733    natural_gas       350992     1.046
## 1734           coal        12393    24.598
## 1735           coal        51574    14.000
## 1736           coal         3380    25.070
## 1739    natural_gas      1481066     1.047
## 1741    natural_gas       797578     1.014
## 1742    natural_gas          415     1.230
## 1743           coal        25327    17.942
## 1744    natural_gas        67127     1.013
## 1745           coal        14541    25.714
## 1746           coal        15300    23.834
## 1747           coal        54130    16.374
## 1748    natural_gas          448     1.033
## 1749    natural_gas          391     1.039
## 1750    natural_gas          325     1.030
## 1751    natural_gas       717185     1.045
## 1752    natural_gas            6     1.023
## 1753           coal            2    16.522
## 1755    natural_gas        23667     1.062
## 1756           coal        12501    17.480
## 1759           coal         3447    25.786
## 1760    natural_gas       208577     1.030
```

```
## 1761             coal       3336    23.662
## 1762      natural_gas     904049     1.031
## 1764      natural_gas      26957     1.000
## 1765      natural_gas       3176     1.020
## 1766      natural_gas     159691     1.020
## 1767      natural_gas      17821     1.014
## 1768      natural_gas     807310     1.022
## 1771      natural_gas    1720063     1.024
## 1772             coal     166973    24.480
## 1773      natural_gas        883     0.991
## 1774      natural_gas     934158     1.065
## 1776      natural_gas     497730     1.022
## 1777   petroleum_coke      38166    29.118
## 1778             coal      11845    24.452
## 1780             coal      95583    24.270
## 1781      natural_gas     614711     1.016
## 1782             coal      70668    23.096
## 1783      natural_gas     624301     1.063
## 1784      natural_gas       5990     1.017
## 1785      natural_gas     263799     1.020
## 1786      natural_gas       1117     1.029
## 1788             coal     163175    17.720
## 1789        petroleum       1310     5.880
## 1792      natural_gas     181478     1.000
## 1793             coal      11895    23.820
## 1794      natural_gas     156980     1.010
## 1795      natural_gas      17615     1.056
## 1796      natural_gas       1400     1.020
## 1798      natural_gas       4774     1.027
## 1800        petroleum        534     5.800
## 1805             coal      56027    17.630
## 1806      natural_gas      76737     1.016
## 1807      natural_gas     467430     1.035
## 1808             coal      12449    25.792
## 1809      natural_gas     480921     1.031
## 1810             coal     138920    17.600
## 1811      natural_gas      24543     1.059
## 1812      natural_gas     198887     1.017
## 1814      natural_gas      53537     1.030
## 1815      natural_gas         38     1.032
## 1816      natural_gas       8669     1.025
## 1817             coal     187692    25.120
## 1820      natural_gas      40390     1.000
## 1822             coal      27791    17.050
## 1826      natural_gas       4409     1.040
## 1827      natural_gas    1096684     1.015
## 1828      natural_gas        494     1.033
## 1829      natural_gas     902955     1.054
## 1833             coal      50049    16.730
## 1834      natural_gas        419     1.000
## 1835      natural_gas     911570     1.028
## 1836      natural_gas       2740     1.000
## 1837        petroleum        872     5.880
## 1838      natural_gas     216000     1.050
```

```
## 1839          coal         396    18.450
## 1840   natural_gas     4866101     1.030
## 1841     petroleum          77     5.825
## 1842          coal       31634    23.780
## 1845          coal         430    25.970
## 1846   natural_gas      301709     1.028
## 1849   natural_gas      117429     1.027
## 1850   natural_gas      237392     1.003
## 1851   natural_gas        3397     1.000
## 1853   natural_gas      527408     1.035
## 1854          coal       92715    23.020
## 1855   natural_gas      122851     1.029
## 1856   natural_gas      234936     1.018
## 1858          coal       35939    23.819
## 1860          coal       30405    12.700
## 1861   natural_gas       19330     1.035
## 1862   natural_gas           1     1.000
## 1863   natural_gas        4741     1.030
## 1867   natural_gas      984162     1.028
## 1868          coal        4836    23.076
## 1870          coal       34330    25.076
## 1871   natural_gas         577     1.000
## 1872     petroleum        1313     5.820
## 1873   natural_gas      107944     1.033
## 1874   natural_gas        5369     0.969
## 1875          coal       12040    24.890
## 1876          coal       70189    25.920
## 1877   natural_gas        3960     1.024
## 1880     petroleum        3173     5.800
## 1881   natural_gas      113831     1.000
## 1882   natural_gas      759972     1.043
## 1883          coal       47000    25.186
## 1884   natural_gas     3846234     1.030
## 1885          coal        8115    25.370
## 1886   natural_gas     2018939     1.028
## 1888   natural_gas      488577     1.029
## 1890   natural_gas       48910     1.022
## 1893   natural_gas      589129     1.030
## 1895          coal       27928    17.580
## 1897     petroleum         575     5.730
## 1898          coal       13103    24.218
## 1899   natural_gas     2648856     1.039
## 1900   natural_gas      117151     1.033
## 1901   natural_gas          34     1.020
## 1903   natural_gas       96800     1.019
## 1904     petroleum          92     5.800
## 1906   natural_gas        3892     1.000
## 1907          coal       23850    23.860
## 1908          coal       42710    26.090
## 1909          coal       15768    22.410
## 1910     petroleum        3568     5.780
## 1911   natural_gas      170907     1.000
## 1912     petroleum          38     5.800
## 1913          coal       15804    17.914
```

```
## 1915       natural_gas        4690464           1.006
## 1916       natural_gas        1759983           1.037
## 1917              coal           3312          11.120
## 1919       natural_gas          27818           1.001
## 1922       natural_gas         120520           1.032
## 1924       natural_gas          51105           0.998
## 1926       natural_gas         153067           1.045
## 1927       natural_gas          17943           1.030
## 1928       natural_gas        2367831           1.077
## 1929              coal          12211          25.922
## 1930       natural_gas          27834           1.034
## 1931       natural_gas          71369           1.010
## 1932       natural_gas         411725           1.050
## 1933       natural_gas         301315           1.020
## 1934              coal          10617          24.250
## 1935       natural_gas         715749           1.046
## 1936       natural_gas           2756           1.020
## 1937         petroleum           1161           5.800
## 1938              coal          15989          24.170
## 1939              coal         115295          24.020
## 1940              coal         198554          16.288
## 1941       natural_gas         723395           1.080
## 1943              coal          11687          24.870
## 1944       natural_gas        1690197           0.999
## 1945       natural_gas          50786           1.024
## 1946       natural_gas             56           1.011
## 1947       natural_gas          51228           1.107
## 1948              coal          11442          24.630
## 1950       natural_gas         340940           1.014
## 1951              coal          81447          17.600
## 1953              coal           8089          22.300
## 1954       natural_gas         126679           1.016
## 1955              coal           2605          22.643
## 1957       natural_gas          26108           1.000
## 1958       natural_gas          41808           1.013
## 1959              coal          13580          17.590
## 1960       natural_gas          48388           1.033
## 1961       natural_gas             23           1.027
## 1963              coal           9968          23.938
## 1964              coal           1207          24.730
## 1966         petroleum           1194           5.800
## 1967              coal           8620          24.310
## 1968       natural_gas             19           1.000
## 1969       natural_gas           2549           1.082
## 1970       natural_gas          52679           1.020
## 1971       natural_gas          31128           1.028
## 1972              coal          69814          17.460
## 1973       natural_gas          14849           1.037
## 1975              coal          86798          23.586
## 1976              coal         104081          25.940
## 1977       natural_gas          68386           1.014
## 1978       natural_gas            763           1.000
## 1979              coal           1097          25.000
## 1980       natural_gas         304459           1.011
```

```
## 1982         coal         15850       18.150
## 1983         coal        140064       23.920
## 1985  natural_gas           446        1.065
## 1986         coal         14999       25.690
## 1987    petroleum             1        5.700
## 1989  natural_gas          9472        1.030
## 1990  natural_gas        362287        1.013
## 1991    petroleum           173        5.712
## 1992         coal         72706       17.670
## 1993    petroleum           214        5.880
## 1995  natural_gas           684        1.010
## 1996         coal         36509       23.928
## 2000  natural_gas          1963        1.019
## 2002         coal           417       23.115
## 2004         coal         17717       25.390
## 2006         coal        149993       17.616
## 2007  natural_gas       1075000        1.030
## 2008         coal         16236       23.260
## 2009    petroleum          3411        5.817
## 2011    petroleum           172        5.754
## 2012         coal         88512       23.510
## 2014  natural_gas           301        1.029
## 2015  natural_gas        139992        1.049
## 2016  natural_gas        934568        1.046
## 2018  natural_gas             4        1.000
## 2019         coal         42483       17.720
## 2020  natural_gas         14299        1.050
## 2021         coal         14002       17.470
## 2022  natural_gas           530        1.028
## 2023  natural_gas         15923        1.014
## 2024         coal        149546       17.590
## 2025    petroleum           142        5.800
## 2026         coal         78457       16.288
## 2027  natural_gas       1353953        1.020
## 2029         coal         13002       25.886
## 2030         coal           556       25.940
## 2033         coal          6604       24.210
## 2036  natural_gas          5536        1.118
## 2038  natural_gas          1817        1.016
## 2039    petroleum            48        5.850
## 2040         coal           655       23.580
## 2041  natural_gas           288        1.000
## 2043         coal          1485       25.540
## 2045         coal         10000       23.644
## 2046  natural_gas           174        1.050
## 2048  natural_gas         56094        1.032
## 2051  natural_gas         25948        1.029
## 2052    petroleum          2402        5.796
## 2053         coal        135144       17.960
## 2055  natural_gas        920556        1.023
## 2056         coal          8802       24.850
## 2057         coal           371       25.836
## 2058  natural_gas          7687        1.020
## 2059         coal         19505       26.184
```

```
## 2061      natural_gas          131700          1.015
## 2062             coal           24440         24.340
## 2063      natural_gas            2639          1.036
## 2064      natural_gas          280844          1.020
## 2065      natural_gas           60689          1.031
## 2066      natural_gas           80868          1.014
## 2067         petroleum            529          5.800
## 2068             coal          222716         16.400
## 2069             coal           60684         16.700
## 2070             coal           74748         19.010
## 2071             coal           19166         24.629
## 2072      natural_gas           55000          1.016
## 2073             coal           15232         17.510
## 2074      natural_gas           64000          1.020
## 2076      natural_gas              14          1.036
## 2077      natural_gas          550298          1.063
## 2078      natural_gas         1393598          1.066
## 2080      natural_gas           44018          1.027
## 2083             coal           11847         23.762
## 2084             coal           32568         16.815
## 2085      natural_gas           47738          1.040
## 2086             coal            3267         22.520
## 2087             coal           32151         22.230
## 2088      natural_gas         2282966          1.060
## 2089         petroleum           1714          5.800
## 2091             coal           12820         25.850
## 2092             coal           29567         16.916
## 2093      natural_gas             875          1.028
## 2095      natural_gas         1656368          1.019
## 2096      natural_gas          640446          1.025
## 2098             coal           64147         17.496
## 2099      natural_gas          112707          1.012
## 2100      natural_gas               2          1.000
## 2101      natural_gas          635447          1.011
## 2105             coal           27479         22.736
## 2106      natural_gas          316527          1.000
## 2109             coal           54348         25.820
## 2111      natural_gas          554010          1.035
## 2112      natural_gas         1552089          1.025
## 2114         petroleum             44          5.817
## 2115      natural_gas            6409          1.011
## 2116      natural_gas           91042          1.039
## 2117      natural_gas         4376907          1.023
## 2119      natural_gas           43789          1.020
## 2121             coal           30121         25.816
## 2122             coal           34651         16.820
## 2123      natural_gas         4094082          1.028
## 2125             coal            9857         24.860
## 2127      natural_gas           41978          1.030
## 2128      natural_gas           37735          1.027
## 2129             coal            8266         22.040
## 2130      natural_gas            9350          1.000
## 2131             coal            4352         28.270
## 2132      natural_gas          462835          1.080
```

```
## 2133         petroleum          353      5.840
## 2135    petroleum_coke         1676     28.200
## 2136       natural_gas         2484      1.020
## 2137              coal         1548     15.220
## 2139       natural_gas          455      1.030
## 2140       natural_gas          220      1.034
## 2141       natural_gas      1202203      1.035
## 2143              coal        28123     25.350
## 2146              coal        92605     19.610
## 2147       natural_gas      3137017      1.030
## 2148       natural_gas      2369475      1.027
## 2149       natural_gas        37628      1.000
## 2150       natural_gas       130491      1.034
## 2151       natural_gas           52      1.000
## 2153              coal         3668     23.670
## 2154       natural_gas        36634      1.033
## 2155              coal        49563     17.797
## 2159         petroleum          717      5.690
## 2160       natural_gas      1569274      1.026
## 2162         petroleum         1167      6.000
## 2163       natural_gas         1630      1.000
## 2164       natural_gas         1084      1.028
## 2165       natural_gas       244904      1.019
## 2166              coal        39617     17.762
## 2167              coal       313401     23.423
## 2168       natural_gas       105819      1.031
## 2169       natural_gas       153161      1.007
## 2170              coal        15731     17.782
## 2171       natural_gas           68      1.000
## 2172       natural_gas       121766      1.035
## 2174              coal        17290     24.880
## 2175         petroleum          133      5.500
## 2176       natural_gas       147177      1.023
## 2177       natural_gas          127      1.036
## 2178       natural_gas       183562      1.015
## 2182       natural_gas         1125      1.029
## 2183       natural_gas          936      1.039
## 2184       natural_gas        56239      1.070
## 2186       natural_gas           14      1.003
## 2187              coal       148061     20.180
## 2190              coal        73242     21.700
## 2192       natural_gas        12786      1.000
## 2193       natural_gas       423000      1.027
## 2194         petroleum          444      6.532
## 2196       natural_gas           22      1.000
## 2197       natural_gas       463818      1.020
## 2198         petroleum          486      5.754
## 2199              coal        11097     24.780
## 2200              coal         2804     17.700
## 2202       natural_gas      2113227      1.017
## 2203              coal        14458     17.500
## 2204       natural_gas        55130      1.230
## 2205              coal        25256     25.450
## 2206       natural_gas         1189      1.030
```

```
## 2207        coal        54701    24.732
## 2208        coal        86053    22.114
## 2209        coal        28799    17.569
## 2210        coal        35706    17.460
## 2211  natural_gas        10362     1.035
## 2212  natural_gas         8990     1.026
## 2213  natural_gas      2501480     1.075
## 2214        coal        37156    17.850
## 2216        coal        76641    22.356
## 2217   petroleum         2898     6.600
## 2218        coal        16799    17.650
## 2219  natural_gas          226     1.034
## 2220        coal          229     8.168
## 2222  natural_gas       794336     1.057
## 2223  natural_gas        71412     1.034
## 2224  natural_gas        10304     1.030
## 2225        coal        26624    26.010
## 2226  natural_gas      1382379     1.034
## 2229  natural_gas       162532     1.040
## 2230  natural_gas       246189     1.027
## 2231  natural_gas        44741     1.029
## 2232        coal        28621    26.320
## 2233  natural_gas       622876     1.040
## 2235        coal         3285    23.303
## 2236        coal        44060    16.700
## 2237        coal        39738    23.490
## 2238        coal        44863    15.930
## 2239  natural_gas       355851     1.030
## 2240        coal        46464    23.000
## 2241  natural_gas         2292     1.018
## 2242        coal        12177    24.948
## 2243  natural_gas       151279     1.015
## 2245  natural_gas        48562     1.054
## 2246  natural_gas       154981     1.022
## 2247  natural_gas       160022     1.025
## 2248   petroleum          357     5.850
## 2249  natural_gas        25286     1.043
## 2250  natural_gas      1044373     1.015
## 2251  natural_gas       334788     1.014
## 2252        coal       147959    17.630
## 2253  natural_gas        16978     1.025
## 2254  natural_gas        10032     1.000
## 2257  natural_gas        73417     1.024
## 2258        coal        12837    23.966
## 2259  natural_gas        54667     1.040
## 2261  natural_gas      1794588     1.017
## 2262  natural_gas        25393     1.032
## 2264        coal        13175    24.050
## 2265  natural_gas        20908     1.100
## 2266  natural_gas        64994     1.000
## 2267        coal         1687    23.540
## 2268        coal        69928    20.720
## 2270  natural_gas          249     1.023
## 2271  natural_gas        16656     1.013
```

```
## 2272    natural_gas         1820     1.000
## 2276    natural_gas        15879     1.000
## 2277    natural_gas       778814     1.022
## 2278           coal         9934    24.970
## 2279    natural_gas       661064     1.028
## 2280    natural_gas      2291843     1.035
## 2281    natural_gas          105     1.023
## 2282    natural_gas        44787     1.031
## 2283      petroleum           26     5.670
## 2285           coal        15543    23.114
## 2286           coal        20414    24.120
## 2288           coal        12374    23.260
## 2289    natural_gas        26517     1.027
## 2290    natural_gas       381086     1.054
## 2293           coal        15038    17.720
## 2294    natural_gas        79388     1.000
## 2295           coal        15108    16.856
## 2296           coal         4053    21.590
## 2297    natural_gas        10362     1.000
## 2298           coal       141761    24.762
## 2302    natural_gas       908909     1.036
## 2303    natural_gas         7099     1.028
## 2304    natural_gas       247260     1.012
## 2305    natural_gas      3576841     1.035
## 2306           coal        26980    25.261
## 2308    natural_gas       139635     1.019
## 2309           coal         1617    23.890
## 2311    natural_gas       372232     1.031
## 2312           coal        33023    23.100
## 2313    natural_gas        24985     1.060
## 2314    natural_gas       167961     1.020
## 2315           coal        31780    26.000
## 2317    natural_gas          761     1.033
## 2318    natural_gas       594024     1.027
## 2320           coal        32583    25.080
## 2321           coal        35232    22.850
## 2322    natural_gas        24425     1.044
## 2323    natural_gas       131000     1.010
## 2324           coal        15909    22.260
## 2325           coal        42426    26.430
## 2326    natural_gas         2700     1.019
## 2327    natural_gas          112     1.017
## 2328           coal        35957    25.962
## 2329           coal        86386    22.940
## 2331           coal        48636    17.944
## 2332    natural_gas       523791     1.065
## 2333    natural_gas          144     1.007
## 2334           coal       137976    16.904
## 2335    natural_gas      2009854     1.049
## 2337      petroleum         5346     5.900
## 2338    natural_gas       107880     1.030
## 2339    natural_gas        28348     1.050
## 2340           coal        51840    22.300
## 2342    natural_gas         1226     1.032
```

```
## 2343    natural_gas     211877     1.019
## 2346    natural_gas    1327493     1.024
## 2347           coal      33186    25.350
## 2348    natural_gas         10     1.020
## 2350    natural_gas        135     1.036
## 2351    natural_gas      19517     1.020
## 2352    natural_gas     115238     1.040
## 2353           coal      29161    18.000
## 2354    natural_gas      46167     1.034
## 2355           coal      68290    16.672
## 2356      petroleum         14     5.838
## 2357    natural_gas         82     1.018
## 2358           coal     176193    17.856
## 2361           coal     168146    24.230
## 2362    natural_gas        450     1.000
## 2363    natural_gas    1147963     1.042
## 2364      petroleum       5838     6.297
## 2365    natural_gas     170304     1.000
## 2366           coal      21932    25.150
## 2368    natural_gas      33106     1.011
## 2369           coal       5871    23.418
## 2370    natural_gas     281984     1.021
## 2371           coal      15371    25.700
## 2372    natural_gas        540     1.037
## 2373           coal       3698    23.990
## 2374    natural_gas      65494     1.009
## 2375    natural_gas    2612038     0.999
## 2376    natural_gas      18756     1.015
## 2378    natural_gas      46900     1.011
## 2379    natural_gas     104679     1.103
## 2381    natural_gas    2987277     1.009
## 2383      petroleum        100     5.800
## 2384    natural_gas      11965     1.030
## 2387    natural_gas       5020     1.028
## 2389      petroleum      16098     6.300
## 2390    natural_gas      16897     1.021
## 2391    natural_gas       5625     1.020
## 2392    natural_gas    2096630     1.061
## 2393    natural_gas      58496     1.052
## 2394           coal      64441    16.870
## 2395    natural_gas      19420     1.024
## 2396    natural_gas     310680     1.012
## 2398           coal      15342    23.528
## 2400      petroleum        573     5.660
## 2401    natural_gas       6398     1.034
## 2402           coal      31024    26.125
## 2403           coal      47011    25.226
## 2404           coal       4798    23.762
## 2405           coal      47751    23.990
## 2407           coal      75202    22.929
## 2408    natural_gas      12415     0.985
## 2409           coal      42560    18.990
## 2410    natural_gas     257914     1.045
## 2411    natural_gas        139     1.020
```

```
## 2412      natural_gas          136383              1.115
## 2413             coal           96187             17.779
## 2417      natural_gas           65855              1.019
## 2418      natural_gas          245611              1.028
## 2419      natural_gas          176249              1.020
## 2420             coal           97763             18.027
## 2421             coal          192728             24.948
## 2424      natural_gas         2287872              1.015
## 2425   petroleum_coke           15057             27.190
## 2427        petroleum             876              5.880
## 2428      natural_gas           49794              1.040
## 2430             coal           23002             25.280
## 2431      natural_gas         1182602              1.053
## 2432      natural_gas               4              1.014
## 2433      natural_gas         2695062              1.018
## 2434      natural_gas            4720              1.034
## 2435             coal          229119             19.740
## 2436      natural_gas         2987110              1.033
## 2437   petroleum_coke             750             28.940
## 2439      natural_gas          238908              1.052
## 2440      natural_gas             112              1.047
## 2441      natural_gas           30460              1.028
## 2444      natural_gas           10015              1.000
## 2445      natural_gas          859500              1.014
## 2446      natural_gas             139              1.033
## 2447             coal              14             22.110
## 2448             coal           14533             14.510
## 2450             coal           12734             21.130
## 2451      natural_gas           37522              1.030
## 2454      natural_gas            5296              1.032
## 2455        petroleum            2144              5.840
## 2456      natural_gas         1682773              1.019
## 2457      natural_gas            2079              1.028
## 2458        petroleum            1720              5.796
## 2459      natural_gas          236303              1.027
## 2461      natural_gas             195              1.022
## 2462      natural_gas          162200              1.033
## 2464             coal           29672             24.981
## 2465             coal           24728             17.570
## 2466      natural_gas          489813              1.017
## 2467             coal           15905             17.710
## 2468      natural_gas          199615              1.040
## 2472      natural_gas             476              1.022
## 2473        petroleum             285              5.670
## 2474             coal           62008             18.200
## 2475             coal           85592             25.980
## 2476      natural_gas         6326980              1.018
## 2478      natural_gas           82281              1.000
## 2479             coal           63672             24.946
## 2480      natural_gas          161000              1.020
## 2481             coal           16141             21.736
## 2482      natural_gas            1857              1.020
## 2485        petroleum           10012              5.810
## 2486      natural_gas           15634              1.027
```

```
## 2490      natural_gas        582148         1.019
## 2492      natural_gas          6010         1.031
## 2493      natural_gas        167347         1.020
## 2495   petroleum_coke          4556        28.170
## 2496             coal          4647        23.142
## 2497      natural_gas         15087         1.017
## 2498      natural_gas          4950         1.010
## 2500      natural_gas             6         1.000
## 2503        petroleum          9982         5.780
## 2504             coal        188952        16.920
## 2505             coal         29963        17.880
## 2506      natural_gas             6         1.229
## 2507             coal         20298        17.600
## 2508             coal         12872        23.516
## 2509             coal         78000        17.780
## 2510             coal         22070        22.608
## 2511      natural_gas        134813         1.018
## 2512             coal          1068        17.520
## 2513             coal         19008        17.880
## 2514      natural_gas           157         1.000
## 2516             coal          6976        23.380
## 2517      natural_gas          2304         1.034
## 2519             coal         30999        23.815
## 2520             coal        159761        15.948
## 2522             coal          8570        23.120
## 2523             coal          7649        17.826
## 2524             coal         43106        24.292
## 2525      natural_gas         25077         1.026
## 2526      natural_gas       1668398         1.030
## 2527             coal         76966        23.062
## 2528      natural_gas         77247         1.063
## 2529        petroleum          5481         5.800
## 2530      natural_gas         71706         1.068
## 2531      natural_gas       2419007         1.038
## 2533      natural_gas           908         1.033
## 2534             coal         15744        17.734
## 2537      natural_gas            49         1.020
## 2538             coal        120500        17.282
## 2539      natural_gas           928         1.037
## 2540      natural_gas         15296         1.016
## 2541      natural_gas        150430         1.047
## 2542             coal         42321        17.598
## 2543             coal         32734        17.700
## 2544             coal         85177        18.046
## 2546      natural_gas         31333         1.027
## 2547             coal        291009        15.150
## 2548      natural_gas        120801         1.000
## 2549      natural_gas        182523         1.028
## 2553      natural_gas          1576         1.070
## 2554      natural_gas       2759606         1.039
## 2555      natural_gas         43861         1.032
## 2556             coal        145436        17.228
## 2558        petroleum         14761         5.740
## 2560             coal          2378        13.720
```

```
## 2561      natural_gas         607      1.040
## 2564             coal       13884     26.018
## 2565             coal       10239     24.002
## 2566        petroleum         183      5.800
## 2567             coal       19253     22.881
## 2568             coal       21546     24.090
## 2570      natural_gas        8364      1.020
## 2571      natural_gas        7117      1.000
## 2572             coal       34420     21.640
## 2574      natural_gas         590      1.027
## 2575             coal       27456     21.250
## 2576      natural_gas       44474      1.007
## 2577             coal        3964     24.050
## 2580             coal       15748     16.870
## 2584      natural_gas        7046      1.030
## 2585             coal       12343     23.974
## 2586        petroleum         136      5.880
## 2587             coal       49366     22.247
## 2588             coal       90568     23.442
## 2589             coal       32856     16.650
## 2590      natural_gas      205176      1.040
## 2593             coal       65060     17.830
## 2594      natural_gas        5000      1.028
## 2595      natural_gas         486      1.000
## 2596      natural_gas       61651      1.040
## 2597             coal        8108     25.448
## 2598      natural_gas        1421      1.020
## 2599        petroleum         537      5.815
## 2600             coal       12211     24.890
## 2601             coal       24906     25.080
## 2602      natural_gas       52430      1.035
## 2603             coal        1893     22.100
## 2605             coal        3629     25.600
## 2606             coal       11976     24.350
## 2607      natural_gas          66      1.000
## 2608      natural_gas        4014      1.023
## 2609      natural_gas       14663      1.023
## 2611             coal        3574     23.360
## 2612      natural_gas     3230297      1.030
## 2614      natural_gas      107000      1.025
## 2615             coal      317872     25.360
## 2616             coal        9521     22.020
## 2617      natural_gas        4698      1.039
## 2618        petroleum        4797      5.880
## 2619             coal       12933     23.602
## 2620        petroleum       23120      5.704
## 2621      natural_gas       78558      1.013
## 2625             coal       30919     17.592
## 2626             coal       17168     17.110
## 2627      natural_gas     1340421      1.038
## 2628             coal        5034     15.806
## 2629      natural_gas       23020      1.010
## 2630             coal       25733     25.190
## 2631      natural_gas       45725      1.010
```

```
## 2632    natural_gas        73826     1.021
## 2633    natural_gas        28165     1.031
## 2634           coal         9995    25.176
## 2635    natural_gas         2011     1.000
## 2636           coal          580    23.410
## 2637           coal        87114    25.436
## 2639    natural_gas       631263     1.035
## 2640           coal         1600    24.434
## 2641           coal          800    12.230
## 2642      petroleum          717     5.825
## 2644    natural_gas       775082     1.020
## 2645           coal         8834    23.252
## 2646    natural_gas      3253775     1.028
## 2647      petroleum         2817     5.880
## 2648           coal         9283    26.690
## 2650           coal       170975    18.190
## 2651    natural_gas          252     1.010
## 2654           coal        55576    17.958
## 2655           coal        29847    22.706
## 2656    natural_gas      3159769     1.061
## 2659    natural_gas       192382     1.020
## 2660           coal          330    13.270
## 2661    natural_gas      2925217     1.020
## 2662    natural_gas        31190     1.006
## 2663    natural_gas       530742     1.069
## 2664    natural_gas          218     1.008
## 2666    natural_gas       773440     1.022
## 2667           coal        31184    16.896
## 2668    natural_gas       891239     1.048
## 2672    natural_gas         6479     1.241
## 2673    natural_gas        20430     1.082
## 2674    natural_gas       272935     1.000
## 2675      petroleum           20     5.800
## 2676    natural_gas      1474996     1.024
## 2677    natural_gas       299453     1.032
## 2678    natural_gas          695     1.010
## 2679    natural_gas         3288     1.030
## 2680    natural_gas         8128     1.072
## 2682           coal        12404    25.002
## 2685           coal        49825    17.730
## 2689      petroleum         1836     5.900
## 2690      petroleum         5915     5.754
## 2691    natural_gas      2307955     1.091
## 2692           coal        21683    23.710
## 2693           coal        45630    24.200
## 2694    natural_gas         1335     1.020
## 2695    natural_gas         7850     1.000
## 2696           coal        22708    24.746
## 2697    natural_gas       250922     1.029
## 2699    natural_gas       599813     1.032
## 2700           coal         1441    24.860
## 2701    natural_gas       114311     1.015
## 2702    natural_gas        18087     1.020
## 2704           coal        11494    24.692
```

```
## 2705    natural_gas         1505           1.040
## 2706           coal          1563          24.620
## 2707    natural_gas        162994           1.020
## 2708    natural_gas         20500           1.010
## 2709           coal         17836          22.416
## 2711    natural_gas        441993           1.012
## 2712    natural_gas           125           1.020
## 2714    natural_gas        125936           1.037
## 2715      petroleum            34           5.850
## 2716           coal         26751          25.620
## 2717    natural_gas        222265           1.023
## 2718    natural_gas       1071609           1.044
## 2719           coal         51481          17.695
## 2720      petroleum           235           4.030
## 2721    natural_gas          1632           1.013
## 2722           coal         15889          17.710
## 2723    natural_gas        469488           0.995
## 2724           coal         42700          22.208
## 2725           coal         24782          24.120
## 2728    natural_gas          4664           1.030
## 2729           coal         16241          13.880
## 2730           coal        132031          24.450
## 2731    natural_gas         24029           1.029
## 2732    natural_gas       1868757           1.040
## 2733    natural_gas         47547           1.040
## 2734           coal         14598          17.610
## 2735    natural_gas         21697           1.086
## 2737    natural_gas         44603           1.035
## 2739           coal         44742          24.740
## 2741      petroleum          2725           6.322
## 2742    natural_gas         27752           1.000
## 2743           coal         10249          24.260
## 2745           coal         27146          23.550
## 2746           coal         17983          24.590
## 2747           coal         16675          26.230
## 2748           coal           825          25.810
## 2749           coal         44000          17.430
## 2750    natural_gas          3427           1.000
## 2751           coal          8300          24.200
## 2752           coal         11577          24.040
## 2753    natural_gas         68010           1.070
## 2754    natural_gas        251126           0.992
## 2757    natural_gas         14732           1.028
## 2758    natural_gas           350           1.005
## 2759      petroleum           861           5.893
## 2761           coal         65226          17.500
## 2762           coal         18381          17.800
## 2763    natural_gas         60604           1.005
## 2765    natural_gas          1510           1.072
## 2766    natural_gas        103278           1.071
## 2767    natural_gas          2472           1.023
## 2768           coal         72943          19.000
## 2769    natural_gas        203266           1.015
## 2770           coal         12770          25.800
```

```
## 2771    natural_gas       74412     1.027
## 2772      petroleum         789     5.800
## 2775           coal       51278    25.800
## 2776    natural_gas      122566     1.025
## 2779    natural_gas      211875     1.030
## 2780    natural_gas      412403     1.132
## 2781           coal        2913    23.946
## 2782           coal         796    26.560
## 2783           coal       15058    17.268
## 2784           coal        2495    25.700
## 2785    natural_gas     1501606     1.036
## 2786    natural_gas        1949     1.000
## 2787    natural_gas      108948     1.015
## 2788    natural_gas       83418     1.036
## 2789    natural_gas      103960     1.010
## 2790    natural_gas        2120     1.030
## 2791    natural_gas      364843     1.021
## 2792    natural_gas         476     1.019
## 2793    natural_gas       30575     1.000
## 2794           coal       60810    23.690
## 2796           coal       72810    17.600
## 2797    natural_gas         338     1.020
## 2798      petroleum        2049     5.850
## 2800    natural_gas       76692     1.017
## 2801           coal       16554    23.030
## 2803           coal       12068    24.856
## 2805    natural_gas        9888     1.030
## 2806    natural_gas       11980     1.020
## 2807    natural_gas        8737     1.000
## 2808    natural_gas       32451     1.030
## 2810           coal       22506    24.900
## 2811    natural_gas      178400     1.027
## 2814      petroleum        9569     5.700
## 2816    natural_gas       53038     1.020
## 2818           coal       14048    20.180
## 2820    natural_gas      191947     1.040
## 2821    natural_gas       60376     1.025
## 2822      other_gas     7294147     0.084
## 2823           coal       64517    17.830
## 2824    natural_gas     3202399     1.030
## 2825           coal       28273    17.120
## 2827    natural_gas       16483     1.049
## 2828    natural_gas        4434     1.000
## 2829    natural_gas      333122     1.026
## 2830      petroleum         227     5.783
## 2832    natural_gas     3092526     1.040
## 2833           coal       17754    17.260
## 2836      petroleum          66     5.800
## 2838      petroleum         742     5.880
## 2840           coal       23377    23.470
## 2841    natural_gas      565135     1.105
## 2843           coal        3758    24.800
## 2844           coal       14900    24.368
## 2845    natural_gas      203060     1.038
```

```
## 2846       natural_gas            4510        1.038
## 2847         petroleum             394        5.682
## 2848         petroleum            1067        6.000
## 2849              coal           81655       22.320
## 2850              coal           82406       17.830
## 2851       natural_gas            2252        1.040
## 2852       natural_gas            6988        1.110
## 2854       natural_gas          641711        1.050
## 2855       natural_gas          245198        1.041
## 2857       natural_gas          397116        1.036
## 2859              coal             156       14.196
## 2860       natural_gas          138289        1.022
## 2864       natural_gas          257923        1.016
## 2865       natural_gas          140475        1.027
## 2866       natural_gas          209420        1.020
## 2869       natural_gas          217062        1.015
## 2870              coal          175513       17.650
## 2872       natural_gas           69380        1.028
## 2873              coal          242083       18.360
## 2874       natural_gas            2262        1.028
## 2875              coal           32540       16.938
## 2879       natural_gas         2939503        1.024
## 2880              coal          111948       23.437
## 2882       natural_gas            4404        1.032
## 2884              coal           13380       24.206
## 2886       natural_gas            4000        1.016
## 2887       natural_gas            7780        1.230
## 2888       natural_gas          938653        1.050
## 2889       natural_gas           87697        1.041
## 2890       natural_gas           99027        1.020
## 2891       natural_gas              65        1.021
## 2892              coal             482       22.350
## 2893       natural_gas              54        1.027
## 2895       natural_gas          307800        1.032
## 2896         petroleum            5553        5.796
## 2898              coal            9901       23.468
## 2899              coal          189006       17.418
## 2900       natural_gas             132        1.020
## 2902       natural_gas          344349        1.020
## 2904       natural_gas          403948        1.051
## 2905       natural_gas           49259        1.032
## 2906       natural_gas           17155        1.024
## 2907       natural_gas              89        1.023
## 2908       natural_gas              55        1.017
## 2909              coal             586       25.642
## 2910       natural_gas         1821356        1.031
## 2912       natural_gas           42263        0.999
## 2913              coal           31979       20.950
## 2914       natural_gas         2313837        1.070
## 2916       natural_gas           27941        1.023
## 2917       natural_gas         1070873        1.030
## 2918       natural_gas          112904        1.056
## 2919              coal           14468       17.440
## 2921       natural_gas            2163        1.052
```

```
## 2922        natural_gas              1450           1.080
## 2924               coal               111          26.028
## 2925        natural_gas            597248           1.014
## 2926               coal             53427          17.590
## 2927               coal              4658          23.142
## 2929        natural_gas             42570           1.020
## 2930          petroleum               342           5.700
## 2931        natural_gas            850495           1.026
## 2932        natural_gas                 1           1.036
## 2933          petroleum              9699           5.780
## 2934        natural_gas             16502           1.016
## 2935        natural_gas             24038           1.000
## 2936        natural_gas              8214           1.078
## 2937        natural_gas             16814           1.030
## 2938        natural_gas           1343599           1.054
## 2940               coal               570          16.200
## 2942        natural_gas            328933           1.050
## 2943        natural_gas             91806           1.027
## 2944               coal              1111          24.020
## 2945        natural_gas            267209           1.040
## 2946               coal              8901          21.962
## 2947               coal             18078          25.879
## 2948          petroleum              6408           6.360
## 2949        natural_gas              5974           1.030
## 2951        natural_gas           2500000           1.012
## 2953        natural_gas             31981           1.020
## 2954        natural_gas            960291           1.121
## 2956          petroleum             10367           5.800
## 2957               coal             13048          25.600
## 2958               coal             49602          22.580
## 2959        natural_gas              1819           1.020
## 2961        natural_gas            526375           0.996
## 2962        natural_gas              2019           1.030
## 2963               coal             67771          13.296
## 2967        natural_gas             31110           1.008
## 2968        natural_gas            158347           1.014
## 2970          petroleum              4054           5.823
## 2971               coal             16699          23.290
## 2972               coal               787          21.496
## 2973        natural_gas           1053199           1.040
## 2974               coal             14637          17.904
## 2975               coal              3970          24.630
## 2976               coal              7424          25.600
## 2980               coal             16166          17.600
## 2982        natural_gas              9823           1.018
## 2983        natural_gas             10902           1.025
## 2984        natural_gas               693           1.021
## 2986        natural_gas              7709           1.000
## 2987               coal             16283          25.520
## 2988               coal              9544          23.290
## 2990        natural_gas           1712765           1.026
## 2991               coal             83449          18.500
## 2992               coal             61515          17.590
## 2993        natural_gas            251337           1.001
```

```
## 2994       natural_gas         208           1.023
## 2996        petroleum         2617           6.280
## 2998       natural_gas         112           1.000
## 2999       natural_gas     1215292           1.030
## 3001       natural_gas       13322           1.025
## 3003       natural_gas          61           1.020
## 3004       natural_gas        1094           1.052
## 3007            coal         3692          25.474
## 3008            coal        10019          24.970
## 3011       natural_gas        5198           1.053
## 3014            coal        19508          24.940
## 3015       natural_gas      121270           1.032
## 3016       natural_gas       19075           1.044
## 3017       natural_gas        2107           1.027
## 3020       natural_gas     1853029           1.038
## 3021       natural_gas      249296           1.024
## 3022        petroleum         348           5.770
## 3023       natural_gas       77146           1.090
## 3025            coal         1254          26.260
## 3026        petroleum         536           5.922
## 3028            coal         4337          25.890
## 3029            coal         5327          25.840
## 3030        petroleum        1825           5.800
## 3031            coal        11912          24.560
## 3032            coal        53449          25.220
## 3034       natural_gas        3177           1.030
## 3035       natural_gas       77815           1.030
## 3038       natural_gas       14067           1.045
## 3039            coal         1608          17.310
## 3041            coal        24008          25.314
## 3042            coal         7938          25.019
## 3043            coal        12006          24.964
## 3044            coal        28319          17.710
## 3047       natural_gas       67851           1.022
## 3049            coal        17960          24.038
## 3054       natural_gas        7677           1.037
## 3055       natural_gas         155           1.021
## 3056       natural_gas     1115057           1.027
## 3057            coal        51533          25.974
## 3060       natural_gas       37935           1.015
## 3061       natural_gas      753456           1.040
## 3062       natural_gas        4530           1.000
## 3063        petroleum         812           5.600
## 3064       natural_gas       21030           1.041
## 3065            coal        19820          17.020
## 3067        petroleum         336           5.850
## 3068       natural_gas       27033           1.020
## 3070            coal       843563          17.630
## 3071        petroleum         592           5.800
## 3073        petroleum       65023           6.256
## 3074       natural_gas        5478           1.022
## 3076       natural_gas       14998           1.019
## 3077            coal        14795          17.360
## 3078       natural_gas     2371693           1.025
```

```
## 3079    natural_gas       763     1.000
## 3080    natural_gas     55142     1.000
## 3083    natural_gas   1077032     1.052
## 3084    natural_gas     89428     0.910
## 3085           coal      1490    23.330
## 3089      petroleum      2999     5.780
## 3090    natural_gas   2611228     1.027
## 3091           coal      9359    22.892
## 3092           coal     28997    16.690
## 3093    natural_gas       541     1.020
## 3094           coal     11552    26.390
## 3095    natural_gas    153358     1.026
## 3096    natural_gas    164479     1.100
## 3097           coal     15811    17.870
## 3098      petroleum       641     5.873
## 3100    natural_gas      2571     1.000
## 3101           coal    107733    17.739
## 3102    natural_gas      9155     1.018
## 3103      petroleum        54     6.000
## 3105      petroleum      3540     5.880
## 3106           coal      6361    25.776
## 3109           coal     10803    24.690
## 3112    natural_gas     94986     1.031
## 3113    natural_gas   1482955     1.027
## 3114           coal    163715    16.606
## 3115      petroleum       180     5.820
## 3116    natural_gas        33     1.027
## 3117    natural_gas    291262     1.030
## 3118           coal     55158    17.610
## 3119           coal     90509    17.806
## 3120      petroleum        63     5.850
## 3121           coal     21169    25.870
## 3122    natural_gas       780     1.061
## 3124    natural_gas      4983     1.030
## 3125           coal     14063    18.170
## 3127    natural_gas    195568     1.012
## 3128           coal     96670    17.747
## 3129           coal      2222    17.700
## 3132      petroleum      4724     5.880
## 3133           coal    144721    17.170
## 3134           coal     10127    24.700
## 3135    natural_gas      6205     1.033
## 3137    natural_gas     59193     1.012
## 3141    natural_gas      1855     1.025
## 3142    natural_gas    113705     1.040
## 3145           coal    203306    17.850
## 3146    natural_gas      4892     1.022
## 3147           coal     25146    16.640
## 3148           coal     16689    16.570
## 3149           coal      7499    22.412
## 3151    natural_gas    962500     1.040
## 3152    natural_gas        70     1.000
## 3156    natural_gas   1019002     1.020
## 3159    natural_gas   2305907     1.030
```

```
## 3160            coal      49628     23.030
## 3161     natural_gas      55049      1.026
## 3163            coal       4464     24.900
## 3164     natural_gas       3056      1.017
## 3165            coal      16151     17.768
## 3166     natural_gas        577      1.000
## 3168       petroleum      17937      6.384
## 3170            coal     189983     17.720
## 3171            coal      35792     26.100
## 3172     natural_gas     173135      1.020
## 3173     natural_gas    1118577      1.011
## 3174            coal      72937     17.194
## 3175            coal     196960     24.251
## 3176     natural_gas        931      1.045
## 3177            coal      27952     16.822
## 3178     natural_gas      35630      1.075
## 3179     natural_gas      72194      1.000
## 3180     natural_gas         83      1.000
## 3182     natural_gas     794378      1.019
## 3183     natural_gas       3218      1.030
## 3184     natural_gas        116      1.030
## 3186       petroleum       1625      5.790
## 3188       petroleum        536      5.800
## 3189     natural_gas    3392662      1.032
## 3190     natural_gas      46624      1.030
## 3191     natural_gas     189194      1.029
## 3192     natural_gas      60652      1.020
## 3193     natural_gas       9709      1.013
## 3195       petroleum        130      5.817
## 3196     natural_gas     411094      1.021
## 3197     natural_gas         71      1.004
## 3198       petroleum       6251      5.838
## 3199            coal      31457     16.930
## 3201     natural_gas     234328      1.066
## 3202            coal      86843     23.868
## 3204            coal       6203     21.053
## 3205     natural_gas       1721      1.000
## 3207       petroleum       2531      5.800
## 3208            coal      60879     22.369
## 3209            coal      43478     23.780
## 3210            coal       1031     25.294
## 3211     natural_gas     237919      1.111
## 3212     natural_gas     133489      1.030
## 3213     natural_gas       9500      1.026
## 3214   petroleum_coke     18997     28.030
## 3215            coal       3764     25.724
## 3216     natural_gas         93      1.008
## 3217     natural_gas       5744      1.020
## 3219     natural_gas        604      1.020
## 3220     natural_gas    1886667      1.022
## 3221            coal        604     24.950
## 3222            coal      25016     24.694
## 3223       petroleum      50000      6.355
## 3224            coal      16387     17.790
```

```
## 3225      natural_gas      1411449       1.048
## 3226             coal        26452      23.375
## 3227      natural_gas           18       1.000
## 3229      natural_gas       425591       1.060
## 3230             coal         8553      23.800
## 3233             coal        27504      22.920
## 3234             coal        22999      24.056
## 3235             coal        27158      24.102
## 3236      natural_gas          911       1.021
## 3237      natural_gas       122659       1.012
## 3238      natural_gas        46295       1.005
## 3240        petroleum         3697       5.810
## 3241             coal        33308      25.632
## 3243             coal        16392      25.760
## 3244      natural_gas        39133       1.030
## 3245      natural_gas      2451053       1.020
## 3247             coal        32051      25.390
## 3249      natural_gas       415181       1.025
## 3250        petroleum          307       5.770
## 3251             coal       134398      17.570
## 3253             coal        40435      22.278
## 3254             coal       197437      17.538
## 3255      natural_gas        15866       1.021
## 3256      natural_gas        60857       1.043
## 3257        petroleum         1434       5.880
## 3259        petroleum           92       5.850
## 3260      natural_gas         4355       0.949
## 3261      natural_gas       175114       0.990
## 3262      natural_gas      2391190       1.000
## 3263             coal        10909      24.580
## 3264             coal        69545      16.412
## 3267      natural_gas       156740       1.029
## 3268             coal        53331      27.900
## 3269      natural_gas        79457       1.032
## 3270        petroleum        47874       5.670
## 3271             coal        13135      24.350
## 3272      natural_gas         2994       1.025
## 3273      natural_gas          812       1.020
## 3274      natural_gas       857137       1.040
## 3275      natural_gas           18       1.000
## 3276      natural_gas        85652       1.020
## 3277      natural_gas         7648       1.020
## 3279      natural_gas          210       1.036
## 3281             coal        28334      24.980
## 3282        petroleum           26       5.830
## 3283             coal         9740      23.526
## 3284      natural_gas       158728       1.057
## 3287        petroleum        59449       6.288
## 3288      natural_gas       489021       1.033
## 3289      natural_gas           64       1.011
## 3290      natural_gas        69614       1.020
## 3291      natural_gas        11417       1.041
## 3292      natural_gas         4850       1.027
## 3295      natural_gas       662553       1.016
```

```
## 3296      natural_gas          921557          1.066
## 3297             coal           22006         25.410
## 3298             coal           64406         26.031
## 3299             coal            6845         23.880
## 3300      natural_gas         2250306          1.032
## 3301      natural_gas           12958          1.021
## 3302      natural_gas           21817          1.058
## 3303      natural_gas           14209          1.013
## 3304             coal             111         21.150
## 3305      natural_gas             456          1.027
## 3306             coal          130413         16.730
## 3307      natural_gas          312498          1.040
## 3308      natural_gas          306879          1.021
## 3310             coal            5127         25.110
## 3311      natural_gas             144          1.006
## 3313             coal            9996         25.950
## 3315      natural_gas            3655          1.027
## 3316             coal            9605         24.670
## 3317             coal           51250         21.910
## 3318             coal           25085         26.070
## 3319      natural_gas          799473          1.000
## 3320      natural_gas         1070827          1.012
## 3321             coal            2808         21.680
## 3322      natural_gas            1133          1.000
## 3324      natural_gas         1311419          1.030
## 3325             coal            3090         22.630
## 3327      natural_gas            3467          1.008
## 3328      natural_gas         2244897          1.094
## 3329             coal           34265         16.600
## 3330             coal          291638         16.900
## 3331             coal          192411         22.320
## 3332      natural_gas           10000          1.010
## 3333      natural_gas          419104          1.044
## 3335      natural_gas               2          1.067
## 3336      natural_gas          114859          1.047
## 3339      natural_gas           38300          1.044
## 3340      natural_gas         1729940          1.035
## 3341      natural_gas           23994          1.028
## 3342             coal           29211         16.784
## 3343             coal           31582         17.721
## 3344      natural_gas             276          1.248
## 3345             coal           10900         24.932
## 3347        petroleum            3195          5.750
## 3348             coal            3473         22.710
## 3349             coal           84681         17.490
## 3350      natural_gas             184          1.019
## 3351      natural_gas          257817          1.037
## 3352      natural_gas           15018          1.024
## 3353      natural_gas           16129          1.065
## 3354             coal           25568         25.940
## 3355             coal           13917         26.260
## 3357      natural_gas           57026          1.011
## 3358             coal          145390         23.630
## 3359      natural_gas         1082615          1.049
```

```
## 3360         coal     82728   24.400
## 3361  natural_gas      7547    1.051
## 3362    petroleum      1607    5.800
## 3364         coal     94141   26.158
## 3365         coal    420945   19.191
## 3368    petroleum      1437    5.880
## 3369         coal     56200   18.062
## 3370         coal     25836   25.788
## 3371         coal    271800   25.050
## 3372  natural_gas      4075    1.000
## 3373  natural_gas    280937    1.030
## 3374         coal     19090   21.410
## 3375         coal     31828   16.784
## 3376  natural_gas   2058518    1.026
## 3377         coal     25484   22.232
## 3378  natural_gas        83    1.020
## 3379         coal      9745   13.230
## 3380         coal     12000   24.870
## 3381  natural_gas     34215    1.140
## 3382  natural_gas       801    1.031
## 3383         coal     88060   25.870
## 3386         coal    565365   17.780
## 3387  natural_gas     22140    1.097
## 3390         coal     26452   23.760
## 3391  natural_gas    189888    1.007
## 3392  natural_gas    467354    1.026
## 3394         coal      6233   22.060
## 3396  natural_gas    136075    1.009
## 3397  natural_gas      4117    1.002
## 3398  natural_gas     40077    1.033
## 3400         coal     48101   16.840
## 3401  natural_gas     54509    1.009
## 3402  natural_gas     46207    1.040
## 3403    petroleum        20    5.800
## 3404    petroleum     30936    6.573
## 3405  natural_gas     19173    1.017
## 3407         coal     79561   17.848
## 3408  natural_gas   1320422    1.045
## 3409         coal    119032   20.880
## 3410  natural_gas     38386    1.011
## 3411    petroleum       732    5.780
## 3413  natural_gas     90366    1.011
## 3414    petroleum       450    5.880
## 3415  natural_gas    538368    1.063
## 3416  natural_gas    118498    1.012
## 3417         coal     12108   23.960
## 3418         coal      8045   23.978
## 3419  natural_gas    532985    1.038
## 3420         coal     16864   17.110
## 3423         coal     16310   17.444
## 3424    petroleum      1175    6.620
## 3425  natural_gas      6230    1.099
## 3426  natural_gas    310563    1.037
## 3428    petroleum        64    5.800
```

```
## 3430      natural_gas         75066        1.051
## 3431             coal          75133       19.386
## 3433        petroleum           4524        5.780
## 3434      natural_gas          24158        1.040
## 3436      natural_gas         214944        1.033
## 3439             coal          45623       18.060
## 3440             coal            263       21.900
## 3441      natural_gas           2176        1.086
## 3442      natural_gas             62        1.034
## 3443             coal           2889       12.296
## 3444      natural_gas           1810        1.021
## 3445      natural_gas        2483001        1.011
## 3446      natural_gas         926618        1.042
## 3448      natural_gas          83688        1.030
## 3449             coal          13156       17.676
## 3450      natural_gas         413599        1.009
## 3451      natural_gas            684        1.030
## 3452             coal           8760       23.950
## 3455      natural_gas           6388        1.020
## 3456      natural_gas        2330081        1.023
## 3457        petroleum            227        5.883
## 3458             coal          10484       24.540
## 3459      natural_gas         172691        1.020
## 3460             coal          12019       25.010
## 3463             coal          10140       12.772
## 3464             coal          35760       24.960
## 3465      natural_gas         423708        1.023
## 3467        petroleum         213435        6.396
## 3468      natural_gas           4811        1.030
## 3469      natural_gas         151200        1.031
## 3470        petroleum            818        5.880
## 3471      natural_gas           8588        1.055
## 3473      natural_gas           3492        1.049
## 3475        petroleum              2        5.400
## 3477      natural_gas           1961        1.020
## 3479      natural_gas          60423        1.033
## 3480      natural_gas          13802        1.012
## 3481      natural_gas         933274        1.009
## 3482      natural_gas         244000        1.003
## 3484        petroleum            180        5.850
## 3485      natural_gas            384        1.020
## 3487             coal          96658       18.678
## 3488      natural_gas        2310931        1.030
## 3489      natural_gas           1570        1.032
## 3490      natural_gas         165049        1.030
## 3491             coal           4621       23.942
## 3492      natural_gas            359        1.030
## 3493      natural_gas             50        1.032
## 3495             coal          30979       17.740
## 3496      natural_gas          98598        1.022
## 3498             coal          64118       16.880
## 3499      natural_gas         170962        1.040
## 3500      natural_gas          18836        1.008
## 3501             coal         439968       16.320
```

```
## 3503       natural_gas        665870         1.031
## 3504       natural_gas           905         1.020
## 3505       natural_gas         41610         1.024
## 3506       natural_gas        220316         1.020
## 3507     petroleum_coke        15446        28.410
## 3508       natural_gas          2031         1.033
## 3509       natural_gas        452261         1.071
## 3510       natural_gas           313         1.000
## 3511       natural_gas           791         1.037
## 3512              coal         16460        17.304
## 3513       natural_gas            40         1.030
## 3514              coal         16000        24.348
## 3516       natural_gas        419027         0.969
## 3517              coal         32515        17.718
## 3518       natural_gas       2377801         1.024
## 3519       natural_gas         12887         1.000
## 3520       natural_gas            52         1.038
## 3521              coal         51888        23.780
## 3522              coal         15358        11.970
## 3523       natural_gas             8         1.000
## 3524              coal         15379        25.270
## 3526       natural_gas        111800         1.000
## 3528              coal        293264        16.520
## 3531         petroleum           243         5.660
## 3532       natural_gas       1699986         1.027
## 3533              coal         54962        17.784
## 3534       natural_gas         56868         1.044
## 3535              coal         11412        26.194
## 3536       natural_gas          2373         1.000
## 3537       natural_gas          7859         1.014
## 3538       natural_gas           310         1.049
## 3539       natural_gas         22695         1.000
## 3541       natural_gas        709811         1.046
## 3542              coal         16587        16.710
## 3543       natural_gas          3600         1.011
## 3544              coal         39287        22.010
## 3545     petroleum_coke        16693        28.180
## 3546       natural_gas        243642         1.011
## 3547              coal         66075        17.870
## 3549       natural_gas          9766         1.024
## 3550         petroleum          1767         5.794
## 3552       natural_gas         64369         1.030
## 3553              coal         10914        25.610
## 3554         petroleum          2343         6.200
## 3555              coal          3275        26.230
## 3556              coal          5210        23.960
## 3559       natural_gas        117660         1.060
## 3560       natural_gas            31         1.039
## 3561       natural_gas        126292         1.025
## 3562       natural_gas        393399         1.019
## 3563         petroleum          2827         5.817
## 3564              coal         81380        17.500
## 3567       natural_gas          6915         1.045
## 3569              coal         26371        22.854
```

```
## 3571         natural_gas          50322             1.031
## 3572         natural_gas        2220067             1.010
## 3574         natural_gas          44850             1.030
## 3576                coal          61964            23.706
## 3577                coal          76260            24.074
## 3578                coal            989            19.366
## 3580                coal          12789            14.100
## 3582         natural_gas         354251             1.000
## 3583         natural_gas        1128209             1.022
## 3586         natural_gas          22387             1.000
## 3588         natural_gas           2967             1.011
## 3589                coal          70536            17.500
## 3590         natural_gas         135998             1.000
## 3591         natural_gas           9154             1.040
## 3594         natural_gas            672             1.040
## 3596           petroleum           7426             5.630
## 3597         natural_gas              3             1.016
## 3599                coal          51876            24.820
## 3601         natural_gas         226001             1.070
## 3602                coal          11376            25.142
## 3603                coal          98001            16.977
## 3604         natural_gas         205357             1.035
## 3605         natural_gas         194152             1.033
## 3606         natural_gas          57293             0.992
## 3607                coal          65481            17.220
## 3608         natural_gas          41071             1.035
## 3611         natural_gas        2009700             1.020
## 3612                coal          13377            18.600
## 3614                coal            717            26.244
## 3615         natural_gas           5590             1.096
## 3616                coal          20912            25.404
## 3617         natural_gas        1789887             1.029
## 3620         natural_gas         513353             1.050
## 3621                coal          29727            22.665
## 3623         natural_gas         342326             1.040
## 3624         natural_gas          23791             1.028
## 3627                coal          10315            26.280
## 3629         natural_gas            398             1.027
## 3630         natural_gas         861220             1.035
## 3631         natural_gas            265             1.035
## 3632                coal          32509            17.960
## 3633         natural_gas        3000000             1.017
## 3634         natural_gas           7062             1.000
## 3635           petroleum             77             5.850
## 3637         natural_gas        1204648             1.000
## 3638         natural_gas        5979861             1.017
## 3639         natural_gas          21670             1.083
## 3640         natural_gas           3231             1.024
## 3641                coal          42510            17.140
## 3642         natural_gas          26540             1.032
## 3643                coal         251745            11.750
## 3644         natural_gas          74008             1.000
## 3645         natural_gas          10348             1.036
## 3648                coal          35826            17.714
```

```
## 3649         natural_gas           48545            1.000
## 3650                coal           46975           26.307
## 3651                coal           14403           22.051
## 3652                coal           82008           24.550
## 3653         natural_gas             872            1.022
## 3655                coal          104612           17.710
## 3657         natural_gas           43838            1.020
## 3659                coal           26016           22.918
## 3660         natural_gas          346295            1.040
## 3661         natural_gas            7182            1.032
## 3662           petroleum            3578            5.796
## 3663                coal           47673           17.822
## 3664                coal           20672           25.050
## 3665                coal           16477           17.520
## 3666         natural_gas             254            1.064
## 3667         natural_gas              25            1.083
## 3669           petroleum            1607            5.790
## 3670                coal            8434           22.432
## 3671                coal           29000           26.390
## 3673         natural_gas         2459922            1.030
## 3675         natural_gas            1193            1.025
## 3676         natural_gas          939809            1.050
## 3677                coal            3393           25.080
## 3678                coal             100           22.400
## 3680         natural_gas           18178            1.000
## 3681                coal             454           23.800
## 3682         natural_gas             419            1.032
## 3683         natural_gas         1102608            1.080
## 3684                coal            9247           25.470
## 3685                coal          108064           26.130
## 3686         natural_gas             915            1.000
## 3688         natural_gas           55621            1.027
## 3689         natural_gas            6936            1.033
## 3692      petroleum_coke           55116           28.120
## 3694         natural_gas           71891            1.005
## 3695           petroleum            5573            5.750
## 3696         natural_gas            1628            1.033
## 3697           petroleum             128            5.880
## 3698                coal          277882           24.974
## 3699                coal            1940           24.648
## 3700           petroleum            7407            6.620
## 3701                coal            3126           24.134
## 3703         natural_gas           37822            1.000
## 3704           petroleum               4            5.800
## 3707           petroleum            1250            5.817
## 3710                coal           25642           25.954
## 3711           petroleum            2135            5.820
## 3712                coal           11377           24.360
## 3713         natural_gas            4377            1.004
## 3714         natural_gas            1253            1.020
## 3715                coal           25448           22.440
## 3716         natural_gas             609            1.030
## 3717                coal          383485           17.680
## 3718         natural_gas          236743            1.041
```

```
## 3719           coal       10866       17.070
## 3721    natural_gas     1399969        1.030
## 3722    natural_gas        8916        1.020
## 3723    natural_gas       22865        1.032
## 3724      petroleum        1187        5.360
## 3725    natural_gas       28210        1.010
## 3726    natural_gas        4819        1.030
## 3727    natural_gas          33        1.016
## 3728           coal       39037       13.350
## 3729           coal       32496       16.880
## 3730    natural_gas       28954        1.000
## 3731    natural_gas     1787568        1.021
## 3733           coal      104944       22.866
## 3737    natural_gas      606060        1.023
## 3738      petroleum          46        5.660
## 3739    natural_gas           9        1.060
## 3740    natural_gas       23188        1.035
## 3741    natural_gas         153        1.230
## 3745           coal      275117       13.304
## 3746           coal       15373       16.920
## 3747    natural_gas       44883        1.014
## 3748    natural_gas          37        1.174
## 3749      petroleum          83        5.700
## 3752    natural_gas       24162        1.053
## 3755    natural_gas      102182        1.000
## 3756           coal       15748       16.958
## 3758      petroleum           2        5.900
## 3759    natural_gas     1864061        1.047
## 3760    natural_gas         532        1.040
## 3761      petroleum           7        5.850
## 3762      petroleum          18        5.850
## 3763      petroleum        3636        6.300
## 3765    natural_gas          26        1.000
## 3766      petroleum          44        5.700
## 3768      petroleum         200        5.846
## 3769    natural_gas       71447        1.034
## 3772    natural_gas       75856        1.016
## 3773           coal       56925       25.273
## 3774    natural_gas      661540        1.041
## 3777    natural_gas        5195        1.030
## 3778    natural_gas        1043        1.020
## 3780    natural_gas      577290        1.028
## 3781    natural_gas           4        1.024
## 3784           coal       12455       25.420
## 3786           coal       20703       26.310
## 3787    natural_gas          12        1.018
## 3789    natural_gas         181        1.028
## 3790           coal       58412       17.479
## 3791    natural_gas      119657        1.030
## 3792           coal         359       24.000
## 3793           coal       14790       17.710
## 3794    natural_gas       13162        0.912
## 3795           coal       30799       20.950
## 3796    natural_gas      217921        1.030
```

```
## 3797            coal      27855      22.894
## 3798     natural_gas     229870       1.002
## 3799     natural_gas      65216       1.025
## 3800            coal      75757      24.880
## 3802            coal      25373      23.872
## 3803     natural_gas      40231       1.032
## 3804            coal       3364      24.980
## 3806            coal     116822      16.690
## 3807     natural_gas     228748       1.028
## 3808            coal      13565      27.732
## 3809     natural_gas     663577       1.012
## 3810            coal       1547      23.618
## 3811     natural_gas     101000       1.000
## 3812     natural_gas      99483       1.000
## 3814            coal      10290      24.210
## 3815            coal        314      23.140
## 3816            coal      15501      24.084
## 3817     natural_gas     314270       1.053
## 3818     natural_gas         71       1.025
## 3822     natural_gas      62659       1.097
## 3823     natural_gas       1590       1.020
## 3824            coal      19641      25.225
## 3826     natural_gas         77       1.056
## 3827            coal        798      12.000
## 3828            coal       2908      22.130
## 3829     natural_gas       4704       1.060
## 3830     natural_gas    2222579       1.027
## 3831            coal       6481      24.080
## 3832            coal      16187      17.992
## 3835            coal        621      24.579
## 3836            coal      14718      16.500
## 3837            coal      31530      17.779
## 3838     natural_gas      37062       1.020
## 3839     natural_gas      58366       1.030
## 3840     natural_gas     462496       1.005
## 3841            coal       7600      23.516
## 3842     natural_gas     185183       1.031
## 3843     natural_gas     419781       1.020
## 3844            coal      88951      17.661
## 3847            coal      12926      24.850
## 3848            coal      25486      25.192
## 3849            coal      60328      23.210
## 3850     natural_gas       3498       1.048
## 3851     natural_gas        906       1.016
## 3852            coal      29373      17.270
## 3853     natural_gas       1497       1.020
## 3855     natural_gas       6234       1.000
## 3856            coal      10652      23.448
## 3857     natural_gas      24426       1.020
## 3858            coal      17942      21.906
## 3859     natural_gas    3726521       1.035
## 3860     natural_gas       9000       1.030
## 3861     natural_gas       1983       1.031
## 3862            coal        153      11.310
```

```
## 3864          coal      143776    16.156
## 3865          coal       28889    16.800
## 3866          coal       33793    25.400
## 3867          coal       32720    17.850
## 3871          coal       95939    17.740
## 3872   natural_gas       63311     1.033
## 3874          coal       14680    17.080
## 3875   natural_gas       10294     1.020
## 3876   natural_gas     4016417     1.038
## 3877          coal       16115    16.640
## 3878   natural_gas     1500000     1.014
## 3880     petroleum        1190     5.670
## 3881   natural_gas       22310     1.000
## 3882 petroleum_coke      18890    28.560
## 3883   natural_gas     1564324     1.005
## 3884          coal        9589    24.060
## 3885          coal        4874    20.108
## 3886     petroleum         790     5.669
## 3890   natural_gas      187956     1.012
## 3892   natural_gas        6455     1.007
## 3893   natural_gas       72693     1.030
## 3894     petroleum        3879     5.750
## 3895          coal       14165    24.336
## 3898   natural_gas      786316     1.055
## 3899   natural_gas          18     1.020
## 3900   natural_gas        1946     1.041
## 3901          coal       22122    26.300
## 3904   natural_gas       83683     1.101
## 3906          coal       10469    25.240
## 3908   natural_gas      866612     1.065
## 3910          coal       12873    24.700
## 3914   natural_gas        1302     1.028
## 3915   natural_gas      124484     1.041
## 3916     petroleum         179     5.800
## 3917          coal       14593    26.420
## 3919   natural_gas        7261     1.020
## 3920   natural_gas        2476     1.061
## 3921          coal         221    13.500
## 3924   natural_gas      360712     1.000
## 3925          coal        1205    24.710
## 3926   natural_gas      227209     1.030
## 3928     petroleum        2603     5.762
## 3929   natural_gas      488574     1.031
## 3930   natural_gas        3755     1.012
## 3931   natural_gas       76950     1.030
## 3932   natural_gas     2111523     1.024
## 3934          coal       14532    16.600
## 3936   natural_gas     1143910     1.020
## 3937          coal       33110    22.822
## 3938          coal        3726    23.862
## 3939   natural_gas      210155     1.000
## 3941   natural_gas        5909     1.013
## 3943          coal       80267    17.682
## 3944   natural_gas         334     1.035
```

```
## 3945    natural_gas    1912802     1.027
## 3946    natural_gas     402705     1.028
## 3948           coal     163632    25.006
## 3949      petroleum        177     5.880
## 3951           coal      67058    23.958
## 3952    natural_gas       4916     1.017
## 3953      petroleum       1417     5.850
## 3954      petroleum       4905     6.000
## 3955    natural_gas      38640     1.037
## 3956    natural_gas        199     1.210
## 3957    natural_gas       9172     1.063
## 3958           coal      19961    22.800
## 3959           coal      37408    22.906
## 3960    natural_gas      19642     1.018
## 3962           coal      12592    22.320
## 3964           coal      27330    26.050
## 3967      petroleum        812     5.762
## 3973    natural_gas    3329734     1.022
## 3974      petroleum        179     5.850
## 3980           coal      41003    25.890
## 3981    natural_gas      18821     1.010
## 3982    natural_gas     342739     1.050
## 3983    natural_gas      69020     1.032
## 3984    natural_gas       1612     1.000
## 3987           coal        119    18.150
## 3988    natural_gas        221     1.023
## 3989    natural_gas     177164     1.060
## 3991           coal      26707    25.265
## 3993           coal     205125    23.884
## 3995           coal      18880    23.530
## 3997    natural_gas     101846     1.032
## 3998    natural_gas      16306     1.000
## 3999    natural_gas     192657     1.100
## 4000    natural_gas    1245866     1.028
## 4002    natural_gas    2354754     0.996
## 4003      petroleum          8     5.880
## 4004           coal      44913    17.750
## 4006    natural_gas       2600     1.010
## 4007           coal      12473    24.638
## 4008           coal       1500    24.276
## 4009           coal      90681    17.590
## 4010    natural_gas       6873     1.000
## 4012    natural_gas       3678     1.030
## 4014    natural_gas        153     1.000
## 4016      petroleum        179     5.500
## 4017    natural_gas          1     1.000
## 4019    natural_gas     286965     1.000
## 4020           coal       8254    17.820
## 4021      petroleum        182     5.944
## 4023    natural_gas     462016     1.045
## 4024    natural_gas      16030     1.001
## 4025    natural_gas      62743     1.056
## 4026    natural_gas     105909     1.050
## 4028      petroleum         32     5.754
```

```
## 4029      natural_gas          802          1.204
## 4030      natural_gas           12          1.000
## 4031      natural_gas       472782          1.031
## 4033      natural_gas       340695          1.105
## 4036             coal         3305         23.000
## 4037             coal        76724         17.946
## 4038      natural_gas         1155          1.020
## 4039      natural_gas        47236          1.030
## 4040        petroleum          178          5.760
## 4041             coal         9726         24.152
## 4043             coal        10400         23.770
## 4044      natural_gas           78          1.000
## 4046             coal        90200         17.738
## 4047      natural_gas        27855          0.995
## 4048             coal        14165         14.030
## 4050      natural_gas       495311          1.111
## 4051      natural_gas         1734          1.020
## 4052             coal        16019         17.710
## 4053             coal         8944         24.042
## 4054      natural_gas          131          1.043
## 4055             coal        23013         24.119
## 4056             coal          533         25.600
## 4057      natural_gas        74673          1.028
## 4058        petroleum          238          5.691
## 4060        petroleum          123          6.430
## 4062             coal        16882         24.590
## 4063      natural_gas      1679591          1.013
## 4064      natural_gas      2941141          1.032
## 4065        petroleum        28210          5.700
## 4066   petroleum_coke        32343         27.600
## 4067        petroleum           45          5.850
## 4068      natural_gas       355818          1.030
## 4070      natural_gas         1065          1.019
## 4071      natural_gas        48977          1.066
## 4072             coal          391         22.810
## 4073      natural_gas        80619          1.042
## 4076             coal       136787         16.152
## 4077             coal       157792         19.320
## 4079      natural_gas          857          1.017
## 4080             coal        11874         24.804
## 4082             coal       205828         17.630
## 4083             coal        28632         23.220
## 4084             coal        98718         17.122
## 4085      natural_gas       478116          1.040
## 4086             coal        31819         18.075
## 4087             coal        39139         23.400
## 4088        petroleum           66          5.830
## 4089             coal         7833         24.770
## 4090      natural_gas      1526168          1.010
## 4091      natural_gas      5199828          1.000
## 4092             coal        56613         17.800
## 4093             coal        10560         25.540
## 4094             coal        18561         17.264
## 4095      natural_gas          164          1.019
```

```
## 4096    natural_gas         321      1.034
## 4098           coal       28708     24.060
## 4099    natural_gas        1048      1.018
## 4101           coal       80513     23.110
## 4102    natural_gas        8950      1.020
## 4103      petroleum         389      6.405
## 4104    natural_gas         413      1.000
## 4105      petroleum         682      5.900
## 4106           coal       11627     25.238
## 4107    natural_gas          95      1.000
## 4108    natural_gas       29331      1.013
## 4109           coal       96684     17.308
## 4111    natural_gas      137121      1.021
## 4112    natural_gas     1869305      1.023
## 4113    natural_gas      572339      1.014
## 4115    natural_gas       14634      1.030
## 4116    natural_gas       52891      1.000
## 4117           coal       55600     24.686
## 4118    natural_gas     1645432      1.010
## 4119    natural_gas        5760      1.030
## 4120           coal       12044     25.670
## 4121    natural_gas      709207      1.020
## 4123           coal       15505     18.030
## 4124    natural_gas         309      1.032
## 4125      petroleum        1881      5.780
## 4127           coal          43     17.810
## 4128    natural_gas       29458      1.027
## 4129    natural_gas       15900      1.090
## 4131           coal      117660     16.120
## 4132    natural_gas      137050      1.030
## 4133    natural_gas      988460      1.050
## 4134           coal       35800     17.096
## 4135      petroleum         179      5.754
## 4136           coal      281010     16.672
## 4138    natural_gas       71614      1.057
## 4139    natural_gas        1604      1.000
## 4140           coal       17083     25.740
## 4142           coal       21612     23.156
## 4144           coal       11304     25.200
## 4145    natural_gas       29468      1.030
## 4146    natural_gas        1505      1.010
## 4147    natural_gas          97      1.030
## 4150           coal      106579     18.048
## 4151      petroleum        1443      5.712
## 4152      petroleum         814      5.800
## 4153    natural_gas      332885      1.051
## 4154    natural_gas        4941      1.012
## 4155           coal       48524     18.694
## 4157    natural_gas        2208      1.061
## 4158      petroleum         514      5.850
## 4159    natural_gas        9681      1.040
## 4160    natural_gas       10493      1.040
## 4161    natural_gas       35762      1.039
## 4162    natural_gas        2087      1.000
```

```
## 4163        natural_gas        4846971         1.015
## 4165        natural_gas         134370         1.010
## 4166               coal           3330        17.840
## 4168        natural_gas         421545         1.040
## 4170        natural_gas          70000         1.017
## 4173               coal            611        25.610
## 4174        natural_gas         110153         1.000
## 4175        natural_gas         182933         1.028
## 4177        natural_gas             98         1.019
## 4178               coal          71383        18.420
## 4180        natural_gas        2299942         1.032
## 4182               coal           1430        15.113
## 4183        natural_gas            141         1.032
## 4184          petroleum            286         5.700
## 4185        natural_gas           2960         1.063
## 4186        natural_gas              2         1.020
## 4187        natural_gas         279917         1.066
## 4188        natural_gas        3458445         1.024
## 4189          petroleum           1063         5.820
## 4190               coal          10963        24.680
## 4191          petroleum            711         5.780
## 4192               coal           2565        14.400
## 4194               coal          56623        16.216
## 4195               coal          21093        22.886
## 4196        natural_gas            461         1.028
## 4197        natural_gas           9682         1.030
## 4198               coal           8432        23.100
## 4200        natural_gas         471765         1.008
## 4202          petroleum           1629         5.750
## 4203               coal         104242        16.172
## 4204          petroleum            512         5.850
## 4205               coal          38979        23.511
## 4207               coal          36766        25.620
## 4208        natural_gas         112784         1.060
## 4209          petroleum           2671         5.796
## 4211               coal            664        22.800
## 4212        natural_gas         320913         1.099
## 4213               coal          24344        19.020
## 4214               coal          43194        22.780
## 4215               coal           2538        13.170
## 4216               coal          27100        26.518
## 4217               coal          15239        17.800
## 4219        natural_gas              3         1.000
## 4220               coal         169978        21.976
## 4221               coal          16210        22.790
## 4223        natural_gas          89493         1.060
## 4224        natural_gas           8718         1.103
## 4225        natural_gas           4246         1.035
## 4226        natural_gas           4098         1.000
## 4227          petroleum           3505         5.796
## 4228        natural_gas         319334         1.026
## 4229               coal          48454        17.950
## 4230          petroleum           7919         5.800
## 4231        natural_gas            586         0.951
```

```
## 4232          coal        25377      24.060
## 4233          coal       171702      26.120
## 4234          coal        30321      21.880
## 4235          coal          243      17.076
## 4238   natural_gas         7354       1.030
## 4239     petroleum          502       5.800
## 4240   natural_gas         5977       1.020
## 4241   natural_gas      3052098       1.034
## 4242   natural_gas         4793       1.027
## 4243   natural_gas        70499       1.060
## 4244   natural_gas        15273       1.110
## 4245          coal        16496      17.250
## 4246     petroleum         1748       5.800
## 4247          coal       205577      25.530
## 4250   natural_gas        48759       1.020
## 4251   natural_gas        98311       1.040
## 4252   natural_gas         6141       1.000
## 4253   natural_gas        93546       1.022
## 4255          coal        11515      24.964
## 4256   natural_gas         3683       1.000
## 4258   natural_gas       525664       1.038
## 4259   natural_gas       322091       1.071
## 4260   natural_gas        61094       1.030
## 4261     petroleum         1667       5.880
## 4262   natural_gas       591453       1.050
## 4264          coal        17720      17.706
## 4265   natural_gas         7842       1.070
## 4268   natural_gas         7833       1.051
## 4269          coal         3274      20.730
## 4270          coal        23832      22.410
## 4271     petroleum         2411       5.700
## 4272   natural_gas        17760       1.018
## 4274   natural_gas        38127       1.029
## 4276          coal        34866      13.330
## 4278   natural_gas       362112       1.020
## 4279          coal        63580      23.600
## 4280          coal        47726      17.810
## 4281          coal       115963      17.934
## 4282   natural_gas          587       1.008
## 4283          coal        14000      17.820
## 4284          coal        70964      22.830
## 4285   natural_gas          958       1.038
## 4286   natural_gas      1733755       1.027
## 4287          coal        59050      19.634
## 4290   natural_gas        25463       1.025
## 4292   natural_gas       123720       1.000
## 4293   natural_gas         4320       1.020
## 4295          coal       480420      13.254
## 4296          coal         8066      25.822
## 4297   natural_gas       236442       1.043
## 4298     petroleum        16801       6.300
## 4299   natural_gas       236525       1.000
## 4300   natural_gas        40192       1.090
## 4301   natural_gas      2051893       1.038
```

```
## 4303          natural_gas                16             1.018
## 4304          natural_gas             71931             1.030
## 4305          natural_gas              8181             1.000
## 4307          natural_gas           4689496             1.030
## 4308          natural_gas             49181             1.024
## 4309          natural_gas                72             1.028
## 4310                 coal             12832            24.550
## 4311                 coal              8827            25.200
## 4312          natural_gas            723666             1.027
## 4313          natural_gas            183179             1.026
## 4314          natural_gas            106309             1.038
## 4315          natural_gas           1752813             1.019
## 4316          natural_gas             79520             1.046
## 4318          natural_gas             11381             1.028
## 4319          natural_gas             46882             1.090
## 4320          natural_gas             66029             1.079
## 4321                 coal              7138            26.090
## 4322                 coal             81485            17.986
## 4325                 coal             29631            17.086
## 4327          natural_gas              4864             1.028
## 4328          natural_gas             12252             1.016
## 4330                 coal             15133            16.986
## 4332          natural_gas            239343             1.030
## 4333          natural_gas           2648927             1.050
## 4336          natural_gas               122             1.000
## 4337          natural_gas            644838             1.020
## 4341          natural_gas           1149049             1.073
## 4344          natural_gas            214357             1.033
## 4345       petroleum_coke            43427            28.460
## 4346          natural_gas             13858             1.230
## 4347          natural_gas              5660             1.239
## 4348                 coal             94669            16.670
## 4349                 coal             42139            26.164
## 4350          natural_gas             56690             1.009
## 4351          natural_gas            195527             1.034
## 4354          natural_gas             15315             1.110
## 4355                 coal             11724            24.724
## 4357          natural_gas           3753199             1.037
## 4358          natural_gas             29606             1.013
## 4359          natural_gas              1991             1.034
## 4361                 coal             36317            17.600
## 4362                 coal             27783            17.290
## 4363            petroleum               180             5.850
## 4364          natural_gas            887428             1.030
## 4366                 coal              4956            23.204
## 4367          natural_gas            117702             1.019
## 4368            petroleum               171             5.900
## 4370          natural_gas              1946             1.016
## 4371          natural_gas             14205             1.056
## 4373          natural_gas            103630             1.041
## 4374                 coal             90895            17.700
## 4376            petroleum               207             5.880
## 4377          natural_gas           2139056             1.029
## 4380          natural_gas               364             1.021
```

```
## 4382          coal       15215   25.900
## 4383   natural_gas     2772408    1.039
## 4384   natural_gas       97735    1.065
## 4385          coal        1800   24.056
## 4386   natural_gas       16097    1.034
## 4388          coal       11720   25.890
## 4389   natural_gas         234    1.053
## 4391     petroleum         593    5.796
## 4392     petroleum         112    5.817
## 4394   natural_gas       91795    1.016
## 4396          coal       92241   17.944
## 4399   natural_gas      471338    1.025
## 4400   natural_gas           5    1.037
## 4401          coal        5100   24.170
## 4402   natural_gas        8628    1.020
## 4403          coal       11317   17.749
## 4404   natural_gas        1428    1.070
## 4405          coal       49162   17.930
## 4406   natural_gas      436219    0.985
## 4407     petroleum        2679    5.800
## 4408   natural_gas      401721    1.075
## 4409          coal       15264   25.920
## 4411   natural_gas       58252    1.030
## 4413   natural_gas      254208    1.043
## 4414   natural_gas     1173110    0.900
## 4415   natural_gas     1094949    1.030
## 4416   natural_gas         236    1.000
## 4417   natural_gas      104292    1.017
## 4418   natural_gas         365    1.030
## 4419          coal       15849   17.600
## 4420          coal       27787   20.840
## 4421          coal       30325   23.900
## 4422   natural_gas       26754    1.026
## 4423   natural_gas        3789    1.030
## 4425          coal       70773   17.698
## 4426   natural_gas      328010    1.016
## 4427   natural_gas     2330635    1.017
## 4428   natural_gas     1690134    1.012
## 4429   natural_gas       17752    1.032
## 4430          coal       35355   17.884
## 4431     petroleum        3719    5.920
## 4432     petroleum         177    5.754
## 4433   natural_gas        9442    1.010
## 4434          coal       27009   17.340
## 4435          coal       13567   22.300
## 4436   natural_gas      549924    1.000
## 4437          coal       11678   24.130
## 4438          coal       78665   17.410
## 4442   natural_gas          58    1.017
## 4443          coal      102116   25.103
## 4445   natural_gas      922349    1.010
## 4446   natural_gas     1382240    1.028
## 4447   natural_gas       43269    1.040
## 4448   natural_gas       42336    1.047
```

```
## 4449             coal         22894      23.635
## 4451      natural_gas          1023       1.027
## 4453        petroleum         41112       5.733
## 4455      natural_gas           203       1.000
## 4456             coal         31719      22.600
## 4457             coal         12022      24.688
## 4458             coal         39662      24.200
## 4459             coal         13585      17.430
## 4460             coal         12970      24.080
## 4461   petroleum_coke          9464      27.888
## 4462             coal          6745      26.000
## 4463      natural_gas         12687       1.230
## 4464      natural_gas         10390       1.099
## 4467             coal         31415      17.796
## 4468        petroleum           355       5.833
## 4469      natural_gas         78354       1.021
## 4471        petroleum           653       6.100
## 4472             coal          5084      22.271
## 4473      natural_gas          1945       1.019
## 4475      natural_gas        185338       1.025
## 4477             coal         15690      17.600
## 4480      natural_gas        438552       1.016
## 4482      natural_gas          3036       1.029
## 4483             coal         22568      23.804
## 4484      natural_gas          1540       1.002
## 4485      natural_gas          4084       1.031
## 4488             coal         38419      24.374
## 4489      natural_gas         51600       1.030
## 4490             coal        267229      22.094
## 4491      natural_gas          1497       1.032
## 4492      natural_gas         60675       1.014
## 4493      natural_gas         29126       1.013
## 4494             coal         23978      23.147
## 4495             coal         15625      17.370
## 4498      natural_gas          1541       1.032
## 4499             coal        149182      24.686
## 4500      natural_gas           273       1.029
## 4502      natural_gas          2972       1.030
## 4503      natural_gas       2889831       1.039
## 4504      natural_gas         46343       1.030
## 4505      natural_gas       1554805       1.032
## 4508      natural_gas        194466       1.040
## 4509        petroleum            30       5.800
## 4510             coal          7312      17.570
## 4511             coal         55014      22.912
## 4512             coal           398      23.430
## 4513      natural_gas        195640       1.038
## 4514        petroleum        158812       5.800
## 4516      natural_gas            21       1.000
## 4517      natural_gas           939       1.010
## 4518      natural_gas        114214       1.027
## 4519      natural_gas         12856       1.000
## 4520             coal         37905      17.610
## 4521        petroleum          1310       5.800
```

```
## 4522    natural_gas         96715     1.035
## 4524           coal        110628    18.094
## 4525    natural_gas           511     1.061
## 4526    natural_gas         61422     1.024
## 4527           coal         32358    25.202
## 4529           coal         22280    22.060
## 4530           coal         13800    29.000
## 4531    natural_gas         19345     1.096
## 4532    natural_gas        201507     1.037
## 4533           coal         69064    17.570
## 4534    natural_gas        950327     1.029
## 4535           coal          1687    23.172
## 4536           coal          1130    26.050
## 4537           coal          3300    24.344
## 4538    natural_gas        289505     1.017
## 4539    natural_gas        238886     1.015
## 4541      petroleum           916     5.880
## 4542    natural_gas         77447     1.000
## 4543    natural_gas       3160416     1.016
## 4545           coal         11353    25.336
## 4546    natural_gas         10261     1.033
## 4548    natural_gas        105527     1.020
## 4549    natural_gas            16     1.000
## 4550           coal         14555    17.380
## 4552    natural_gas        197864     1.000
## 4555    natural_gas       7386324     1.030
## 4556           coal         93132    20.358
## 4558    natural_gas          1042     1.047
## 4560           coal        208330    17.780
## 4561           coal          1467    23.000
## 4562    natural_gas        371177     1.015
## 4564    natural_gas       2643757     1.016
## 4565    natural_gas        206993     1.000
## 4566           coal        103953    23.142
## 4567           coal         38763    21.914
## 4568    natural_gas        481241     1.030
## 4569    natural_gas            17     1.020
## 4572    natural_gas           362     1.048
## 4574           coal        184900    17.474
## 4575    natural_gas          9616     1.024
## 4577    natural_gas         51979     1.062
## 4578    natural_gas       2610914     1.019
## 4580    natural_gas         12985     1.017
## 4581           coal         13447    17.580
## 4582           coal        194394    13.010
## 4583    natural_gas          4825     1.031
## 4584    natural_gas        109883     1.030
## 4585    natural_gas        222652     1.007
## 4586    natural_gas        266682     1.030
## 4587    natural_gas       1580766     1.027
## 4589           coal          3172    23.540
## 4590    natural_gas         26333     1.013
## 4592    natural_gas         32820     1.000
## 4593    natural_gas          3089     1.030
```

```
## 4594    natural_gas      292346     1.025
## 4596      petroleum        1450     5.796
## 4598    natural_gas      158477     1.040
## 4599    natural_gas        7775     1.029
## 4601    natural_gas          16     1.000
## 4602    natural_gas          52     1.031
## 4603           coal       75746    17.300
## 4604           coal       32318    24.254
## 4605    natural_gas     2440879     1.031
## 4606    natural_gas      121237     1.060
## 4607    natural_gas        4442     1.028
## 4608           coal       11559    26.120
## 4609    natural_gas      205072     1.030
## 4611    natural_gas          41     1.030
## 4612    natural_gas       28186     1.052
## 4614      petroleum         482     5.900
## 4615    natural_gas      220442     0.996
## 4616    natural_gas       25732     1.008
## 4617    natural_gas        4127     1.040
## 4618    natural_gas       36604     1.018
## 4619    natural_gas        3614     1.079
## 4620           coal        9328    24.090
## 4621    natural_gas       23744     1.070
## 4622           coal       10188    25.100
## 4624    natural_gas      280064     1.001
## 4625    natural_gas         100     1.017
## 4626    natural_gas     1236828     1.034
## 4627    natural_gas        4115     1.040
## 4628    natural_gas      127771     1.011
## 4629    natural_gas       15591     1.044
## 4630           coal       69620    17.550
## 4632    natural_gas        2475     1.010
## 4634      petroleum      197806     5.924
## 4635    natural_gas       70175     1.020
## 4636           coal       73948    18.576
## 4637           coal       32623    18.150
## 4639    natural_gas      114571     1.030
## 4640           coal       15170    17.800
## 4641    natural_gas        3335     1.062
## 4642    natural_gas       13720     1.069
## 4643    natural_gas      292960     1.028
## 4645           coal       28638    17.910
## 4646           coal      408115    16.690
## 4647           coal       16214    25.610
## 4648    natural_gas       14683     1.040
## 4649    natural_gas     1087909     1.027
## 4650    natural_gas        2980     1.010
## 4651           coal       58289    17.600
## 4652    natural_gas       26216     1.030
## 4653           coal        7232    24.444
## 4654      petroleum          19     5.800
## 4656    natural_gas         467     1.000
## 4657    natural_gas          96     1.040
## 4658    natural_gas        5170     1.020
```

```
## 4659          coal         84106        17.850
## 4661   natural_gas         17035         0.999
## 4662   natural_gas           850         1.020
## 4664   natural_gas           256         1.049
## 4665   natural_gas          8501         1.027
## 4668   natural_gas       3631102         1.030
## 4669   natural_gas           761         1.015
## 4670   natural_gas          2014         1.028
## 4674          coal          7076        17.650
## 4675     petroleum           424         5.900
## 4676     petroleum         45537         5.820
## 4677     petroleum          1426         5.880
## 4678   natural_gas       1266049         1.035
## 4679          coal         76376        21.694
## 4683          coal         19468        22.676
## 4685   natural_gas           404         1.066
## 4686          coal         10720        24.570
## 4688          coal         23373        24.104
## 4689          coal         12100        23.286
## 4690   natural_gas        851588         1.030
## 4691   natural_gas         30023         1.030
## 4694   natural_gas          9284         1.031
## 4696          coal          3037        18.836
## 4697          coal          1772        23.060
## 4698          coal         11362        25.064
## 4699          coal          9073        24.530
## 4700   natural_gas          2339         0.995
## 4702          coal        159495        17.550
## 4704   natural_gas       1904954         0.969
## 4708   natural_gas         10568         1.060
## 4709     petroleum            21         5.800
## 4710     petroleum           184         5.775
## 4711   natural_gas        176244         1.019
## 4712          coal         33327        21.820
## 4714   natural_gas          2205         1.032
## 4715   natural_gas         78327         1.029
## 4716          coal         64300        25.218
## 4718          coal         31783        17.220
## 4719     petroleum           738         6.532
## 4720   natural_gas        589917         1.020
## 4721          coal         12053        24.188
## 4722   natural_gas        285392         1.038
## 4723   natural_gas          6052         1.188
## 4724          coal         62862        23.578
## 4725   natural_gas         98361         1.036
## 4728   natural_gas       2000000         1.012
## 4730          coal          1164        14.440
## 4731          coal         10964        17.500
## 4732   natural_gas        260371         1.028
## 4733   natural_gas           330         1.010
## 4734   natural_gas        466368         1.039
## 4735   natural_gas        226415         1.007
## 4736   natural_gas         54708         1.026
## 4737   natural_gas          4981         1.030
```

```
## 4738     natural_gas      546580     1.035
## 4739     natural_gas     1310136     1.030
## 4740     natural_gas     4216890     1.030
## 4741     natural_gas      103222     1.038
## 4742            coal          37    12.000
## 4744            coal       31609    16.330
## 4746     natural_gas        6331     1.017
## 4747       petroleum         190     6.000
## 4748            coal       14685    16.350
## 4749     natural_gas        1266     1.010
## 4750            coal       18491    23.600
## 4751     natural_gas      138516     1.020
## 4752     natural_gas      854767     1.010
## 4753     natural_gas        1531     1.240
## 4754            coal        8704    22.420
## 4755       petroleum        1403     5.754
## 4757     natural_gas         905     1.056
## 4759            coal       21852    23.100
## 4760            coal         192    23.510
## 4761     natural_gas     1526967     1.030
## 4762            coal       58831    16.400
## 4763     natural_gas        6354     1.023
## 4765            coal       14595    17.786
## 4766            coal       20034    24.620
## 4767            coal        6487    21.893
## 4769     natural_gas         161     1.000
## 4770     natural_gas     1161892     1.012
## 4771     natural_gas     3322744     1.019
## 4772     natural_gas       17508     1.000
## 4773     natural_gas       12902     1.010
## 4774            coal       25200    25.968
## 4776     natural_gas         879     1.056
## 4778     natural_gas       12560     1.035
## 4779     natural_gas          94     1.010
## 4780     natural_gas      323253     1.037
## 4781     natural_gas     3351982     1.054
## 4783     natural_gas       98521     1.058
## 4784            coal       32318    17.620
## 4786            coal       17466    24.240
## 4787            coal         134    13.600
## 4788       petroleum        2262     6.300
## 4789     natural_gas          66     1.032
## 4790            coal         460    25.072
## 4791            coal        7773    23.860
## 4793     natural_gas     1267460     1.011
## 4794     natural_gas      911790     1.014
## 4795     natural_gas      356390     1.001
## 4796            coal       29450    26.000
## 4797     natural_gas        7176     1.020
## 4798     natural_gas      657685     1.035
## 4799            coal       10225    25.000
## 4800     natural_gas        2780     1.000
## 4801     natural_gas      532693     1.015
## 4804     natural_gas      782960     1.020
```

```
## 4805         natural_gas          108274          1.000
## 4806         natural_gas          186284          1.020
## 4807         natural_gas             991          1.047
## 4808         natural_gas            2655          1.102
## 4809         natural_gas          884740          1.019
## 4810                coal           28284         25.410
## 4812         natural_gas          865660          1.031
## 4813                coal           46182         16.740
## 4814                coal            5888         23.716
## 4815         natural_gas          169722          1.016
## 4816                coal           47714         17.992
## 4817                coal           15658         26.000
## 4820                coal           12641         18.369
## 4821         natural_gas            4066          1.029
## 4822         natural_gas           12550          1.048
## 4823                coal           15093         23.920
## 4824         natural_gas         1393851          1.001
## 4826         natural_gas         1327120          1.032
## 4827         natural_gas           99280          1.029
## 4828         natural_gas            3676          1.037
## 4829                coal           17173         24.350
## 4830           petroleum            2999          5.880
## 4831         natural_gas           22024          1.030
## 4832         natural_gas            1208          1.000
## 4833         natural_gas           41874          1.065
## 4834         natural_gas          106130          1.011
## 4835         natural_gas           21550          1.014
## 4836                coal            9585         23.418
## 4837                coal            6701         24.816
## 4838           petroleum             242          5.850
## 4839           petroleum             353          5.790
## 4841                coal           14687         16.800
## 4844                coal           12037         23.731
## 4845                coal           12197         26.620
## 4846         natural_gas         1926508          1.021
## 4848         natural_gas          121933          1.028
## 4851           petroleum            4643          5.830
## 4852         natural_gas            8869          1.000
## 4853         natural_gas             961          1.000
## 4854         natural_gas          111314          1.032
## 4855         natural_gas             106          1.033
## 4856                coal           36692         26.090
## 4857         natural_gas             775          1.233
## 4858         natural_gas           36377          1.030
## 4860         natural_gas          361209          1.021
## 4861         natural_gas           17858          1.018
## 4862           petroleum              78          5.800
## 4864         natural_gas           70756          1.030
## 4865         natural_gas         1499041          1.060
## 4866         natural_gas           50804          1.052
## 4867         natural_gas           30332          1.055
## 4868         natural_gas          168859          1.027
## 4869                coal          129755         16.278
## 4871         natural_gas            6898          1.054
```

```
## 4873            coal        2354    26.260
## 4875            coal       13395    14.100
## 4876     natural_gas      695655     1.021
## 4878     natural_gas     1130142     1.036
## 4880     natural_gas        7989     1.004
## 4881     natural_gas          93     1.000
## 4882     natural_gas      900856     1.009
## 4884            coal       12064    25.690
## 4885     natural_gas         823     1.030
## 4886            coal      165074    15.786
## 4888     natural_gas        4934     1.030
## 4889     natural_gas       36236     1.043
## 4890     natural_gas     1530971     1.018
## 4891     natural_gas          74     1.032
## 4892            coal       31336    23.000
## 4893            coal       47339    23.840
## 4894     natural_gas       10936     1.019
## 4896     natural_gas        2288     1.083
## 4897     natural_gas      540194     1.025
## 4898            coal       61989    23.000
## 4901     natural_gas         404     1.033
## 4903     natural_gas      279472     1.020
## 4905     natural_gas      262208     1.029
## 4906     natural_gas        4859     1.029
## 4907            coal        9164    26.000
## 4908     natural_gas        7028     1.061
## 4909     natural_gas     1388711     1.014
## 4911     natural_gas        4904     1.078
## 4915            coal      120032    24.090
## 4916            coal         128    23.520
## 4918            coal        6643    23.570
## 4922            coal         630    24.590
## 4924            coal       38859    16.190
## 4925       petroleum         537     5.787
## 4926            coal       77710    17.120
## 4927            coal       16284    25.210
## 4931     natural_gas        8134     1.018
## 4932            coal       28767    17.540
## 4934       petroleum         795     6.000
## 4935            coal        6715    25.100
## 4936     natural_gas       74445     1.013
## 4937     natural_gas      448912     1.024
## 4939            coal        6905    24.259
## 4941     natural_gas        4315     1.005
## 4942       petroleum         641     5.770
## 4943     natural_gas        9552     1.016
## 4944     natural_gas         362     1.030
## 4945     natural_gas        3186     1.070
## 4946     natural_gas       33444     1.011
## 4947     natural_gas        9823     1.018
## 4948     natural_gas       99932     1.024
## 4950     natural_gas     1617027     1.030
## 4952     natural_gas     3192700     1.025
## 4953     natural_gas     1124638     1.035
```

```
## 4954   natural_gas      67667    1.030
## 4955          coal       13760   17.600
## 4956   natural_gas     1349345    1.026
## 4957      petroleum        1816    5.900
## 4958   natural_gas         879    1.030
## 4959   natural_gas       17647    1.107
## 4960          coal         705   25.468
## 4961          coal        3245   24.778
## 4962          coal        3262   22.620
## 4964   natural_gas     2266270    1.033
## 4969   natural_gas     1341200    1.015
## 4970   natural_gas       12473    1.022
## 4971   natural_gas           6    1.000
## 4972          coal       38838   17.460
## 4974          coal       74550   21.608
## 4976          coal       47845   17.208
## 4977   natural_gas        3800    1.020
## 4980   natural_gas       93070    1.030
## 4983   natural_gas       19074    1.070
## 4984      petroleum       44224    5.900
## 4985   natural_gas         615    1.040
## 4986          coal       12213   23.700
## 4987   natural_gas       10039    1.233
## 4989   natural_gas        9686    1.000
## 4991   natural_gas      196194    1.051
## 4992   natural_gas      704141    1.000
## 4994   natural_gas     1181308    1.022
## 4996          coal      125511   17.050
## 4997   natural_gas     1595170    1.028
## 4999   natural_gas      257697    1.070
## 5000          coal        6715   23.819
## 5001   natural_gas         380    1.021
## 5002      petroleum          21    5.840
## 5003   natural_gas     1033832    1.020
## 5004      petroleum        3000    5.880
## 5005      petroleum       39747    5.900
## 5006      petroleum        3614    5.730
## 5007   natural_gas        3051    1.020
## 5009          coal      261884   17.588
## 5010          coal       37281   23.170
## 5011   natural_gas         176    1.000
## 5013      petroleum         666    5.880
## 5014          coal      211663   18.952
## 5015   natural_gas          11    1.000
## 5016          coal       11197   24.530
## 5019   natural_gas        6281    1.029
## 5020   natural_gas        7251    1.043
## 5021          coal       23552   21.150
## 5022   natural_gas       24045    1.026
## 5024          coal       72964   22.020
## 5026          coal       13024   25.012
## 5029          coal       15777   17.962
## 5030          coal       35632   22.400
## 5031          coal        2891   18.610
```

```
## 5033      natural_gas       843970       1.025
## 5034             coal        31368      22.800
## 5035             coal        32703      25.030
## 5036      natural_gas       434246       1.026
## 5037             coal        14957      17.650
## 5038  petroleum_coke         5986      27.052
## 5039      natural_gas          970       1.031
## 5043      natural_gas        74600       1.020
## 5044      natural_gas        36732       1.000
## 5045      natural_gas        12908       1.065
## 5046  petroleum_coke         8675      26.766
## 5047      natural_gas         9671       1.030
## 5048      natural_gas        11662       1.029
## 5050             coal        24460      25.920
## 5053      natural_gas            2       1.027
## 5055      natural_gas        12407       1.000
## 5057             coal        14156      17.940
## 5058      natural_gas         1974       1.029
## 5059        petroleum         5190       5.780
## 5060             coal        19972      23.810
## 5061             coal       304935      17.510
## 5064      natural_gas           25       1.000
## 5065             coal        61744      17.300
## 5066      natural_gas           19       1.000
## 5067        petroleum          142       5.800
## 5069      natural_gas       246342       1.003
## 5071      natural_gas        24929       1.027
## 5074      natural_gas         2786       1.010
## 5075             coal        81765      13.542
## 5076             coal        67569      17.850
## 5077      natural_gas         1059       1.036
## 5078      natural_gas       128035       1.040
## 5082      natural_gas      4012944       1.014
## 5084      natural_gas         5197       1.093
## 5085      natural_gas        44554       1.010
## 5086      natural_gas         8979       1.000
## 5087             coal        32816      17.000
## 5089      natural_gas        39776       1.021
## 5091             coal          215      17.720
## 5092      natural_gas      4632972       1.080
## 5094      natural_gas         8321       1.000
## 5097      natural_gas       124191       1.024
## 5101      natural_gas        59743       1.030
## 5102             coal       148797      16.244
## 5103             coal         1611      25.930
## 5104        petroleum          687       5.750
## 5106      natural_gas       230164       1.030
## 5108        petroleum        14797       5.740
## 5109             coal       127205      17.504
## 5110             coal        11551      23.188
## 5111      natural_gas        38454       1.037
## 5112      natural_gas          175       1.058
## 5113             coal        46761      23.060
## 5115             coal        55267      24.360
```

```
## 5117         coal       81333    18.410
## 5118  natural_gas       30775     1.050
## 5119  natural_gas        4663     0.963
## 5120    petroleum          73     5.850
## 5121         coal        1071    26.120
## 5122  natural_gas       10377     1.028
## 5123         coal        3201    23.310
## 5124  natural_gas      169733     1.032
## 5125         coal       79587    17.520
## 5126  natural_gas      670784     1.046
## 5128  natural_gas      279583     1.023
## 5130         coal       17069    18.518
## 5131  natural_gas         302     1.029
## 5132  natural_gas        1590     1.000
## 5133         coal        8202    26.560
## 5134  natural_gas      204958     1.034
## 5135         coal       78548    17.070
## 5136         coal       14413    24.872
## 5137    petroleum          37     5.850
## 5138    petroleum         345     5.800
## 5139  natural_gas       71400     1.026
## 5140  natural_gas       24191     1.030
## 5141         coal      301468    17.430
## 5143  natural_gas       82556     0.984
## 5144    petroleum         346     5.754
## 5145  natural_gas       13640     1.026
## 5146         coal      116707    24.770
## 5147  natural_gas      468468     1.010
## 5148  natural_gas         117     1.025
## 5149  natural_gas     3239629     1.008
## 5150    petroleum         133     5.880
## 5151  natural_gas        7722     0.989
## 5153  natural_gas      106429     1.029
## 5154         coal       48702    17.080
## 5155         coal         955    26.200
## 5156  natural_gas     1621157     1.050
## 5157         coal        1823    29.000
## 5158         coal        2303    24.224
## 5159         coal       14389    18.140
## 5160         coal        2504    24.846
## 5161  natural_gas      121603     1.035
## 5164    petroleum        1024     5.880
## 5166  natural_gas       88918     1.028
## 5168  natural_gas     1036211     1.011
## 5169         coal      123307    24.830
## 5170         coal         198    24.052
## 5171         coal      236297    12.982
## 5172  natural_gas     4610542     1.020
## 5173  natural_gas      173348     1.058
## 5174         coal         521    23.948
## 5175  natural_gas      117209     1.024
## 5176  natural_gas      310711     1.020
## 5177    petroleum        4346     5.790
## 5179    petroleum       27299     6.188
```

```
## 5180      natural_gas           3554         1.030
## 5185             coal          97861        17.700
## 5186             coal          31988        25.500
## 5187        petroleum             30         5.800
## 5188      natural_gas           8703         1.017
## 5189      natural_gas         408953         1.015
## 5190      natural_gas          82468         1.018
## 5191             coal         184309        17.830
## 5192             coal           7154        25.724
## 5193        petroleum          54570         5.800
## 5194             coal           1500        24.376
## 5195      natural_gas        2774108         1.027
## 5196      natural_gas         173586         1.010
## 5197      natural_gas         959137         1.060
## 5198      natural_gas         202800         1.030
## 5200             coal          10177        23.000
## 5201             coal          63382        17.704
## 5202             coal          58975        21.842
## 5203             coal            944        16.326
## 5206             coal          27253        22.332
## 5207      natural_gas           9710         1.030
## 5208      natural_gas         858537         1.110
## 5209             coal           4015        24.676
## 5210      natural_gas              4         1.060
## 5213      natural_gas         684341         1.015
## 5214      natural_gas          64443         1.000
## 5215             coal           8566        24.830
## 5218      natural_gas         353113         1.028
## 5219      natural_gas         861223         1.053
## 5220      natural_gas          26052         1.033
## 5223             coal         120024        23.108
## 5225             coal         110590        16.670
## 5226             coal          12888        26.314
## 5227             coal          13790        17.790
## 5228      natural_gas           3191         1.024
## 5229      natural_gas            157         1.030
## 5230      natural_gas           1508         0.999
## 5232             coal          16057        23.977
## 5233      natural_gas           5774         1.027
## 5234      natural_gas          12207         1.024
## 5236      natural_gas            414         1.035
## 5237             coal          54590        22.584
## 5238      natural_gas             11         1.030
## 5239             coal         590274        14.170
## 5240      natural_gas        3267705         1.029
## 5241      natural_gas          25765         1.049
## 5242             coal          19348        25.142
## 5243             coal           7976        25.920
## 5244      natural_gas           4055         1.030
## 5246             coal         212780        16.726
## 5247             coal          63418        24.690
## 5248             coal         248351        23.785
## 5249      natural_gas          81982         1.035
## 5250      natural_gas           3031         1.027
```

```
## 5251    natural_gas      15115     1.040
## 5254    natural_gas      13007     1.020
## 5255           coal      34692    24.948
## 5256    natural_gas    2688342     1.000
## 5258           coal      90985    17.972
## 5260      petroleum       1784     5.790
## 5261    natural_gas      90550     1.016
## 5263    natural_gas       1148     1.000
## 5264           coal      34280    21.181
## 5265    natural_gas        479     1.051
## 5266    natural_gas     112804     1.002
## 5267    natural_gas      15502     1.020
## 5268           coal      30340    25.848
## 5269    natural_gas         15     1.000
## 5270    natural_gas     104165     1.023
## 5272      petroleum       2655     5.817
## 5274      petroleum         40     5.780
## 5275           coal      18550    26.120
## 5276           coal       3125    22.510
## 5277           coal     308113    16.720
## 5278      petroleum         86     5.796
## 5279           coal      10855    25.022
## 5280    natural_gas      98453     1.025
## 5281           coal       4292    22.868
## 5284      petroleum       3005     5.700
## 5285    natural_gas      58682     1.000
## 5286    natural_gas     261804     1.021
## 5287    natural_gas       1574     1.030
## 5288      petroleum        179     5.880
## 5289           coal       6833    25.280
## 5290    natural_gas    2572026     1.009
## 5292    natural_gas         49     0.974
## 5294           coal       7241    26.170
## 5295    natural_gas      39334     1.030
## 5296           coal      67371    17.920
## 5297    natural_gas    5139116     1.000
## 5298           coal      24618    22.170
## 5299    natural_gas      20788     1.005
## 5301    natural_gas         42     1.030
## 5302    natural_gas     473292     1.040
## 5303           coal      16696    17.540
## 5304           coal      29617    17.600
## 5307      other_gas     118359     0.500
## 5308    natural_gas      34455     1.016
## 5309           coal      15185    17.272
## 5310           coal       7883    27.026
## 5313    natural_gas        973     1.028
## 5315           coal      65318    17.280
## 5316           coal      23368    21.660
## 5317    natural_gas    2946317     1.000
## 5319      petroleum       1787     5.880
## 5320           coal      68288    26.220
## 5321    natural_gas    1184463     1.038
## 5322    natural_gas      15109     1.020
```

```
## 5323       petroleum           70927          6.362
## 5325     natural_gas            2066          1.056
## 5326            coal           39512         24.667
## 5327     natural_gas           36028          1.032
## 5328     natural_gas          100325          1.035
## 5329     natural_gas         1094814          1.028
## 5333     natural_gas            3468          1.030
## 5334            coal           88475         23.030
## 5336     natural_gas         1008977          1.045
## 5337  petroleum_coke            1519         27.730
## 5338     natural_gas          201447          1.089
## 5339            coal           44680         23.800
## 5341       petroleum           10839          5.800
## 5343     natural_gas             436          1.100
## 5345     natural_gas            8661          1.000
## 5346     natural_gas           95471          1.035
## 5347     natural_gas           18705          1.030
## 5348     natural_gas            2194          1.025
## 5349       petroleum              59          6.000
## 5350            coal           57006         22.200
## 5351       other_gas          205322          0.984
## 5352       petroleum           35569          6.343
## 5355            coal            4317         17.700
## 5356     natural_gas            5709          1.028
## 5358     natural_gas          102779          1.020
## 5359     natural_gas           65083          1.032
## 5360            coal           15400         24.106
## 5361     natural_gas          446611          1.015
## 5362            coal            1189         18.232
## 5363     natural_gas          231728          1.030
## 5365            coal           12319         23.980
## 5366     natural_gas         1218506          1.019
## 5368            coal           18500         24.638
## 5370            coal           22012         24.150
## 5371            coal           18359         25.962
## 5372       petroleum            1136          5.750
## 5374     natural_gas          142910          1.026
## 5375     natural_gas            2796          1.025
## 5377       petroleum              88          5.880
## 5378            coal           46443         25.750
## 5379     natural_gas            1281          1.094
## 5380            coal           12440         24.214
## 5381            coal            9717         20.860
## 5382     natural_gas              11          1.000
## 5383     natural_gas          557017          1.035
## 5384            coal            3242         23.589
## 5386            coal           11644         25.700
## 5387     natural_gas           48542          1.000
## 5389     natural_gas           79129          1.065
## 5390     natural_gas          100385          1.085
## 5391     natural_gas            6910          1.003
## 5392     natural_gas             367          1.020
## 5393     natural_gas           24469          1.011
## 5394            coal           61266         25.790
```

```
## 5395      natural_gas        15336       1.018
## 5396             coal        12587      24.840
## 5397      natural_gas      5702589       1.017
## 5398             coal          987      20.330
## 5399      natural_gas         1446       1.020
## 5400      natural_gas          373       1.019
## 5402        petroleum         1086       5.880
## 5403             coal       122036      17.240
## 5404             coal        82651      17.730
## 5405      natural_gas        27610       1.080
## 5407        petroleum         1133       6.300
## 5411             coal        11565      24.260
## 5416      natural_gas        14474       1.014
## 5417      natural_gas      5606027       1.015
## 5418        petroleum          386       6.070
## 5420      natural_gas           13       1.019
## 5421             coal        30768      17.761
## 5422             coal        15718      16.900
## 5423      natural_gas          691       1.010
## 5424      natural_gas       108358       1.045
## 5425      natural_gas        14206       1.023
## 5428      natural_gas         7611       1.068
## 5429      natural_gas       188129       1.025
## 5430             coal       345128      17.002
## 5431      natural_gas      2266112       1.026
## 5433        petroleum          145       5.880
## 5434             coal       145725      15.456
## 5435      natural_gas          955       1.032
## 5437      natural_gas      3846451       1.026
## 5438      natural_gas         6893       1.027
## 5440      natural_gas       182394       1.028
## 5441      natural_gas          141       1.020
## 5442      natural_gas          159       1.010
## 5443      natural_gas           66       1.000
## 5444             coal         1336      12.400
## 5445             coal        41333      17.180
## 5446      natural_gas         3417       1.031
## 5447      natural_gas            7       1.036
## 5448             coal       642557      21.600
## 5451      natural_gas         9176       1.048
## 5452             coal        73736      17.773
## 5453      natural_gas          152       1.043
## 5454             coal        11959      26.002
## 5455      natural_gas           43       1.036
## 5459      natural_gas           43       1.020
## 5460        petroleum         3220       5.700
## 5461      natural_gas         7266       1.017
## 5463      natural_gas       247057       1.015
## 5464             coal        35974      25.410
## 5465      natural_gas         9804       1.028
## 5466      natural_gas        32000       1.021
## 5467             coal         9736      26.138
## 5468      natural_gas         8163       1.000
## 5469      natural_gas      1529400       1.023
```

```
## 5470          coal        20726    17.756
## 5471          coal       251743    16.849
## 5473   natural_gas         7881     1.026
## 5475          coal        16403    17.560
## 5476          coal       343529    12.950
## 5478          coal        37202    22.316
## 5480          coal         2110    23.984
## 5483   natural_gas          251     1.017
## 5484          coal        14196    19.230
## 5485   natural_gas       135904     1.045
## 5486          coal         3180    19.690
## 5488     petroleum          238     6.000
## 5489     petroleum         5432     6.297
## 5490          coal       175205    17.544
## 5491   natural_gas      2129596     1.027
## 5492   natural_gas       102813     1.030
## 5493   natural_gas          589     1.093
## 5495   natural_gas       584258     1.038
## 5496          coal       107407    17.140
## 5497   natural_gas        76716     1.008
## 5498   natural_gas           89     1.020
## 5499   natural_gas          141     1.021
## 5500          coal        36609    24.701
## 5501   natural_gas        19579     1.066
## 5503   natural_gas       660661     1.084
## 5504   natural_gas        41866     1.220
## 5505          coal        32070    16.840
## 5506   natural_gas         3221     1.026
## 5508   natural_gas          767     1.009
## 5509   natural_gas       955195     1.021
## 5510   natural_gas        27689     1.026
## 5511   natural_gas       193945     1.000
## 5512   natural_gas       214296     1.029
## 5513   natural_gas          836     1.036
## 5515          coal        15572    26.260
## 5517   natural_gas       775605     0.999
## 5518          coal         4118    11.380
## 5519   natural_gas        52292     1.030
## 5520   natural_gas      1353723     1.128
## 5521          coal       108732    22.976
## 5525          coal       254250    16.960
## 5526          coal          301    23.460
## 5527          coal        23291    23.932
## 5528   natural_gas        33179     1.028
## 5529   natural_gas          883     1.019
## 5530     petroleum         2130     5.700
## 5531   natural_gas        28026     1.027
## 5532     petroleum         4084     5.780
## 5534   natural_gas        10356     1.030
## 5535          coal         1600    24.316
## 5537   natural_gas      2153265     1.058
## 5538   natural_gas      3237138     1.000
## 5539          coal       106313    17.768
## 5540   natural_gas      1541115     0.964
```

```
## 5541        natural_gas         6305          1.015
## 5542               coal         50991         23.182
## 5543               coal         22519         24.110
## 5544               coal         10238         24.382
## 5545        natural_gas        62016          1.036
## 5546               coal         39393         21.277
## 5547          petroleum          1044          5.767
## 5548               coal          4810         24.160
## 5549               coal         34582         22.980
## 5550        natural_gas         1278          1.013
## 5551               coal         31779         23.766
## 5552        natural_gas        36718          1.010
## 5553        natural_gas        19275          1.030
## 5554        natural_gas          866          1.032
## 5555          other_gas        388296         0.270
## 5556        natural_gas       745164          1.027
## 5557               coal         48100         25.728
## 5559               coal          9564         23.777
## 5561               coal         34377         26.260
## 5563        natural_gas        20440          1.033
## 5565               coal         12240         26.530
## 5566        natural_gas         2677          1.030
## 5567        natural_gas       120884          1.000
## 5568        natural_gas          326          1.121
## 5569               coal         14167         16.540
## 5572          petroleum           151          5.800
## 5573        natural_gas       892025          1.096
## 5574        natural_gas        17549          1.008
## 5575        natural_gas        42788          1.015
## 5576        natural_gas        87781          1.000
## 5578        natural_gas       553974          1.009
## 5579               coal          9196         25.230
## 5580        natural_gas       213167          1.028
## 5581        natural_gas        87000          1.046
## 5583        natural_gas      2333638          1.025
## 5584          other_gas        539500         0.692
## 5585        natural_gas        57198          1.035
## 5587          other_gas        548297         0.843
## 5588        natural_gas          221          1.000
## 5591               coal         30101         17.710
## 5592               coal          3838         24.430
## 5593        natural_gas        60392          1.020
## 5594               coal         35236         17.249
## 5596               coal         52869         23.460
## 5597        natural_gas        36577          1.032
## 5598        natural_gas        19319          1.022
## 5599        natural_gas        32069          1.017
## 5602        natural_gas        17225          1.020
## 5603        natural_gas          239          1.020
## 5605               coal         54342         17.144
## 5606               coal        240436         17.480
## 5607               coal         10492         24.314
## 5610               coal         26665         15.292
## 5611               coal        207442         17.605
```

```
## 5612         natural_gas          136          1.035
## 5613           petroleum         3593          5.670
## 5614         natural_gas       216571          1.000
## 5615         natural_gas        12062          1.028
## 5616         natural_gas            2          1.020
## 5617         natural_gas       262789          1.083
## 5618         natural_gas        14490          1.079
## 5619         natural_gas         9889          1.056
## 5620         natural_gas          217          1.026
## 5621         natural_gas      2816328          1.027
## 5623         natural_gas      1243231          1.027
## 5624                coal        47498         17.530
## 5625         natural_gas        13855          1.000
## 5626         natural_gas       288970          1.030
## 5627                coal        17239         17.900
## 5628         natural_gas       150647          1.020
## 5629                coal          550         23.190
## 5630                coal        14036         11.650
## 5631                coal         3056         23.866
## 5633                coal         2685         25.026
## 5634         natural_gas         6060          1.000
## 5635                coal         8758         25.600
## 5636         natural_gas         1210          1.030
## 5637         natural_gas            2          1.000
## 5640         natural_gas       424509          1.035
## 5641         natural_gas       408737          1.030
## 5642         natural_gas        13889          1.020
## 5643         natural_gas        61030          1.027
## 5644                coal       114204         24.190
## 5645                coal        42418         17.730
## 5646           other_gas       790406          1.037
## 5647         natural_gas         1876          1.036
## 5648         natural_gas         1653          1.000
## 5649         natural_gas       364048          1.029
## 5650                coal        26870         22.974
## 5651         natural_gas       655363          1.010
## 5652      petroleum_coke        58360         28.678
## 5653         natural_gas        19011          1.025
## 5654         natural_gas      1369859          1.044
## 5655           petroleum         1473          5.810
## 5656         natural_gas       422276          1.029
## 5657           petroleum           38          5.880
## 5658         natural_gas          143          1.014
## 5660         natural_gas        19608          1.020
## 5664                coal        14608         16.710
## 5665         natural_gas         9549          1.029
## 5670                coal         3161         23.230
## 5671                coal         1383         12.100
## 5672           petroleum          119          5.880
## 5673                coal         5205         22.560
## 5674                coal          111         14.000
## 5675         natural_gas          239          1.030
## 5676         natural_gas       669171          1.024
## 5677         natural_gas         2675          1.021
```

```
## 5678       natural_gas        759437        1.031
## 5679       natural_gas          4319        1.000
## 5680       natural_gas       1087501        1.020
## 5682       natural_gas          1381        1.018
## 5684       natural_gas       1721928        1.048
## 5685       natural_gas         55000        1.017
## 5686              coal         10770       25.916
## 5687         petroleum             5        5.600
## 5689         petroleum            98        5.750
## 5690       natural_gas            52        1.032
## 5691              coal          2185       21.888
## 5692              coal           657       25.400
## 5693       natural_gas        657516        1.031
## 5698         petroleum           138        5.670
## 5699              coal        200632       18.746
## 5700       natural_gas         10410        1.027
## 5701              coal         33777       22.872
## 5702         petroleum          7324        5.796
## 5703              coal        279339       17.479
## 5704       natural_gas            74        1.090
## 5705       natural_gas            70        1.030
## 5707       natural_gas          3973        1.008
## 5709       natural_gas          8179        1.040
## 5710              coal         47176       17.520
## 5711       natural_gas          6383        1.000
## 5713       natural_gas        106598        1.000
## 5715       natural_gas        641993        1.023
## 5716       natural_gas        537161        1.027
## 5718              coal         17574       26.180
## 5719    petroleum_coke         49717       29.090
## 5720       natural_gas         19596        1.063
## 5721              coal          3545       26.000
## 5722              coal         38853       26.280
## 5723              coal         72762       17.572
## 5724       natural_gas           139        1.028
## 5726       natural_gas        118892        1.029
## 5727       natural_gas           110        1.047
## 5728       natural_gas       2331209        1.020
## 5730         petroleum            29        5.813
## 5731       natural_gas       1602759        1.042
## 5732              coal         24350       22.896
## 5734         petroleum           522        5.754
## 5735       natural_gas          2133        1.050
## 5736              coal           549       24.000
## 5737       natural_gas          1129        1.015
## 5738       natural_gas        298918        1.050
## 5739       natural_gas          1990        1.076
## 5740       natural_gas          1583        1.020
## 5741       natural_gas        812772        1.081
## 5742       natural_gas        659064        1.017
## 5743       natural_gas         18924        1.032
## 5744         petroleum          6976        5.840
## 5746              coal         31386       16.640
## 5747       natural_gas         27945        1.029
```

```
## 5748       natural_gas         101729         1.065
## 5749              coal          13382        17.740
## 5750              coal           1361        24.800
## 5752       natural_gas          45280         1.084
## 5753              coal          57127        17.500
## 5754              coal           1227        12.400
## 5756       natural_gas        2213061         1.029
## 5757       natural_gas        1820360         0.990
## 5758       natural_gas          16340         1.022
## 5759       natural_gas            255         1.027
## 5760              coal          47668        17.930
## 5764       natural_gas         192823         1.046
## 5765       natural_gas           1035         1.000
## 5767       natural_gas            465         1.020
## 5768       natural_gas          53657         1.028
## 5769              coal          42116        26.244
## 5771              coal          13699        22.306
## 5772              coal          33714        24.986
## 5773       natural_gas         136595         1.022
## 5774       natural_gas         187352         1.031
## 5775       natural_gas           2987         1.000
## 5776              coal          11363        26.140
## 5777       natural_gas         127412         1.027
## 5779       natural_gas        2981295         1.023
## 5781              coal         160275        16.032
## 5782              coal         191714        13.670
## 5783              coal          21405        23.604
## 5784         petroleum            178         5.768
## 5786       natural_gas          46575         1.008
## 5787       natural_gas            683         1.034
## 5788       natural_gas          10000         1.028
## 5791       natural_gas          17823         1.010
## 5793       natural_gas            512         1.000
## 5794       natural_gas            250         1.030
## 5795       natural_gas            120         1.000
## 5796       natural_gas          20224         1.033
## 5797       natural_gas          33518         1.037
## 5798       natural_gas          61043         1.030
## 5800              coal         144318        13.552
## 5801              coal          75319        23.080
## 5803       natural_gas          15910         1.187
## 5804              coal           8588        22.780
## 5805              coal          67069        17.550
## 5807       natural_gas           9250         1.030
## 5808              coal           3108        23.880
## 5809         petroleum           3624         5.817
## 5811              coal          94049        23.196
## 5812       natural_gas          62571         1.029
## 5813              coal           1818        26.631
## 5814       natural_gas          16545         1.027
## 5818         petroleum          68045         6.330
## 5819       natural_gas        1560153         1.060
## 5820       natural_gas           4974         1.023
## 5821              coal          26558        23.340
```

```
## 5823        natural_gas          1793788                1.020
## 5825               coal            83910               24.200
## 5827               coal             6153               16.530
## 5828          petroleum              173                5.744
## 5829        natural_gas            35983                1.035
## 5832        natural_gas              455                1.100
## 5833               coal            25984               22.976
## 5834        natural_gas            11032                1.020
## 5835        natural_gas            85609                1.010
## 5836               coal           111134               17.417
## 5837        natural_gas             1295                1.030
## 5838               coal            14423               17.340
## 5841               coal            12618               24.660
## 5842        natural_gas          1686653                1.026
## 5843               coal            15522               26.260
## 5844               coal            11707               25.820
## 5846               coal              122               17.700
## 5847        natural_gas            32599                1.027
## 5848        natural_gas           541035                1.030
## 5849        natural_gas           600022                1.020
## 5850               coal            64008               17.654
## 5852          petroleum             2293                5.750
## 5853        natural_gas           230968                1.058
## 5856        natural_gas              640                1.053
## 5858               coal           121175               23.076
## 5859               coal            14660               16.600
## 5860        natural_gas          1288602                1.033
## 5861               coal            37743               23.026
## 5862        natural_gas            17060                1.040
## 5863          petroleum             1648                5.920
## 5864               coal              911               25.760
## 5865        natural_gas           316279                1.033
## 5866        natural_gas            22184                1.035
## 5867        natural_gas           458626                1.000
## 5869        natural_gas            10943                1.028
## 5870               coal             6212               24.340
## 5873        natural_gas           814850                1.035
## 5874        natural_gas            29000                1.018
## 5877        natural_gas            27998                1.000
## 5878        natural_gas           145601                1.024
## 5879        natural_gas            57870                1.061
## 5882               coal             9632               17.210
## 5883        natural_gas             1341                1.019
## 5885               coal              187               26.400
## 5889          petroleum             1336                5.880
## 5890        natural_gas            29036                1.009
## 5894        natural_gas           160830                1.039
## 5895        natural_gas          1069702                1.020
## 5896               coal             2011               22.172
## 5898        natural_gas             1955                1.023
## 5899               coal            61235               17.176
## 5900          petroleum             5319                5.800
## 5901               coal            21880               24.690
## 5902               coal            23653               23.171
```

```
## 5903      natural_gas           4555       1.048
## 5904      natural_gas          80049       1.020
## 5905        petroleum            109       5.880
## 5906      natural_gas          15034       1.009
## 5907      natural_gas        3287935       1.047
## 5908      natural_gas           1170       1.093
## 5909   petroleum_coke          33673      28.742
## 5911             coal           3951      22.192
## 5912             coal          29052      18.750
## 5913             coal           9909      26.110
## 5914      natural_gas            272       1.029
## 5915             coal          20949      25.550
## 5917             coal         119363      25.364
## 5919      natural_gas         656954       1.034
## 5921      natural_gas            147       1.020
## 5922      natural_gas          15037       1.060
## 5924      natural_gas           1374       1.030
## 5926        petroleum             52       5.899
## 5927             coal         294278      17.620
## 5928             coal         124631       7.009
## 5929      natural_gas           3522       1.000
## 5932             coal         164302      18.110
## 5933      natural_gas           2621       1.039
## 5934             coal          75382      24.368
## 5935             coal          88892      23.660
## 5936             coal          22471      25.200
## 5937             coal          15894      18.120
## 5938      natural_gas        6161202       1.017
## 5939      natural_gas          71881       1.025
## 5941             coal           1543      22.486
## 5943      natural_gas        1690071       1.031
## 5944      natural_gas           3370       1.007
## 5945      natural_gas           4744       1.044
## 5946             coal           2663      23.830
## 5947      natural_gas         186064       1.016
## 5948      natural_gas          61591       1.000
## 5949      natural_gas           2913       1.030
## 5951      natural_gas        1630660       1.040
## 5952      natural_gas           2611       1.000
## 5953      natural_gas           6169       1.033
## 5954      natural_gas          44270       1.024
## 5956             coal            383      14.180
## 5957      natural_gas           2857       1.030
## 5958             coal         109000      17.700
## 5959      natural_gas          19617       0.846
## 5960      natural_gas            288       1.020
## 5961        petroleum          14772       5.730
## 5962      natural_gas        1270719       1.028
## 5963        petroleum             48       5.800
## 5964      natural_gas         148024       1.070
## 5965      natural_gas          60000       1.022
## 5966        petroleum            958       5.700
## 5968      natural_gas          93189       1.032
## 5970      natural_gas         412474       1.015
```

```
## 5971       natural_gas           293300            1.000
## 5972       natural_gas          1378865            1.060
## 5973       natural_gas           331817            1.028
## 5974              coal             7917           24.100
## 5976              coal            14842           22.196
## 5978         petroleum              178            5.783
## 5979       natural_gas              214            0.998
## 5980       natural_gas          2048377            1.026
## 5981              coal            14683           18.704
## 5982       natural_gas             1411            1.000
## 5983              coal            12928           25.616
## 5984       natural_gas            80391            1.027
## 5985       natural_gas              161            1.000
## 5986              coal            42180           24.208
## 5991              coal            13569           18.310
## 5992              coal             8619           25.090
## 5994       natural_gas               68            1.031
## 5995       natural_gas            84423            1.020
## 5997       natural_gas            15942            1.051
## 5998       natural_gas          2381492            1.029
## 6000              coal            11754           25.010
## 6002       natural_gas            58498            1.029
## 6003    petroleum_coke             6762           28.792
## 6005              coal            10813           24.766
## 6006              coal            25368           24.767
## 6008       natural_gas           161226            1.024
## 6009       natural_gas            95892            1.032
## 6010       natural_gas            16088            0.960
## 6012       natural_gas            23025            1.045
## 6013       natural_gas          1171871            1.050
## 6014       natural_gas           778192            1.050
## 6015         petroleum             2350            5.748
## 6017         petroleum             3440            5.800
## 6018       natural_gas           623622            1.027
## 6019       natural_gas           466582            1.010
## 6020              coal             5335           23.740
## 6022       natural_gas              290            1.038
## 6023       natural_gas          3371236            1.039
## 6024       natural_gas           568098            1.018
## 6026       natural_gas          1614940            1.090
## 6027       natural_gas           621459            1.039
## 6028       natural_gas              580            1.015
## 6029       natural_gas             9201            1.030
## 6031              coal             3320           24.430
## 6033              coal            32395           25.784
## 6035         petroleum              306            6.300
## 6036       natural_gas            15750            1.031
## 6037       natural_gas                8            1.000
## 6039              coal            27724           23.580
## 6042       natural_gas          2319133            1.028
## 6043       natural_gas          1241437            1.036
## 6044              coal            13420           23.930
## 6045              coal            11124           25.198
## 6047       natural_gas            27976            1.036
```

```
## 6048          coal        23202      25.331
## 6049   natural_gas        342311      1.021
## 6050   natural_gas          9728      1.028
## 6051          coal        15366      17.790
## 6055   natural_gas       2281629      1.010
## 6058          coal       254203      26.200
## 6059          coal        14679      16.980
## 6060          coal        12162      25.582
## 6061   natural_gas       2199857      1.050
## 6062   natural_gas        763467      1.027
## 6063   natural_gas         17305      1.020
## 6064     petroleum           192      6.530
## 6065          coal        14973      22.390
## 6066   natural_gas         25030      1.026
## 6068          coal          8770      25.830
## 6070          coal        19433      24.162
## 6071          coal        18266      23.350
## 6072   natural_gas       1629721      1.030
## 6074          coal        25579      23.182
## 6075   natural_gas        680986      1.030
## 6076   natural_gas        182335      1.028
## 6077   natural_gas          1058      1.036
## 6078   natural_gas          2900      1.002
## 6081          coal       160617      13.440
## 6083          coal           705      23.970
## 6084   natural_gas          6750      1.100
## 6085     petroleum          3394      5.880
## 6086   natural_gas         63373      1.030
## 6087          coal        44849      17.590
## 6088          coal          1252      26.000
## 6089   natural_gas        477208      1.024
## 6090   natural_gas        242432      1.030
## 6091     petroleum          3106      5.762
## 6092   natural_gas           162      1.023
## 6093   natural_gas           893      1.000
## 6094          coal        72820      17.570
## 6095   natural_gas       2123965      1.040
## 6096          coal        73011      16.480
## 6097          coal        51672      18.010
## 6099          coal        25189      22.606
## 6101   natural_gas         41808      1.014
## 6103          coal          5849      24.024
## 6105   natural_gas         35913      1.052
## 6106          coal        36240      22.804
## 6107   natural_gas        287193      1.019
## 6108   natural_gas        624043      1.019
## 6109   natural_gas         26970      1.038
## 6110          coal        32775      22.000
## 6112   natural_gas        878267      1.012
## 6113          coal        11494      24.432
## 6114   natural_gas          9732      1.000
## 6116          coal        43953      16.550
## 6117          coal        14687      26.238
## 6118   natural_gas         23317      1.027
```

```
## 6119           coal      28068    25.900
## 6120      petroleum        476     5.800
## 6122    natural_gas      16319     1.016
## 6123    natural_gas       3725     1.021
## 6124      petroleum      25154     5.825
## 6126    natural_gas       2530     1.100
## 6127           coal      26686    23.642
## 6128    natural_gas      19142     1.028
## 6129    natural_gas     106253     1.013
## 6130           coal      62919    17.590
## 6133    natural_gas     780298     1.037
## 6134    natural_gas       2001     1.038
## 6135    natural_gas     852504     1.032
## 6136           coal      12343    23.408
## 6138    natural_gas      10645     1.022
## 6139    natural_gas        206     1.032
## 6141           coal      16247    17.300
## 6142    natural_gas        338     1.020
## 6143           coal        521    13.930
## 6144      petroleum       1060     5.725
## 6145    natural_gas    1525149     1.030
## 6147           coal      54322    22.400
## 6148    natural_gas        121     1.020
## 6149           coal      70976    23.399
## 6150    natural_gas       2970     1.010
## 6151    natural_gas      18044     1.000
## 6153           coal      42269    17.200
## 6154    natural_gas    2369328     1.023
## 6155    natural_gas     705934     1.050
## 6157    natural_gas       4536     1.000
## 6158           coal      15381    24.000
## 6159    natural_gas      75893     1.029
## 6161    natural_gas      36298     1.029
## 6163    natural_gas      89985     1.029
## 6164  petroleum_coke     39552    29.043
## 6165    natural_gas     100438     1.000
## 6167    natural_gas         10     1.000
## 6168    natural_gas      67179     1.024
## 6169      petroleum       1644     5.805
## 6170    natural_gas       1018     1.039
## 6171    natural_gas      65769     1.043
## 6172    natural_gas     549946     1.010
## 6173    natural_gas      90485     1.034
## 6174    natural_gas        141     1.029
## 6175    natural_gas    2408585     1.021
## 6176    natural_gas        126     0.815
## 6177    natural_gas       6537     1.017
## 6180    natural_gas       2682     1.019
## 6181    natural_gas      57737     1.064
## 6182    natural_gas    3178507     1.031
## 6184    natural_gas      74817     1.026
## 6186           coal      23246    25.418
## 6187           coal      40143    23.960
## 6188    natural_gas        123     1.044
```

```
## 6189              coal           32080             23.676
## 6190              coal           38372             25.040
## 6191       natural_gas         2016808              1.025
## 6192       natural_gas          603724              1.027
## 6196       natural_gas           53861              1.025
## 6197              coal             253             11.470
## 6198              coal           15888             16.652
## 6199       natural_gas           57178              1.056
## 6201              coal             197             23.493
## 6202              coal            3011             26.000
## 6203       natural_gas          164982              1.013
## 6204       natural_gas            1440              1.028
## 6205       natural_gas            5553              1.100
## 6206       natural_gas         2664930              1.032
## 6207       natural_gas            9385              1.044
## 6208              coal           81942             18.144
## 6209       natural_gas         1784861              1.030
## 6210       natural_gas           60338              1.030
## 6211              coal           15769             16.988
## 6212              coal             754             11.290
## 6214       natural_gas            7306              1.220
## 6215       natural_gas         1277356              1.068
## 6216       natural_gas            1832              1.013
## 6219       natural_gas         2526892              1.026
## 6221              coal           58135             16.680
## 6222       natural_gas           66616              1.070
## 6223              coal          422739             11.800
## 6224              coal           11766             17.310
## 6225       natural_gas            2469              1.020
## 6226              coal           28643             23.910
## 6227       natural_gas           64229              1.019
## 6228       natural_gas           14037              1.010
## 6229       natural_gas          447079              0.990
## 6230       natural_gas           14179              1.009
## 6231       natural_gas          603907              1.000
## 6232       natural_gas            4964              1.020
## 6233              coal           27326             23.200
## 6234       natural_gas             106              1.030
## 6235              coal           36544             22.728
## 6236              coal           12780             25.030
## 6237         petroleum            2511              5.821
## 6238       natural_gas               9              1.030
## 6239              coal           37597             26.046
## 6240    petroleum_coke            8032             28.800
## 6242       natural_gas         3106156              1.025
## 6244         petroleum            1239              5.716
## 6245       natural_gas           46178              1.040
## 6246              coal          143351             17.110
## 6247       natural_gas          280350              1.000
## 6248              coal           18389             23.474
## 6250              coal          103533             17.350
## 6252         petroleum              12              5.800
## 6255       natural_gas            2576              1.030
## 6256       natural_gas            3937              1.036
```

```
## 6258        natural_gas             125640             1.038
## 6259               coal              54701            25.270
## 6260               coal              78710            17.898
## 6262        natural_gas               3499             1.006
## 6264        natural_gas               8090             1.030
## 6265        natural_gas            1375327             1.016
## 6267               coal             326308            17.527
## 6268        natural_gas             134205             1.030
## 6269        natural_gas              10026             1.101
## 6271          petroleum               5363             5.726
## 6272          petroleum             134756             6.422
## 6273               coal             134301            17.670
## 6275        natural_gas            8707185             1.030
## 6276        natural_gas              37682             1.060
## 6277        natural_gas               1911             1.019
## 6278          petroleum                286             5.880
## 6279        natural_gas              18994             1.000
## 6281               coal                702            11.730
## 6282               coal             310287            12.940
## 6283        natural_gas               3549             1.022
## 6284        natural_gas               7933             1.030
## 6286               coal              11019            22.200
## 6287          petroleum               2185             5.800
## 6288        natural_gas            1020001             1.033
## 6293               coal             269902            17.600
## 6294        natural_gas              71773             1.007
## 6295        natural_gas                411             1.036
## 6296        natural_gas             977706             1.030
## 6298        natural_gas            1185146             1.044
## 6299        natural_gas             970322             1.048
## 6303               coal              10442            22.130
## 6304               coal              70647            17.130
## 6305        natural_gas               5207             0.969
## 6306        natural_gas             802643             1.021
## 6307        natural_gas                 19             1.029
## 6308          petroleum               2561             5.500
## 6309               coal              98117            17.590
## 6310        natural_gas               3442             1.028
## 6311               coal              13920            25.233
## 6312        natural_gas             231084             1.061
## 6315               coal              20294            22.082
## 6317               coal               3549            25.168
## 6318        natural_gas             546927             0.935
## 6319               coal              11409            23.738
## 6320               coal               6782            23.160
## 6321               coal             506622            17.170
## 6323               coal              21455            24.530
## 6324               coal              35862            23.840
## 6325          petroleum                173             5.900
## 6326          petroleum               1073             5.799
## 6327        natural_gas              38841             1.012
## 6328        natural_gas             137201             1.039
## 6331        natural_gas             185164             1.028
## 6332        natural_gas               2736             1.027
```

```
## 6333            coal       54754       23.690
## 6334            coal       12453       25.220
## 6335     natural_gas       71707        1.025
## 6336       petroleum        1334        5.880
## 6337     natural_gas       40622        1.022
## 6338     natural_gas          14        1.000
## 6339            coal         335       23.160
## 6340     natural_gas      123700        1.044
## 6344     natural_gas        6097        1.000
## 6345            coal      111352       20.818
## 6347            coal       68385       16.870
## 6348            coal        1530       26.410
## 6351            coal        4091       22.810
## 6352     natural_gas       16771        1.010
## 6353            coal       85441       26.000
## 6354            coal       71405       21.918
## 6355     natural_gas       10767        1.020
## 6357       petroleum        1161        5.880
## 6359     natural_gas       93880        1.028
## 6360            coal       11756       26.452
## 6362     natural_gas      190765        1.022
## 6363            coal        3522       24.348
## 6365            coal       18885       27.868
## 6366            coal       22653       23.940
## 6368     natural_gas        4165        1.040
## 6369            coal        5770       26.000
## 6370     natural_gas       84825        1.033
## 6371     natural_gas       30985        1.060
## 6372     natural_gas    12558142        1.024
## 6376            coal       31647       24.816
## 6377            coal       17548       18.132
## 6378     natural_gas         573        1.028
## 6381            coal        7567       25.260
## 6382     natural_gas       45251        1.100
## 6383     natural_gas       28812        1.012
## 6384     natural_gas        6823        1.022
## 6385       petroleum         128        5.526
## 6388       petroleum        2137        5.800
## 6390            coal       18359       22.972
## 6391            coal       25489       25.070
## 6392            coal       26774       17.720
## 6393     natural_gas       72283        1.001
## 6394            coal       43480       22.130
## 6395     natural_gas       59405        1.040
## 6396            coal       28185       23.880
## 6397     natural_gas      850500        1.030
## 6398   petroleum_coke      38851       29.078
## 6399            coal       15823       17.852
## 6400     natural_gas      136230        1.026
## 6402     natural_gas      808616        1.036
## 6404     natural_gas      142529        1.044
## 6405            coal       38456       22.623
## 6406            coal       30155       17.370
## 6408     natural_gas        6035        1.000
```

```
## 6409         coal         6562       22.600
## 6410   natural_gas         9353        1.020
## 6411   natural_gas      1956110        1.026
## 6412   natural_gas      1652745        1.033
## 6413   natural_gas        87578        1.037
## 6414   natural_gas        22616        1.025
## 6415   natural_gas            2        1.020
## 6416   natural_gas       135238        1.005
## 6417         coal        26706       25.480
## 6418         coal        68297       22.950
## 6419         coal        11462       10.600
## 6420         coal        25693       22.930
## 6421         coal          916       21.100
## 6422   natural_gas          339        1.021
## 6423   natural_gas       192434        1.030
## 6424         coal          812       23.844
## 6425   natural_gas         9681        1.033
## 6426         coal        48386       17.820
## 6427   natural_gas         1576        1.010
## 6428         coal        29956       16.843
## 6429         coal        87077       24.796
## 6430   natural_gas        18961        1.030
## 6431   natural_gas      1402843        1.000
## 6432         coal        33146       22.220
## 6433   natural_gas       343307        1.020
## 6434         coal        12699       24.946
## 6435         coal       108852       17.212
## 6436   natural_gas          577        1.000
## 6438         coal        10799       24.930
## 6441   natural_gas        43166        1.012
## 6442         coal        12722       23.820
## 6444         coal        34146       17.770
## 6445         coal        91513       16.668
## 6447   natural_gas      1391865        1.035
## 6448   natural_gas          661        1.021
## 6449     petroleum          165        5.820
## 6451   natural_gas      1223711        1.030
## 6452         coal       218736       16.580
## 6453         coal       167490       16.820
## 6454   natural_gas           60        1.073
## 6455   natural_gas        26049        1.027
## 6456         coal        45255       19.708
## 6457     petroleum          545        5.592
## 6458         coal         1611       23.020
## 6459   natural_gas       521351        1.042
## 6461         coal         1788       23.952
## 6462         coal         1997       11.114
## 6463   natural_gas       646142        1.020
## 6464   natural_gas          876        1.033
## 6465         coal         7050       22.616
## 6467     petroleum          348        5.800
## 6468         coal       110424       16.740
## 6469   natural_gas        18414        0.998
## 6470   natural_gas           18        1.020
```

```
## 6472     natural_gas      1360208      1.042
## 6473            coal        15448     17.756
## 6474            coal       117289     24.656
## 6475            coal       189228     24.192
## 6477     natural_gas      2597317      1.014
## 6479     natural_gas          223      1.000
## 6480     natural_gas        33444      1.030
## 6481     natural_gas        10584      1.029
## 6482            coal        14791     17.000
## 6483            coal        32619     17.254
## 6484     natural_gas      2416239      1.024
## 6485     natural_gas         1488      1.000
## 6486            coal           69     23.830
## 6489            coal        29724     17.715
## 6492       petroleum         1429      5.800
## 6493            coal        83775     17.718
## 6494            coal        12903     23.880
## 6497            coal       314060     17.280
## 6499            coal        23622     23.110
## 6500     natural_gas        10271      1.086
## 6502     natural_gas          285      1.038
## 6503     natural_gas        30655      1.020
## 6504            coal         9200     24.434
## 6506     natural_gas      2723045      1.023
## 6508            coal        50602     22.501
## 6509     natural_gas          209      1.017
## 6510            coal         9666     24.798
## 6512     natural_gas          426      1.025
## 6514            coal        72575     16.730
## 6516     natural_gas       209127      1.030
## 6517            coal         7150     22.000
## 6519     natural_gas      3246335      1.029
## 6520     natural_gas           71      1.020
## 6521            coal       155367     24.660
## 6522            coal        32391     17.540
## 6524     natural_gas       451198      1.044
## 6525       petroleum        27807      6.378
## 6526       petroleum         1779      5.700
## 6527            coal        22459     22.060
## 6528     natural_gas       478336      1.020
## 6529     natural_gas       134291      1.000
## 6530     natural_gas          208      1.030
## 6531     natural_gas        15744      1.000
## 6532       petroleum          367      5.712
## 6533            coal        81273     22.114
## 6534     natural_gas      2857434      1.006
## 6535            coal        79492     17.630
## 6537            coal        25356     25.380
## 6538     natural_gas        64920      1.054
## 6539     natural_gas        93669      1.000
## 6540            coal        12072     24.054
## 6541     natural_gas        35705      1.030
## 6542            coal        14881     17.060
## 6543     natural_gas       728470      1.014
```

```
## 6544      natural_gas        11395     1.015
## 6545      natural_gas       168247     1.022
## 6546             coal         6418    24.104
## 6547      natural_gas       469345     1.000
## 6549      natural_gas      1239867     1.041
## 6550      natural_gas        18403     1.051
## 6551      natural_gas        85588     1.024
## 6552      natural_gas       552594     1.083
## 6553      natural_gas      2991263     1.026
## 6554             coal       180396    17.040
## 6555             coal        98206    17.189
## 6557      natural_gas      1584614     1.016
## 6558             coal       137239    23.400
## 6560             coal        37546    22.722
## 6561             coal        75453    16.817
## 6563             coal        29456    16.540
## 6565      natural_gas       355340     1.001
## 6566         petroleum        1987     6.360
## 6567      natural_gas       229117     1.015
## 6568      natural_gas       170467     1.000
## 6570      natural_gas      1334938     1.042
## 6572      natural_gas       211142     1.015
## 6573             coal        31637    24.305
## 6574             coal        47272    17.074
## 6576      natural_gas        43905     1.020
## 6577      natural_gas        40365     1.043
## 6578             coal        89285    17.260
## 6580      natural_gas        70110     1.028
## 6581      natural_gas         3979     1.025
## 6582             coal       147198    17.176
## 6583      natural_gas        10050     1.020
## 6584      natural_gas          101     1.028
## 6586      natural_gas        20427     1.030
## 6587      natural_gas       117584     1.033
## 6588             coal        21983    24.890
## 6589      natural_gas         6343     1.078
## 6592         petroleum        1765     5.800
## 6593      natural_gas       295247     1.047
## 6595      natural_gas        30235     1.100
## 6597      natural_gas        29794     1.018
## 6599      natural_gas      1104066     1.026
## 6601             coal         1618    23.580
## 6602             coal        32373    22.242
## 6605             coal       111422    17.850
## 6607         petroleum         163     5.762
## 6611      natural_gas      2638176     1.041
## 6612             coal        24015    23.200
## 6613      natural_gas        42156     1.025
## 6614             coal        10500    24.552
## 6617      natural_gas       430537     1.020
## 6618         petroleum        7731     6.377
## 6619             coal        15669    17.610
## 6621             coal        22675    22.030
## 6622             coal        48259    23.290
```

```
## 6623      natural_gas          534            1.040
## 6624      natural_gas        84382            1.026
## 6625             coal         5091           23.710
## 6626      natural_gas       182188            1.015
## 6627      natural_gas        14339            1.020
## 6628             coal         6067           16.180
## 6629      natural_gas        64949            1.042
## 6630             coal        66897           17.440
## 6632      natural_gas       455309            1.032
## 6633      natural_gas         2646            1.060
## 6634             coal        15680           17.276
## 6636      natural_gas       650814            1.025
## 6637      natural_gas       186011            1.037
## 6639      natural_gas      3084542            1.029
## 6640             coal        11414           24.534
## 6641        petroleum         7476            5.900
## 6642             coal        38273           20.870
## 6643      natural_gas          315            1.000
## 6645      natural_gas          955            0.963
## 6648        petroleum         1078            5.712
## 6649        petroleum           66            5.850
## 6650      natural_gas       183753            1.031
## 6652             coal           25           22.784
## 6653      natural_gas      1863775            1.028
## 6654             coal          334           23.396
## 6655      natural_gas          174            1.032
## 6656      natural_gas       165093            1.017
## 6658             coal        14057           24.092
## 6659        petroleum            6            5.803
## 6661             coal         1542           22.570
## 6662      natural_gas      2910129            1.018
## 6663        petroleum          172            5.992
## 6665             coal        46498           11.420
## 6667      natural_gas      1730145            1.035
## 6668      natural_gas       558473            1.021
## 6670             coal         9062           24.400
## 6671             coal       239725           17.123
## 6672      natural_gas         5742            1.103
## 6673      natural_gas        28879            1.039
## 6674      natural_gas           99            1.023
## 6675      natural_gas      3082498            1.033
## 6677      natural_gas        42977            1.030
## 6678             coal         4956           22.020
## 6679             coal        47739           18.014
## 6680      natural_gas         3764            1.020
## 6681        petroleum         4921            5.500
## 6684             coal        43326           17.400
## 6686      natural_gas         1315            1.063
## 6687      natural_gas          147            1.028
## 6688             coal        21894           24.250
## 6689      natural_gas       293000            1.002
## 6690      natural_gas      1827716            1.046
## 6691             coal        93183           18.150
## 6693      natural_gas         1060            1.000
```

```
## 6694          coal        4641        21.560
## 6695          coal       31791        25.020
## 6696          coal       20615        26.230
## 6697   natural_gas      567470         1.020
## 6698   natural_gas       91162         1.000
## 6700   natural_gas       48309         1.035
## 6702   natural_gas     1753828         1.035
## 6704   natural_gas        2700         1.076
## 6705          coal       80662        16.940
## 6708   natural_gas      623556         1.045
## 6709          coal        7225        22.420
## 6710   natural_gas       76183         1.012
## 6711     petroleum        1075         5.820
## 6712   natural_gas        1911         1.003
## 6713   natural_gas         475         1.020
## 6714          coal       62898        18.070
## 6715          coal       12420        24.820
## 6717   natural_gas       50259         1.017
## 6718   natural_gas        2514         1.037
## 6720          coal       53522        21.732
## 6722          coal        3300        24.150
## 6723          coal       28324        26.150
## 6725   natural_gas         305         1.010
## 6727   natural_gas     2966256         1.023
## 6728          coal       23767        23.050
## 6729   natural_gas       94603         1.030
## 6730          coal       24695        23.324
## 6731          coal       24921        25.270
## 6732   natural_gas       42656         1.032
## 6733   natural_gas      365683         1.006
## 6734   natural_gas       96769         1.032
## 6735          coal       16984        17.840
## 6737          coal        8639        26.290
## 6738          coal       35829        22.484
## 6739          coal       46837        21.674
## 6741   natural_gas          56         1.031
## 6743   natural_gas      623969         1.030
## 6744   natural_gas      278382         1.011
## 6747          coal        3276        26.000
## 6749   natural_gas       68500         1.000
## 6751          coal       77473        25.900
## 6752     petroleum        1618         5.750
## 6754   natural_gas      146796         1.090
## 6755          coal       25394        25.720
## 6756   natural_gas       19387         1.056
## 6757   natural_gas     3365000         1.040
## 6758   natural_gas      322900         1.026
## 6759   natural_gas         183         0.993
## 6761   natural_gas       10696         1.023
## 6762          coal       45565        26.020
## 6763   natural_gas       13469         1.020
## 6764   natural_gas       83484         1.020
## 6766          coal       11146        21.960
## 6767          coal       15400        24.464
```

```
## 6768         coal    250374   13.428
## 6771         coal     10004   25.434
## 6772  natural_gas    828709    1.021
## 6773         coal     44103   16.776
## 6774  natural_gas    118112    1.000
## 6775  natural_gas       357    1.040
## 6776         coal      3268   17.525
## 6779  natural_gas       311    1.000
## 6780  natural_gas     16243    1.023
## 6781         coal     15369   17.880
## 6782         coal     11495   24.438
## 6783  natural_gas         8    1.000
## 6784         coal     17389   24.920
## 6785  natural_gas     18263    1.033
## 6786    petroleum       476    5.800
## 6787  natural_gas    420803    1.061
## 6788  natural_gas       889    1.020
## 6791    petroleum       179    5.847
## 6792  natural_gas     11802    1.036
## 6793  natural_gas     15404    1.030
## 6794         coal     89878   17.920
## 6795         coal     61216   23.150
## 6797         coal     18878   24.056
## 6798    petroleum      6646    5.880
## 6799  natural_gas    876030    1.028
## 6800  natural_gas    516625    1.058
## 6801    petroleum       319    5.880
## 6802  natural_gas    335831    1.019
## 6803  natural_gas   2219676    1.039
## 6806  natural_gas    340985    1.016
## 6807  natural_gas      5156    1.048
## 6809  natural_gas    103192    1.070
## 6810         coal     16500   17.700
## 6811         coal     15149   25.094
## 6812  natural_gas      7028    1.033
## 6813         coal     12725   24.490
## 6815         coal     64418   17.943
## 6816  natural_gas       137    1.096
## 6817  natural_gas    834994    1.020
## 6818         coal        13   15.170
## 6819    petroleum      1179    5.820
## 6820         coal     32900   17.560
## 6821  natural_gas   2707945    1.010
## 6822         coal    462760   13.172
## 6823         coal     13217   23.288
## 6825         coal     12755   24.400
## 6826    petroleum         2    5.850
## 6827  natural_gas     27351    1.000
## 6828         coal     33016   17.687
## 6830         coal        46   17.410
## 6831         coal     32405   23.890
## 6832    other_gas    769054    0.977
## 6833         coal       857   24.960
## 6834  natural_gas    100909    1.019
```

```
## 6835       petroleum        14        5.900
## 6837     natural_gas       962        1.020
## 6838     natural_gas       155        1.021
## 6839     natural_gas     25012        0.989
## 6840            coal     18155       23.722
## 6842            coal      1504       25.164
## 6843            coal     16382       17.518
## 6844     natural_gas      4200        1.025
## 6845     natural_gas       299        1.022
## 6847     natural_gas     47478        1.039
## 6849            coal        50       10.830
## 6850            coal    375043       17.620
## 6851     natural_gas    290173        1.020
## 6852     natural_gas    713491        1.031
## 6853            coal     13231       25.682
## 6854     natural_gas     15803        1.025
## 6855     natural_gas       197        1.021
## 6856            coal       103       21.744
## 6858     natural_gas      7237        1.036
## 6859     natural_gas   1933300        1.024
## 6860            coal     35299       23.759
## 6861            coal     15631       16.892
## 6862     natural_gas       776        1.000
## 6864     natural_gas     89087        1.023
## 6865     natural_gas      5786        1.000
## 6866     natural_gas       135        1.036
## 6867     natural_gas    145068        1.034
## 6868     natural_gas     28802        1.036
## 6869     natural_gas       159        1.030
## 6870            coal     29584       23.260
## 6872     natural_gas      2524        1.030
## 6873            coal     35994       24.830
## 6874     natural_gas    759969        1.013
## 6875            coal     14758       24.168
## 6877     natural_gas      2161        1.000
## 6878            coal     46739       25.990
## 6879       petroleum        55        5.880
## 6881            coal     47139       24.548
## 6882     natural_gas      5859        1.019
## 6883            coal     57187       21.200
## 6884     natural_gas    994696        1.030
## 6885     natural_gas      4203        1.019
## 6886       petroleum       786        5.920
## 6888       petroleum        24        5.850
## 6889     natural_gas     44554        1.030
## 6890     natural_gas      3887        1.017
## 6891     natural_gas      1073        1.000
## 6892       petroleum      2379        5.838
## 6893            coal     17433       24.760
## 6894            coal      3074       14.400
## 6895            coal    531411       25.096
## 6896            coal     10582       15.960
## 6899            coal      4119       21.196
## 6901            coal    153566       22.020
```

```
## 6903            coal         1226        18.379
## 6908     natural_gas         9292         1.033
## 6909     natural_gas       242433         1.087
## 6910     natural_gas      1133395         1.006
## 6911     natural_gas      1292476         1.030
## 6912     natural_gas        45931         1.030
## 6913     natural_gas        20370         1.026
## 6914            coal       227807        16.850
## 6915            coal         1320        12.460
## 6916       petroleum          975         5.800
## 6917     natural_gas       108736         1.014
## 6918       petroleum         1291         5.900
## 6919     natural_gas         2482         1.043
## 6921     natural_gas          941         1.033
## 6923     natural_gas       326156         1.092
## 6924            coal        27946        18.386
## 6925            coal         6550        23.922
## 6926     natural_gas        48241         1.028
## 6927     natural_gas        13235         1.000
## 6928            coal        15041        23.160
## 6929     natural_gas         8983         1.000
## 6930     natural_gas        91000         1.020
## 6931     natural_gas         1192         1.000
## 6932       petroleum          619         6.000
## 6933       petroleum          532         5.771
## 6934            coal        59281        17.785
## 6935     natural_gas       413339         1.066
## 6938     natural_gas          667         1.040
## 6939     natural_gas       295783         1.025
## 6941       petroleum         4027         5.755
## 6942     natural_gas        83535         1.026
## 6943     natural_gas       245524         1.033
## 6945            coal       139810        24.440
## 6946     natural_gas        43561         1.033
## 6947       petroleum         2283         5.844
## 6948     natural_gas      5725339         1.062
## 6949     natural_gas         1075         1.035
## 6950            coal        31000        17.490
## 6952     natural_gas        87452         1.070
## 6955            coal        11780        24.518
## 6956            coal        40955        22.984
## 6958     natural_gas         2116         1.030
## 6959            coal        99614        23.160
## 6960     natural_gas       492444         1.070
## 6962            coal       108007        17.600
## 6963     natural_gas         6484         1.022
## 6965            coal        16500        17.452
## 6966     natural_gas        29381         1.029
## 6969            coal         9251        25.490
## 6970            coal         8051        22.051
## 6971            coal        48825        22.346
## 6973            coal        49128        16.770
## 6974       petroleum         6072         5.880
## 6978     natural_gas           23         1.099
```

```
## 6979           coal      45263    22.740
## 6980    natural_gas      93151     1.029
## 6981           coal      67240    22.800
## 6982           coal      10742    24.276
## 6983    natural_gas       7865     1.093
## 6984           coal       2895    24.599
## 6985           coal     101603    17.340
## 6986    natural_gas     270913     1.000
## 6987    natural_gas      70857     1.020
## 6988           coal       2778    18.000
## 6989           coal      15100    24.076
## 6990    natural_gas     825095     1.000
## 6991      petroleum        179     5.500
## 6992      petroleum       1099     5.880
## 6996      petroleum       1596     5.800
## 6997           coal      25328    25.900
## 6999    natural_gas       1444     1.030
## 7000           coal     189867    16.823
## 7001           coal       2182    27.200
## 7002      petroleum        510     5.500
## 7003    natural_gas     318206     1.030
## 7004           coal       6131    24.200
## 7005    natural_gas         34     1.030
## 7006           coal      49200    17.370
## 7007           coal      41004    24.078
## 7009    natural_gas    7523132     1.030
## 7010    natural_gas      66570     1.020
## 7011           coal       3774    24.600
## 7012           coal      93917    23.034
## 7013    natural_gas     620956     1.028
## 7014      petroleum        405     5.880
## 7015           coal      70342    20.276
## 7016      petroleum        359     5.920
## 7017           coal      34701    17.260
## 7018    natural_gas       4100     1.000
## 7021    natural_gas       5909     1.029
## 7022    natural_gas      96437     1.020
## 7023    natural_gas      19361     1.033
## 7025           coal      28398    23.226
## 7026    natural_gas      54023     1.020
## 7027    natural_gas      40446     1.000
## 7028    natural_gas      11637     1.020
## 7029           coal      13473    24.360
## 7030           coal       2060    21.910
## 7031    natural_gas     261679     1.032
## 7032    natural_gas      17914     1.027
## 7034      petroleum         86     5.500
## 7036    natural_gas       8030     0.986
## 7037    natural_gas    2464895     1.022
## 7038      petroleum         63     5.817
## 7039    natural_gas       2915     1.000
## 7040      petroleum        345     5.762
## 7043    natural_gas        137     1.013
## 7044      petroleum        534     5.880
```

```
## 7045          natural_gas          1630278          1.019
## 7046                 coal            81658         16.890
## 7048                 coal            15576         17.870
## 7049                 coal            77978         17.493
## 7050          natural_gas            67802          1.042
## 7051          natural_gas              288          0.983
## 7054                 coal            43579         22.800
## 7055                 coal            42080         24.584
## 7056                 coal            44403         17.944
## 7057                 coal             1763         23.478
## 7058          natural_gas          1899777          1.117
## 7059          natural_gas             2198          1.030
## 7060          natural_gas            26345          1.019
## 7061                 coal           108550         24.130
## 7063                 coal            14717         17.020
## 7065          natural_gas              712          1.000
## 7067                 coal            15522         13.260
## 7068                 coal             6395         23.013
## 7069                 coal            49425         17.780
## 7070          natural_gas               34          1.015
## 7071          natural_gas             1117          1.047
## 7072          natural_gas           239949          1.119
## 7074                 coal           165901         17.520
## 7075                 coal             7004         24.620
## 7076          natural_gas              510          1.010
## 7077          natural_gas           629170          1.025
## 7078          natural_gas           101547          1.034
## 7079            petroleum              758          5.790
## 7080                 coal            59917         17.590
## 7083                 coal            31562         17.674
## 7086          natural_gas           140706          1.220
## 7087            petroleum               10          5.700
## 7088                 coal               38         12.540
## 7089                 coal            21213         22.873
## 7090                 coal            23009         24.460
## 7091                 coal               84         11.120
## 7093       petroleum_coke            23716         27.450
## 7094          natural_gas           293501          1.026
## 7095                 coal              710         13.600
## 7098          natural_gas          1082633          1.130
## 7099                 coal           474682         13.080
## 7101                 coal             3761         24.430
## 7104          natural_gas            10178          1.030
## 7105          natural_gas              745          1.030
## 7106          natural_gas           148000          1.004
## 7107          natural_gas             5768          1.031
## 7108          natural_gas             2085          1.024
## 7110          natural_gas           389535          1.038
## 7111            petroleum            10100          5.800
## 7112                 coal            24400         24.600
## 7115          natural_gas            15619          1.035
## 7116                 coal              523         15.700
## 7118          natural_gas               16          1.065
## 7119          natural_gas               86          1.000
```

```
## 7120    natural_gas      158940     1.025
## 7121           coal       20879    24.532
## 7122    natural_gas     2487678     1.029
## 7123    natural_gas        5201     1.000
## 7125           coal      174124    13.158
## 7126      petroleum        1607     5.800
## 7128    natural_gas        3951     1.000
## 7129           coal      123610    16.182
## 7130           coal       80607    17.640
## 7131           coal       46041    23.052
## 7133           coal       25048    24.230
## 7134    natural_gas       13849     1.047
## 7135           coal      121907    17.310
## 7137    natural_gas      125434     1.039
## 7139    natural_gas        1907     1.030
## 7140           coal       50466    24.030
## 7141      petroleum        2883     5.800
## 7142    natural_gas         679     1.000
## 7143           coal       56535    17.500
## 7144           coal      273902    13.004
## 7145    natural_gas         278     1.010
## 7146    natural_gas      687923     1.018
## 7147           coal        1669    22.010
## 7150    natural_gas         129     1.143
## 7152    natural_gas      492189     1.018
## 7153           coal       11195    22.994
## 7154      petroleum        3013     5.800
## 7155           coal      102303    13.670
## 7156    natural_gas         151     1.027
## 7157           coal      114348    26.310
## 7159    natural_gas     1126024     1.029
## 7161           coal        4871    22.028
## 7163           coal      142200    17.748
## 7164    natural_gas      337659     1.028
## 7166    natural_gas      105034     1.029
## 7167    natural_gas       25203     1.020
## 7168    natural_gas        3742     1.030
## 7170           coal      137435    16.728
## 7171    natural_gas        2508     1.070
## 7173    natural_gas        1930     1.034
## 7175    natural_gas       82877     1.030
## 7176           coal       14695    16.800
## 7178    natural_gas      779549     1.037
## 7179           coal      189767    25.940
## 7180    natural_gas       41800     1.025
## 7181    natural_gas       11176     1.020
## 7182    natural_gas      970067     1.026
## 7184           coal       41712    21.648
## 7186    natural_gas       41101     1.039
## 7187    natural_gas      412006     1.019
## 7188    natural_gas        1806     1.237
## 7189    natural_gas       40111     0.991
## 7191           coal        1840    23.360
## 7192    natural_gas       25435     1.021
```

```
## 7193          coal       447585     17.638
## 7194   natural_gas      2849342      1.031
## 7196          coal        12030     25.304
## 7197   natural_gas       169702      1.000
## 7199   natural_gas        76149      1.008
## 7200   natural_gas      3042346      1.045
## 7203   natural_gas      1449228      1.041
## 7204   natural_gas         2052      1.000
## 7206     petroleum         4470      6.490
## 7207   natural_gas       453870      1.049
## 7209   natural_gas       417010      1.011
## 7211   natural_gas      1295038      1.028
## 7212   natural_gas      3117003      1.028
## 7213     petroleum         1100      5.821
## 7215   natural_gas       225094      1.031
## 7219          coal       179586     17.880
## 7220   natural_gas        74991      1.025
## 7221     petroleum        25400      6.237
## 7224   natural_gas       186912      1.060
## 7225     petroleum            9      5.880
## 7226   natural_gas       108483      1.017
## 7227          coal        34211     16.900
## 7228   natural_gas           40      1.000
## 7230   natural_gas       386529      1.033
## 7231   natural_gas         2206      1.100
## 7232   natural_gas         9956      1.020
## 7233          coal         7483     24.800
## 7235   natural_gas         2309      1.000
## 7236   natural_gas         4455      1.024
## 7237   natural_gas       559064      1.028
## 7239     petroleum         2620      5.920
## 7240   natural_gas       507909      1.020
## 7242          coal        59661     24.330
## 7243   natural_gas       600801      1.010
## 7244          coal        13722     17.182
## 7245          coal        18023     23.232
## 7246   natural_gas       334662      1.025
## 7247          coal       113717     16.969
## 7249 petroleum_coke       14257     29.800
## 7250          coal         2423     25.436
## 7253          coal        59542     21.922
## 7256   natural_gas       474557      1.047
## 7257          coal        72463     24.260
## 7258   natural_gas            7      1.000
## 7259   natural_gas        48800      1.020
## 7260          coal        68327     22.704
## 7263   natural_gas      1625394      1.047
## 7264 petroleum_coke        5834     29.170
## 7265          coal         7136     21.380
## 7266   natural_gas        20517      1.031
## 7269   natural_gas           38      1.011
## 7270   natural_gas      2469209      1.040
## 7271   natural_gas       405717      1.052
## 7272   natural_gas       653739      1.032
```

106

```
## 7273      natural_gas         9775       1.023
## 7274             coal        32902      17.680
## 7277      natural_gas       278452       1.007
## 7278      natural_gas        45796       1.015
## 7279             coal        96802      17.070
## 7280        petroleum        26044       5.800
## 7282        petroleum           33       5.850
## 7283      natural_gas          231       1.033
## 7284             coal         2032      25.920
## 7285      natural_gas        14327       1.014
## 7287             coal        10824      24.450
## 7288      natural_gas      2762237       1.024
## 7289             coal       732931      21.700
## 7292             coal         8539      22.848
## 7293        petroleum          567       5.730
## 7294      natural_gas        27403       1.036
## 7295             coal          208      13.320
## 7297             coal        32681      16.894
## 7300      natural_gas         7179       1.034
## 7302      natural_gas        19610       1.098
## 7303      natural_gas       729160       1.030
## 7305             coal        16972      23.018
## 7306             coal       128953      22.540
## 7307             coal        28130      21.816
## 7308      natural_gas       505246       1.012
## 7309             coal        12012      24.940
## 7310             coal        28409      23.974
## 7311      natural_gas        74137       1.024
## 7312      natural_gas         2175       1.000
## 7314        petroleum          444       5.800
## 7316      natural_gas      1229248       1.036
## 7318             coal         6162      26.230
## 7319        petroleum          241       5.500
## 7322        petroleum          643       5.700
## 7324             coal        12281      26.460
## 7326      natural_gas         1003       1.033
## 7329             coal        23222      25.910
## 7330             coal          782      15.640
## 7332             coal         6634      22.840
## 7333      natural_gas      2153038       1.039
## 7334      natural_gas       384704       1.042
## 7335      natural_gas        13912       1.044
## 7336             coal        34576      22.402
## 7337      natural_gas       480788       1.028
## 7338      natural_gas         2639       1.051
## 7339        petroleum          330       5.750
## 7340             coal        13131      25.988
## 7341      natural_gas        11880       1.000
## 7342      natural_gas        11905       1.000
## 7343        petroleum         4648       5.750
## 7346      natural_gas       878021       1.097
## 7347             coal         5345      24.208
## 7348             coal       160112      24.230
## 7350             coal        21923      25.790
```

```
## 7351       natural_gas           218        1.018
## 7352       natural_gas        295677        1.028
## 7353        petroleum           179        5.800
## 7354             coal         44173       22.778
## 7355       natural_gas       1070636        1.000
## 7358             coal        227386       17.918
## 7359       natural_gas         65664        1.031
## 7360             coal        102540       16.370
## 7361        petroleum             5        5.800
## 7363             coal        192000       19.060
## 7365             coal         25287       26.228
## 7366       natural_gas       5275315        1.031
## 7367        petroleum          1216        5.720
## 7368       natural_gas          1801        1.027
## 7369             coal         12713       25.446
## 7370       natural_gas        126559        1.014
## 7372       natural_gas          8607        1.000
## 7375        petroleum         62981        6.389
## 7376             coal         98955       17.300
## 7377             coal         58587       19.710
## 7380        petroleum           867        5.760
## 7381             coal         33700       23.866
## 7382       natural_gas         85462        1.020
## 7383       natural_gas         15667        0.993
## 7384       natural_gas          9681        1.033
## 7387             coal          2793       25.140
## 7388             coal          4517       24.496
## 7389       natural_gas         34719        1.020
## 7390       natural_gas          1587        1.086
## 7391       natural_gas           331        1.050
## 7392       natural_gas             3        1.019
## 7393       natural_gas          4026        1.220
## 7394       natural_gas       1911526        1.060
## 7395       natural_gas       3098555        1.072
## 7396        petroleum           547        5.800
## 7397       natural_gas        456638        1.038
## 7398       natural_gas        271931        1.053
## 7399             coal         45453       25.394
## 7400       natural_gas         19324        1.040
## 7402        petroleum            17        5.500
## 7403       natural_gas       3348309        1.030
## 7404       natural_gas         73204        1.051
## 7405       natural_gas       1339749        1.028
## 7406             coal           929       24.600
## 7408       natural_gas        315316        1.000
## 7409        petroleum         61782        5.794
## 7410             coal         14205       17.862
## 7411       natural_gas          6524        1.100
## 7412             coal          1043       16.480
## 7413        petroleum           178        5.800
## 7414             coal         67132       23.710
## 7416       natural_gas       1244565        1.060
## 7417       natural_gas         15966        1.023
## 7418       natural_gas        508419        1.035
```

```
## 7419      petroleum        1551       6.360
## 7420    natural_gas       78393       1.010
## 7425           coal       12270      23.559
## 7426    natural_gas      175864       1.009
## 7430           coal       29694      23.906
## 7431           coal       94881      16.770
## 7433    natural_gas         627       1.019
## 7434    natural_gas      531912       1.068
## 7435    natural_gas        1387       1.060
## 7436    natural_gas     3754047       1.009
## 7437           coal       57300      25.730
## 7438    natural_gas     2981227       1.076
## 7439    natural_gas     1017889       1.025
## 7441    natural_gas         110       1.000
## 7442    natural_gas       19619       1.000
## 7443    natural_gas       28673       1.000
## 7445      other_gas         488       1.017
## 7446           coal       55438      17.200
## 7447    natural_gas      127261       1.035
## 7448    natural_gas     3792429       1.050
## 7451    natural_gas         325       1.020
## 7452           coal         352      22.820
## 7453           coal       11793      25.260
## 7454           coal       95195      17.570
## 7455    natural_gas      151682       1.040
## 7456    natural_gas       21864       1.031
## 7458           coal       48116      17.200
## 7459    natural_gas      156703       1.049
## 7462           coal         546      25.110
## 7464           coal         853       2.471
## 7465    natural_gas        1891       1.100
## 7466      petroleum          74       5.840
## 7467    natural_gas       88765       1.037
## 7469           coal       29085      18.040
## 7470    natural_gas        1974       1.035
## 7471    natural_gas        1055       1.006
## 7474           coal      211408      25.920
## 7475    natural_gas        1329       1.052
## 7477           coal      122597      24.208
## 7478           coal       28895      16.700
## 7480           coal       44026      16.590
## 7481    natural_gas       63828       1.000
## 7484    natural_gas         220       1.016
## 7485    natural_gas       37321       1.010
## 7486           coal        9380      24.290
## 7487      petroleum         887       5.800
## 7488           coal      112188      17.120
## 7489           coal       61954      21.790
## 7490      petroleum          91       5.800
## 7491    natural_gas       10831       1.032
## 7492    natural_gas     1564724       1.019
## 7493           coal       23375      22.668
## 7494    natural_gas       16900       1.030
## 7495           coal        9931      24.658
```

```
## 7496         petroleum         2415    5.723
## 7497              coal        16474   17.650
## 7498              coal         5988   23.686
## 7499              coal        12562   16.420
## 7500       natural_gas         8627    1.000
## 7503       natural_gas        29287    1.031
## 7504       natural_gas       709055    1.020
## 7505       natural_gas       887200    1.002
## 7506              coal        11281   25.278
## 7507       natural_gas        37509    1.067
## 7509       natural_gas         8009    1.028
## 7510       natural_gas       310717    0.998
## 7511              coal       203248   17.744
## 7513              coal        92247   23.000
## 7514       natural_gas       605470    1.061
## 7515              coal        31598   13.300
## 7516         petroleum          178    5.880
## 7517              coal        23773   24.912
## 7518       natural_gas        17668    1.110
## 7519       natural_gas       120703    1.027
## 7520              coal        30601   22.716
## 7521       natural_gas      1282579    1.030
## 7522       natural_gas        32433    1.052
## 7523       natural_gas       204687    1.014
## 7524              coal        46331   16.870
## 7525         petroleum          120    5.880
## 7526              coal        62412   17.850
## 7527              coal        11966   26.600
## 7530       natural_gas         6020    1.000
## 7532              coal        40253   23.012
## 7533              coal          639   22.780
## 7534       natural_gas          106    1.020
## 7536       natural_gas        75263    1.071
## 7537       natural_gas        44975    1.000
## 7539              coal        20743   23.746
## 7541       natural_gas       981584    1.024
## 7542       natural_gas       531691    1.020
## 7543         petroleum        17135    5.817
## 7544       natural_gas        45668    1.000
## 7545         petroleum          533    5.855
## 7546              coal          433   24.954
## 7547       natural_gas        69934    0.992
## 7548              coal        15695   17.782
## 7549       natural_gas       375578    1.022
## 7550              coal        17800   22.100
## 7551         petroleum        66550    6.332
## 7552       natural_gas        30741    1.018
## 7556    petroleum_coke         1688   27.410
## 7557       natural_gas        86288    1.027
## 7558       natural_gas      1620571    1.022
## 7559              coal       138107   14.240
## 7560              coal        97520   17.740
## 7561       natural_gas        49801    1.004
## 7562              coal        19243   25.192
```

```
## 7563      natural_gas         91150              1.030
## 7565        petroleum          3756              5.700
## 7566      natural_gas        136036              1.040
## 7567      natural_gas        877658              1.030
## 7568      natural_gas       1325789              1.021
## 7570             coal         60712             17.980
## 7571             coal        128439             16.326
## 7572             coal          1557             20.872
## 7573      natural_gas           591              1.030
## 7575      natural_gas         25666              1.035
## 7576        petroleum          1415              5.817
## 7577      natural_gas           444              1.000
## 7578      natural_gas       1394053              1.067
## 7579      natural_gas        237199              1.014
## 7580        petroleum           718              5.713
## 7581             coal         15383             17.812
## 7582             coal          2025              9.036
## 7583      natural_gas         15730              1.017
## 7584             coal         51501             24.370
## 7587      natural_gas          3070              1.029
## 7588             coal        188517             17.600
## 7589      natural_gas          1360              1.025
## 7590             coal         11860             25.606
## 7593      natural_gas         30774              1.030
## 7594             coal         31131             25.190
## 7595      natural_gas         22606              1.040
## 7596      natural_gas         50407              1.097
## 7597      natural_gas        336801              1.029
## 7598             coal         21358             24.120
## 7599      natural_gas            43              1.020
## 7601      natural_gas         81750              1.113
## 7602      natural_gas        864233              1.028
## 7606      natural_gas         91768              1.050
## 7607             coal         17980             21.498
## 7608             coal         29742             23.520
## 7609      natural_gas         34000              1.015
## 7610             coal        177698             18.010
## 7613      natural_gas        564497              1.017
## 7614             coal         56119             22.790
## 7615      natural_gas         87327              1.000
## 7617      natural_gas       1157106              1.039
## 7618             coal         58520             18.800
## 7619             coal          1472             14.530
## 7620      natural_gas           298              1.020
## 7621             coal          2497             26.000
## 7623      natural_gas          5732              1.001
## 7624             coal         60750             19.200
## 7625      natural_gas        467979              1.035
## 7627      natural_gas        934860              1.013
## 7629        petroleum          1203              5.750
## 7630      natural_gas           871              1.048
## 7631      natural_gas           111              1.030
## 7632      natural_gas       5396169              1.039
## 7633      natural_gas          1684              1.026
```

```
## 7634       natural_gas       29026          1.036
## 7636              coal       77787         17.500
## 7638       natural_gas      129536          1.047
## 7639       natural_gas      531617          1.063
## 7640       natural_gas      517444          1.013
## 7641              coal        6614         22.630
## 7642       natural_gas         397          1.035
## 7643       natural_gas        1998          1.025
## 7645       natural_gas        5864          1.020
## 7646         petroleum        4987          5.880
## 7648       natural_gas     1099388          1.019
## 7649       natural_gas       60100          1.025
## 7650       natural_gas        3478          1.026
## 7652       natural_gas     3944663          1.020
## 7654       natural_gas        3414          1.018
## 7656              coal       89162         17.770
## 7657       natural_gas         854          1.030
## 7658       natural_gas           3          1.000
## 7660       natural_gas       37147          1.035
## 7661         petroleum         177          5.880
## 7662              coal        4853         21.210
## 7663              coal       81788         17.500
## 7665              coal       24706         22.030
## 7666       natural_gas         319          1.020
## 7667       natural_gas     1092032          1.030
## 7668              coal        5550         25.110
## 7669    petroleum_coke        5066         28.560
## 7670         petroleum         503          5.855
## 7671              coal       20418         26.840
## 7672              coal       10263         23.800
## 7675              coal      235016         19.390
## 7676       natural_gas         672          1.020
## 7677       natural_gas       27391          1.054
## 7678       natural_gas        1837          1.016
## 7680              coal       36915         23.922
## 7681       natural_gas     2337697          1.028
## 7682         petroleum         405          5.650
## 7683       natural_gas      117990          1.028
## 7685              coal       13892         16.892
## 7687              coal        5338         24.320
## 7688              coal      159974         16.232
## 7689       natural_gas      199892          1.032
## 7691              coal        5013         23.052
## 7692       natural_gas     1359332          1.017
## 7693              coal      158042         17.732
## 7694              coal       28089         18.900
## 7695       natural_gas       49938          1.090
## 7698       natural_gas      204573          1.028
## 7699       natural_gas        1244          1.009
## 7700              coal       49043         22.720
## 7701              coal       11757         25.038
## 7702       natural_gas       56440          1.013
## 7704         petroleum         807          5.800
## 7706              coal       56014         22.690
```

```
## 7708      natural_gas          402      1.031
## 7711      natural_gas         7345      1.072
## 7712             coal        10340     24.580
## 7713      natural_gas          733      1.039
## 7714             coal       213157     17.694
## 7715             coal        44012     24.000
## 7717      natural_gas        31172      1.030
## 7718      natural_gas        14841      1.024
## 7719      natural_gas         4204      1.046
## 7720      natural_gas          903      1.086
## 7721      natural_gas          460      1.000
## 7722             coal        27019     17.440
## 7723             coal        47291     17.705
## 7725      natural_gas        29126      1.030
## 7726        petroleum        16269      5.825
## 7727      natural_gas         3023      1.027
## 7728             coal         1848     23.576
## 7729      natural_gas        27996      1.013
## 7731      natural_gas        17023      1.028
## 7732             coal        15375     17.390
## 7733             coal        31694     17.782
## 7734             coal        11574     23.090
## 7735      natural_gas       149752      1.026
## 7737      natural_gas        10289      1.000
## 7738             coal         3296     25.412
## 7739             coal         1713     24.450
## 7740        petroleum          891      5.825
## 7741             coal       181817     17.057
## 7742      natural_gas        32835      1.000
## 7743        petroleum         3037      5.800
## 7745      natural_gas      1581502      1.032
## 7746      natural_gas         1942      1.025
## 7748      natural_gas        17164      1.000
## 7749             coal        35902     12.330
## 7750      natural_gas        25656      1.000
## 7753             coal        29928     22.373
## 7755      natural_gas       846772      1.057
## 7756             coal           40     17.920
## 7757        petroleum           86      6.100
## 7759      natural_gas          478      1.020
## 7760             coal        11260     22.520
## 7761        petroleum           29      5.801
## 7762             coal         2585     13.029
## 7763      natural_gas        38609      1.021
## 7764             coal        56101     24.008
## 7765        petroleum         1544      5.800
## 7766      natural_gas       117424      1.018
## 7767      natural_gas        20234      1.060
## 7768             coal       122977     24.496
## 7769        other_gas         3351      2.522
## 7771             coal        19872     13.170
## 7772             coal        12794     25.310
## 7774             coal       358455     17.546
## 7775             coal        15641     17.166
```

```
## 7776         coal       10658    24.202
## 7777  natural_gas        3783     1.036
## 7779  natural_gas      664967     1.032
## 7782         coal       15778    17.700
## 7783  natural_gas          95     1.000
## 7784         coal      155443    26.088
## 7785  natural_gas         180     1.019
## 7786         coal       11977    26.360
## 7787         coal       21004    21.830
## 7788         coal       15514    17.430
## 7789         coal        1566    24.826
## 7790  natural_gas       33875     1.030
## 7791  natural_gas        5381     1.028
## 7793  natural_gas      316198     1.065
## 7794  natural_gas         525     1.028
## 7795         coal       93628    17.804
## 7797  natural_gas        4939     1.010
## 7798  natural_gas        4765     1.030
## 7799    petroleum        1000     5.880
## 7800  natural_gas     1792123     1.040
## 7801  natural_gas         611     1.000
## 7802  natural_gas      302614     1.022
## 7803    petroleum         189     6.070
## 7804         coal       34377    17.800
## 7807  natural_gas       25284     1.025
## 7808  natural_gas      216668     1.000
## 7809         coal       32388    17.820
## 7810  natural_gas        3013     1.014
## 7812  natural_gas      806771     1.031
## 7813  natural_gas     3158871     1.021
## 7815  natural_gas      258413     1.011
## 7816         coal      160525    10.400
## 7819         coal      147981    16.640
## 7820         coal       14617    24.400
## 7822  natural_gas     2802313     1.030
## 7823  natural_gas      514245     1.039
## 7824         coal       10305    25.240
## 7825  natural_gas      194353     1.028
## 7826    petroleum         188     5.670
## 7827  natural_gas     2615623     1.022
## 7828         coal        4130    23.170
## 7830         coal         828    24.456
## 7831         coal        2500    24.014
## 7832    petroleum         860     5.850
## 7833    petroleum       70740     6.281
## 7834  natural_gas       23144     1.000
## 7835         coal       90773    22.300
## 7837         coal       47104    22.130
## 7840         coal         949    16.240
## 7841         coal       16304    17.518
## 7845         coal         832    27.300
## 7846    petroleum        2477     5.900
## 7849         coal       57951    19.228
## 7851         coal       33873    23.129
```

```
## 7852            coal        12476       22.910
## 7853            coal        14362       16.494
## 7854     natural_gas         1252        1.019
## 7855     natural_gas       277761        1.044
## 7856     natural_gas        22725        1.037
## 7857     natural_gas         3057        1.072
## 7858     natural_gas       453771        1.055
## 7859     natural_gas         4072        1.027
## 7860  petroleum_coke        39071       27.710
## 7861     natural_gas        51670        1.027
## 7862     natural_gas         1105        1.000
## 7863     natural_gas        36113        1.037
## 7866     natural_gas        14645        1.070
## 7867            coal        12874       25.868
## 7868     natural_gas         6086        1.002
## 7869            coal       264279       17.158
## 7870     natural_gas        47314        1.014
## 7871     natural_gas          498        1.084
## 7872            coal        39326       16.890
## 7873     natural_gas       206000        1.100
## 7874            coal       166146       17.346
## 7877            coal         4419       11.010
## 7878       petroleum        12360        5.800
## 7879            coal        41975       17.560
## 7880            coal          951       23.700
## 7881            coal        21318       26.174
## 7882     natural_gas      1067708        1.030
## 7884            coal        15807       17.716
## 7885            coal        36991       22.760
## 7886       other_gas      8263854        0.082
## 7887            coal        55663       23.080
## 7888     natural_gas      1267800        1.014
## 7890     natural_gas       404268        1.020
## 7891     natural_gas       252685        1.039
## 7892  petroleum_coke        18903       27.570
## 7893            coal        16934       23.225
## 7894            coal        33709       17.750
## 7895       petroleum        48348        6.300
## 7896     natural_gas       360954        1.011
## 7897            coal        12755       25.290
## 7901     natural_gas         1913        1.052
## 7902     natural_gas         9293        1.030
## 7905     natural_gas          740        1.188
## 7906     natural_gas         1082        1.017
## 7908            coal        51324       23.020
## 7910            coal       185407       15.956
## 7911     natural_gas       169915        1.061
## 7913     natural_gas        13919        1.015
## 7914     natural_gas         5889        1.035
## 7916     natural_gas          658        1.015
## 7917     natural_gas        24237        1.026
## 7918     natural_gas        13314        1.019
## 7919     natural_gas          761        1.000
## 7920     natural_gas        10436        1.030
```

```
## 7921    natural_gas         544615     1.010
## 7922    natural_gas           1466     1.029
## 7923           coal          11418    23.270
## 7924    natural_gas           9082     1.030
## 7925    natural_gas          99635     0.996
## 7926    natural_gas          97941     1.018
## 7927    natural_gas             30     1.062
## 7929    natural_gas           2415     1.020
## 7930           coal          20090    15.600
## 7931      petroleum            861     5.880
## 7932    natural_gas          81351     1.100
## 7934      petroleum           4082     3.850
## 7935    natural_gas             31     1.020
## 7936    natural_gas           6809     1.028
## 7937    natural_gas           1284     1.039
## 7938           coal          98185    17.750
## 7939    natural_gas          10280     1.004
## 7942           coal           5074    23.815
## 7943           coal         106400    17.588
## 7946           coal          11492    24.550
## 7947      petroleum            120     5.900
## 7948    natural_gas        2000000     1.016
## 7950           coal           5170    25.880
## 7951    natural_gas            919     1.000
## 7953    natural_gas        1429532     1.040
## 7955           coal         126081    16.850
## 7956           coal          26132    25.510
## 7957      petroleum            181     5.800
## 7958    natural_gas           1418     1.000
## 7959      petroleum           3260     5.800
## 7960    natural_gas           2308     1.039
## 7961           coal          12311    25.296
## 7962           coal           6619    22.250
## 7963           coal          97828    13.563
## 7964    natural_gas           7303     1.040
## 7965           coal          16170    18.010
## 7967    natural_gas            114     1.020
## 7968           coal          55703    23.524
## 7969    natural_gas          50934     1.055
## 7971    natural_gas         445393     1.030
## 7972    natural_gas           3525     1.000
## 7973      other_gas         594566     1.172
## 7974    natural_gas          15211     1.033
## 7977           coal          11276    25.200
## 7978           coal         150800    22.920
## 7979    natural_gas        1168029     1.014
## 7980    natural_gas         289538     1.030
## 7981           coal          70976    24.750
## 7982           coal           3198    21.570
## 7984    natural_gas           5882     1.020
## 7985    natural_gas         203501     1.025
## 7988    natural_gas         691549     1.050
## 7990    natural_gas             65     1.031
## 7992      petroleum              2     5.400
```

```
## 7994         coal          14911      17.278
## 7995   natural_gas         62020       1.030
## 7996   natural_gas            83       1.000
## 7997   natural_gas          9857       1.050
## 7999   natural_gas        606381       1.020
## 8002         coal            65       20.890
## 8003         coal          46948      21.924
## 8004   natural_gas          6024       1.030
## 8005   natural_gas        606306       1.025
## 8006   natural_gas          4059       1.000
## 8009     petroleum          6523       5.830
## 8010   natural_gas        300962       1.006
## 8011         coal           165       22.070
## 8012   natural_gas         88442       1.030
## 8013   natural_gas           459       1.018
## 8014         coal         116893      16.566
## 8015   natural_gas         11984       1.006
## 8016         coal           792       25.650
## 8017   natural_gas           982       1.013
## 8018   natural_gas            32       1.030
## 8019         coal          23411      17.478
## 8020   natural_gas         96820       1.026
## 8021     petroleum          1607       5.800
## 8022   natural_gas           582       1.028
## 8023   natural_gas        396371       1.031
## 8024   natural_gas           180       1.029
## 8025         coal          57627      18.690
## 8027         coal           804       21.100
## 8028   natural_gas        364921       1.022
## 8029         coal          6323       24.200
## 8030     petroleum          1977       5.800
## 8031   natural_gas       1267085       1.049
## 8032         coal          2973       20.260
## 8033   natural_gas        519641       1.051
## 8034         coal          3677       22.514
## 8035   natural_gas         21381       1.033
## 8037   natural_gas         90757       1.074
## 8038         coal          30100      17.850
## 8039         coal          2566       18.720
## 8040         coal          63200      25.432
## 8041         coal          36398      23.680
## 8042   natural_gas          1165       1.038
## 8043         coal          66644      22.350
## 8044   natural_gas        161900       1.002
## 8045     petroleum          5842       5.800
## 8046         coal          33015      21.800
## 8047     petroleum          3029       5.817
## 8048   natural_gas          3045       1.038
## 8049   natural_gas         17660       1.029
## 8051     petroleum           179       5.840
## 8054   natural_gas         28309       1.232
## 8055   natural_gas          9869       1.036
## 8056   natural_gas          9069       1.073
## 8057   natural_gas        466110       1.050
```

```
## 8058       petroleum             2      5.850
## 8062     natural_gas        123397      1.026
## 8063            coal         11002     22.079
## 8065     natural_gas         32937      1.027
## 8066     natural_gas        382508      1.030
## 8068     natural_gas          2970      1.010
## 8069     natural_gas        476103      1.065
## 8070       petroleum           190      5.670
## 8072     natural_gas          1919      1.056
## 8073     natural_gas           361      1.026
## 8074            coal         39498     22.280
## 8075       petroleum          4360      5.670
## 8076            coal         33734     17.840
## 8077            coal        108690     19.320
## 8080     natural_gas         21872      1.000
## 8081            coal         17418     17.700
## 8083     natural_gas         20624      1.000
## 8087     natural_gas          4710      1.040
## 8088            coal        364196     17.700
## 8089     natural_gas        520294      1.010
## 8091            coal           691     25.966
## 8093     natural_gas         40267      1.027
## 8094            coal         30596     16.706
## 8095            coal          1756     24.862
## 8096       petroleum          3562      5.825
## 8097            coal          1451     15.430
## 8098       petroleum          2571      5.750
## 8099     natural_gas         95506      1.018
## 8101     natural_gas        478692      1.022
## 8102     natural_gas       1314027      1.029
## 8103            coal         43000     24.910
## 8105            coal         25953     25.780
## 8106            coal          4130      9.718
## 8107     natural_gas          2409      1.018
## 8109            coal         31880     25.356
## 8110       petroleum          1480      5.800
## 8111     natural_gas         13707      1.068
## 8112     natural_gas         33106      1.020
## 8113     natural_gas           993      1.030
## 8115     natural_gas        271535      1.031
## 8117     natural_gas         18331      1.072
## 8118            coal         23829     25.530
## 8119     natural_gas       1340821      1.024
## 8120     natural_gas          2033      0.974
## 8121       petroleum           176      5.750
## 8122     natural_gas        167670      1.057
## 8123     natural_gas        569613      1.084
## 8124            coal          3708      8.970
## 8125            coal         12226     22.828
## 8126       petroleum          1927      6.715
## 8127            coal         19304     24.520
## 8128     natural_gas         41654      1.026
## 8129     natural_gas       2490374      1.020
## 8130            coal         77334     16.934
```

```
## 8131       natural_gas         833916            1.012
## 8132              coal         218188           18.550
## 8134       natural_gas         825246            1.068
## 8135       natural_gas         452618            1.071
## 8137              coal          11021           25.950
## 8139              coal           8110           22.838
## 8141              coal          43271           16.930
## 8142              coal          15015           18.000
## 8143       natural_gas             33            1.016
## 8144              coal          17110           16.880
## 8146              coal          32740           16.700
## 8147       natural_gas          67490            1.037
## 8148              coal          56841           22.644
## 8150       natural_gas          17075            1.019
## 8152       natural_gas          44489            1.027
## 8154         petroleum              8            5.850
## 8155         petroleum            141            5.820
## 8156              coal           7523           22.910
## 8158       natural_gas         229611            1.034
## 8159       natural_gas            202            1.023
## 8160              coal           8243           25.844
## 8162              coal          28312           17.810
## 8163       natural_gas         525238            1.034
## 8164         petroleum            493            5.600
## 8166       natural_gas            284            1.032
## 8167              coal          26501           23.650
## 8169              coal          29959           17.664
## 8170       natural_gas           5250            1.024
## 8171         petroleum           1880            5.754
## 8173       natural_gas         271515            1.033
## 8174              coal          71232           25.845
## 8175              coal          22927           25.037
## 8176              coal          90771           16.882
## 8177              coal           4570           25.856
## 8178       natural_gas          33173            1.016
## 8179       natural_gas        7985188            1.030
## 8180       natural_gas             25            1.020
## 8181       natural_gas         919392            1.019
## 8182              coal          70887           17.250
## 8183       natural_gas         409590            1.045
## 8184       natural_gas           1999            1.083
## 8185       natural_gas         134965            1.015
## 8186       natural_gas           1537            1.010
## 8187       natural_gas         578416            1.000
## 8188              coal          39736           24.660
## 8189         petroleum         118702            5.800
## 8191         petroleum           7058            5.780
## 8192       natural_gas          22760            1.000
## 8193              coal          10481           24.730
## 8195         petroleum            216            5.800
## 8196              coal          41134           23.100
## 8197       natural_gas         245412            1.028
## 8199              coal         186349           17.600
## 8200       natural_gas            371            1.040
```

```
## 8201    natural_gas       28641       1.026
## 8202           coal       42256      24.600
## 8204    natural_gas        1323       0.988
## 8205      petroleum        5717       5.712
## 8206           coal        1390      26.470
## 8207    natural_gas        1882       1.017
## 8210    natural_gas         290       1.021
## 8212      petroleum        5187       5.880
## 8213           coal        4203      24.110
## 8215    natural_gas      389909       1.038
## 8216    natural_gas        4119       1.008
## 8218    natural_gas         712       1.020
## 8219    natural_gas       19310       1.028
## 8220    natural_gas     2415752       1.020
## 8221           coal         333      22.840
## 8222           coal       70776      17.600
## 8224      petroleum           3       5.800
## 8225    natural_gas       19305       1.036
## 8226    natural_gas       50496       1.000
## 8227    natural_gas        9463       1.051
## 8231    natural_gas        4866       1.006
## 8232    natural_gas        6550       1.030
## 8233           coal      146124      16.590
## 8234           coal      264326      17.070
## 8235    natural_gas       65723       1.011
## 8236    natural_gas         588       1.040
## 8238    natural_gas         108       1.096
## 8240    natural_gas          13       1.000
## 8241    natural_gas        5299       1.012
## 8243           coal       15132      16.888
## 8245           coal        8191      26.100
## 8246    natural_gas           2       1.032
## 8247           coal       14671      16.400
## 8248    natural_gas          36       1.020
## 8249           coal        2067      21.029
## 8251           coal       48907      17.580
## 8252    natural_gas       49259       1.024
## 8253      petroleum       51154       6.237
## 8255    natural_gas      157848       1.060
## 8258      petroleum        6377       5.750
## 8259      petroleum          20       6.250
## 8260      petroleum      141465       5.876
## 8261    natural_gas      607428       1.016
## 8262           coal       20266      22.792
## 8263      petroleum       69535       6.226
## 8264    natural_gas      189700       1.060
## 8265           coal       12141      24.432
## 8266           coal        3069      24.100
## 8268           coal       12876      24.010
## 8270           coal      566632      21.600
## 8272  petroleum_coke       16374      29.440
## 8273           coal       17573      22.020
## 8274      petroleum        1537       5.800
## 8275           coal       16436      16.810
```

```
## 8276     natural_gas          1595        1.056
## 8277            coal          9650       21.000
## 8279     natural_gas          1622        1.012
## 8280            coal         54587       17.100
## 8281            coal           422       21.976
## 8282     natural_gas           254        1.046
## 8287            coal            84       20.890
## 8290            coal         11556       26.976
## 8291     natural_gas          6308        1.019
## 8292            coal        156986       18.880
## 8294       petroleum           179        5.760
## 8295     natural_gas             5        1.035
## 8297       petroleum          1874        6.000
## 8298     natural_gas           922        1.035
## 8299            coal          6710       23.460
## 8300     natural_gas         47101        1.012
## 8301     natural_gas        174166        1.000
## 8302       petroleum           581        6.000
## 8303     natural_gas        199293        1.031
## 8304       petroleum           520        5.758
## 8305     natural_gas          1675        1.040
## 8307     natural_gas         13035        1.000
## 8308       petroleum          2349        5.771
## 8310     natural_gas            39        1.012
## 8311     natural_gas        886639        1.069
## 8312            coal         21022        8.490
## 8313     natural_gas           214        1.015
## 8314     natural_gas            38        1.000
## 8315     natural_gas          2382        1.028
## 8317     natural_gas       2168808        1.029
## 8320            coal        266339       18.737
## 8322     natural_gas         11621        0.997
## 8323     natural_gas       1957094        0.998
## 8327     natural_gas         83200        1.013
## 8328     natural_gas          2072        1.100
## 8329     natural_gas           100        1.021
## 8330     natural_gas          4652        1.010
## 8332     natural_gas         56756        1.000
## 8333     natural_gas        239442        1.030
## 8335     natural_gas        427740        1.030
## 8338       petroleum          1461        5.796
## 8340     natural_gas          1189        1.114
## 8341     natural_gas         38431        1.033
## 8342     natural_gas          3050        1.030
## 8343     natural_gas        200413        1.230
## 8344            coal         32486       22.996
## 8345       petroleum           870        5.780
## 8347     natural_gas         32555        1.006
## 8348     natural_gas          3610        1.000
## 8349            coal        247129       17.300
## 8351     natural_gas        902723        0.998
## 8353            coal        672505       16.280
## 8355     natural_gas         36117        1.099
## 8356       petroleum          1446        6.342
```

```
## 8357    natural_gas    1963724    1.025
## 8360    natural_gas        761    1.013
## 8361    natural_gas        236    1.000
## 8362    natural_gas      42857    1.050
## 8363    natural_gas    1165013    1.025
## 8364           coal       3648   23.796
## 8365    natural_gas       9517    1.036
## 8366    natural_gas        374    1.020
## 8367    natural_gas    1157843    0.990
## 8368      petroleum        447    3.900
## 8369           coal      23886   23.414
## 8370           coal      33270   26.188
## 8372    natural_gas   13189576    1.025
## 8373    natural_gas     127424    1.018
## 8374    natural_gas     135951    1.034
## 8375      petroleum         18    5.800
## 8377    natural_gas      10000    1.013
## 8378    natural_gas      48778    1.040
## 8381    natural_gas     671408    1.080
## 8382      petroleum        175    6.430
## 8383    natural_gas      35503    1.020
## 8384    natural_gas     182424    1.042
## 8385           coal       8707   26.060
## 8386    natural_gas     126008    1.010
## 8387    natural_gas      83216    1.024
## 8388           coal     162268   17.640
## 8389           coal      15368   17.600
## 8392    natural_gas       4531    1.022
## 8393    natural_gas    1058007    1.024
## 8394           coal        723   24.460
## 8395    natural_gas      18305    1.030
## 8397      petroleum         71    5.810
## 8398    natural_gas        413    1.019
## 8399    natural_gas    1533532    1.006
## 8400           coal       6422   24.590
## 8401           coal      23934   25.330
## 8402    natural_gas     442059    1.040
## 8403    natural_gas      76270    1.056
## 8404    natural_gas        129    1.011
## 8405    natural_gas        249    1.000
## 8407    natural_gas    3353796    1.017
## 8408           coal      34055   23.809
## 8410           coal      26824   16.770
## 8411      petroleum      48981    6.344
## 8413           coal      11779   24.702
## 8415    natural_gas        649    1.000
## 8416    natural_gas    3384402    1.016
## 8417    natural_gas    2194075    1.041
## 8418           coal     264358   18.440
## 8419    natural_gas     181007    1.014
## 8420           coal      27590   16.914
## 8422    natural_gas     264720    1.000
## 8424    natural_gas       1845    1.041
## 8425    natural_gas      67064    1.008
```

```
## 8426       natural_gas           6990         1.030
## 8427       natural_gas          27736         1.041
## 8428       natural_gas           3379         1.056
## 8431       natural_gas           1942         1.030
## 8432       natural_gas          57645         1.021
## 8433              coal           3298        22.435
## 8434       natural_gas         227239         1.030
## 8436              coal           9486        23.000
## 8438         petroleum             57         5.920
## 8439              coal            112        25.160
## 8440              coal          68242        24.680
## 8441              coal          68208        21.790
## 8443       natural_gas              2         1.000
## 8444         petroleum            716         5.800
## 8445              coal           9749        15.700
## 8446              coal           1234        10.400
## 8447              coal         116199        24.200
## 8448         petroleum           1383         6.000
## 8449         petroleum             77         5.800
## 8450       natural_gas         924526         1.035
## 8453       natural_gas          24398         1.025
## 8454              coal          30018        16.682
## 8455    petroleum_coke           5326        28.750
## 8456       natural_gas          17434         1.021
## 8457       natural_gas         919547         1.008
## 8458              coal          11713        24.886
## 8459       natural_gas          79404         1.023
## 8460       natural_gas         360842         1.012
## 8461       natural_gas          37889         1.000
## 8462              coal          62572        17.600
## 8463       natural_gas           1448         1.010
## 8464              coal         228710        16.000
## 8465              coal             56        11.890
## 8466              coal          55050        23.810
## 8468       natural_gas         118902         1.030
## 8469       natural_gas             24         1.095
## 8470              coal          36724        17.115
## 8471       natural_gas            107         1.073
## 8473       natural_gas            321         1.231
## 8474       natural_gas         333413         1.032
## 8475       natural_gas          50518         1.059
## 8476         petroleum             30         5.880
## 8477              coal          31763        16.958
## 8478    petroleum_coke           8047        28.100
## 8480         petroleum            624         5.670
## 8481       natural_gas          48000         1.027
## 8482       natural_gas          24479         1.036
## 8483         petroleum           7199         5.780
## 8484              coal          11136        24.778
## 8485              coal          79464        24.060
## 8486         petroleum             56         5.850
## 8487       natural_gas           1695         1.025
## 8488       natural_gas            419         1.034
## 8490              coal          47420        17.637
```

```
## 8491        petroleum          19317          5.750
## 8492             coal            856         23.210
## 8495      natural_gas          49577          1.000
## 8496      natural_gas         138695          1.030
## 8497             coal          16035         17.480
## 8498      natural_gas           4398          1.022
## 8499             coal          63431         24.962
## 8500      natural_gas            303          1.017
## 8501      natural_gas           3495          1.000
## 8503             coal          31453         17.639
## 8504             coal          62986         17.548
## 8506      natural_gas         966468          1.040
## 8507             coal            708         10.400
## 8508             coal          27488         18.042
## 8509      natural_gas              3          1.000
## 8511      natural_gas            825          1.074
## 8512      natural_gas          11871          1.000
## 8513             coal           8501         22.504
## 8514             coal            244         17.910
## 8515      natural_gas           5167          1.030
## 8516      natural_gas         253533          1.058
## 8517      natural_gas         112497          1.009
## 8518             coal           7168         23.788
## 8519             coal          12933         25.300
## 8520      natural_gas          87982          1.032
## 8521      natural_gas           4299          1.020
## 8522      natural_gas         898979          1.050
## 8523             coal          58648         16.570
## 8525   petroleum_coke           7844         27.190
## 8526             coal            177         18.670
## 8528      natural_gas            100          1.064
## 8529             coal          31138         23.564
## 8530      natural_gas           1780          1.072
## 8531      natural_gas            857          1.017
## 8532      natural_gas          69966          1.022
## 8533             coal          57968         16.890
## 8534      natural_gas          57957          1.006
## 8535             coal           2553         24.030
## 8536      natural_gas        2573596          1.028
## 8537      natural_gas         278505          1.028
## 8538      natural_gas        1285327          1.031
## 8539      natural_gas         112367          1.035
## 8541        petroleum             55          5.825
## 8542      natural_gas           6737          1.248
## 8543      natural_gas         273093          1.030
## 8544             coal          11120         26.100
## 8545      natural_gas          23346          1.028
## 8546             coal          21064         22.060
## 8549        petroleum            264          6.694
## 8550      natural_gas            392          1.000
## 8551      natural_gas         486496          1.020
## 8552             coal          20378         25.000
## 8553      natural_gas         109827          1.027
## 8555      natural_gas         240955          1.030
```

```
## 8556      natural_gas        116       1.022
## 8557             coal        205      25.029
## 8558             coal       9021      25.000
## 8559      natural_gas     150000       1.015
## 8564      natural_gas       4783       1.025
## 8565             coal      26078      23.578
## 8566             coal      26737      24.480
## 8568             coal      10143      23.724
## 8571             coal       7738      24.130
## 8572      natural_gas     138073       1.034
## 8573      natural_gas     384257       1.032
## 8575      natural_gas        210       1.027
## 8576      natural_gas        624       1.047
## 8578             coal       1626      22.192
## 8579      natural_gas      17990       1.000
## 8581      natural_gas        108       1.000
## 8582      natural_gas      77197       1.020
## 8584      natural_gas        124       1.055
## 8585             coal     217824      25.180
## 8586      natural_gas    3139689       1.021
## 8587             coal      44972      17.528
## 8590             coal      38327      24.910
## 8591      natural_gas       9149       1.093
## 8592             coal       8692      25.474
## 8594             coal      15693      17.730
## 8595      natural_gas      39900       1.010
## 8596      natural_gas         43       1.000
## 8598      natural_gas     138203       1.013
## 8600      natural_gas       2126       1.035
## 8601      natural_gas     358289       1.022
## 8602             coal      39549      25.980
## 8603             coal      34674      25.240
## 8604             coal     167818      24.470
## 8605        other_gas     687627       0.684
## 8606             coal        479      23.804
## 8608      natural_gas      16300       1.014
## 8609             coal      69883      16.900
## 8610   petroleum_coke        919      28.651
## 8611             coal       8305      23.680
## 8613      natural_gas      13638       1.033
## 8614      natural_gas      97017       1.029
## 8615      natural_gas       1088       1.077
## 8616        petroleum        906       5.500
## 8617             coal      31452      24.994
## 8618      natural_gas        645       1.028
## 8619             coal     266600      17.232
## 8620        petroleum      37088       6.300
## 8623      natural_gas      33653       1.020
## 8624      natural_gas     232718       1.032
## 8625      natural_gas     247450       1.035
## 8628      natural_gas     143528       1.008
## 8629             coal     222308      17.139
## 8630      natural_gas       6341       1.010
## 8632             coal       6611      24.464
```

```
## 8633      petroleum          43143        5.800
## 8635    natural_gas          63147        1.000
## 8636    natural_gas          13083        1.000
## 8637           coal           7169       23.470
## 8639    natural_gas          37718        1.030
## 8640    natural_gas         524325        1.040
## 8642    natural_gas          11572        1.012
## 8643    natural_gas         312396        1.000
## 8644    natural_gas            127        1.020
## 8647           coal            236       25.000
## 8648    natural_gas          49332        1.016
## 8649           coal          30800       25.214
## 8650           coal          91654       17.585
## 8651    natural_gas           1432        1.000
## 8652    natural_gas           4883        1.099
## 8653    natural_gas         155379        1.023
## 8655    natural_gas          29955        1.032
## 8656    natural_gas        1639427        1.024
## 8657    natural_gas           2164        1.030
## 8658    natural_gas         189384        1.019
## 8660    natural_gas            228        1.000
## 8661    natural_gas          43436        1.000
## 8662           coal          78823       23.298
## 8664    natural_gas        2207459        1.010
## 8665    natural_gas         164410        1.034
## 8667    natural_gas           5677        1.079
## 8669           coal           8352       15.980
## 8670    natural_gas          74714        1.000
## 8673    natural_gas           5000        1.067
## 8675    natural_gas          68777        1.039
## 8676           coal         211889       17.943
## 8677    natural_gas         399548        1.061
## 8679           coal          12808       23.860
## 8681    natural_gas              2        1.040
## 8682    natural_gas         101265        1.028
## 8683      petroleum            466        5.780
## 8684           coal          81131       23.127
## 8685    natural_gas         667942        1.030
## 8686           coal          60697       17.724
## 8688    natural_gas         265956        1.040
## 8689      petroleum           3561        5.762
## 8690           coal          30950       16.830
## 8691    natural_gas        2140714        1.031
## 8692      petroleum            175        5.900
## 8693           coal          12065       24.628
## 8694    natural_gas           7660        1.009
## 8695    natural_gas           3131        1.019
## 8696    natural_gas          18639        1.000
## 8698           coal          16418       24.340
## 8700           coal          15164       25.814
## 8705    natural_gas            232        1.000
## 8707           coal          23559       23.000
## 8708      petroleum           1786        5.800
## 8709           coal          58615       17.154
```

```
## 8710       coal            700       23.890
## 8711    petroleum         2300        5.770
## 8712  natural_gas         3723        1.018
## 8715  natural_gas        46094        1.000
## 8716  natural_gas        61446        1.000
## 8717         coal        23789       21.710
## 8718    petroleum          872        5.922
## 8719  natural_gas      1921904        1.020
## 8720  natural_gas          110        1.019
## 8721    petroleum         8827        5.780
## 8723  natural_gas        30546        1.035
## 8725  natural_gas      1781016        1.060
## 8727         coal        74326       17.830
## 8729  natural_gas         7084        1.036
## 8730  natural_gas       566435        1.026
## 8731  natural_gas        37090        1.011
## 8733  natural_gas        58083        1.033
## 8734  natural_gas        18500        1.005
## 8738  natural_gas      1347602        1.030
## 8739         coal       328670       13.470
## 8740  natural_gas         1636        1.000
## 8741         coal        22312       23.865
## 8743  natural_gas        37951        1.010
## 8744    petroleum         2346        5.780
## 8745  natural_gas      3236689        1.029
## 8747         coal       227367       16.006
## 8749  natural_gas       356075        1.031
## 8750  natural_gas       387674        1.016
## 8751         coal         9893       24.790
## 8753  natural_gas       158774        0.880
## 8754  natural_gas        43767        1.044
## 8756         coal        16104       24.370
## 8757    petroleum         3320        5.817
## 8758    petroleum          142        5.800
## 8763  natural_gas          101        1.020
## 8764  natural_gas         4266        1.101
## 8766  natural_gas         1245        1.025
## 8767         coal        95631       24.622
## 8768         coal         1431       24.300
## 8769  natural_gas           35        1.000
## 8771  natural_gas      4769068        1.020
## 8772  natural_gas       344421        1.017
## 8773  natural_gas      1035126        1.031
## 8774  natural_gas      2041222        1.039
## 8776  natural_gas       348855        1.047
## 8777  natural_gas         1926        1.000
## 8778         coal       126968       17.490
## 8779  natural_gas        10835        1.233
## 8780         coal        12470       23.378
## 8782         coal        22689       26.030
## 8783  natural_gas         1844        1.039
## 8785  natural_gas      1662510        1.024
## 8786         coal        62024       22.458
## 8789  natural_gas       166797        1.049
```

```
## 8791          coal      34626    17.640
## 8793          coal     101269    17.120
## 8794   natural_gas     469331     1.026
## 8795   natural_gas        277     1.070
## 8796          coal       8218    24.900
## 8797   natural_gas     161041     1.019
## 8798   natural_gas       3741     1.017
## 8799   natural_gas      40947     1.058
## 8800   natural_gas        876     1.027
## 8801          coal      30000    25.120
## 8802   natural_gas      30351     1.018
## 8803   natural_gas       6516     1.018
## 8804     petroleum         79     5.700
## 8805          coal      62694    24.166
## 8806   natural_gas      12015     1.015
## 8807          coal      17685    26.200
## 8808          coal      46129    23.600
## 8809   natural_gas    2192088     1.024
## 8810   natural_gas     266600     1.020
## 8811          coal     115066    22.678
## 8814   natural_gas      52771     1.032
## 8816   natural_gas     210684     1.035
## 8817   natural_gas    1026912     1.034
## 8819   natural_gas     190884     1.023
## 8820   natural_gas      63288     1.041
## 8823          coal      28080    17.160
## 8825   natural_gas     810519     1.010
## 8827   natural_gas      16120     1.019
## 8829   natural_gas    1439417     1.017
## 8830          coal      10825    25.940
## 8831   natural_gas      32499     1.024
## 8835   natural_gas       4426     1.025
## 8836          coal      41268    16.160
## 8838   natural_gas       1997     1.042
## 8839          coal        924    25.000
## 8841          coal       7823    24.000
## 8844          coal      45305    22.440
## 8846   natural_gas     564398     1.006
## 8847          coal      15802    17.910
## 8848          coal      12184    25.000
## 8850          coal     110586    24.380
## 8851   natural_gas      80580     1.035
## 8853   natural_gas     388720     1.019
## 8854     petroleum        163     5.812
## 8855   natural_gas    2397419     1.032
## 8856     petroleum       1877     5.520
## 8858          coal        109    20.820
## 8864   natural_gas     106843     1.064
## 8865   natural_gas     265511     1.000
## 8868   natural_gas      19397     1.066
## 8869   natural_gas      39254     1.019
## 8871          coal       3117    24.120
## 8872   natural_gas    3444126     1.019
## 8873          coal     172948    22.076
```

```
## 8874       petroleum           1879          5.670
## 8875       petroleum             65          5.800
## 8877     natural_gas           5890          1.080
## 8878     natural_gas           4878          1.001
## 8879     natural_gas            809          1.046
## 8880     natural_gas         621124          1.032
## 8881     natural_gas            241          1.016
## 8882          coal            9285         25.852
## 8884     natural_gas         430479          1.000
## 8885     natural_gas         531146          1.019
## 8888          coal           15335         26.320
## 8889          coal          280082         16.690
## 8890          coal            6023         24.946
## 8891     natural_gas         760401          1.031
## 8893          coal           32494         26.440
## 8894     natural_gas         445552          1.031
## 8896     natural_gas            361          1.000
## 8897       petroleum             83          5.700
## 8899     natural_gas         645260          1.025
## 8900          coal           14242         22.149
## 8901     natural_gas         357980          1.014
## 8902     natural_gas         150744          1.025
## 8903          coal             485         25.178
## 8905     natural_gas         309498          1.027
## 8906       petroleum           2479          5.798
## 8907     natural_gas         822802          1.035
## 8908          coal            2721         24.537
## 8909     natural_gas         957236          1.030
## 8910     natural_gas             44          1.065
## 8911     natural_gas           6581          1.019
## 8914          coal            6133         23.432
## 8915     natural_gas         260496          1.020
## 8919          coal           15045         18.000
## 8920     natural_gas        2055448          1.027
## 8921          coal           46232         23.020
## 8922          coal          130715         16.710
## 8923          coal           15752         17.736
## 8924       petroleum            642          6.000
## 8925     natural_gas           2888          1.220
## 8926     natural_gas         689447          1.030
## 8928     natural_gas        1001174          1.030
## 8930          coal           10104         24.414
## 8931       petroleum            611          5.750
## 8932     natural_gas           3746          1.011
## 8935          coal           21456         27.270
## 8936       petroleum           2650          6.010
## 8937     natural_gas           8269          1.000
## 8938       petroleum           8222          5.793
## 8940     natural_gas            676          1.040
## 8942     natural_gas         801663          1.016
## 8943     natural_gas         434701          1.005
## 8944     natural_gas          35333          1.049
## 8945     natural_gas           1448          1.030
## 8946     natural_gas        2531164          1.023
```

```
## 8947          coal      95220    17.780
## 8948          coal      14118    16.830
## 8949     petroleum        652     5.880
## 8950   natural_gas      86144     1.034
## 8951     petroleum      63458     5.802
## 8952   natural_gas      22351     1.000
## 8953          coal       9351    24.020
## 8954     petroleum         18     5.858
## 8956   natural_gas      18223     1.021
## 8957   natural_gas      26735     1.015
## 8958   natural_gas       2057     1.000
## 8961          coal      28116    16.738
## 8962   natural_gas     538294     1.018
## 8963          coal      25030    17.790
## 8964          coal      65266    17.280
## 8965          coal        213    17.350
## 8966          coal      14403    21.830
## 8968     petroleum       1091     5.830
## 8969   natural_gas    1051136     1.029
## 8970   natural_gas      12745     1.020
## 8973   natural_gas       2261     1.040
## 8975   natural_gas       6572     1.044
## 8976   natural_gas     858457     1.040
## 8977   natural_gas       1303     1.066
## 8978          coal      17124    17.508
## 8979   natural_gas     389211     1.030
## 8983          coal        341    21.730
## 8984          coal     178906    25.128
## 8985   natural_gas        210     1.020
## 8986   natural_gas      10702     1.032
## 8988   natural_gas      81061     1.059
## 8989          coal      96312    17.870
## 8991          coal      46759    25.481
## 8992   natural_gas     373731     1.091
## 8993     petroleum         19     5.775
## 8994   natural_gas        230     1.000
## 8995          coal       1468    24.034
## 8997          coal      13250    23.454
## 8999   natural_gas      56513     1.040
## 9000          coal     300182    17.970
## 9001   natural_gas    1176212     1.040
## 9002     other_gas     658974     0.270
## 9003   natural_gas     126340     1.015
## 9004   natural_gas     224967     1.016
## 9005          coal      12063    24.174
## 9006   natural_gas     184708     1.044
## 9009          coal       8989    26.060
## 9010          coal       3220    22.498
## 9011          coal      91493    25.200
## 9013   natural_gas     405494     1.026
## 9014   natural_gas     405000     1.004
## 9016          coal      22858    16.860
## 9017          coal      15079    25.822
## 9018     petroleum       2390     5.762
```

```
## 9019          coal        95129        17.720
## 9021   natural_gas        34148         1.034
## 9022   natural_gas      1491750         1.023
## 9023   natural_gas         4234         1.006
## 9024   natural_gas       263121         1.006
## 9025   natural_gas        10000         1.012
## 9026          coal       125492        17.636
## 9030   natural_gas       734590         1.026
## 9032   natural_gas        16763         1.038
## 9033   natural_gas        25854         1.064
## 9034   natural_gas         1363         1.019
## 9035          coal        11813        25.200
## 9036   natural_gas        11844         1.230
## 9037   natural_gas       274751         1.025
## 9038   natural_gas          193         1.030
## 9039   natural_gas          247         1.017
## 9040          coal        13171        23.608
## 9041          coal         1499        24.190
## 9043   natural_gas          531         1.020
## 9044   natural_gas      1717473         1.029
## 9045          coal       258275        18.144
## 9046   natural_gas        37672         1.020
## 9047   natural_gas      3187172         1.027
## 9048   natural_gas          347         1.020
## 9049     petroleum            9         5.930
## 9050   natural_gas       761593         1.040
## 9051   natural_gas      2636444         1.030
## 9052   natural_gas        64071         1.033
## 9053          coal        16601        17.720
## 9054   natural_gas         1460         1.014
## 9055          coal        15725        24.380
## 9056          coal        52649        22.800
## 9057   natural_gas        58151         1.030
## 9058          coal        47408        17.780
## 9059     petroleum          883         5.992
## 9060          coal        51200        17.760
## 9062          coal         7200        23.000
## 9063          coal        55000        17.600
## 9064   natural_gas          184         1.034
## 9066     petroleum          695         5.880
## 9069          coal         9949        23.822
## 9070   natural_gas      2560461         1.000
## 9072   natural_gas        25112         1.019
## 9073     petroleum        26435         5.880
## 9074   natural_gas      2505583         1.029
## 9076          coal        30933        17.540
## 9077          coal       260689        17.476
## 9078          coal       116909        16.610
## 9081   natural_gas         2413         1.036
## 9083   natural_gas        15352         1.030
## 9084   natural_gas         9368         1.040
## 9087   natural_gas        72141         1.023
## 9088   natural_gas           14         1.021
## 9089          coal        34499        25.220
```

```
## 9091          coal        104734          24.902
## 9092          coal         15036          16.600
## 9093   natural_gas        895960           1.018
## 9094   natural_gas         26335           1.061
## 9095          coal          1345           7.840
## 9096   natural_gas          6165           1.030
## 9097   natural_gas           317           1.004
## 9098          coal         46306          26.065
## 9099   natural_gas          2942           1.020
## 9100   natural_gas          6854           1.020
## 9103          coal           761          26.040
## 9104          coal         13082          16.306
## 9106     petroleum           887           5.820
## 9107     petroleum           143           5.817
## 9108   natural_gas       1011269           1.022
## 9109          coal         24625          24.187
## 9110   natural_gas       3047362           1.007
## 9111   natural_gas           171           1.050
## 9112          coal          8092          25.840
## 9113          coal         48572          17.981
## 9115          coal         16400          17.492
## 9116   natural_gas         56917           1.030
## 9117   natural_gas       1415710           1.029
## 9118   natural_gas        134802           1.020
## 9119          coal         35246          23.270
## 9120   natural_gas         25899           1.030
## 9122   natural_gas           200           1.008
## 9123   natural_gas       4574977           1.011
## 9125   natural_gas           557           1.018
## 9126   natural_gas         32373           1.021
## 9127          coal           993          22.950
## 9128          coal         50960          24.110
## 9129   natural_gas            62           1.020
## 9130          coal         12957          26.000
## 9131          coal         11501          24.422
## 9132   natural_gas          4687           1.070
## 9134   natural_gas           443           1.021
## 9135          coal          1740          22.416
## 9136   natural_gas          3483           1.047
## 9138   natural_gas         11260           1.020
## 9139          coal          2106          16.994
## 9140   natural_gas         13506           1.046
## 9141   natural_gas           515           1.017
## 9142   natural_gas         18653           1.023
## 9143   natural_gas        104875           1.013
## 9144     petroleum           179           5.880
## 9145   natural_gas        735363           1.014
## 9146          coal         22623          23.207
## 9147     petroleum           885           5.800
## 9148   natural_gas        582819           1.021
## 9149          coal         29458          16.830
## 9150   natural_gas        578839           1.026
## 9151   natural_gas       2457448           1.023
## 9153   natural_gas          2308           1.000
```

```
## 9154      natural_gas          273932          1.004
## 9156             coal          143259         17.964
## 9157             coal             616         15.640
## 9158        petroleum             476          5.880
## 9159             coal            8423         22.781
## 9162        petroleum             214          5.600
## 9164        petroleum             880          5.900
## 9165             coal            3408         22.953
## 9166             coal            1716         24.790
## 9169      natural_gas          296484          1.040
## 9170      natural_gas          114584          1.090
## 9171      natural_gas           16595          1.028
## 9172      natural_gas            9382          1.020
## 9173      natural_gas         1095702          1.028
## 9174      natural_gas          680366          1.039
## 9177      natural_gas         1076255          1.036
## 9178      natural_gas            1596          1.020
## 9179      natural_gas           59381          1.012
## 9182             coal           27543         17.332
## 9183      natural_gas          221321          1.024
## 9184             coal           11367         23.740
## 9185             coal             588         29.000
## 9186      natural_gas         2274779          1.019
## 9187        petroleum            2382          6.000
## 9188      natural_gas         5455330          1.014
## 9189             coal           43532         17.550
## 9190             coal          353346         17.604
## 9191             coal          104097         23.550
## 9192      natural_gas            1569          1.051
## 9193             coal           24283         22.979
## 9194             coal            5500         20.914
## 9195        petroleum             177          5.920
## 9197      natural_gas         2226958          1.026
## 9198             coal           15285         17.210
## 9199      natural_gas            3943          1.035
## 9200             coal            4800         11.220
## 9203             coal           11801         24.700
## 9204             coal          135612         17.600
## 9205      natural_gas             982          1.020
## 9206      natural_gas             639          1.066
## 9207             coal             579         23.830
## 9208             coal            4126         22.429
## 9209             coal           45812         22.924
## 9210             coal           63000         17.740
## 9211      natural_gas          349308          1.029
## 9212      natural_gas            4759          1.025
## 9213             coal            1405         24.494
## 9215             coal          130800         24.790
## 9217             coal          214793         22.000
## 9218      natural_gas            9671          1.034
## 9219        petroleum             181          5.830
## 9220      natural_gas            1980          1.010
## 9221             coal           26993         17.972
## 9223             coal           29820         23.616
```

```
## 9224       natural_gas            3249          1.016
## 9225       natural_gas         2157810          1.023
## 9226       natural_gas           33153          1.029
## 9228       natural_gas              66          1.000
## 9229              coal           10751         15.070
## 9233       natural_gas            4292          1.000
## 9234         petroleum            1262          5.754
## 9235              coal           19320         25.827
## 9236       natural_gas          607069          1.050
## 9237         petroleum             367          5.730
## 9238              coal            9601         25.030
## 9239              coal           17191         23.064
## 9241       natural_gas             911          1.032
## 9242       natural_gas          257509          1.027
## 9247              coal           11311         26.400
## 9248              coal            5287         13.448
## 9250       natural_gas          422589          1.030
## 9251       natural_gas            3664          1.000
## 9252       natural_gas           19427          1.020
## 9253       natural_gas            2896          1.030
## 9254         petroleum            3572          5.729
## 9255              coal            5380         25.358
## 9259              coal           11569         25.460
## 9260       natural_gas          168542          1.028
## 9261              coal           63828         21.000
## 9262       natural_gas         3894684          1.025
## 9264              coal           48739         17.610
## 9265              coal          114136         25.500
## 9266       natural_gas           23723          1.010
## 9267       natural_gas          286148          1.029
## 9268              coal           97652         16.800
## 9269              coal           13937         17.502
## 9271       natural_gas            2981          1.010
## 9273       natural_gas            1181          1.024
## 9274              coal          212503         17.826
## 9275              coal           16088         16.960
## 9276         petroleum              41          5.670
## 9281              coal           11793         25.480
## 9282       natural_gas         1379393          1.000
## 9284       natural_gas           11885          1.000
## 9287       natural_gas          186750          1.030
## 9289       natural_gas          136052          1.016
## 9290              coal           12930         25.250
## 9292              coal           13517         21.608
## 9293              coal            7146         22.840
## 9294       natural_gas            7757          1.022
## 9295       natural_gas           23144          1.040
## 9302              coal           15276         16.670
## 9304       natural_gas         1748958          1.056
## 9305       natural_gas           15000          1.003
## 9306       natural_gas           50718          1.031
## 9307       natural_gas          114590          1.030
## 9309       natural_gas           20097          1.010
## 9311       natural_gas            3293          1.242
```

```
## 9312              coal       90532      25.978
## 9313       natural_gas       47557       1.030
## 9315              coal       32780      17.760
## 9316       natural_gas        8940       1.100
## 9317              coal        1141      17.054
## 9319         petroleum        2851       5.880
## 9321              coal       80776      26.120
## 9322       natural_gas      171666       1.037
## 9324       natural_gas       45420       1.023
## 9325       natural_gas     1236607       1.039
## 9326       natural_gas         104       1.018
## 9328       natural_gas       49118       1.017
## 9329       natural_gas        3475       1.027
## 9330       natural_gas      121096       1.007
## 9331       natural_gas        2539       1.230
## 9332              coal       30882      17.670
## 9333       natural_gas      126317       1.023
## 9335       natural_gas      127212       1.020
## 9337              coal       21550      23.676
## 9338       natural_gas      319485       1.031
## 9339              coal       24863      26.010
## 9340       natural_gas       54679       1.024
## 9341       natural_gas      961249       1.038
## 9342       natural_gas      238193       1.037
## 9343              coal       44641      23.000
## 9344       natural_gas           7       1.000
## 9345       natural_gas        6702       1.020
## 9346       natural_gas      593387       1.019
## 9347       natural_gas     2009893       1.050
## 9348       natural_gas       32943       1.035
## 9349              coal       39173      23.294
## 9350       natural_gas        3373       1.000
## 9351              coal        3322      23.728
## 9352       natural_gas      853828       1.035
## 9353              coal      205117      17.500
## 9354       natural_gas        3529       1.020
## 9355              coal        1113      26.080
## 9356              coal       62111      16.650
## 9357       natural_gas        1838       1.062
## 9359       natural_gas          20       1.012
## 9361         petroleum       43911       5.900
## 9362              coal      287494      18.759
## 9363    petroleum_coke       38247      28.112
## 9364       natural_gas          55       1.000
## 9365              coal       29903      26.030
## 9366              coal       33159      23.430
## 9367       natural_gas      259868       1.028
## 9369       natural_gas       61998       1.100
## 9370       natural_gas         264       1.035
## 9372       natural_gas         201       1.016
## 9373              coal        7392      23.702
## 9374       natural_gas       27756       1.030
## 9375         petroleum        1732       5.430
## 9376              coal        7579      18.800
```

```
## 9377         coal       75467      16.633
## 9378  natural_gas      557383       1.044
## 9379  natural_gas         193       1.040
## 9380  natural_gas      145185       1.013
## 9381  natural_gas         682       1.249
## 9383         coal        6529      17.042
## 9384  natural_gas        8818       1.061
## 9385  natural_gas        1640       1.000
## 9386  natural_gas     2201583       1.059
## 9387  natural_gas      233015       1.000
## 9388         coal       12126      24.850
## 9389    petroleum        4617       5.780
## 9390         coal       34049      22.150
## 9393  natural_gas         122       1.036
## 9394  natural_gas       10413       1.240
## 9395    petroleum          39       5.850
## 9396    other_gas      290307       1.129
## 9397         coal        2763      23.878
## 9398         coal       14549      18.100
## 9399         coal       15163      17.740
## 9400  natural_gas         944       1.035
## 9401         coal       10555      26.280
## 9403         coal       11569      22.500
## 9404         coal      117579      22.440
## 9406  natural_gas     1984671       1.016
## 9408  natural_gas       51793       1.037
## 9409         coal      106734       9.604
## 9410         coal       42333      24.040
## 9411  natural_gas       26475       1.036
## 9412  natural_gas        2045       1.030
## 9414         coal       12260      24.520
## 9415  natural_gas           2       1.020
## 9416         coal       11437      24.260
## 9418         coal       47454      24.314
## 9420  natural_gas         165       1.028
## 9421         coal       27486      16.732
## 9422         coal       11202      23.296
## 9423         coal       31798      17.888
## 9425         coal       47675      17.474
## 9426         coal       48162      17.980
## 9427    petroleum         707       5.762
## 9428    other_gas       74150       0.325
## 9430         coal       14624      25.849
## 9431         coal       10008      18.000
## 9432         coal       16146      17.962
## 9433    petroleum         161       6.390
## 9435         coal       66120      22.980
## 9436  natural_gas      653409       1.024
## 9437  natural_gas      986957       1.033
## 9438  natural_gas       10584       1.035
## 9439  natural_gas       22016       1.033
## 9440         coal       58321      16.840
## 9441  natural_gas        1345       1.032
## 9444  natural_gas         349       1.000
```

```
## 9445              coal        18214     16.969
## 9446       natural_gas         5300      0.996
## 9447       natural_gas        44789      1.048
## 9448              coal         3895     22.256
## 9449              coal        63314     17.821
## 9450         petroleum           16      5.800
## 9451       natural_gas        35382      1.027
## 9453       natural_gas          989      1.000
## 9454              coal        10064     25.770
## 9455       natural_gas         5255      1.026
## 9456              coal        29059     17.740
## 9457       natural_gas          559      1.068
## 9458              coal        66552     17.430
## 9459         petroleum          173      5.754
## 9460       natural_gas      1006001      1.053
## 9461              coal        94065     17.760
## 9463              coal        17536     23.084
## 9464    petroleum_coke        9479     27.750
## 9465         petroleum         1000      5.880
## 9466       natural_gas         1752      1.023
## 9467              coal       177800     24.766
## 9468       natural_gas        15966      1.016
## 9469              coal        22580     25.210
## 9470       natural_gas          570      1.010
## 9472       natural_gas        82929      1.031
## 9473              coal        39624     22.875
## 9475              coal        59205     17.760
## 9477              coal        55175     18.720
## 9478       natural_gas       223782      1.000
## 9479       natural_gas       614491      1.010
## 9482              coal        90760     22.370
## 9484       natural_gas        58863      1.045
## 9486       natural_gas       146524      1.125
## 9487              coal        11547     25.674
## 9488       natural_gas         9275      1.028
## 9489              coal           58     23.864
## 9490       natural_gas       113308      1.020
## 9491              coal        45508     17.700
## 9493              coal         5981     27.024
## 9494       natural_gas        10992      1.010
## 9495       natural_gas        11550      1.020
## 9496              coal         6552     26.100
## 9497       natural_gas       101255      1.033
## 9499              coal        81644     16.890
## 9501              coal         8816     15.818
## 9502              coal        12157     26.256
## 9504              coal        31659     17.664
## 9505       natural_gas       360705      1.020
## 9507       natural_gas          237      1.000
## 9508       natural_gas        81047      1.020
## 9510              coal        15640     25.930
## 9513       natural_gas        10553      1.033
## 9515       natural_gas      3454222      1.040
## 9516       natural_gas        59872      1.017
```

```
## 9517        natural_gas             349            1.000
## 9519               coal           54291           23.160
## 9520        natural_gas            7689            1.012
## 9521               coal           15821           21.900
## 9522               coal           14037           17.848
## 9524               coal            4954           17.600
## 9526        natural_gas           87622            1.027
## 9527        natural_gas           73225            1.000
## 9528        natural_gas            3571            1.220
## 9530        natural_gas          372107            1.040
## 9532        natural_gas         2008622            1.030
## 9533        natural_gas           40531            1.023
## 9534               coal           15864           17.900
## 9535        natural_gas          368717            1.035
## 9536        natural_gas          306627            1.014
## 9537        natural_gas           64391            1.033
## 9539               coal          108971           17.124
## 9542        natural_gas            1374            1.003
## 9544        natural_gas          119065            1.021
## 9545        natural_gas           49638            1.000
## 9546        natural_gas            4503            1.017
## 9547          petroleum             724            5.750
## 9551        natural_gas            1171            1.030
## 9552               coal           30480           24.962
## 9553               coal          154311           17.120
## 9554          petroleum             862            5.817
## 9555        natural_gas               9            1.032
## 9556        natural_gas         2170916            1.004
## 9557        natural_gas            6317            1.029
## 9558        natural_gas          345572            1.019
## 9559               coal           30291           25.070
## 9560        natural_gas            2605            1.029
## 9562        natural_gas            3755            1.020
## 9563               coal           63900           21.994
## 9564        natural_gas          901833            1.037
## 9565               coal            3495           25.630
## 9566        natural_gas          266418            0.988
## 9567        natural_gas          369351            1.015
## 9568        natural_gas              43            1.019
## 9569        natural_gas           77444            1.033
## 9570        natural_gas            4880            1.031
## 9571               coal           49287           17.700
## 9572               coal          127791           13.734
## 9573          petroleum           60749            6.343
## 9574               coal            2728           22.217
## 9575          petroleum             176            5.880
## 9576               coal           10375           22.190
## 9577        natural_gas            3368            1.006
## 9578               coal           98265           16.920
## 9579        natural_gas          285942            1.020
## 9580               coal           44376           18.000
## 9581        natural_gas           21535            1.079
## 9582        natural_gas              24            1.038
## 9583               coal           48980           18.160
```

```
## 9584    natural_gas        10117     1.020
## 9585           coal        15791    17.636
## 9586      petroleum          502     5.796
## 9587    natural_gas          175     1.020
## 9588    natural_gas          410     1.000
## 9590           coal        23273    24.990
## 9591    natural_gas       311123     1.033
## 9592    natural_gas          485     1.033
## 9594    natural_gas         7301     1.099
## 9595    natural_gas       181033     1.055
## 9596           coal       204203    16.530
## 9597           coal        11648    22.412
## 9598    natural_gas        13527     1.035
## 9600    natural_gas        19876     1.023
## 9601      petroleum          179     5.754
## 9602    natural_gas        21960     1.025
## 9603    natural_gas         4064     1.016
## 9604           coal         4035    24.860
## 9605    natural_gas       846426     1.040
## 9606    natural_gas        21388     1.030
## 9607    natural_gas        68913     1.032
## 9608    natural_gas       575195     1.030
## 9609      petroleum         1250     5.800
## 9610      petroleum         1772     5.800
## 9611           coal         1083    25.784
## 9612           coal        36055    23.989
## 9613           coal        14508    16.920
## 9615           coal         8013    22.683
## 9616           coal        39075    22.730
## 9617    natural_gas        10054     1.054
## 9618           coal        35276    23.138
## 9619           coal        11357    25.000
## 9621    natural_gas      3666029     1.045
## 9623    natural_gas         9611     1.001
## 9624           coal         1156    25.000
## 9625           coal       585131    12.640
## 9627           coal         5758    23.040
## 9628           coal         7200    24.156
## 9629    natural_gas      2951943     1.010
## 9630      petroleum        10307     5.791
## 9631    natural_gas        20079     1.023
## 9632           coal       186634    13.100
## 9633      petroleum          123     5.600
## 9634           coal        12212    24.400
## 9636    natural_gas          158     1.027
## 9637           coal        78917    16.778
## 9638           coal       127271    17.320
## 9639    natural_gas        82171     1.093
## 9640           coal         6136    26.000
## 9642    natural_gas      2009200     1.014
## 9644           coal        31698    17.480
## 9645           coal        11685    25.170
## 9646    natural_gas       887502     1.044
## 9647    natural_gas        79000     1.000
```

```
## 9649     natural_gas          382100         1.030
## 9651            coal          151783        17.930
## 9653     natural_gas           11266         1.051
## 9654     natural_gas          257352         1.040
## 9655     natural_gas           24483         1.035
## 9656            coal            7230        23.812
## 9657            coal            5172        24.420
## 9661     natural_gas          683170         1.000
## 9662     natural_gas            2919         1.003
## 9663            coal            4062        23.000
## 9664     natural_gas          319844         1.000
## 9665     natural_gas           81125         1.028
## 9667     natural_gas            7112         1.062
## 9668     natural_gas         3725563         1.035
## 9669            coal          142079        15.888
## 9670     natural_gas            6580         1.007
## 9671     natural_gas          428622         1.034
## 9672     natural_gas          155710         1.040
## 9673       other_gas          179448         0.510
## 9674     natural_gas          284974         1.024
## 9675     natural_gas            4455         1.010
## 9676            coal          132602        17.993
## 9677     natural_gas          244936         1.025
## 9681            coal           32786        17.650
## 9682       petroleum             359         5.817
## 9683            coal           11928        26.116
## 9684            coal          421745        12.930
## 9685            coal            1772        25.266
## 9687     natural_gas           25236         1.013
## 9689     natural_gas            1799         1.023
## 9691       petroleum            3574         5.712
## 9692     natural_gas             335         1.034
## 9694     natural_gas            8326         1.043
## 9697     natural_gas             485         1.064
## 9698            coal          110799        16.800
## 9699     natural_gas            3672         1.093
## 9702     natural_gas           14162         1.033
## 9703     natural_gas             261         1.017
## 9704     natural_gas            2703         1.014
## 9707       petroleum            4207         5.754
## 9708            coal           15749        17.400
## 9710     natural_gas           11437         1.001
## 9711            coal          118813        23.728
## 9712     natural_gas           19419         1.030
## 9713     natural_gas          917197         1.030
## 9714            coal            8658        24.772
## 9715     natural_gas           59895         1.027
## 9716            coal             313        15.570
## 9717            coal           13463        22.389
## 9718     natural_gas           30709         1.029
## 9719            coal          491029        17.426
## 9720            coal           58209        18.590
## 9721            coal           12106        22.490
## 9722     natural_gas            2597         1.010
```

```
## 9723      natural_gas            368          1.015
## 9724      natural_gas           4178          1.019
## 9726      natural_gas         234261          1.030
## 9728      natural_gas            876          1.008
## 9730             coal          34401         24.590
## 9731             coal         119366         17.059
## 9732             coal          12974         22.314
## 9734             coal          90674         17.774
## 9735      natural_gas             19          1.000
## 9736      natural_gas             92          1.000
## 9737      natural_gas        2089003          1.030
## 9738      natural_gas         168786          1.028
## 9739      natural_gas          15684          1.028
## 9740      natural_gas          19324          1.040
## 9743        petroleum           5971          5.790
## 9745      natural_gas          28983          1.006
## 9746             coal           6168         27.682
## 9747      natural_gas        2103886          1.082
## 9749      natural_gas        1984757          1.029
## 9751      natural_gas        4220426          1.041
## 9752             coal          38542         25.412
## 9754             coal           3365         23.904
## 9755      natural_gas         433142          1.030
## 9756             coal          12784         24.030
## 9757      natural_gas           2381          1.025
## 9760             coal         200753         17.696
## 9761      natural_gas            665          1.024
## 9762      natural_gas           9845          1.091
## 9763      natural_gas           4759          1.036
## 9764      natural_gas          13698          1.057
## 9768             coal          44896         17.958
## 9769        petroleum            873          5.882
## 9771      natural_gas         404193          1.030
## 9774             coal          19624         23.090
## 9775      natural_gas           1407          1.000
## 9779             coal          75681         16.804
## 9780      natural_gas          24370          1.037
## 9781      natural_gas          72993          1.096
## 9783             coal          10882         24.730
## 9785      natural_gas         816901          1.083
## 9786             coal          33791         24.190
## 9787             coal          15145         26.048
## 9788        petroleum           2575          6.333
## 9789      natural_gas           3503          1.080
## 9790             coal           5131         23.716
## 9791             coal          79427         17.841
## 9792      natural_gas           2548          1.070
## 9795      natural_gas           3512          1.000
## 9796      natural_gas            105          1.021
## 9797             coal          11800         25.230
## 9798        petroleum           5359          5.796
## 9799      natural_gas          13728          1.010
## 9800      natural_gas          15365          1.040
## 9801      natural_gas         105086          1.026
```

```
## 9802       natural_gas        2418     1.026
## 9804       natural_gas     1959233     1.016
## 9805              coal         383    24.092
## 9806         petroleum          45     5.850
## 9807       natural_gas     1260240     1.048
## 9808       natural_gas       15476     1.059
## 9809       natural_gas        1379     1.020
## 9810       natural_gas       65456     1.046
## 9811       natural_gas      182191     1.014
## 9812              coal       22740    29.000
## 9813    petroleum_coke       60638    29.450
## 9814       natural_gas        8133     1.023
## 9815              coal       33336    21.010
## 9818              coal       22590    22.920
## 9819              coal      134077    17.770
## 9821              coal         207    24.370
## 9822       natural_gas        3893     1.000
## 9823         other_gas      875348     0.977
## 9824       natural_gas        6961     1.030
## 9825              coal       46384    25.044
## 9826              coal       32823    25.336
## 9827              coal       36690    25.162
## 9829       natural_gas       24295     1.029
## 9830              coal      144802    17.618
## 9831       natural_gas      361838     1.044
## 9832       natural_gas      196967     1.031
## 9833       natural_gas        1616     1.000
## 9834       natural_gas        3960     1.010
## 9836       natural_gas     2601717     1.030
## 9837         petroleum        1417     5.800
## 9838       natural_gas        1364     1.034
## 9839       natural_gas       81123     1.033
## 9840       natural_gas          11     1.013
## 9841       natural_gas       53229     1.024
## 9843       natural_gas       34988     1.033
## 9844       natural_gas         461     1.022
## 9845              coal       31726    16.952
## 9846       natural_gas          14     1.075
## 9848              coal       27249    23.370
## 9849              coal      176690    24.840
## 9850         petroleum          83     5.833
## 9851       natural_gas      138452     1.000
## 9852       natural_gas       33651     1.028
## 9853              coal      226514    21.931
## 9854    petroleum_coke       16523    28.806
## 9855       natural_gas     1091892     1.027
## 9856       natural_gas        1140     1.019
## 9857         petroleum        2348     5.920
## 9860       natural_gas      160171     1.150
## 9861              coal      123635    18.005
## 9863       natural_gas      280859     0.935
## 9864              coal       51638    25.440
## 9867       natural_gas       10775     1.017
## 9869       natural_gas        3960     1.010
```

```
## 9870       natural_gas        19436         1.029
## 9872       natural_gas        98943         1.010
## 9874              coal         1751        15.636
## 9875       natural_gas          201         1.020
## 9876       natural_gas        52762         1.031
## 9878       natural_gas           14         1.006
## 9879              coal        69932        17.050
## 9880       natural_gas       276243         1.086
## 9881       natural_gas        34972         1.058
## 9882       natural_gas       135885         1.060
## 9884       natural_gas         4858         1.000
## 9885       natural_gas       180154         1.038
## 9887       natural_gas        54709         1.030
## 9889         petroleum           11         5.830
## 9890       natural_gas         3673         1.033
## 9892              coal        21596        24.086
## 9893         petroleum           26         5.800
## 9894              coal        14626        17.000
## 9895              coal         5091        24.722
## 9896         petroleum           39         5.700
## 9897       natural_gas        13382         1.000
## 9898         petroleum         1429         5.800
## 9899       natural_gas         6079         0.987
## 9900       natural_gas       327633         1.057
## 9901       natural_gas           15         1.100
## 9902       natural_gas         1107         1.000
## 9903       natural_gas       245050         1.030
## 9904       natural_gas      1761596         1.027
## 9905       natural_gas        78744         1.035
## 9906         petroleum         1614         5.796
## 9907       natural_gas         4869         1.027
## 9908              coal       180950        18.120
## 9910       natural_gas        14663         1.023
## 9911         petroleum           20         5.922
## 9912              coal        10404        23.200
## 9913       natural_gas          684         1.020
## 9915         petroleum          531         5.920
## 9916       natural_gas       208716         1.025
## 9917       natural_gas      1762451         1.005
## 9918       natural_gas         2152         1.016
## 9919       natural_gas        90813         1.030
## 9922              coal        38933        25.840
## 9923       natural_gas        92688         1.050
## 9924       natural_gas        78053         1.056
## 9925              coal       121989        17.400
## 9927       natural_gas       551780         1.029
## 9928              coal       165371        22.046
## 9930              coal        95563        17.214
## 9931              coal        30160        16.872
## 9932       natural_gas      2756090         1.027
## 9933              coal        23268        23.684
## 9934       natural_gas      2327139         1.060
## 9935       natural_gas         3216         1.028
## 9936              coal          122        16.480
```

```
## 9937      natural_gas        14947     1.019
## 9938             coal         29153    18.700
## 9939             coal         11029    24.864
## 9940      natural_gas       3533715     1.020
## 9942      natural_gas         10126     1.026
## 9943      natural_gas             3     1.020
## 9944             coal          1139    22.684
## 9946      natural_gas        131869     1.020
## 9947             coal         13153    21.920
## 9948             coal         16307    17.714
## 9949             coal         12248    25.310
## 9950             coal         14400    23.798
## 9951             coal          2099     9.036
## 9952             coal         87975    17.160
## 9953      natural_gas        19970     1.000
## 9954      natural_gas         7287     1.017
## 9955             coal         97011    22.840
## 9956      natural_gas        128434     1.023
## 9957             coal         15623    18.130
## 9958      natural_gas       2792915     1.033
## 9959             coal          3431    18.595
## 9960        petroleum           538     5.840
## 9961             coal         20630    22.780
## 9962             coal         98266    17.070
## 9963             coal        113039    16.890
## 9964      natural_gas       2110983     1.060
## 9965             coal         12964    25.290
## 9968      natural_gas        114679     1.036
## 9969      natural_gas       3662005     1.026
## 9970      natural_gas        784233     1.050
## 9972             coal        354497    25.310
## 9974             coal         25420    22.410
## 9976             coal          9105    16.862
## 9977      natural_gas         5313     1.017
## 9978             coal         23095    24.196
## 9979             coal         76143    25.490
## 9980             coal         17557    22.380
## 9981             coal         14769    16.762
## 9982             coal         10002    22.670
## 9984             coal         16072    16.680
## 9985             coal          3426    23.420
## 9986      natural_gas        62651     1.058
## 9987             coal         12746    24.224
## 9989             coal         24003    21.840
## 9990      natural_gas           304     1.027
## 9991             coal         10123    25.370
## 9993        petroleum             3     5.800
## 9994             coal         57262    23.884
## 9995      natural_gas        809181     1.030
## 9996      natural_gas        148622     1.025
## 9997      natural_gas         1929     1.140
## 9998             coal          6813    26.000
## 9999      natural_gas        209452     1.031
## 10000       petroleum            69     5.810
```

```
## 10001    natural_gas      20343     1.008
## 10002           coal      32000    25.320
## 10003           coal      11669    26.518
## 10004           coal      23481    23.500
## 10005    natural_gas        549     1.077
## 10006           coal         58    24.000
## 10007    natural_gas     171877     1.028
## 10008           coal     153760    23.718
## 10009    natural_gas         23     1.030
## 10010           coal     418850    13.840
## 10012    natural_gas       5797     1.028
## 10015    natural_gas      10097     1.101
## 10016           coal        120    24.590
## 10018           coal      12000    24.960
## 10019    natural_gas     576422     0.958
## 10020    natural_gas    4272890     1.012
## 10021           coal      38340    25.878
## 10022    natural_gas      56310     1.028
## 10023           coal       6555    24.620
## 10025           coal      23012    23.004
## 10027           coal      28601    24.158
## 10028    natural_gas     905718     1.032
## 10029    natural_gas     202105     1.051
## 10030    natural_gas     101576     1.012
## 10031           coal       8598    26.080
## 10032           coal      15453    23.106
## 10033    natural_gas       1358     1.036
## 10036    natural_gas     248421     1.060
## 10039    natural_gas       9538     1.033
## 10040      petroleum       1503     5.660
## 10041    natural_gas       3399     1.075
## 10042           coal      14236    25.910
## 10043    natural_gas      35599     1.030
## 10044      petroleum        113     5.850
## 10045    natural_gas     183701     1.000
## 10046    natural_gas       1628     1.000
## 10047    natural_gas     150187     1.032
## 10049      petroleum       4217     6.430
## 10050    natural_gas     284651     1.040
## 10051    natural_gas    1074878     1.016
## 10052    natural_gas     125029     1.020
## 10053    natural_gas    4022594     1.017
## 10056      petroleum        401     5.880
## 10057    natural_gas       2810     1.032
## 10059    natural_gas    1920936     1.015
## 10060    natural_gas        748     1.000
## 10061    natural_gas       1285     1.000
## 10064    natural_gas      34614     1.030
## 10065           coal     126861    22.504
## 10066    natural_gas     246051     1.033
## 10067           coal      26694    23.744
## 10068    natural_gas     597488     1.031
## 10070    natural_gas       2834     1.033
## 10071      petroleum        195     5.800
```

```
## 10072           coal         231586        17.550
## 10073    natural_gas            610         1.030
## 10074      petroleum             93         5.880
## 10075           coal           1832        16.420
## 10076      petroleum            888         5.750
## 10077    natural_gas         573745         1.037
## 10079           coal          19424        26.306
## 10080    natural_gas           3372         1.031
## 10082           coal          97635        22.800
## 10083           coal           8173        25.740
## 10084    natural_gas             94         1.030
## 10085      petroleum           1028         5.754
## 10087           coal          12693        22.660
## 10088           coal         692521        12.500
## 10089    natural_gas         244948         1.059
## 10090    natural_gas        1463372         1.020
## 10091    natural_gas         223336         1.014
## 10092    natural_gas           4241         1.040
## 10093    natural_gas          13927         1.030
## 10094    natural_gas        4470317         1.049
## 10095           coal         125370        24.550
## 10096    natural_gas          11840         1.030
## 10097    natural_gas           5601         1.000
## 10098           coal            116        26.330
## 10100    natural_gas          53712         1.000
## 10101    natural_gas         667092         1.050
## 10102           coal         134752        17.920
## 10103      petroleum          17171         6.336
## 10105           coal          96757        17.350
## 10107           coal          65169        26.020
## 10108    natural_gas             95         1.027
## 10109    natural_gas         356969         1.019
## 10111           coal         107692        23.706
## 10112    natural_gas        1547671         1.030
## 10113           coal           6574        24.372
## 10114    natural_gas         697566         1.047
## 10115    natural_gas            453         1.030
## 10118    natural_gas         103942         1.034
## 10120    natural_gas           2953         1.016
## 10121    natural_gas           7412         1.039
## 10122           coal          32914        17.340
## 10123    natural_gas           2957         1.032
## 10124           coal          47000        17.600
## 10125    natural_gas         132850         1.041
## 10126    natural_gas             30         1.020
## 10127    natural_gas         589072         1.038
## 10128    natural_gas         192654         1.030
## 10130           coal          42815        25.900
## 10131           coal          46435        25.950
## 10133    natural_gas          65002         1.052
## 10134    natural_gas          18014         1.083
## 10135           coal          12968        24.060
## 10136    natural_gas          36402         1.080
## 10137    natural_gas           1369         1.020
```

```
## 10138       natural_gas                581343                   1.040
## 10140       natural_gas                466000                   1.030
## 10141         petroleum                   254                   5.850
## 10142              coal                 61978                  23.048
## 10143       natural_gas                272706                   1.058
## 10144              coal                 56279                  21.930
## 10145              coal                123688                  17.867
## 10147       natural_gas               1630008                   1.018
## 10150       natural_gas                  3590                   1.010
## 10151       natural_gas                  9662                   1.035
## 10152       natural_gas               2087984                   1.020
## 10153              coal                 94734                  21.790
## 10154              coal                  9115                  22.180
## 10155       natural_gas                670100                   1.038
## 10156         petroleum                  1780                   5.750
## 10157       natural_gas                   139                   1.030
## 10158       natural_gas                 59866                   1.046
## 10159       natural_gas                 20218                   1.022
## 10160         petroleum                  6957                   5.931
## 10161       natural_gas                  2001                   1.111
## 10162       natural_gas                 43149                   1.030
## 10163              coal                131570                  16.780
## 10164       natural_gas               5348672                   1.023
## 10165       natural_gas                 30000                   1.010
## 10166       natural_gas                721613                   1.036
## 10167       natural_gas                927773                   1.032
## 10168       natural_gas                126664                   1.060
## 10169       natural_gas                  1183                   1.014
## 10170       natural_gas                501572                   1.028
## 10171       natural_gas                 58167                   1.030
## 10173       natural_gas                  5696                   1.078
## 10174       natural_gas               1658521                   1.022
## 10175       natural_gas                 28560                   1.021
## 10176       natural_gas                162315                   1.030
## 10177              coal                 11829                  22.442
## 10178              coal                 96461                  17.754
## 10181       natural_gas                116191                   1.033
## 10182              coal                  8088                  26.134
## 10184       natural_gas                    35                   1.050
## 10185              coal                 10451                  23.750
## 10186              coal                117022                  22.780
## 10187              coal                  4288                  25.710
## 10189              coal                 11684                  14.520
## 10190              coal                 65586                  17.510
## 10192              coal                  1127                  26.470
## 10193         petroleum                 52664                   6.203
## 10194              coal                 59650                  23.910
## 10195         petroleum                  1200                   5.749
## 10196       natural_gas                  1951                   1.020
## 10197       natural_gas                 30124                   1.029
## 10198              coal                 15349                  17.874
## 10199       natural_gas                 36722                   1.000
## 10201       natural_gas                  4791                   1.008
## 10202              coal                167391                  16.280
```

```
## 10203   natural_gas      111203    1.019
## 10204          coal        4264   23.001
## 10205          coal        9190   24.910
## 10206          coal       16176   22.398
## 10207   natural_gas       23000    1.020
## 10208          coal      193447   19.585
## 10209   natural_gas        3190    1.010
## 10210   natural_gas        3846    1.040
## 10211   natural_gas      481503    1.024
## 10212   natural_gas      112070    1.061
## 10213   natural_gas         100    1.000
## 10214   natural_gas      198879    1.028
## 10215   natural_gas     1613611    1.030
## 10216          coal       60157   22.326
## 10218          coal      558893   17.320
## 10219   natural_gas           5    1.028
## 10221   natural_gas      240211    1.037
## 10222          coal       14688   16.460
## 10223   natural_gas        4232    1.220
## 10224   natural_gas       12700    1.011
## 10225          coal       90244   24.249
## 10226   natural_gas          10    1.020
## 10227   natural_gas      467231    1.040
## 10228          coal       28482   17.772
## 10229   natural_gas        8948    1.038
## 10230   natural_gas         456    1.034
## 10233          coal        2356   24.236
## 10234   natural_gas      162994    1.011
## 10235          coal        8949   22.080
## 10236   natural_gas       21758    1.006
## 10237   natural_gas       25116    1.037
## 10238   natural_gas         667    1.037
## 10239   natural_gas      242563    1.040
## 10240          coal       56223   17.420
## 10241   natural_gas        3227    1.041
## 10242          coal         117   17.600
## 10244          coal        9653   24.548
## 10245          coal      135805   17.522
## 10246     petroleum        1428    5.728
## 10247          coal        4775   23.710
## 10248   natural_gas      318806    1.028
## 10250          coal         115   25.026
## 10251   natural_gas        1501    1.074
## 10254     petroleum          18    5.850
## 10256   natural_gas     1399999    1.021
## 10257   natural_gas       11526    1.059
## 10258   natural_gas        5799    1.101
## 10259          coal       20133   22.850
## 10260     petroleum         232    5.860
## 10261   natural_gas     1138731    1.027
## 10262   natural_gas       63061    1.026
## 10263   natural_gas       26565    0.991
## 10264   natural_gas       23531    1.034
## 10265          coal        8058   24.650
```

```
## 10268       natural_gas            15093           1.091
## 10269       natural_gas              591           1.024
## 10270       natural_gas             2380           1.045
## 10271       natural_gas            87330           1.013
## 10273       natural_gas             3393           1.000
## 10274              coal              118          17.900
## 10276              coal           165278          17.730
## 10279       natural_gas          2141605           1.035
## 10280       natural_gas            36238           1.028
## 10281              coal            15457          25.796
## 10282       natural_gas           104369           1.030
## 10283       natural_gas            39383           1.029
## 10284              coal            76760          25.232
## 10285              coal            27010          22.240
## 10286       natural_gas           135101           1.000
## 10288              coal           131293          17.258
## 10289         petroleum           108217           6.445
## 10291       natural_gas          1604130           1.030
## 10293              coal            36849          23.390
## 10294    petroleum_coke           19997          28.692
## 10296              coal            68733          23.123
## 10298       natural_gas          1377290           1.020
## 10299       natural_gas             2548           0.996
## 10300              coal               63          24.380
## 10302       natural_gas              126           1.028
## 10303         petroleum              195           5.800
## 10304       natural_gas             2375           1.000
## 10305         petroleum              280           5.670
## 10308       natural_gas             3893           1.000
## 10309       natural_gas              194           1.030
## 10310              coal            11765          23.376
## 10311              coal            12332          17.660
## 10312         petroleum             8837           5.920
## 10313         petroleum               29           5.850
## 10314       natural_gas            33119           0.999
## 10315       natural_gas            25427           1.013
## 10316              coal             1930          24.536
## 10317              coal            28831          17.730
## 10318              coal            31000          17.700
## 10319       natural_gas           109310           1.030
## 10320       natural_gas          1047418           1.017
## 10322         petroleum               10           5.850
## 10323       natural_gas          3458228           1.034
## 10324              coal            28052          25.930
## 10325       natural_gas            16484           1.030
## 10326       natural_gas           235834           1.026
## 10327       natural_gas           286373           1.028
## 10328       natural_gas              373           1.000
## 10330       natural_gas            68299           1.020
## 10331       natural_gas           978089           1.017
## 10332              coal            35446          17.949
## 10333              coal            15100          17.926
## 10334       natural_gas           258268           1.028
## 10335              coal            12360          17.570
```

```
## 10337       natural_gas            1349531            1.037
## 10339       natural_gas             994545            1.030
## 10340              coal              23633           22.694
## 10341              coal              22478           24.552
## 10343       natural_gas                990            1.010
## 10344       natural_gas             205614            1.030
## 10345       natural_gas               1259            1.000
## 10346              coal              14616           17.396
## 10347              coal              15278           25.824
## 10348              coal              38261           25.296
## 10349              coal                557           24.000
## 10352       natural_gas             589843            1.012
## 10353       natural_gas             118833            1.030
## 10354       natural_gas               9611            1.030
## 10355       natural_gas              37231            1.014
## 10356              coal               9733           23.790
## 10358       natural_gas             414784            1.031
## 10359       natural_gas              31877            1.030
## 10360         petroleum               2441            5.900
## 10361              coal              28807           18.010
## 10362       natural_gas             388866            1.030
## 10363              coal             157146           17.892
## 10364              coal              12901           24.902
## 10365       natural_gas             463567            1.022
## 10366              coal              32586           17.700
## 10367              coal              24083           23.030
## 10368       natural_gas              18714            1.031
## 10370       natural_gas                877            1.000
## 10371              coal               4969           25.090
## 10373       natural_gas             167903            1.011
## 10375       natural_gas            1986370            1.035
## 10378       natural_gas             902771            1.030
## 10379              coal              16461           17.990
## 10382              coal              41310           18.780
## 10386       natural_gas                850            1.030
## 10387              coal             114609           17.784
## 10388              coal               9811           24.106
## 10389              coal              33458           16.660
## 10390       natural_gas              29979            1.011
## 10392         petroleum                296            5.800
## 10393       natural_gas                 24            1.017
## 10394              coal               4022           18.084
## 10395       natural_gas               6435            1.016
## 10396       natural_gas              94859            1.037
## 10397              coal              37909           12.680
## 10398              coal              16003           17.885
## 10400       natural_gas               1818            1.031
## 10401       natural_gas            4964884            1.019
## 10402       natural_gas                221            1.032
## 10404              coal              64316           21.130
## 10405              coal              22967           24.222
## 10406       natural_gas              54932            1.000
## 10407         petroleum               2152            5.800
## 10408       natural_gas             195767            1.039
```

```
## 10410           coal          603     26.090
## 10413           coal       130453     17.819
## 10416    natural_gas       306310      1.010
## 10417           coal         9602     24.680
## 10419    natural_gas       226460      1.020
## 10420           coal        49529     16.808
## 10421           coal        11672     26.160
## 10422           coal        10949     26.000
## 10423           coal          357     17.472
## 10425    natural_gas       478519      1.013
## 10426           coal       161195     17.150
## 10427    natural_gas       214543      1.032
## 10428           coal        64481     17.648
## 10429    natural_gas       123014      1.000
## 10430    natural_gas       263749      1.000
## 10431    natural_gas          318      1.021
## 10432           coal        50188     23.910
## 10433           coal       110927     22.706
## 10434    natural_gas        27400      1.030
## 10435           coal         4896     23.804
## 10436      petroleum            8      5.700
## 10439      petroleum         1832      5.880
## 10440    natural_gas         3330      1.013
## 10441    natural_gas      2079000      1.021
## 10442           coal       110077     18.134
## 10443      petroleum          545      5.796
## 10445           coal        51233     17.570
## 10448    natural_gas         4563      1.020
## 10450           coal        10525     24.254
## 10451           coal        28688     23.410
## 10453      petroleum         1616      5.800
## 10455    natural_gas       390000      1.026
## 10457    natural_gas          490      1.020
## 10458    natural_gas        12381      1.000
## 10459    natural_gas         3153      1.030
## 10463           coal        22819     24.438
## 10464           coal       377477     17.600
## 10466    natural_gas        12031      1.032
## 10467      petroleum        48566      5.000
## 10468    natural_gas       490337      1.002
## 10470    natural_gas      1745219      1.020
## 10471           coal         6160     22.600
## 10472           coal        17071     17.180
## 10473           coal        10764     24.850
## 10474    natural_gas        19593      1.016
## 10475    natural_gas        23942      1.055
## 10476    natural_gas       106671      1.000
## 10477    natural_gas       101030      1.023
## 10478      petroleum          889      5.900
## 10482           coal        44525     18.920
## 10483    natural_gas       265177      1.010
## 10484           coal         9253     25.560
## 10485    natural_gas         7013      1.248
## 10487    natural_gas       260092      1.030
```

```
## 10489    natural_gas      49762     1.021
## 10490      petroleum        866     5.800
## 10491    natural_gas       1924     1.058
## 10492    natural_gas      35570     1.006
## 10493           coal     348314    18.390
## 10495    natural_gas      87000     1.009
## 10496    natural_gas      39625     1.020
## 10497    natural_gas       4027     1.050
## 10498    natural_gas          1     1.000
## 10499           coal      55765    23.300
## 10500    natural_gas     374734     1.011
## 10502           coal      13557    25.658
## 10503           coal       1010    27.000
## 10504           coal       5040    21.830
## 10505           coal      96870    17.277
## 10506    natural_gas       7040     1.020
## 10507    natural_gas      24283     1.220
## 10508    natural_gas      45744     1.034
## 10509           coal       1630    26.000
## 10510           coal     102542    17.739
## 10511    natural_gas       4179     1.016
## 10514    natural_gas      61564     0.977
## 10515           coal       9486    16.794
## 10516           coal      46051    24.680
## 10517    natural_gas     153152     1.020
## 10518    natural_gas      80571     1.031
## 10519           coal     230796    22.320
## 10520    natural_gas      18000     1.020
## 10521    natural_gas     209661     1.016
## 10522    natural_gas     251398     1.070
## 10523      petroleum        376     5.880
## 10526    natural_gas         62     1.077
## 10527           coal      22014    22.370
## 10528      petroleum       2139     5.780
## 10530    natural_gas       5560     1.009
## 10532    natural_gas      73603     1.027
## 10533    natural_gas       4528     1.030
## 10534           coal      16567    23.108
## 10537    natural_gas     280273     1.030
## 10538    natural_gas     757272     1.014
## 10539    natural_gas       5745     1.000
## 10540           coal      25068    25.012
## 10541    natural_gas      10415     1.000
## 10542    natural_gas        319     1.030
## 10543    natural_gas      90729     1.023
## 10544           coal       7809    21.620
## 10545    natural_gas     554708     1.046
## 10546           coal     102606    23.380
## 10547    natural_gas      13312     1.000
## 10548           coal       4070    20.279
## 10549           coal     280950    10.900
## 10551    natural_gas      21821     1.034
## 10552           coal      47064    24.090
## 10553      petroleum         24     5.858
```

```
## 10555    natural_gas        220         1.000
## 10556    natural_gas     182300         1.015
## 10557           coal      28810        22.720
## 10558    natural_gas      94745         1.041
## 10560      petroleum        258         5.800
## 10561           coal     170997        17.240
## 10562    natural_gas     420866         1.005
## 10563    natural_gas          7         1.008
## 10564    natural_gas        375         1.230
## 10565           coal        127        14.000
## 10566           coal      43717        17.110
## 10568           coal      12864        26.736
## 10569           coal       3540        23.580
## 10570    natural_gas     233996         1.058
## 10573    natural_gas     184471         1.030
## 10574           coal       9426        25.110
## 10575    natural_gas       9839         1.017
## 10577    natural_gas      22518         1.020
## 10579           coal      60072        25.900
## 10580           coal       1246        24.156
## 10581    natural_gas        185         1.036
## 10582    natural_gas     962638         1.017
## 10583           coal      14006        29.000
## 10585           coal      12854        23.340
## 10586           coal      40193        24.640
## 10587    natural_gas        615         1.020
## 10588           coal        168        17.610
## 10589           coal      30966        17.858
## 10590    natural_gas      13656         1.074
## 10591    natural_gas     811803         1.041
## 10594           coal     187266        22.520
## 10595    natural_gas    1781207         1.024
## 10596    natural_gas       3657         1.030
## 10600    natural_gas     255478         1.036
## 10601           coal      12088        25.044
## 10603    natural_gas       5230         1.100
## 10604    natural_gas     180224         1.048
## 10605    natural_gas      45952         1.036
## 10607           coal     171392        17.500
## 10610      petroleum       4137         6.160
## 10611    natural_gas        817         0.995
## 10612      petroleum       1090         5.670
## 10613    natural_gas    1882410         1.029
## 10614    natural_gas     261558         1.091
## 10615    natural_gas      27533         1.093
## 10616    natural_gas      10400         1.055
## 10618    natural_gas     803044         1.038
## 10619           coal      55950        17.951
## 10620    natural_gas     149094         1.030
## 10621    natural_gas       1575         1.020
## 10622           coal      32305        17.817
## 10624    natural_gas        301         1.030
## 10625    natural_gas      34486         1.040
## 10630    natural_gas       1504         1.000
```

```
## 10631      natural_gas       142760       1.030
## 10632             coal        44155      17.766
## 10633      natural_gas        88975       1.034
## 10634             coal        12385      24.560
## 10635      natural_gas         1066       1.032
## 10637             coal          264      25.290
## 10638      natural_gas        17634       1.000
## 10639             coal        18489      23.270
## 10641      natural_gas      1635205       1.028
## 10644        petroleum          237       6.200
## 10645      natural_gas        77967       1.025
## 10646      natural_gas       283901       1.028
## 10647      natural_gas       247603       1.027
## 10648      natural_gas        23820       1.000
## 10649      natural_gas       253259       1.020
## 10650             coal        30887      23.634
## 10651             coal        12053      23.400
## 10652      natural_gas         1522       1.020
## 10653      natural_gas        14704       1.020
## 10654      natural_gas      1540680       1.019
## 10655        petroleum         1232       5.760
## 10656      natural_gas          979       1.000
## 10657      natural_gas       266346       1.015
## 10659      natural_gas        23729       1.005
## 10660             coal        17982      17.300
## 10661             coal         5663      23.686
## 10662             coal        13905      17.924
## 10663      natural_gas       443702       1.048
## 10664      natural_gas         2205       1.029
## 10665             coal        32935      17.780
## 10666      natural_gas          508       1.021
## 10669             coal        47930      16.190
## 10670   petroleum_coke         6305      28.170
## 10671             coal        26788      24.211
## 10672      natural_gas          119       1.000
## 10673             coal        24106      24.590
## 10674      natural_gas          894       1.030
## 10676      natural_gas        36320       1.000
## 10677      natural_gas       289750       1.027
## 10678             coal        74983      18.570
## 10679        petroleum          701       5.770
## 10680   petroleum_coke        61402      29.410
## 10681      natural_gas       300029       1.020
## 10682             coal         3168      23.640
## 10683      natural_gas      7893160       1.029
## 10685      natural_gas          266       1.083
## 10686        petroleum         2669       5.900
## 10687             coal        69470      17.530
## 10688      natural_gas       106669       1.029
## 10689             coal        40417      26.237
## 10690      natural_gas       385838       1.000
## 10691      natural_gas        29035       1.030
## 10692      natural_gas        77486       1.031
## 10693             coal        48885      17.950
```

```
## 10694   petroleum      227    5.796
## 10696        coal   107522   22.350
## 10697        coal   149652   22.840
## 10698 natural_gas   226381    1.050
## 10700 natural_gas    87450    1.029
## 10701   petroleum      850    5.700
## 10702 natural_gas     4845    1.000
## 10704 natural_gas   152330    1.040
## 10706   petroleum      179    5.820
## 10707        coal    22833   19.240
## 10709        coal     7843   25.490
## 10710        coal    14186   23.270
## 10711 natural_gas    22390    1.027
## 10712 natural_gas    32068    1.027
## 10714 natural_gas   941365    1.030
## 10715 natural_gas   529800    1.031
## 10716 natural_gas    38324    1.007
## 10717 natural_gas     4933    1.100
## 10718 natural_gas    25756    1.054
## 10719        coal     2400   24.738
## 10721        coal    46787   24.824
## 10723 natural_gas   648136    1.026
## 10724        coal   362158   16.540
## 10725        coal    13864   17.732
## 10726 natural_gas    50276    1.028
## 10727 natural_gas        3    1.010
## 10728 natural_gas   121974    1.030
## 10729        coal    24938   22.957
## 10730 natural_gas    46464    1.013
## 10732 natural_gas     3797    1.020
## 10733 natural_gas  5600564    1.022
## 10734        coal    27055   24.920
## 10735 natural_gas       13    1.000
## 10736        coal     2551   24.930
## 10737 natural_gas       60    1.017
## 10739 natural_gas  1868250    1.044
## 10744 natural_gas     3871    1.000
## 10745 natural_gas   432722    1.026
## 10746   petroleum      572    5.834
## 10747 natural_gas    96382    1.022
## 10748        coal     5075   24.008
## 10749 natural_gas    48000    1.002
## 10750        coal     7212   25.880
## 10751 natural_gas    11014    1.036
## 10752        coal      623   26.706
## 10753   petroleum      961    5.900
## 10754        coal   110349   18.000
## 10757 natural_gas     8304    1.060
## 10758 natural_gas   193369    1.012
## 10759        coal     7390   24.416
## 10760        coal     6259   21.108
## 10761   petroleum      179    5.600
## 10764 natural_gas   342202    1.008
## 10765        coal    29242   17.744
```

```
## 10767         petroleum          5468          6.280
## 10768       natural_gas         78549          1.030
## 10769       natural_gas         59709          1.030
## 10770       natural_gas         11716          1.103
## 10771       natural_gas       1470188          1.010
## 10772       natural_gas         55293          1.020
## 10773              coal         15204         17.700
## 10774              coal        246754         17.590
## 10776              coal         28231         17.000
## 10777       natural_gas       2523157          1.018
## 10778       natural_gas        572605          1.035
## 10782              coal         17210         17.460
## 10783         petroleum           143          6.470
## 10784       natural_gas       1739492          1.017
## 10785       natural_gas         62292          1.020
## 10786       natural_gas        431987          1.030
## 10787              coal         62215         24.010
## 10788       natural_gas       2450370          1.031
## 10790       natural_gas        199001          1.029
## 10791         petroleum           756          3.802
## 10792              coal         93331         23.400
## 10793              coal         22630         24.380
## 10795       natural_gas       2420954          1.069
## 10797       natural_gas       2163341          1.033
## 10798              coal          3900         24.140
## 10799              coal         14585         17.066
## 10800              coal          1200         24.058
## 10801       natural_gas         90144          1.032
## 10802              coal          3951         22.192
## 10803       natural_gas         45000          1.011
## 10804       natural_gas           416          1.032
## 10805         petroleum            26          6.200
## 10806       natural_gas        233602          1.044
## 10807              coal          2019         20.810
## 10809         petroleum         69925          6.329
## 10811              coal          4424         25.490
## 10813              coal        553855         17.600
## 10814       natural_gas          2975          1.078
## 10815              coal          1243         24.908
## 10816         petroleum           526          5.820
## 10817       natural_gas         25097          1.000
## 10818              coal         65794         18.020
## 10819              coal         30086         16.753
## 10820       natural_gas       1696183          1.036
## 10821              coal         18352         25.276
## 10823       natural_gas        128982          1.055
## 10824       natural_gas         28515          1.018
## 10825       natural_gas       1935430          1.034
## 10826         petroleum           592          5.750
## 10827       natural_gas         59706          1.032
## 10828         petroleum          2596          5.800
## 10829         petroleum           709          5.817
## 10831              coal          5007         16.500
## 10833       natural_gas        765225          1.031
```

```
## 10835        natural_gas              17812            1.033
## 10836        natural_gas             538103            1.055
## 10837        natural_gas               5191            1.028
## 10838        natural_gas                526            1.092
## 10839        natural_gas             142371            1.026
## 10840               coal              21090           24.790
## 10842               coal              26808           28.760
## 10843          petroleum                544            5.800
## 10844               coal             149570           19.442
## 10845        natural_gas             250764            1.024
## 10846        natural_gas              93385            1.028
## 10847               coal              22378           24.140
## 10848          petroleum              36825            5.720
## 10850               coal             283504           17.820
## 10851        natural_gas            1371525            1.025
## 10852               coal              15212           17.686
## 10853               coal              39309           23.940
## 10854        natural_gas             289594            1.010
## 10855        natural_gas              55296            1.030
## 10857               coal              15895           17.584
## 10858               coal              15870           23.776
## 10859               coal              63593           17.576
## 10860               coal              74000           25.380
## 10861               coal             176226           17.410
## 10862               coal              34456           24.931
## 10864        natural_gas            1147073            1.048
## 10865        natural_gas            1085330            1.012
## 10867               coal              84813           22.978
## 10868               coal              49555           22.390
## 10869        natural_gas             994968            1.028
## 10870        natural_gas                  1            1.032
## 10872        natural_gas                 54            1.030
## 10875               coal               1237           25.240
## 10876        natural_gas              21185            1.100
## 10877        natural_gas            4996785            1.046
## 10878               coal                423           23.064
## 10879        natural_gas            1146908            1.018
## 10881        natural_gas             349911            1.048
## 10884        natural_gas                171            1.024
## 10885        natural_gas               8900            1.040
## 10886               coal              47974           23.100
## 10887        natural_gas             410255            0.986
## 10888               coal               4044           20.820
## 10889               coal              34757           24.130
## 10890        natural_gas              71000            1.020
## 10891               coal               4692           25.918
## 10892               coal                361           23.160
## 10893        natural_gas             375122            1.025
## 10895        natural_gas              73703            1.100
## 10896        natural_gas             133037            1.030
## 10897        natural_gas              19967            1.020
## 10898               coal              50184           26.372
## 10899          petroleum                 11            5.800
## 10900        natural_gas             748767            1.086
```

```
## 10902       natural_gas              563              1.023
## 10904       natural_gas             3991              1.023
## 10905              coal            15466             17.900
## 10906       natural_gas            41183              1.000
## 10907       natural_gas           585753              1.026
## 10908       natural_gas           657576              1.090
## 10909       natural_gas             4609              1.020
## 10910       natural_gas           747851              1.000
## 10911       natural_gas             1424              1.016
## 10912       natural_gas           239227              1.035
## 10913       natural_gas          4022334              1.019
## 10914              coal             8105             23.920
## 10916              coal            15319             17.460
## 10917       natural_gas            84465              1.000
## 10918              coal             9557             25.888
## 10919       natural_gas          1459377              1.020
## 10920              coal            62817             23.219
## 10921       natural_gas               29              1.056
## 10922              coal             2063             24.334
## 10925         petroleum             4230              5.920
## 10927              coal            15895             17.480
## 10928       natural_gas           134333              1.002
## 10929       natural_gas           776520              1.022
## 10930       natural_gas           377262              1.030
## 10932       natural_gas            16808              1.010
## 10933              coal           164312             17.160
## 10934       natural_gas               48              1.018
## 10935       natural_gas           156344              1.015
## 10936         petroleum           404989              6.387
## 10938       natural_gas           116997              1.007
## 10939         petroleum             1232              5.817
## 10940         petroleum             3531              5.825
## 10942       natural_gas               95              1.012
## 10943              coal           783073             17.490
## 10944       natural_gas               25              1.028
## 10945       natural_gas           241382              1.000
## 10946       natural_gas             5319              1.020
## 10947       natural_gas             3334              1.091
## 10948       natural_gas          4524716              1.012
## 10949       natural_gas              872              1.022
## 10950       natural_gas             1231              1.030
## 10951         petroleum             1310              5.920
## 10953         petroleum              178              5.770
## 10954              coal            14764             16.560
## 10955       natural_gas             4859              1.029
## 10956       natural_gas          1247309              1.032
## 10957         petroleum             3190              5.880
## 10958       natural_gas           140580              1.028
## 10959       natural_gas           341748              1.066
## 10963       natural_gas             4670              1.000
## 10964       natural_gas              447              1.034
## 10965              coal           464760             16.865
## 10966       natural_gas          3776715              1.025
## 10967       natural_gas          4886902              1.030
```

```
## 10968       natural_gas          4941        1.012
## 10969              coal         49674       17.712
## 10970              coal         11100       25.020
## 10971              coal         14373       16.822
## 10972       natural_gas        448473        1.010
## 10975         petroleum          1065        5.712
## 10976       natural_gas        456260        1.031
## 10978              coal         14963       22.339
## 10979       natural_gas      10709107        1.027
## 10980       natural_gas           657        1.005
## 10982              coal         27694       16.736
## 10983              coal         17745       17.784
## 10984       natural_gas          2987        1.010
## 10986              coal        288983       17.384
## 10987              coal         17099       17.380
## 10988              coal          6195       22.640
## 10989       natural_gas          5960        1.020
## 10990       natural_gas        156787        1.102
## 10993       natural_gas        813463        1.015
## 10994       natural_gas          5665        1.014
## 10995       natural_gas          1962        1.020
## 10996       natural_gas         29126        1.030
## 10999         petroleum          3348        5.600
## 11000              coal         15411       16.598
## 11001       natural_gas        311692        1.028
## 11002              coal         12748       23.910
## 11004       natural_gas          1910        1.027
## 11006       natural_gas          5361        1.028
## 11007       natural_gas           217        1.036
## 11008       natural_gas        100285        1.030
## 11009              coal         12835       26.118
## 11010       natural_gas          5873        1.000
## 11011       natural_gas          1874        1.059
## 11012              coal         27315       25.940
## 11013         petroleum           177        5.820
## 11015              coal          4480       23.020
## 11017       natural_gas         31399        1.051
## 11018       natural_gas        203031        1.015
## 11019       natural_gas          9608        1.030
## 11020         petroleum            42        5.880
## 11021         petroleum           803        5.820
## 11022              coal         13010       25.020
## 11024       natural_gas        230012        1.000
## 11028       natural_gas         23774        1.015
## 11029       natural_gas         18442        1.086
## 11030       natural_gas           556        1.017
## 11032         petroleum          2462        5.880
## 11033       natural_gas        376676        1.019
## 11034       natural_gas         20664        1.234
## 11035              coal         16244       16.710
## 11036              coal          2228       26.000
## 11038              coal        334902       16.540
## 11039         petroleum           214        5.770
## 11040       natural_gas         25081        1.030
```

```
## 11041       natural_gas            9500           1.053
## 11043              coal           11770          25.350
## 11045         petroleum              11           5.800
## 11046              coal            3496          24.760
## 11048       natural_gas           67341           1.025
## 11050       natural_gas           12000           1.005
## 11051              coal            3949          21.750
## 11052              coal           31987          22.050
## 11053       natural_gas              17           1.000
## 11055              coal          194179          13.000
## 11056       natural_gas            1695           1.024
## 11057       natural_gas            4873           1.100
## 11058       natural_gas           16733           1.029
## 11059       natural_gas          168615           1.112
## 11060       natural_gas          106879           0.990
## 11062              coal            9573          25.060
## 11063              coal           67751          22.285
## 11064       natural_gas           57071           1.041
## 11066         petroleum             886           5.810
## 11067              coal            1211          14.470
## 11068       natural_gas            1593           1.036
## 11070              coal           33505          24.874
## 11071       natural_gas         1419241           1.033
## 11072       natural_gas              85           1.024
## 11073       natural_gas           31826           1.000
## 11074         petroleum              52           5.800
## 11076       natural_gas               1           1.000
## 11077       natural_gas          484361           1.013
## 11078              coal          114444          17.200
## 11079       natural_gas          128267           1.016
## 11080       natural_gas          150125           1.028
## 11081       natural_gas            1867           1.030
## 11083       natural_gas          376209           1.017
## 11084         petroleum             159           5.796
## 11085       natural_gas           99629           1.030
## 11087       natural_gas          157530           1.029
## 11089              coal           55076          17.660
## 11091              coal           43403          24.100
## 11092       natural_gas              22           1.020
## 11093       natural_gas           14532           1.032
## 11094       natural_gas         3413269           1.028
## 11095       natural_gas           68315           1.028
## 11096       natural_gas          155575           1.040
## 11097       natural_gas             198           1.000
## 11098         petroleum             284           5.800
## 11099       natural_gas           41740           1.021
## 11100              coal            9000          25.564
## 11101       natural_gas           31348           1.018
## 11103              coal           69396          25.840
## 11104              coal          178910          25.996
## 11105       natural_gas         4478641           1.028
## 11107         petroleum           50000           6.308
## 11108              coal           28678          10.356
## 11111       natural_gas         2364199           1.040
```

```
## 11113     natural_gas          15984            1.064
## 11114            coal          73971           24.774
## 11115            coal          16116           17.800
## 11117     natural_gas         410422            1.039
## 11119     natural_gas          12528            1.028
## 11120     natural_gas            368            1.025
## 11121     natural_gas         678248            1.038
## 11122     natural_gas          22934            1.020
## 11123            coal          45691           21.690
## 11124     natural_gas            255            1.000
## 11125            coal         134130           21.150
## 11128     natural_gas         495807            1.030
## 11129     natural_gas           3267            1.039
## 11130       petroleum           4979            5.750
## 11131            coal          31366           26.500
## 11132     natural_gas          37922            1.000
## 11133       petroleum            358            5.825
## 11134            coal           9030           22.482
## 11135            coal          10733           21.230
## 11136     natural_gas           8583            1.037
## 11137            coal          58884           23.188
## 11138            coal          24089           24.135
## 11140            coal           8043           22.030
## 11141       petroleum            935            5.880
## 11144     natural_gas           1004            1.050
## 11145       petroleum          17407            5.880
## 11146     natural_gas          78779            1.004
## 11147            coal          43517           25.086
## 11148            coal          10677           22.838
## 11149            coal            515           25.080
## 11150     natural_gas            410            1.030
## 11151            coal          87018           16.438
## 11153            coal          19826           22.947
## 11154     natural_gas          56311            1.030
## 11155     natural_gas            787            1.020
## 11156     natural_gas            745            1.000
## 11157       petroleum          17587            5.720
## 11158  petroleum_coke          16710           26.832
## 11159     natural_gas          82456            1.052
## 11160            coal         102175           24.128
## 11161            coal         146985           17.850
## 11162            coal          65835           16.410
## 11163     natural_gas           4067            1.020
## 11166     natural_gas          97593            1.023
## 11167            coal          30526           17.190
## 11169            coal         469827           25.300
## 11171            coal           1616           22.732
## 11172       petroleum              5            5.607
## 11173     natural_gas           1189            1.100
## 11175     natural_gas          18713            1.018
## 11176            coal          31166           23.122
## 11177     natural_gas          71612            1.000
## 11178     natural_gas        2171470            1.056
## 11181       petroleum           1100            5.845
```

```
## 11182      natural_gas        15376     1.100
## 11183      natural_gas       201876     1.030
## 11184             coal        27008    26.900
## 11185             coal        96702    17.403
## 11186             coal         2526    22.430
## 11188      natural_gas        14302     1.000
## 11189             coal        98123    17.650
## 11190             coal         6817    26.000
## 11191      natural_gas        16251     0.984
## 11192             coal        15079    17.214
## 11195        petroleum          354     5.754
## 11196             coal       171243    18.450
## 11197             coal        11651    25.404
## 11198             coal        32135    16.620
## 11200             coal       257427    10.660
## 11201      natural_gas        22939     1.101
## 11202             coal        52714    24.800
## 11204             coal        73061    16.990
## 11206      natural_gas      2523237     1.027
## 11207             coal         1630    23.620
## 11208      natural_gas       842733     1.030
## 11211             coal        16411    22.254
## 11212      natural_gas        14507     1.034
## 11213             coal        23841    23.383
## 11214      natural_gas         1463     1.000
## 11215      natural_gas       281861     1.010
## 11216        petroleum         1029     6.525
## 11217             coal        45171    22.700
## 11218        petroleum           14     5.880
## 11219      natural_gas       808168     1.063
## 11220      natural_gas       335987     1.040
## 11221      natural_gas         8411     1.040
## 11222      natural_gas        69930     1.026
## 11223      natural_gas          220     1.023
## 11225             coal        14069    17.780
## 11226        petroleum          108     5.670
## 11227      natural_gas      3112947     1.051
## 11228             coal           24    27.764
## 11229             coal        54916    26.100
## 11230      natural_gas       867350     1.008
## 11231             coal        10212    25.868
## 11233      natural_gas       112214     1.030
## 11235             coal        16155    17.768
## 11237             coal        35418    22.000
## 11238             coal        22163    23.830
## 11239  petroleum_coke        18187    28.270
## 11241      natural_gas       283556     1.040
## 11244      natural_gas        24724     1.230
## 11245             coal        15899    17.508
## 11246             coal        48241    25.870
## 11247  petroleum_coke        27598    28.693
## 11248      natural_gas        30693     1.010
## 11249             coal        61506    17.632
## 11250      natural_gas         2586     1.027
```

```
## 11251        coal       3747   24.746
## 11252        coal        283   24.600
## 11253 natural_gas     256210    1.028
## 11254 natural_gas     339404    1.028
## 11257 natural_gas       6097    1.066
## 11259 natural_gas      54970    1.029
## 11260   petroleum         14    5.881
## 11261        coal      11229   25.000
## 11262 natural_gas      54239    1.026
## 11263 natural_gas        582    1.020
## 11265 natural_gas      12790    1.000
## 11267 natural_gas        763    1.028
## 11269 natural_gas      36246    1.100
## 11270 natural_gas     713640    1.050
## 11271 natural_gas      44013    1.032
## 11272   petroleum       9021    5.780
## 11273 natural_gas      21414    1.000
## 11274 natural_gas       2932    1.014
## 11275        coal     242720   17.162
## 11276 natural_gas        271    1.027
## 11278   petroleum        892    5.964
## 11279   petroleum      38394    5.720
## 11282        coal       6298   16.750
## 11283   petroleum        201    6.390
## 11284 natural_gas     162841    1.061
## 11285 natural_gas    1862800    1.015
## 11286        coal      16132   18.106
## 11288 natural_gas       5852    1.030
## 11289 natural_gas      15409    1.017
## 11290        coal     203816   18.340
## 11292        coal      26245   25.990
## 11293        coal      35852   25.870
## 11295 natural_gas     385316    1.048
## 11298        coal       2076   24.822
## 11299        coal      25117   25.344
## 11300        coal      11569   24.770
## 11301   petroleum        710    5.820
## 11302 natural_gas    1255388    1.032
## 11304 natural_gas    2498055    1.030
## 11305        coal      12887   23.030
## 11306 natural_gas        126    1.000
## 11307 natural_gas      68666    1.026
## 11308 natural_gas         64    1.030
## 11309 natural_gas       2374    1.063
## 11310        coal      20768   21.126
## 11311 natural_gas    1697080    1.038
## 11315 natural_gas        422    1.009
## 11316 natural_gas     600000    1.005
## 11317 natural_gas     168335    1.032
## 11319 natural_gas         32    1.030
## 11321   petroleum        365    5.750
## 11322 natural_gas    2862254    1.020
## 11324        coal      14639   21.500
## 11325 natural_gas      34359    1.016
```

```
## 11326      natural_gas          81304           1.018
## 11327      natural_gas           3592           1.000
## 11328      natural_gas              2           1.023
## 11329      natural_gas            899           1.000
## 11331             coal          31163          24.980
## 11332             coal          63576          24.398
## 11333             coal          19921          25.700
## 11336      natural_gas        1294103           1.030
## 11337      natural_gas             37           1.027
## 11338      natural_gas         130983           1.027
## 11339      natural_gas            690           1.045
## 11341      natural_gas            376           1.023
## 11344             coal          29996          23.950
## 11346      natural_gas            806           1.032
## 11348      natural_gas          10421           1.000
## 11350             coal         232000          18.700
## 11352      natural_gas           9737           1.078
## 11353             coal          32775          23.092
## 11354      natural_gas        3182627           1.040
## 11356      natural_gas          57546           1.020
## 11357             coal           7729          25.630
## 11358      natural_gas         168011           1.000
## 11359             coal          23840          22.770
## 11360             coal          24450          26.800
## 11361      natural_gas        1403096           1.050
## 11362      natural_gas           2060           1.220
## 11364             coal          17946          20.900
## 11365             coal          23223          24.320
## 11366             coal           1376          22.800
## 11368        petroleum             19           5.800
## 11370      natural_gas           2173           1.030
## 11371      natural_gas            518           1.000
## 11372             coal          15267          17.930
## 11373             coal          23443          23.166
## 11375      natural_gas         112092           1.020
## 11376             coal           5253          23.142
## 11377      natural_gas         214424           1.015
## 11378             coal          43443          17.000
## 11379      natural_gas         709045           1.068
## 11380             coal          16546          17.050
## 11381             coal            545          17.670
## 11382             coal         232210          22.252
## 11383             coal           2071          16.994
## 11384      natural_gas        2957970           1.030
## 11385      natural_gas        2867158           1.033
## 11386      natural_gas         117896           1.017
## 11388        petroleum             89           5.880
## 11389      natural_gas          24857           1.032
## 11391      natural_gas           5647           1.000
## 11392        petroleum            188           5.880
## 11395             coal          26031          22.250
## 11396      natural_gas         370442           1.034
## 11397      natural_gas         305625           1.014
## 11398      natural_gas         101620           1.000
```

```
## 11399      natural_gas        48669      1.100
## 11400      natural_gas         3744      1.029
## 11401      natural_gas       512776      1.053
## 11402             coal        16106     16.810
## 11403      natural_gas        41823      1.021
## 11404      natural_gas       730349      1.025
## 11407      natural_gas         9466      1.020
## 11408      natural_gas      1301188      1.034
## 11411             coal        22052     23.387
## 11413        petroleum          851      5.298
## 11414        petroleum          686      5.670
## 11415             coal        14192     25.180
## 11416             coal        20676     23.750
## 11418   petroleum_coke         5566     28.820
## 11422      natural_gas      1000000      1.015
## 11423             coal        29271     22.630
## 11424      natural_gas        15512      1.066
## 11425      natural_gas           14      1.000
## 11426      natural_gas       221311      1.037
## 11428      natural_gas        67790      1.015
## 11429             coal          582     29.000
## 11430        petroleum          180      5.822
## 11431             coal        12511     24.670
## 11432      natural_gas       118587      1.033
## 11434             coal        17198     23.480
## 11435        petroleum         1023      5.762
## 11436             coal        12584     24.781
## 11437      natural_gas        40326      1.033
## 11438      natural_gas         1641      1.050
## 11439      natural_gas      2447710      1.030
## 11441      natural_gas         3985      1.032
## 11442             coal        21060     22.190
## 11443             coal        29077     16.114
## 11444      natural_gas        40992      1.040
## 11447      natural_gas         1743      1.056
## 11448             coal       253268     10.470
## 11449      natural_gas         5654      1.000
## 11450        petroleum         1608      5.700
## 11451      natural_gas        13220      1.000
## 11452             coal       107265     22.793
## 11453             coal         1583     16.430
## 11454      natural_gas           37      1.000
## 11455             coal        55615     16.860
## 11461             coal        19745     22.160
## 11462             coal       609680     17.600
## 11463      natural_gas       174381      1.006
## 11464      natural_gas        19509      1.020
## 11465             coal        32306     26.150
## 11466             coal        41126     25.730
## 11467             coal        56133     15.940
## 11468      natural_gas          137      1.000
## 11469             coal       111624     17.600
## 11471      natural_gas           97      1.000
## 11472      natural_gas      2848307      1.028
```

```
## 11474         coal     1600    22.768
## 11476  natural_gas  2243395     1.026
## 11477  natural_gas    76263     1.020
## 11478         coal    14715    17.572
## 11479  natural_gas    46429     1.020
## 11480  natural_gas    49243     1.026
## 11481  natural_gas    67403     1.170
## 11482  natural_gas     8562     1.140
## 11484  natural_gas   576796     1.060
## 11486         coal    66117    25.340
## 11487         coal    30027    17.810
## 11491    petroleum     1437     5.880
## 11493  natural_gas    40485     1.028
## 11494  natural_gas    65418     1.034
## 11495  natural_gas     3994     1.010
## 11496  natural_gas   121696     1.014
## 11497  natural_gas       16     1.008
## 11499  natural_gas    21539     1.065
## 11500         coal    10443    25.900
## 11501  natural_gas    18938     1.000
## 11502  natural_gas    53771     1.025
## 11503  natural_gas        6     1.020
## 11504  natural_gas    12559     1.010
## 11506  natural_gas      449     1.000
## 11507  natural_gas       97     1.020
## 11509  natural_gas   662937     1.037
## 11510    petroleum     1549     5.825
## 11511  natural_gas  2208813     1.018
## 11512         coal     1638    18.012
## 11515  natural_gas   363811     1.017
## 11517  natural_gas   300447     1.030
## 11518  natural_gas   119368     0.900
## 11519         coal      235    24.790
## 11520         coal    12673    21.734
## 11521  natural_gas  1508201     1.030
## 11522    petroleum      301     5.800
## 11523         coal      755    12.000
## 11524  natural_gas   103635     1.018
## 11525         coal     5822    22.300
## 11526  natural_gas    44829     1.036
## 11527         coal   141015    23.174
## 11528  natural_gas   997770     1.053
## 11529         coal     2623    23.880
## 11530  natural_gas    46386     1.048
## 11531         coal    19000    25.556
## 11532  natural_gas   275284     1.036
## 11533    petroleum      245     5.850
## 11534    petroleum     3213     5.624
## 11537         coal    29101    17.588
## 11538    petroleum      180     5.880
## 11539  natural_gas    82179     1.104
## 11540  natural_gas     1520     1.020
## 11542         coal   244325    17.180
## 11543  natural_gas      560     1.121
```

```
## 11544        petroleum          885           5.670
## 11545      natural_gas       137038           1.003
## 11546      natural_gas        13052           1.000
## 11548        petroleum          717           5.785
## 11549             coal          200          25.630
## 11550             coal        11589          23.254
## 11551      natural_gas       169607           1.030
## 11552             coal        15135          16.336
## 11553        petroleum          514           5.815
## 11554      natural_gas       419859           1.032
## 11555             coal        12940          25.400
## 11556             coal          649          29.000
## 11557      natural_gas        25892           1.031
## 11559             coal        47592          17.887
## 11560      natural_gas      2901215           1.029
## 11561      natural_gas        50553           1.020
## 11562      natural_gas          200           1.000
## 11564             coal        23092          17.735
## 11565      natural_gas         4226           1.083
## 11566             coal         8250          25.493
## 11567             coal          121          17.800
## 11568             coal         1531          25.070
## 11570      natural_gas      1861856           1.026
## 11571      natural_gas       292832           1.034
## 11572      natural_gas       854656           1.028
## 11573      natural_gas        10146           1.034
## 11574        petroleum         3804           6.457
## 11575      natural_gas         4936           1.050
## 11579             coal        19227          23.060
## 11582      natural_gas        37541           1.018
## 11585             coal        29389          23.565
## 11586      natural_gas          428           1.000
## 11587             coal       300915          16.830
## 11588             coal        73073          16.990
## 11589      natural_gas           12           1.003
## 11591             coal        39583          25.184
## 11592      natural_gas         4387           1.046
## 11594             coal         3312          17.750
## 11595             coal        18719          17.600
## 11596      natural_gas       481280           1.010
## 11597      natural_gas        65990           1.013
## 11599             coal        68619          23.982
## 11600        petroleum          360           5.754
## 11603             coal        31499          17.520
## 11604      natural_gas         2800           1.000
## 11605      natural_gas         9747           1.026
## 11606      natural_gas         7219           1.020
## 11607      natural_gas        13959           1.020
## 11609      natural_gas       125894           1.010
## 11610      natural_gas       257516           1.053
## 11611             coal        16409          17.860
## 11612      natural_gas         9879           1.010
## 11613      natural_gas       811250           1.022
## 11615             coal        17568          22.722
```

```
## 11617        coal        1639     23.650
## 11618  natural_gas       24374      1.000
## 11622        coal      577900     19.744
## 11623   petroleum         166      5.762
## 11625        coal       65480     26.150
## 11626        coal      125700     21.090
## 11627  natural_gas      292176      1.027
## 11628  natural_gas       52267      1.024
## 11629        coal       15419     17.800
## 11630        coal      102549     17.728
## 11631  natural_gas         716      1.000
## 11632  natural_gas     1285650      1.026
## 11633  natural_gas       28577      1.030
## 11634  natural_gas     1493688      0.994
## 11635        coal       21450     22.158
## 11636  natural_gas        8612      1.030
## 11637  natural_gas      575644      1.034
## 11639        coal       28923     17.663
## 11640  natural_gas      422925      1.020
## 11641        coal      142343     16.910
## 11642   petroleum         130      5.800
## 11643        coal       36079     23.862
## 11645  natural_gas       12942      1.006
## 11646  natural_gas     2545897      1.060
## 11647        coal       14891     16.640
## 11648  natural_gas         299      1.030
## 11650        coal       50268     18.626
## 11652   petroleum          31      5.700
## 11653        coal       13872     25.858
## 11655  natural_gas       35400      1.025
## 11657        coal        3482     23.470
## 11658        coal      152226     16.886
## 11659  natural_gas      401068      1.030
## 11660   petroleum        1415      5.700
## 11661  natural_gas         628      1.016
## 11663  natural_gas          72      1.020
## 11664  natural_gas      709519      1.050
## 11666        coal       10873     23.130
## 11668  natural_gas         307      1.020
## 11670  natural_gas      144433      1.030
## 11671  natural_gas        1020      1.038
## 11673  natural_gas     1352671      1.059
## 11674        coal       14874     17.930
## 11676        coal        3563     22.620
## 11677        coal       80484     17.366
## 11678  natural_gas        1695      1.237
## 11680        coal       30223     17.414
## 11681        coal      219377     25.008
## 11682  natural_gas       75050      1.020
## 11683  natural_gas          28      1.023
## 11684        coal      258754     17.536
## 11687        coal        3081     24.530
## 11688   petroleum         227      5.800
## 11690        coal      201646     24.410
```

```
## 11691    natural_gas          237       1.000
## 11692      petroleum         2947       6.720
## 11694    natural_gas        19407       1.012
## 11695           coal        11185      24.614
## 11696           coal         8290      24.810
## 11697    natural_gas         7715       0.989
## 11698    natural_gas         1635       1.000
## 11699    natural_gas        64923       1.023
## 11700      petroleum        58016       6.353
## 11701           coal        35834      23.400
## 11704           coal        16139      23.708
## 11706      petroleum        31143       5.750
## 11707           coal       329213      18.470
## 11708           coal        11382      24.390
## 11709    natural_gas          319       1.020
## 11710    natural_gas          167       1.000
## 11712    natural_gas       493843       1.034
## 11714           coal         4906      25.700
## 11716    natural_gas      3711543       1.017
## 11717    natural_gas        10940       1.011
## 11718           coal        30716      16.800
## 11719    natural_gas          730       1.028
## 11720      petroleum          318       5.880
## 11722           coal        10437      24.704
## 11723    natural_gas       449618       1.017
## 11724    natural_gas          332       1.030
## 11725    natural_gas        13423       1.043
## 11726           coal        19257      22.518
## 11727    natural_gas       441596       1.021
## 11728           coal          135      26.000
## 11730           coal        54660      17.742
## 11731    natural_gas         4949       0.968
## 11732    natural_gas      2249968       1.027
## 11733    natural_gas      1909818       1.027
## 11734    natural_gas       271034       1.010
## 11735    natural_gas         7425       1.037
## 11737    natural_gas          562       1.020
## 11739           coal         3088      14.440
## 11740           coal       111843      24.880
## 11741           coal        28179      17.640
## 11742    natural_gas         6809       1.028
## 11744    natural_gas      1207219       1.039
## 11745    natural_gas        11835       1.020
## 11746           coal        32279      24.620
## 11747    natural_gas       165366       1.021
## 11748           coal       189447      16.950
## 11749    natural_gas         2016       1.038
## 11751           coal        49043      17.240
## 11752    natural_gas          397       1.070
## 11753    natural_gas      3379233       1.036
## 11756    natural_gas       165375       1.044
## 11757    natural_gas         1930       1.040
## 11758    natural_gas         6221       1.013
## 11761           coal        25292      25.132
```

```
## 11762      natural_gas         2684             1.035
## 11765      natural_gas          141             1.019
## 11766      natural_gas        14603             1.000
## 11767      natural_gas        35474             1.012
## 11768      natural_gas       104766             1.040
## 11770             coal       156459            22.940
## 11772      natural_gas       219709             1.020
## 11776             coal        36090            24.436
## 11777      natural_gas          462             1.018
## 11779      natural_gas         2109             1.033
## 11780             coal       133687            18.040
## 11781      natural_gas         3031             1.039
## 11783             coal         8764            21.285
## 11785             coal        32587            17.830
## 11786        petroleum        92892             5.817
## 11787      natural_gas       434959             1.030
## 11788             coal       120146            16.910
## 11792      natural_gas         1873             1.020
## 11793        petroleum          714             5.712
## 11794             coal        17012            24.238
## 11796      natural_gas       323011             1.020
## 11799      natural_gas      3817248             1.035
## 11801      natural_gas       326082             1.027
## 11802             coal        47293            17.580
## 11803      natural_gas        16989             1.030
## 11804        petroleum          179             5.820
## 11807        petroleum           89             5.760
## 11808             coal        32361            24.506
## 11809      natural_gas      1792266             1.052
## 11814        petroleum          712             5.698
## 11815      natural_gas          467             1.020
## 11817             coal           71            16.420
## 11820      natural_gas         6024             1.000
## 11821             coal        32520            17.260
## 11822             coal        22265            25.270
## 11823             coal        42397            25.200
## 11824      natural_gas       618238             1.037
## 11825             coal         7653            22.300
## 11826        petroleum         4247             5.800
## 11827      natural_gas       290618             1.000
## 11828             coal        11609            25.910
## 11829      natural_gas          234             1.089
## 11830        petroleum          531             5.800
## 11833             coal        48200            23.636
## 11834      natural_gas       103609             1.020
## 11838      natural_gas        46752             1.008
## 11841      natural_gas       383568             1.020
## 11842      natural_gas      2283487             1.025
## 11843             coal          115            16.868
## 11845      natural_gas           81             1.022
## 11846      natural_gas       264792             1.037
## 11848      natural_gas         4559             1.053
## 11850      natural_gas       565882             1.020
## 11852        petroleum         3490             5.750
```

```
## 11853    natural_gas          154587             1.040
## 11854    natural_gas          435673             1.016
## 11855           coal          663676            16.850
## 11856    natural_gas             866             1.030
## 11857           coal          130044            17.520
## 11858    natural_gas              14             1.000
## 11859           coal           25785            17.790
## 11860    natural_gas          392261             1.099
## 11863           coal           16273            18.000
## 11864    natural_gas          653454             1.087
## 11865           coal           10100            24.574
## 11867           coal           14327            25.984
## 11868           coal           12605            28.228
## 11869           coal             783            23.576
## 11870           coal             845            12.800
## 11871           coal           55691            16.950
## 11872    natural_gas          288142             1.036
## 11873           coal           16151            17.730
## 11874      petroleum             893             5.800
## 11875           coal           17743            17.330
## 11877           coal          474177            13.096
## 11878           coal           22990            24.270
## 11879    natural_gas              34             1.008
## 11880      petroleum            2862             5.780
## 11882           coal           63665            17.584
## 11883      petroleum            6610             5.700
## 11885    natural_gas           21195             1.059
## 11886    natural_gas            9988             1.048
## 11887    natural_gas           30000             1.007
## 11888           coal           34616            23.168
## 11889    natural_gas           29197             1.027
## 11890    natural_gas          113072             1.029
## 11892           coal           16224            24.670
## 11893    natural_gas          120588             1.026
## 11894           coal           29424            17.350
## 11895    natural_gas             821             1.000
## 11896           coal           80986            21.805
## 11897           coal           80472            24.338
## 11898      petroleum            2626             5.750
## 11899           coal           38856            23.800
## 11900      petroleum             179             5.880
## 11901    natural_gas           14322             1.022
## 11902    natural_gas            5310             1.010
## 11903    natural_gas         2105898             1.020
## 11904    natural_gas           28751             1.033
## 11905    natural_gas           10509             1.019
## 11906    natural_gas           11342             1.004
## 11907      petroleum            1300             5.779
## 11909           coal          394610            17.310
## 11910    natural_gas           43143             1.077
## 11911    natural_gas         2299772             1.032
## 11912           coal           10144            17.860
## 11913           coal           12332            23.420
## 11914    natural_gas            6113             1.030
```

```
## 11916    natural_gas        5107242          1.042
## 11917      petroleum             24          5.850
## 11919           coal          33000         25.348
## 11920    natural_gas          23022          1.021
## 11921           coal           8252         23.422
## 11922    natural_gas           5122          1.025
## 11924           coal          46578         17.070
## 11925    natural_gas         763236          1.035
## 11927    natural_gas           5175          1.050
## 11930    natural_gas           3710          1.029
## 11931           coal          30633         16.742
## 11932    natural_gas        3377505          1.000
## 11933           coal          45048         26.000
## 11935    natural_gas         127920          1.054
## 11936    natural_gas         476866          1.025
## 11937    natural_gas          11999          1.046
## 11938    natural_gas         424161          1.026
## 11939      petroleum            241          5.750
## 11941      petroleum          58925          6.343
## 11942    natural_gas           1466          1.031
## 11943    natural_gas            525          1.000
## 11944      petroleum            357          5.826
## 11947    natural_gas        1079913          1.008
## 11949    natural_gas            642          1.018
## 11950           coal           4902         22.630
## 11951           coal          14669         17.000
## 11954           coal          19928         21.830
## 11957    natural_gas          78339          1.074
## 11958    natural_gas        3067083          1.020
## 11961           coal          22951         22.960
## 11963           coal         102143         16.600
## 11964    natural_gas           3346          1.230
## 11965    natural_gas          11341          1.030
## 11966           coal          97885         23.240
## 11967    natural_gas          16705          1.030
## 11969           coal           4861         25.434
## 11971           coal          12260         22.580
## 11973    natural_gas          11587          1.016
## 11974    natural_gas        1638299          1.070
## 11975           coal          36789         22.830
## 11976           coal         120817         16.720
## 11977    natural_gas         742691          1.030
## 11978    natural_gas            198          1.000
## 11979    natural_gas           1267          1.028
## 11983           coal          15771         18.108
## 11984    natural_gas          11502          1.022
## 11985    natural_gas           2500          1.003
## 11986    natural_gas          74714          1.007
## 11987    natural_gas          20417          1.015
## 11989           coal         279340         23.076
## 11990    natural_gas          11406          1.000
## 11991    natural_gas           7072          1.018
## 11992    natural_gas         214755          1.019
## 11993           coal           5053         24.726
```

```
## 11994           coal       6300    24.410
## 11995           coal      79776    26.220
## 11996    natural_gas       4711     1.017
## 11998           coal      18655    17.750
## 12001           coal       5390    24.000
## 12003           coal      19792    25.430
## 12005    natural_gas       3302     1.010
## 12006    natural_gas     284607     1.012
## 12007      petroleum       9304     5.628
## 12008           coal      28509    24.920
## 12011    natural_gas     468361     0.987
## 12012    natural_gas      96133     1.012
## 12013    natural_gas     388708     1.030
## 12015           coal      25290    23.450
## 12017           coal      19036    22.785
## 12018           coal      47877    16.980
## 12020    natural_gas      98680     1.061
## 12021    natural_gas     496735     1.026
## 12022           coal      72642    23.620
## 12023    natural_gas     872956     1.031
## 12026           coal     705957    13.300
## 12027    natural_gas       2348     1.000
## 12028      petroleum       5786     5.670
## 12029    natural_gas       4243     1.018
## 12030    natural_gas     218089     1.029
## 12031    natural_gas     121744     1.016
## 12032    natural_gas       8460     1.019
## 12033    natural_gas      11137     1.000
## 12034           coal      13478    22.270
## 12035    natural_gas      18637     1.073
## 12036           coal      32455    17.954
## 12037           coal       1140    23.950
## 12038           coal       4044    11.380
## 12039      petroleum       2026     5.754
## 12040    natural_gas     923047     1.033
## 12042           coal      11097    24.740
## 12043    natural_gas     182330     1.023
## 12044      petroleum      50000     6.314
## 12045           coal      26018    22.190
## 12047    natural_gas      93000     1.000
## 12049    natural_gas    2393360     1.050
## 12050    natural_gas       9009     1.033
## 12051    natural_gas       4990     1.000
## 12052    natural_gas     653930     1.062
## 12053      petroleum       1222     6.000
## 12055           coal      10252    25.540
## 12056    natural_gas     485138     1.020
## 12057    natural_gas      86479     1.020
## 12058    natural_gas     996845     1.032
## 12059    natural_gas          2     1.000
## 12060      petroleum         20     6.000
## 12061    natural_gas      18768     1.070
## 12062           coal       3441    20.600
## 12063    natural_gas      71956     1.030
```

```
## 12064    natural_gas        8458     1.000
## 12065    natural_gas      237093     1.027
## 12066           coal       15587    18.000
## 12068      petroleum        5283     5.790
## 12069    natural_gas     3500000     1.012
## 12070      petroleum        2503     5.880
## 12074      petroleum         198     5.800
## 12076           coal       91427    16.181
## 12078    natural_gas     4604673     1.032
## 12080    natural_gas       51097     1.020
## 12081    natural_gas     3101809     1.026
## 12082           coal      341082    17.100
## 12083      petroleum         533     5.830
## 12084    natural_gas        8476     1.100
## 12087      petroleum        3161     5.880
## 12090           coal       18150    11.680
## 12091    natural_gas         313     1.025
## 12092    natural_gas       38298     1.031
## 12093    natural_gas       48250     1.028
## 12094           coal      122550    21.364
## 12095      petroleum        2562     5.800
## 12096    natural_gas      358756     1.030
## 12097    natural_gas        8790     1.000
## 12098    natural_gas     3906814     1.033
## 12099    natural_gas         254     1.043
## 12100           coal      105032    24.426
## 12101    natural_gas      263821     1.021
## 12103    natural_gas       23501     1.067
## 12104    natural_gas      122552     1.102
## 12105    natural_gas      120652     1.017
## 12106      petroleum         649     5.670
## 12107           coal         120    17.920
## 12108           coal       63632    17.680
## 12109           coal       58308    23.008
## 12111           coal      189775    13.502
## 12114           coal       70429    17.230
## 12117    natural_gas       10192     1.091
## 12119    natural_gas       70664     1.020
## 12120           coal          74    22.974
## 12121    natural_gas       98357     1.007
## 12122           coal        1595    18.746
## 12123    natural_gas       14205     1.027
## 12124    natural_gas       64979     1.042
## 12125           coal       35284    25.968
## 12127    natural_gas       83355     1.043
## 12128    natural_gas     2265120     1.050
## 12130           coal       94471    19.388
## 12131    natural_gas      306592     1.008
## 12132    natural_gas        1326     1.026
## 12133    natural_gas         231     1.020
## 12134           coal      106508    22.762
## 12135    natural_gas     1698771     1.026
## 12136    natural_gas     1278391     1.045
## 12137    natural_gas      153560     1.000
```

```
## 12140          coal         158596            17.980
## 12141   natural_gas          37456             1.030
## 12143   natural_gas             72             1.059
## 12145          coal          63554            17.500
## 12146   natural_gas         192982             0.988
## 12147   natural_gas        1365547             1.030
## 12148     petroleum           4083             5.800
## 12149          coal          30682            25.338
## 12150   natural_gas            574             1.090
## 12152   natural_gas          85436             1.020
## 12153   natural_gas           1162             1.031
## 12154          coal          27603            25.780
## 12155          coal          14543            22.570
## 12156          coal         129765            17.690
## 12157   natural_gas           9775             1.023
## 12158   natural_gas         387360             1.040
## 12161   natural_gas          22180             1.015
## 12162          coal          10980            17.600
## 12163   natural_gas          21141             1.027
## 12164   natural_gas            164             1.018
## 12166   natural_gas           1177             1.018
## 12167   natural_gas         185325             1.026
## 12170          coal          23985            25.480
## 12171     petroleum           3231             5.750
##       sulfur_content_pct ash_content_pct mercury_content_ppm
## 1                   0.00            0.00         0.008048896
## 2                   0.00            0.00         0.000000000
## 4                   0.21            4.50         0.008048896
## 6                   0.00            0.00         0.000000000
## 7                   0.00            0.00         0.000000000
## 8                   0.00            0.00         0.008048896
## 10                  0.31            5.10         0.000000000
## 11                  0.50            0.00         0.008048896
## 13                  0.21            4.20         0.060000000
## 15                  0.72           10.60         0.008048896
## 17                  0.28            4.50         0.008048896
## 18                  0.10            0.00         0.008048896
## 19                  0.29            5.80         0.000000000
## 20                  0.00            0.00         0.000000000
## 21                  0.00            0.00         0.000000000
## 22                  0.00            0.00         0.000000000
## 23                  0.27            5.30         0.008048896
## 24                  0.00            0.00         0.008048896
## 25                  0.00            0.00         0.000000000
## 26                  0.00            0.00         0.008048896
## 27                  0.69            9.90         0.008048896
## 28                  0.00            0.00         0.000000000
## 29                  3.21            8.70         0.008048896
## 30                  0.21            4.50         0.000000000
## 31                  4.41           14.20         0.000000000
## 34                  3.43           17.80         0.008048896
## 35                  1.25           17.80         0.150000000
## 36                  1.78           12.90         0.008048896
## 38                  0.00            0.00         0.000000000
```

```
## 39                    0.00            0.00        0.000000000
## 40                    3.87           10.00        0.000000000
## 42                    3.29           11.10        0.000000000
## 43                    0.50            0.00        0.008048896
## 45                    0.00            0.00        0.000000000
## 47                    3.17            8.50        0.000000000
## 48                    0.00            0.00        0.000000000
## 50                    0.34            5.00        0.070000000
## 51                    0.00            0.00        0.008048896
## 52                    0.00            0.00        0.000000000
## 53                    0.00            0.00        0.008048896
## 54                    0.00            0.00        0.008048896
## 56                    0.00            0.00        0.000000000
## 57                    0.35            6.00        0.090000000
## 58                    0.00            0.00        0.008048896
## 59                    0.77            5.50        0.008048896
## 60                    0.00            0.00        0.008048896
## 61                    0.00            0.00        0.000000000
## 65                    0.31            5.20        0.008048896
## 67                    0.00            0.00        0.008048896
## 68                    4.56            0.70        0.008048896
## 69                    0.00            0.00        0.008048896
## 70                    0.00            0.00        0.000000000
## 72                    0.00            0.00        0.000000000
## 73                    0.00            0.00        0.000000000
## 75                    0.00            0.00        0.008048896
## 76                    0.00            0.00        0.008048896
## 77                    0.00            0.00        0.000000000
## 78                    3.66            9.80        0.000000000
## 79                    0.00            0.00        0.000000000
## 81                    0.00            0.00        0.000000000
## 83                    0.00            0.00        0.000000000
## 84                    0.00            0.00        0.000000000
## 85                    0.00            0.00        0.008048896
## 86                    0.21            4.40        0.000000000
## 87                    2.53            7.50        0.008048896
## 88                    0.00            0.00        0.000000000
## 89                    0.29            5.10        0.008048896
## 90                    0.00            0.00        0.000000000
## 92                    0.26            6.10        0.000000000
## 93                    0.00            0.00        0.000000000
## 94                    0.32            4.90        0.008048896
## 97                    0.00            0.00        0.000000000
## 98                    0.00            0.00        0.000000000
## 99                    0.00            0.00        0.000000000
## 102                   0.29            0.00        0.000000000
## 103                   0.00            0.00        0.008048896
## 104                   0.00            0.00        0.008048896
## 105                   0.00            0.00        0.000000000
## 107                   0.00            0.00        0.008048896
## 108                   0.00            0.00        0.008048896
## 109                   0.22            4.60        0.008048896
## 110                   2.51           39.80        0.000000000
## 111                   0.00            0.00        0.000000000
```

```
## 112                 0.00           0.00        0.008048896
## 113                 0.00           0.00        0.000000000
## 114                 0.20           4.70        0.000000000
## 116                 0.30           5.10        0.008048896
## 117                 0.00           0.00        0.008048896
## 118                 0.26           4.80        0.008048896
## 119                 0.20           4.50        0.008048896
## 122                 0.75          12.83        0.008048896
## 123                 0.00           0.00        0.000000000
## 124                 0.00           0.00        0.000000000
## 125                 0.00           0.00        0.000000000
## 126                 0.00           0.00        0.000000000
## 128                 0.00           0.00        0.000000000
## 129                 1.28          10.00        0.000000000
## 130                 3.15          10.48        0.008048896
## 132                 0.94          11.02        0.008048896
## 134                 0.00           0.00        0.000000000
## 135                 0.00           0.00        0.000000000
## 136                 0.08           0.00        0.008048896
## 137                 0.00           0.00        0.008048896
## 139                 0.38          37.00        0.008048896
## 140                 0.20           4.60        0.008048896
## 141                 0.00           0.00        0.008048896
## 142                 0.00           0.00        0.000000000
## 143                 0.00           0.00        0.000000000
## 144                 0.00           0.00        0.000000000
## 145                 0.25           5.40        0.000000000
## 147                 2.51          14.60        0.008048896
## 148                 0.00           0.00        0.008048896
## 149                 0.00           0.00        0.000000000
## 150                 0.00           0.00        0.008048896
## 151                 0.24           4.50        0.000000000
## 153                 0.71          12.38        0.000000000
## 154                 0.00           0.00        0.000000000
## 155                 0.00           0.00        0.008048896
## 156                 0.91          16.20        0.008048896
## 158                 1.92           6.78        0.008048896
## 160                 0.00           0.00        0.000000000
## 162                 0.00           0.00        0.008048896
## 163                 0.23           5.40        0.050000000
## 165                 0.45           6.70        0.000000000
## 166                 0.00           0.00        0.008048896
## 167                 0.00           0.00        0.000000000
## 168                 0.00           0.00        0.000000000
## 169                 0.00           0.00        0.008048896
## 170                 2.66           8.60        0.000000000
## 171                 0.00           0.00        0.000000000
## 173                 0.00           0.00        0.000000000
## 175                 0.00           0.00        0.008048896
## 176                 0.00           0.00        0.000000000
## 178                 0.00           0.00        0.000000000
## 179                 0.00           0.00        0.008048896
## 181                 0.00           0.00        0.008048896
## 182                 0.39          47.70        0.008048896
```

```
## 183               0.00          0.00     0.000000000
## 184               0.26          4.60     0.008048896
## 186               0.00          0.00     0.000000000
## 187               0.00          0.00     0.000000000
## 188               0.00          0.00     0.008048896
## 189               0.33          4.60     0.008048896
## 191               0.00          0.00     0.000000000
## 192               0.00          0.00     0.000000000
## 193               0.00          0.00     0.000000000
## 194               2.42          8.10     0.000000000
## 195               0.00          0.00     0.000000000
## 196               0.00          0.00     0.000000000
## 198               0.00          0.00     0.000000000
## 200               0.26          5.40     0.008048896
## 203               0.00          0.00     0.000000000
## 204               1.66         19.10     0.008048896
## 205               2.88          8.50     0.000000000
## 206               2.44          7.80     0.000000000
## 207               0.00          0.00     0.000000000
## 208               0.00          0.00     0.000000000
## 209               0.00          0.00     0.008048896
## 210               0.00          0.00     0.008048896
## 211               0.00          0.00     0.000000000
## 212               0.66          9.00     0.101000000
## 214               0.00          0.00     0.008048896
## 215               0.00          0.00     0.000000000
## 216               0.20          4.40     0.000000000
## 217               0.00          0.00     0.000000000
## 218               0.00          0.00     0.008048896
## 220               0.69         12.50     0.008048896
## 221               0.00          0.00     0.000000000
## 222               0.00          0.00     0.000000000
## 223               2.21         10.30     0.008048896
## 225               0.00          0.00     0.000000000
## 226               2.31         10.50     0.130000000
## 228               0.87         11.85     0.008048896
## 230               0.00          0.00     0.000000000
## 231               0.63         13.30     0.050000000
## 233               0.53          7.00     0.000000000
## 235               0.00          0.00     0.000000000
## 236               0.00          0.00     0.000000000
## 238               0.00          0.00     0.008048896
## 240               0.00          0.00     0.000000000
## 241               0.40          7.00     0.008048896
## 242               0.00          0.00     0.000000000
## 243               0.00          0.00     0.000000000
## 244               0.00          0.00     0.008048896
## 248               0.00          0.00     0.000000000
## 249               0.00          0.00     0.008048896
## 250               0.00          0.00     0.008048896
## 252               0.00          0.00     0.000000000
## 253               0.03          0.00     0.008048896
## 254               2.57          7.50     0.000000000
## 255               1.62          7.10     0.008048896
```

```
## 256              0.00            0.00        0.000000000
## 257              0.36            5.20        0.000000000
## 259              2.30            0.00        0.000000000
## 260              1.24            8.20        0.008048896
## 261              0.00            0.00        0.000000000
## 262              2.06           11.40        0.008048896
## 264              0.00            0.00        0.008048896
## 265              0.00            0.00        0.008048896
## 266              3.52            7.70        0.054000000
## 267              0.00            0.00        0.008048896
## 268              0.00            0.00        0.008048896
## 269              0.25            5.10        0.000000000
## 270              0.00            0.00        0.008048896
## 271              1.50           11.60        0.000000000
## 272              0.20            4.80        0.008048896
## 273              0.00            0.00        0.008048896
## 275              2.64           33.20        0.630000000
## 276              0.00            0.00        0.008048896
## 278              0.31            5.40        0.000000000
## 279              0.00            0.00        0.000000000
## 280              0.00            0.00        0.000000000
## 281              0.00            0.00        0.000000000
## 282              0.00            0.00        0.000000000
## 287              1.72           45.10        0.008048896
## 288              0.19            4.50        0.008048896
## 289              3.14            8.50        0.000000000
## 291              0.95           11.51        0.000000000
## 292              0.00            0.00        0.000000000
## 294              1.34            6.70        0.000000000
## 295              0.00            0.00        0.008048896
## 297              0.00            0.00        0.008048896
## 298              0.00            0.00        0.000000000
## 300              0.00            0.00        0.000000000
## 302              2.90            8.40        0.000000000
## 303              0.00            0.00        0.000000000
## 305              4.84           19.10        0.008048896
## 306              0.00            0.00        0.000000000
## 308              0.00            0.00        0.000000000
## 310              0.83           12.30        0.000000000
## 312              0.00            0.00        0.000000000
## 313              0.50            0.00        0.008048896
## 316              0.21            4.30        0.008048896
## 317              1.19            9.95        0.008048896
## 318              0.00            0.00        0.008048896
## 320              0.21            4.50        0.008048896
## 321              2.78            7.60        0.000000000
## 322              2.42            7.60        0.000000000
## 323              3.71           12.30        0.008048896
## 324              0.12            0.00        0.008048896
## 326              0.00            0.00        0.000000000
## 330              2.73           21.10        0.008048896
## 332              0.00            0.00        0.000000000
## 333              2.85           10.50        0.008048896
## 334              0.00            0.00        0.008048896
```

```
## 335            1.20         10.70        0.008048896
## 336            0.00          0.00        0.008048896
## 337            0.00          0.00        0.000000000
## 339            0.00          0.00        0.008048896
## 340            0.00          0.00        0.000000000
## 341            0.00          0.00        0.000000000
## 343            0.00          0.00        0.000000000
## 344            0.00          0.00        0.008048896
## 346            0.00          0.00        0.000000000
## 347            0.21          4.50        0.008048896
## 348            0.00          0.00        0.000000000
## 349            0.00          0.00        0.008048896
## 350            0.00          0.00        0.000000000
## 351            0.00          0.00        0.008048896
## 352            0.00          0.00        0.000000000
## 353            0.00          0.00        0.000000000
## 354            2.90          8.20        0.008048896
## 355            0.20          0.00        0.008048896
## 356            0.85         16.70        0.008048896
## 358            0.65          8.40        0.008048896
## 359            0.00          0.00        0.000000000
## 360            0.62         13.60        0.008048896
## 361            0.29          5.70        0.008048896
## 363            0.21          4.70        0.008048896
## 364            0.00          0.00        0.000000000
## 366            0.25          4.70        0.008048896
## 368            0.00          0.00        0.000000000
## 369            0.00          0.00        0.000000000
## 370            0.00          0.00        0.008048896
## 371            0.00          0.00        0.000000000
## 374            0.00          0.00        0.008048896
## 375            0.00          0.00        0.000000000
## 376            0.00          0.00        0.000000000
## 377            0.00          0.00        0.000000000
## 378            1.07         13.40        0.000000000
## 380            0.00          0.00        0.008048896
## 381            4.53         11.30        0.000000000
## 382            2.01          8.70        0.000000000
## 383            3.47         12.60        0.008048896
## 385            0.00          0.00        0.000000000
## 386            0.00          0.00        0.008048896
## 388            0.00          0.00        0.000000000
## 389            0.00          0.00        0.000000000
## 390            0.99         11.50        0.008048896
## 391            1.02         10.20        0.008048896
## 392            0.00          0.00        0.008048896
## 393            0.00          0.00        0.000000000
## 395            0.61         22.70        0.000000000
## 396            0.00          0.00        0.000000000
## 397            1.40         12.20        0.008048896
## 398            0.00          0.00        0.008048896
## 399            0.26          5.10        0.008048896
## 400            0.22          4.55        0.000000000
## 403            0.00          0.00        0.008048896
```

```
## 404              2.17          8.20      0.008048896
## 405              0.00          0.00      0.008048896
## 407              0.00          0.00      0.008048896
## 409              0.00          0.00      0.008048896
## 411              1.00          9.57      0.008048896
## 414              0.00          0.00      0.000000000
## 416              0.00          0.00      0.000000000
## 417              0.00          0.00      0.008048896
## 418              0.00          0.00      0.000000000
## 419              1.02          9.57      0.008048896
## 425              0.83         13.70      0.008048896
## 426              0.00          0.00      0.008048896
## 427              0.00          0.00      0.008048896
## 428              0.00          0.00      0.008048896
## 429              0.00          0.00      0.000000000
## 430              0.20          4.60      0.008048896
## 431              0.00          0.00      0.008048896
## 432              0.00          0.00      0.000000000
## 433              0.00          0.00      0.008048896
## 434              3.17          8.50      0.000000000
## 436              3.02          8.50      0.000000000
## 437              0.95          9.80      0.008048896
## 438              0.00          0.00      0.008048896
## 439              0.00          0.00      0.008048896
## 441              0.00          0.00      0.000000000
## 442              0.00          0.00      0.000000000
## 443              0.35          5.70      0.000000000
## 445              0.25          5.80      0.008048896
## 449              0.42         42.00      0.000000000
## 450              0.25          5.30      0.000000000
## 453              0.00          0.00      0.000000000
## 454              0.00          0.00      0.000000000
## 455              0.00          0.00      0.008048896
## 458              0.00          0.00      0.008048896
## 460              0.00          0.00      0.000000000
## 461              0.89         11.93      0.008048896
## 462              0.48         10.00      0.008048896
## 463              0.00          0.00      0.008048896
## 465              0.00          0.00      0.000000000
## 466              0.00          0.00      0.000000000
## 467              1.89         13.90      0.008048896
## 469              3.11         10.40      0.000000000
## 470              0.26          5.80      0.000000000
## 471              0.00          0.00      0.008048896
## 473              0.00          0.00      0.000000000
## 474              0.00          0.00      0.008048896
## 475              0.00          0.00      0.000000000
## 476              0.00          0.00      0.008048896
## 479              0.00          0.00      0.000000000
## 481              0.31          5.20      0.008048896
## 482              2.61          7.80      0.008048896
## 484              0.00          0.00      0.000000000
## 485              0.00          0.00      0.000000000
## 486              0.50          0.00      0.008048896
```

```
## 488               0.86          11.30         0.008048896
## 489               0.00           0.00         0.000000000
## 490               0.96           8.50         0.008048896
## 492               0.00           0.00         0.008048896
## 494               0.00           0.00         0.008048896
## 496               0.00           0.00         0.000000000
## 497               0.00           0.00         0.008048896
## 498               0.00           0.00         0.000000000
## 499               0.00           0.00         0.008048896
## 500               0.00           0.00         0.008048896
## 501               0.00           0.00         0.000000000
## 503               3.02           7.60         0.008048896
## 505               0.32           5.10         0.008048896
## 506               0.00           0.00         0.008048896
## 507               0.26           5.10         0.000000000
## 508               0.00           0.00         0.008048896
## 510               0.70           8.60         0.008048896
## 511               2.56           7.80         0.008048896
## 512               0.00           0.00         0.000000000
## 513               0.00           0.00         0.000000000
## 514               0.00           0.00         0.008048896
## 516               0.87          11.50         0.000000000
## 517               0.00           0.00         0.008048896
## 518               0.21           4.90         0.100000000
## 519               0.22           5.60         0.000000000
## 520               0.00           0.00         0.008048896
## 521               0.00           0.00         0.000000000
## 522               0.00           0.00         0.008048896
## 524               2.78           8.10         0.000000000
## 525               1.00           8.60         0.008048896
## 526               3.11           7.70         0.008048896
## 527               2.14           9.00         0.008048896
## 528               0.00           0.00         0.008048896
## 529               0.00           0.00         0.000000000
## 530               0.00           0.00         0.000000000
## 531               0.00           0.00         0.008048896
## 532               0.00           0.00         0.000000000
## 533               0.30           5.30         0.008048896
## 534               0.19           0.00         0.008048896
## 535               0.87          11.90         0.008048896
## 537               0.20           5.60         0.000000000
## 538               0.00           0.00         0.008048896
## 540               0.84          18.00         0.008048896
## 541               0.00           0.00         0.000000000
## 544               2.66           8.70         0.000000000
## 545               1.05           7.90         0.008048896
## 546               1.05          19.00         0.000000000
## 548               2.29          29.30         0.008048896
## 550               0.39           9.60         0.000000000
## 551               0.00           0.00         0.008048896
## 552               3.23          33.20         0.000000000
## 553               0.00           0.00         0.008048896
## 554               0.95          17.10         0.008048896
## 555               0.77           8.10         0.008048896
```

```
## 556                 0.00              0.00        0.000000000
## 557                 0.22              4.50        0.060000000
## 558                 0.00              0.00        0.000000000
## 560                 0.00              0.00        0.008048896
## 561                 0.35              5.00        0.008048896
## 562                 0.00              0.00        0.000000000
## 566                 0.33              5.20        0.008048896
## 567                 0.00              0.00        0.000000000
## 568                 0.00              0.00        0.000000000
## 569                 3.08              7.50        0.100000000
## 570                 0.00              0.00        0.008048896
## 571                 0.00              0.00        0.000000000
## 572                 0.00              0.00        0.000000000
## 573                 0.00              0.00        0.000000000
## 575                 0.28              5.60        0.000000000
## 578                 0.30              0.00        0.008048896
## 579                 0.00              0.00        0.008048896
## 581                 0.00              0.00        0.000000000
## 582                 0.00              0.00        0.008048896
## 583                 0.00              0.00        0.008048896
## 585                 1.49              9.70        0.008048896
## 586                 0.47             10.70        0.000000000
## 587                 0.00              0.00        0.008048896
## 589                 0.21              0.00        0.008048896
## 590                 0.00              0.00        0.000000000
## 591                 0.00              0.00        0.000000000
## 592                 0.00              0.00        0.000000000
## 593                 1.04              9.20        0.008048896
## 594                 0.00              0.00        0.008048896
## 595                 0.72             10.50        0.008048896
## 596                 0.00              0.00        0.008048896
## 598                 0.00              0.00        0.000000000
## 599                 1.23             15.50        0.450000000
## 600                 2.68              7.80        0.008048896
## 601                 0.01              0.00        0.008048896
## 602                 0.00              0.00        0.008048896
## 603                 0.50              0.00        0.008048896
## 604                 0.20              4.60        0.008048896
## 605                 0.48             46.00        0.008048896
## 606                 0.65             15.30        0.008048896
## 607                 0.00              0.00        0.008048896
## 608                 2.09             11.50        0.008048896
## 609                 0.00              0.00        0.000000000
## 610                 0.00              0.00        0.000000000
## 611                 0.24              5.50        0.008048896
## 612                 1.14              6.50        0.008048896
## 613                 2.13             12.70        0.008048896
## 614                 0.00              0.00        0.008048896
## 615                 0.79              6.80        0.008048896
## 616                 0.26              5.60        0.000000000
## 620                 0.00              0.00        0.000000000
## 621                 0.00              0.00        0.008048896
## 622                 0.00              0.00        0.000000000
## 625                 1.70              7.90        0.008048896
```

```
## 626                 0.00         0.00        0.000000000
## 627                 0.00         0.00        0.008048896
## 629                 0.00         0.00        0.008048896
## 630                 0.00         0.00        0.000000000
## 631                 0.02         0.00        0.008048896
## 635                 0.00         0.00        0.008048896
## 636                 2.29         8.70        0.000000000
## 637                 0.00         0.00        0.000000000
## 638                 0.00         0.00        0.000000000
## 639                 0.00         0.00        0.000000000
## 642                 0.00         0.00        0.008048896
## 644                 0.68        10.00        0.008048896
## 645                 0.35         6.80        0.090000000
## 646                 0.00         0.00        0.008048896
## 647                 0.50         0.00        0.008048896
## 649                 0.00         0.00        0.000000000
## 650                 0.20         4.00        0.000000000
## 651                 0.00         0.00        0.000000000
## 655                 0.62         6.90        0.008048896
## 656                 0.00         0.00        0.008048896
## 657                 0.50         0.00        0.008048896
## 658                 0.00         0.00        0.008048896
## 659                 1.53         9.00        0.008048896
## 660                 0.00         0.00        0.000000000
## 661                 2.51         7.70        0.008048896
## 663                 0.00         0.00        0.008048896
## 664                 0.00         0.00        0.000000000
## 665                 0.79        12.60        0.008048896
## 666                 0.00         0.00        0.000000000
## 667                 2.97         9.80        0.008048896
## 668                 0.20         4.50        0.000000000
## 669                 0.00         0.00        0.000000000
## 670                 0.27         4.80        0.000000000
## 671                 0.00         0.00        0.008048896
## 672                 1.64         6.90        0.008048896
## 673                 0.00         0.00        0.000000000
## 674                 0.24         5.80        0.070000000
## 675                 0.50         0.00        0.008048896
## 676                 0.71        12.00        0.008048896
## 677                 0.00         0.00        0.000000000
## 678                 0.00         0.00        0.000000000
## 680                 0.00         0.00        0.000000000
## 682                 1.00         0.00        0.008048896
## 683                 0.31         5.60        0.100000000
## 684                 0.84        20.30        0.008048896
## 685                 0.21         4.50        0.008048896
## 686                 0.00         0.00        0.008048896
## 687                 0.30         0.00        0.008048896
## 688                 0.00         0.00        0.000000000
## 689                 0.00         0.00        0.000000000
## 691                 0.00         0.00        0.000000000
## 692                 0.00         0.00        0.000000000
## 693                 1.01         8.10        0.008048896
## 695                 0.00         0.00        0.008048896
```

```
## 696           2.35           0.00           0.008048896
## 697           1.42          18.70           0.008048896
## 698           0.00           0.00           0.000000000
## 699           0.86           7.30           0.008048896
## 700           0.00           0.00           0.000000000
## 701           0.00           0.00           0.000000000
## 703           2.50           8.40           0.008048896
## 704           0.72          11.00           0.008048896
## 705           0.00           0.00           0.000000000
## 707           1.86           7.30           0.008048896
## 708           0.00           0.00           0.000000000
## 709           2.77          10.00           0.008048896
## 710           0.00           0.00           0.008048896
## 712           0.00           0.00           0.000000000
## 713           0.00           0.00           0.008048896
## 714           1.94           5.90           0.008048896
## 716           0.00           0.00           0.008048896
## 717           0.00           0.00           0.008048896
## 719           0.00           0.00           0.000000000
## 720           1.25          10.10           0.008048896
## 721           0.00           0.00           0.008048896
## 722           0.00           0.00           0.000000000
## 723           0.00           0.00           0.000000000
## 724           1.74           9.30           0.008048896
## 726           0.00           0.00           0.000000000
## 727           0.00           0.00           0.008048896
## 729           0.00           0.00           0.000000000
## 731           0.00           0.00           0.008048896
## 732           0.00           0.00           0.008048896
## 733           0.00           0.00           0.000000000
## 734           0.00           0.00           0.000000000
## 735           0.00           0.00           0.008048896
## 736           0.00           0.00           0.000000000
## 739           0.00           0.00           0.008048896
## 741           0.00           0.00           0.000000000
## 742           0.27           5.60           0.008048896
## 743           0.20           4.38           0.000000000
## 744           0.00           0.00           0.008048896
## 746           0.50           0.00           0.008048896
## 747           0.01           0.00           0.008048896
## 748           0.00           0.00           0.008048896
## 749           0.00           0.00           0.008048896
## 750           0.87           5.70           0.008048896
## 751           0.00           0.00           0.000000000
## 752           0.00           0.00           0.008048896
## 754           0.26           5.50           0.008048896
## 755           0.23           4.60           0.000000000
## 756           1.65           7.90           0.008048896
## 757           3.40          13.20           0.008048896
## 758           1.00          12.54           0.000000000
## 759           0.74           7.10           0.000000000
## 760           0.72          10.50           0.008048896
## 762           0.00           0.00           0.008048896
## 763           0.00           0.00           0.000000000
```

```
## 765                   0.00            0.00         0.000000000
## 766                   0.00            0.00         0.000000000
## 767                   0.00            0.00         0.000000000
## 768                   0.00            0.00         0.008048896
## 769                   0.00            0.00         0.000000000
## 771                   0.40            5.00         0.008048896
## 772                   0.58           10.80         0.102000000
## 773                   5.83            0.40         0.008048896
## 774                   0.19            4.50         0.000000000
## 775                   0.00            0.00         0.008048896
## 776                   0.00            0.00         0.000000000
## 777                   0.00            0.00         0.008048896
## 778                   0.00            0.00         0.000000000
## 779                   2.29            7.50         0.000000000
## 780                   0.00            0.00         0.000000000
## 781                   0.80            6.20         0.051000000
## 782                   0.00            0.00         0.000000000
## 784                   0.00            0.00         0.000000000
## 785                   0.00            0.00         0.000000000
## 786                   0.36            4.70         0.000000000
## 787                   0.00            0.00         0.008048896
## 788                   0.00            0.00         0.008048896
## 789                   0.00            0.00         0.008048896
## 791                   0.03            0.00         0.008048896
## 793                   0.00            0.00         0.000000000
## 794                   0.29            5.10         0.000000000
## 795                   0.00            0.00         0.000000000
## 798                   0.46           10.30         0.000000000
## 799                   0.00            0.00         0.008048896
## 800                   0.00            0.00         0.008048896
## 801                   0.00            0.00         0.000000000
## 802                   0.76           10.30         0.008048896
## 803                   0.94           11.70         0.008048896
## 805                   3.93           10.40         0.008048896
## 808                   0.47            0.00         0.000000000
## 809                   0.00            0.00         0.000000000
## 810                   0.00            0.00         0.000000000
## 811                   2.95            9.40         0.008048896
## 812                   0.50            0.00         0.008048896
## 813                   0.00            0.00         0.000000000
## 814                   0.00            0.00         0.000000000
## 815                   0.00            0.00         0.008048896
## 817                   0.65           12.90         0.008048896
## 818                   0.00            0.00         0.000000000
## 820                   0.00            0.00         0.008048896
## 821                   0.00            0.00         0.000000000
## 822                   0.00            0.00         0.000000000
## 823                   0.00            0.00         0.000000000
## 825                   0.00            0.00         0.008048896
## 826                   0.00            0.00         0.000000000
## 827                   1.13            8.20         0.008048896
## 828                   0.00            0.00         0.008048896
## 829                   0.30            5.20         0.000000000
## 830                   0.21            5.20         0.070000000
```

```
## 831                0.00              0.00         0.008048896
## 832                0.00              0.00         0.008048896
## 834                2.42              9.30         0.008048896
## 835                0.00              0.00         0.000000000
## 837                0.00              0.00         0.008048896
## 838                0.00              0.00         0.000000000
## 840                0.24              5.70         0.100000000
## 841                0.00              0.00         0.000000000
## 842                0.99             12.00         0.008048896
## 843                0.00              0.00         0.008048896
## 844                0.00              0.00         0.000000000
## 845                3.37              7.80         0.000000000
## 847                0.34              5.40         0.080000000
## 848                0.00              0.00         0.000000000
## 850                2.78              8.90         0.000000000
## 851                0.00              0.00         0.000000000
## 852                0.20              5.00         0.008048896
## 853                0.00              0.00         0.000000000
## 854                1.03             15.20         0.000000000
## 857                0.00              0.00         0.008048896
## 858                0.78             13.35         0.000000000
## 859                0.00              0.00         0.000000000
## 861                0.19              4.99         0.000000000
## 863                0.00              0.00         0.008048896
## 864                0.38              5.00         0.008048896
## 865                2.57              8.30         0.110000000
## 866                0.00              0.00         0.000000000
## 867                2.32              7.40         0.000000000
## 868                0.00              0.00         0.000000000
## 869                0.20              4.20         0.000000000
## 870                0.00              0.00         0.008048896
## 871                0.00              0.00         0.000000000
## 872                0.00              0.00         0.000000000
## 873                0.00              0.00         0.000000000
## 874                0.00              0.00         0.000000000
## 875                0.00              0.00         0.000000000
## 876                1.16             15.00         0.008048896
## 877                0.00              0.00         0.000000000
## 879                2.62              7.90         0.008048896
## 880                0.00              0.00         0.008048896
## 881                0.00              0.00         0.000000000
## 882                0.35             39.30         0.008048896
## 883                0.00              0.00         0.008048896
## 884                0.00              0.00         0.000000000
## 885                0.00              0.00         0.000000000
## 887                0.00              0.00         0.008048896
## 888                0.26              4.40         0.008048896
## 889                0.00              0.00         0.008048896
## 890                0.82             12.10         0.008048896
## 891                0.00              0.00         0.000000000
## 892                0.22              5.39         0.008048896
## 893                0.10              0.00         0.008048896
## 894                0.88             15.40         0.008048896
## 895                0.39             15.10         0.008048896
```

```
## 896         0.66         11.40         0.008048896
## 897         0.00          0.00         0.008048896
## 899         0.00          0.00         0.000000000
## 900         0.23          4.90         0.000000000
## 901         3.94          9.60         0.000000000
## 903         2.78          8.90         0.008048896
## 904         0.00          0.00         0.000000000
## 906         0.00          0.00         0.000000000
## 907         0.88         12.09         0.008048896
## 908         0.69          0.00         0.008048896
## 910         0.00          0.00         0.000000000
## 911         0.00          0.00         0.008048896
## 913         0.21          4.50         0.008048896
## 914         0.00          0.00         0.000000000
## 915         1.64          8.00         0.008048896
## 916         0.00          0.00         0.008048896
## 918         0.00          0.00         0.008048896
## 919         0.97         14.20         0.008048896
## 920         0.23          4.60         0.000000000
## 921         0.00          0.00         0.000000000
## 922         0.00          0.00         0.000000000
## 924         0.21          5.10         0.008048896
## 925         0.00          0.00         0.000000000
## 928         0.00          0.00         0.008048896
## 929         0.21          4.50         0.000000000
## 930         0.00          0.00         0.008048896
## 931         0.19          4.40         0.000000000
## 932         0.00          0.00         0.000000000
## 938         0.00          0.00         0.008048896
## 940         0.00          0.00         0.008048896
## 941         0.00          0.00         0.000000000
## 942         2.97          8.10         0.008048896
## 945         0.21          4.50         0.008048896
## 946         2.82          8.40         0.008048896
## 948         0.00          0.00         0.000000000
## 949         0.00          0.00         0.008048896
## 950         1.76         53.50         0.008048896
## 951         0.00          0.00         0.000000000
## 953         0.00          0.00         0.000000000
## 954         0.35          5.30         0.008048896
## 955         4.44          9.60         0.000000000
## 957         0.00          0.00         0.000000000
## 959         0.00          0.00         0.000000000
## 961         0.00          0.00         0.008048896
## 962         0.00          0.00         0.000000000
## 964         0.00          0.00         0.000000000
## 965         0.00          0.00         0.008048896
## 966         2.46          7.40         0.000000000
## 967         0.00          0.00         0.000000000
## 968         0.87         10.40         0.008048896
## 969         0.91         13.00         0.008048896
## 970         0.00          0.00         0.008048896
## 971         0.79          9.20         0.008048896
## 973         0.00          0.00         0.000000000
```

```
## 974                  0.00            0.00         0.000000000
## 975                  0.00            0.00         0.008048896
## 976                  1.72            8.90         0.008048896
## 978                  0.24            4.70         0.000000000
## 980                  0.00            0.00         0.000000000
## 981                  0.00            0.00         0.000000000
## 983                  0.31            5.10         0.008048896
## 984                  3.03            8.70         0.000000000
## 985                  4.84            9.42         0.000000000
## 986                  0.00            0.00         0.000000000
## 988                  3.64           17.10         0.008048896
## 991                  1.03            9.10         0.070000000
## 992                  0.00            0.00         0.000000000
## 994                  1.20           19.60         0.000000000
## 995                  0.00            0.00         0.000000000
## 998                  0.00            0.00         0.000000000
## 999                  0.00            0.00         0.008048896
## 1002                 0.00            0.00         0.008048896
## 1003                 0.55            9.90         0.008048896
## 1004                 0.00            0.00         0.000000000
## 1005                 1.19           13.51         0.008048896
## 1006                 0.00            0.00         0.000000000
## 1007                 0.00            0.00         0.000000000
## 1008                 0.00            0.00         0.000000000
## 1009                 0.50           10.00         0.008048896
## 1010                 2.45            8.00         0.008048896
## 1011                 0.00            0.00         0.000000000
## 1012                 0.00            0.00         0.008048896
## 1013                 1.11            8.70         0.008048896
## 1014                 0.00            0.00         0.008048896
## 1015                 0.21            4.90         0.000000000
## 1016                 0.00            0.00         0.000000000
## 1017                 0.22            5.40         0.000000000
## 1019                 0.00            0.00         0.008048896
## 1022                 0.00            0.00         0.000000000
## 1023                 0.00            0.00         0.000000000
## 1026                 0.00            0.00         0.000000000
## 1027                 0.00            0.00         0.008048896
## 1028                 0.00            0.00         0.000000000
## 1030                 0.74           10.50         0.000000000
## 1031                 0.00            0.00         0.000000000
## 1033                 0.00            0.00         0.000000000
## 1034                 0.00            0.00         0.000000000
## 1035                 0.22            4.90         0.000000000
## 1037                 0.41            4.80         0.008048896
## 1040                 0.00            0.00         0.008048896
## 1041                 0.00            0.00         0.000000000
## 1042                 0.00            0.00         0.000000000
## 1043                 0.00            0.00         0.000000000
## 1044                 0.00            0.00         0.000000000
## 1045                 0.00            0.00         0.008048896
## 1048                 0.00            0.00         0.008048896
## 1049                 0.28            5.50         0.008048896
## 1050                 0.00            0.00         0.008048896
```

```
## 1051                0.00           0.00         0.008048896
## 1052                0.00           0.00         0.000000000
## 1053                0.20           4.50         0.008048896
## 1054                2.06           7.30         0.000000000
## 1057                0.00           0.00         0.008048896
## 1058                2.80           9.40         0.110000000
## 1059                0.00           0.00         0.000000000
## 1060                1.67           8.70         0.000000000
## 1061                0.00           0.00         0.000000000
## 1062                0.00           0.00         0.008048896
## 1063                0.27           5.20         0.000000000
## 1064                0.56           9.60         0.008048896
## 1065                0.42           9.70         0.008048896
## 1066                0.00           0.00         0.000000000
## 1067                2.92           8.10         0.000000000
## 1069                0.00           0.00         0.000000000
## 1070                0.00           0.00         0.000000000
## 1071                0.00           0.00         0.000000000
## 1074                0.00           0.00         0.000000000
## 1076                0.00           0.00         0.008048896
## 1079                0.00           0.00         0.000000000
## 1081                3.80           0.22         0.008048896
## 1082                0.00           0.00         0.000000000
## 1083                0.02           0.00         0.008048896
## 1084                0.42          10.20         0.008048896
## 1085                0.00           0.00         0.008048896
## 1086                6.07          10.40         0.000000000
## 1087                0.46           5.50         0.008048896
## 1088                0.00           0.00         0.000000000
## 1089                0.00           0.00         0.000000000
## 1090                0.44          10.40         0.000000000
## 1091                0.00           0.00         0.000000000
## 1093                0.00           0.00         0.008048896
## 1094                0.00           0.00         0.008048896
## 1095                0.00           0.00         0.000000000
## 1096                0.29           4.90         0.100000000
## 1098                0.00           0.00         0.008048896
## 1101                0.28           4.50         0.100000000
## 1103                0.00           0.00         0.008048896
## 1104                0.58           9.60         0.111000000
## 1106                0.00           0.00         0.000000000
## 1109                2.48           8.30         0.000000000
## 1112                0.00           0.00         0.000000000
## 1113                0.00           0.00         0.000000000
## 1114                0.66          12.40         0.008048896
## 1117                0.21           0.00         0.008048896
## 1118                0.00           0.00         0.000000000
## 1119                0.33           5.60         0.008048896
## 1120                0.00           0.00         0.008048896
## 1122                1.02          12.20         0.008048896
## 1123                0.00           0.00         0.008048896
## 1124                0.00           0.00         0.008048896
## 1125                1.18           9.90         0.008048896
## 1126                0.00           0.00         0.000000000
```

```
## 1128                  0.00            0.00         0.000000000
## 1129                  0.00            0.00         0.008048896
## 1130                  0.00            0.00         0.000000000
## 1132                  0.00            0.00         0.000000000
## 1133                  0.38            5.20         0.080000000
## 1134                  0.00            0.00         0.008048896
## 1136                  0.00            0.00         0.000000000
## 1138                  0.30            5.50         0.008048896
## 1139                  0.71            5.60         0.000000000
## 1140                  0.09            0.00         0.008048896
## 1141                  3.34           21.70         0.410000000
## 1142                  3.36           13.60         0.008048896
## 1144                  0.01            0.00         0.008048896
## 1145                  0.00            0.00         0.000000000
## 1146                  1.50           14.50         0.008048896
## 1147                  0.00            0.00         0.000000000
## 1150                  0.00            0.00         0.008048896
## 1151                  2.28           58.40         0.000000000
## 1152                  2.85            6.00         0.000000000
## 1153                  0.00            0.00         0.008048896
## 1154                  0.00            0.00         0.000000000
## 1156                  1.37            9.10         0.008048896
## 1157                  0.00            0.00         0.008048896
## 1160                  0.00            0.00         0.000000000
## 1161                  1.14           10.10         0.008048896
## 1162                  0.00            0.00         0.008048896
## 1163                  0.87           10.50         0.008048896
## 1164                  0.00            0.00         0.008048896
## 1165                  0.00            0.00         0.000000000
## 1166                  0.50            0.00         0.008048896
## 1167                  0.00            0.00         0.000000000
## 1168                  0.00            0.00         0.008048896
## 1169                  0.03            0.00         0.008048896
## 1170                  2.80            8.50         0.100000000
## 1171                  0.00            0.00         0.008048896
## 1172                  0.00            0.00         0.000000000
## 1173                  0.34            4.94         0.008048896
## 1174                  0.00            0.00         0.008048896
## 1175                  0.83           10.00         0.100000000
## 1176                  0.00            0.00         0.000000000
## 1178                  0.00            0.00         0.000000000
## 1180                  3.21           10.70         0.000000000
## 1181                  0.00            0.00         0.000000000
## 1182                  0.00            0.00         0.008048896
## 1184                  0.00            0.00         0.000000000
## 1185                  0.37            4.90         0.008048896
## 1186                  0.24            4.60         0.000000000
## 1187                  0.50            0.00         0.008048896
## 1188                  0.80           20.40         0.000000000
## 1190                  0.21            5.60         0.095000000
## 1191                  0.00            0.00         0.000000000
## 1192                  0.17            3.90         0.000000000
## 1193                  0.00            0.00         0.008048896
## 1194                  2.68            7.60         0.000000000
```

```
## 1195              0.00         0.00       0.008048896
## 1198              1.31         6.30       0.130000000
## 1200              0.27         4.90       0.008048896
## 1201              0.00         0.00       0.000000000
## 1202              0.00         0.00       0.008048896
## 1203              0.00         0.00       0.000000000
## 1204              1.14        10.10       0.008048896
## 1205              0.50         0.00       0.008048896
## 1206              0.00         0.00       0.000000000
## 1207              0.90        11.00       0.008048896
## 1208              0.22         4.40       0.000000000
## 1209              0.00         0.00       0.008048896
## 1210              0.00         0.00       0.000000000
## 1212              0.00         0.00       0.008048896
## 1213              1.01        10.50       0.008048896
## 1214              0.25         4.90       0.000000000
## 1215              0.00         0.00       0.008048896
## 1216              0.00         0.00       0.008048896
## 1217              0.00         0.00       0.008048896
## 1218              0.30         5.70       0.008048896
## 1219              0.00         0.00       0.008048896
## 1222              0.00         0.00       0.000000000
## 1223              0.00         0.00       0.000000000
## 1224              0.00         0.00       0.000000000
## 1225              0.39         7.30       0.008048896
## 1226              0.00         0.00       0.008048896
## 1228              0.00         0.00       0.008048896
## 1229              0.00         0.00       0.000000000
## 1230              0.00         0.00       0.000000000
## 1232              0.00         0.00       0.008048896
## 1233              1.00        12.70       0.008048896
## 1234              0.00         0.00       0.000000000
## 1235              0.00         0.00       0.008048896
## 1236              0.00         0.00       0.008048896
## 1237              0.19         4.50       0.008048896
## 1239              0.00         0.00       0.008048896
## 1240              0.36        14.30       0.000000000
## 1241              0.00         0.00       0.000000000
## 1242              0.00         0.00       0.008048896
## 1243              0.20         4.50       0.008048896
## 1246              0.00         0.00       0.000000000
## 1247              0.19         4.20       0.000000000
## 1248              0.00         0.00       0.000000000
## 1250              0.00         0.00       0.008048896
## 1251              2.78         9.10       0.008048896
## 1255              0.21         4.70       0.008048896
## 1256              0.00         0.00       0.000000000
## 1258              0.78        11.93       0.000000000
## 1260              0.00         0.00       0.000000000
## 1261              0.00         0.00       0.008048896
## 1262              0.00         0.00       0.000000000
## 1263              0.00         0.00       0.008048896
## 1264              0.80         6.40       0.008048896
## 1266              0.18         4.50       0.000000000
```

```
## 1267            0.00           0.00        0.008048896
## 1268            1.04          13.00        0.000000000
## 1271            0.00           0.00        0.008048896
## 1272            1.36          12.40        0.008048896
## 1273            0.31           5.30        0.008048896
## 1274            0.80          13.40        0.008048896
## 1275            2.39          11.70        0.000000000
## 1276            0.02           0.00        0.008048896
## 1277            0.00           0.00        0.008048896
## 1278            0.00           0.00        0.000000000
## 1279            1.80          10.80        0.008048896
## 1280            0.28           5.30        0.000000000
## 1282            1.09           6.20        0.008048896
## 1283            0.06           0.00        0.008048896
## 1284            0.17           4.50        0.070000000
## 1285            3.52           8.40        0.060000000
## 1289            0.00           0.00        0.008048896
## 1290            0.00           0.00        0.000000000
## 1292            0.00           0.00        0.000000000
## 1293            0.00           0.00        0.000000000
## 1295            0.50           0.00        0.008048896
## 1296            0.00           0.00        0.000000000
## 1297            0.00           0.00        0.008048896
## 1298            0.00           0.00        0.000000000
## 1300            0.00           0.00        0.000000000
## 1301            4.04           9.97        0.000000000
## 1302            0.00           0.00        0.000000000
## 1303            0.00           0.00        0.000000000
## 1304            0.00           0.00        0.008048896
## 1308            0.00           0.00        0.000000000
## 1309            0.33           5.70        0.000000000
## 1310            0.00           0.00        0.008048896
## 1311            0.00           0.00        0.000000000
## 1314            0.50           0.00        0.008048896
## 1315            0.00           0.00        0.000000000
## 1316            0.00           0.00        0.000000000
## 1317            1.85          22.10        0.294000000
## 1321            0.00           0.00        0.008048896
## 1322            2.51          13.60        0.008048896
## 1323            0.00           0.00        0.000000000
## 1324            0.81          11.65        0.008048896
## 1325            0.82           7.90        0.000000000
## 1326            0.00           0.00        0.000000000
## 1327            0.00           0.00        0.008048896
## 1328            1.84          12.70        0.008048896
## 1329            0.00           0.00        0.000000000
## 1330            0.00           0.00        0.000000000
## 1332            0.00           0.00        0.000000000
## 1333            0.31           5.90        0.008048896
## 1335            0.21           4.60        0.008048896
## 1336            1.69           8.30        0.000000000
## 1337            0.30           4.30        0.008048896
## 1338            1.04           8.00        0.008048896
## 1339            4.99          21.20        0.008048896
```

```
## 1340             0.00            0.00       0.000000000
## 1341             1.03           10.80       0.008048896
## 1342             0.00            0.00       0.000000000
## 1343             0.00            0.00       0.008048896
## 1345             0.00            0.00       0.008048896
## 1346             0.00            0.00       0.000000000
## 1347             0.78           13.00       0.000000000
## 1348             0.00            0.00       0.000000000
## 1349             2.40            9.30       0.008048896
## 1350             0.00            0.00       0.000000000
## 1351             0.00            0.00       0.000000000
## 1352             0.00            0.00       0.000000000
## 1353             1.89           23.80       0.000000000
## 1354             0.00            0.00       0.008048896
## 1355             0.00            0.00       0.008048896
## 1357             0.00            0.00       0.008048896
## 1358             3.51           10.10       0.000000000
## 1359             0.00            0.00       0.008048896
## 1360             0.32            5.30       0.008048896
## 1361             2.24            7.50       0.000000000
## 1362             0.82           12.87       0.008048896
## 1363             2.69           10.80       0.008048896
## 1364             0.00            0.00       0.000000000
## 1365             0.00            0.00       0.000000000
## 1366             0.28            5.90       0.000000000
## 1367             0.00            0.00       0.000000000
## 1368             0.00            0.00       0.008048896
## 1370             0.00            0.00       0.008048896
## 1371             0.00            0.00       0.000000000
## 1372             0.00            0.00       0.008048896
## 1373             2.47           20.60       0.008048896
## 1374             4.06            8.50       0.000000000
## 1376             0.00            0.00       0.000000000
## 1377             0.00            0.00       0.000000000
## 1379             0.25            5.20       0.000000000
## 1380             2.87            8.40       0.000000000
## 1381             0.00            0.00       0.000000000
## 1383             0.23            4.60       0.100000000
## 1384             0.00            0.00       0.000000000
## 1385             3.72           18.00       0.008048896
## 1386             0.00            0.00       0.000000000
## 1387             0.00            0.00       0.000000000
## 1388             0.00            0.00       0.008048896
## 1389             0.00            0.00       0.000000000
## 1390             0.00            0.00       0.000000000
## 1391             0.00            0.00       0.008048896
## 1392             0.00            0.00       0.008048896
## 1394             0.00            0.00       0.008048896
## 1396             0.24            5.00       0.000000000
## 1398             0.00            0.00       0.000000000
## 1400             0.20            4.40       0.008048896
## 1401             0.59           10.00       0.000000000
## 1402             2.93            8.30       0.000000000
## 1403             0.00            0.00       0.000000000
```

```
## 1404                    0.00            0.00        0.000000000
## 1405                    0.00            0.00        0.000000000
## 1406                    0.15            0.00        0.008048896
## 1407                    2.71            7.90        0.000000000
## 1408                    3.42           13.60        0.008048896
## 1409                    0.00            0.00        0.000000000
## 1411                    0.00            0.00        0.000000000
## 1413                    0.00            0.00        0.000000000
## 1414                    0.23            5.90        0.008048896
## 1415                    0.00            0.00        0.000000000
## 1416                    0.00            0.00        0.008048896
## 1417                    0.85           11.91        0.000000000
## 1418                    0.00            0.00        0.000000000
## 1419                    0.00            0.00        0.008048896
## 1420                    0.00            0.00        0.000000000
## 1421                    0.00            0.00        0.008048896
## 1422                    0.00            0.00        0.000000000
## 1423                    0.00            0.00        0.008048896
## 1424                    0.00            0.00        0.000000000
## 1425                    0.00            0.00        0.008048896
## 1426                    2.28            6.30        0.000000000
## 1427                    0.64            8.00        0.008048896
## 1429                    0.00            0.00        0.008048896
## 1430                    0.24            4.90        0.000000000
## 1431                    0.00            0.00        0.000000000
## 1432                    0.33            4.40        0.100000000
## 1433                    0.81           12.72        0.008048896
## 1434                    0.00            0.00        0.008048896
## 1435                    2.30            9.60        0.008048896
## 1437                    0.00            0.00        0.000000000
## 1438                    0.00            0.00        0.000000000
## 1439                    0.22            5.60        0.000000000
## 1440                    0.88           11.50        0.000000000
## 1441                    0.00            0.00        0.008048896
## 1442                    0.20            4.50        0.008048896
## 1443                    0.00            0.00        0.008048896
## 1446                    0.00            0.00        0.000000000
## 1447                    0.00            0.00        0.000000000
## 1449                    2.86            9.10        0.000000000
## 1450                    2.95            8.60        0.008048896
## 1452                    0.89           12.98        0.008048896
## 1453                    0.00            0.00        0.000000000
## 1454                    0.00            0.00        0.000000000
## 1455                    0.00            0.00        0.000000000
## 1457                    0.00            0.00        0.000000000
## 1458                    0.24            4.60        0.008048896
## 1459                    0.00            0.00        0.000000000
## 1460                    2.34           17.10        0.008048896
## 1461                    0.28            5.10        0.070000000
## 1462                    4.79            0.49        0.008048896
## 1463                    2.87            9.30        0.000000000
## 1464                    0.00            0.00        0.008048896
## 1465                    0.00            0.00        0.008048896
## 1466                    0.00            0.00        0.000000000
```

```
## 1467             0.00          0.00       0.000000000
## 1468             0.89         11.90       0.008048896
## 1469             1.48         19.90       0.008048896
## 1470             0.00          0.00       0.008048896
## 1471             0.00          0.00       0.000000000
## 1472             0.00          0.00       0.000000000
## 1473             0.00          0.00       0.000000000
## 1475             0.00          0.00       0.000000000
## 1477             0.24          4.70       0.060000000
## 1478             2.65          8.20       0.008048896
## 1479             0.00          0.00       0.008048896
## 1481             0.00          0.00       0.000000000
## 1482             0.00          0.00       0.000000000
## 1483             0.00          0.00       0.008048896
## 1484             0.00          0.00       0.008048896
## 1486             0.00          0.00       0.008048896
## 1488             0.00          0.00       0.000000000
## 1489             0.00          0.00       0.000000000
## 1490             0.22          5.30       0.000000000
## 1491             0.05          0.00       0.008048896
## 1492             2.20         12.30       0.008048896
## 1493             0.00          0.00       0.000000000
## 1494             0.19          4.40       0.008048896
## 1495             0.00          0.00       0.008048896
## 1496             0.80          8.90       0.045000000
## 1497             5.79          0.30       0.000000000
## 1498             0.00          0.00       0.008048896
## 1499             0.00          0.00       0.008048896
## 1500             0.00          0.00       0.008048896
## 1501             0.31          4.70       0.008048896
## 1502             0.26          4.60       0.080000000
## 1504             2.82         10.46       0.000000000
## 1505             3.20          8.70       0.000000000
## 1507             0.00          0.00       0.008048896
## 1508             1.41         13.30       0.008048896
## 1509             0.00          0.00       0.000000000
## 1510             0.00          0.00       0.000000000
## 1512             0.00          0.00       0.000000000
## 1513             1.35         12.30       0.008048896
## 1514             0.00          0.00       0.000000000
## 1516             0.00          0.00       0.000000000
## 1517             0.00          0.00       0.008048896
## 1518             0.00          0.00       0.008048896
## 1519             0.09          0.00       0.008048896
## 1520             0.00          0.00       0.000000000
## 1521             0.00          0.00       0.000000000
## 1522             0.00          0.00       0.008048896
## 1524             1.02         10.30       0.008048896
## 1526             0.95         46.50       0.100000000
## 1529             0.00          0.00       0.000000000
## 1530             0.75         10.60       0.000000000
## 1531             0.00          0.00       0.000000000
## 1532             0.00          0.00       0.000000000
## 1533             0.00          0.00       0.008048896
```

```
## 1534              0.00             0.00       0.008048896
## 1535              0.00             0.00       0.008048896
## 1536              0.00             0.00       0.008048896
## 1537              0.00             0.00       0.008048896
## 1539              0.00             0.00       0.008048896
## 1540              0.00             0.00       0.000000000
## 1541              0.00             0.00       0.000000000
## 1543              0.00             0.00       0.000000000
## 1545              0.00             0.00       0.000000000
## 1546              0.32             5.70       0.008048896
## 1548              0.25             4.80       0.070000000
## 1549              0.00             0.00       0.000000000
## 1550              0.00             0.00       0.008048896
## 1551              1.45            21.90       0.294000000
## 1552              3.28             8.80       0.000000000
## 1553              1.08            14.80       0.000000000
## 1554              0.00             0.00       0.000000000
## 1556              1.14            10.40       0.008048896
## 1557              0.00             0.00       0.000000000
## 1558              0.00             0.00       0.008048896
## 1561              0.00             0.00       0.000000000
## 1562              0.95            11.00       0.008048896
## 1563              0.00             0.00       0.000000000
## 1564              0.00             0.00       0.000000000
## 1565              0.00             0.00       0.000000000
## 1566              0.00             0.00       0.000000000
## 1567              0.50             9.40       0.008048896
## 1568              0.21             4.70       0.008048896
## 1569              0.00             0.00       0.000000000
## 1570              0.00             0.00       0.008048896
## 1571              0.00             0.00       0.000000000
## 1572              0.00             0.00       0.008048896
## 1573              0.32             4.80       0.008048896
## 1574              0.00             0.00       0.008048896
## 1575              0.00             0.00       0.008048896
## 1576              0.00             0.00       0.000000000
## 1579              0.19             4.40       0.060000000
## 1581              0.33             4.90       0.008048896
## 1582              0.00             0.00       0.000000000
## 1584              0.00             0.00       0.000000000
## 1585              0.00             0.00       0.008048896
## 1586              0.23             5.00       0.000000000
## 1587              0.95            11.20       0.008048896
## 1588              0.00             0.00       0.000000000
## 1589              0.45             9.20       0.008048896
## 1590              0.00             0.00       0.000000000
## 1591              0.00             0.00       0.000000000
## 1594              0.00             0.00       0.000000000
## 1595              0.00             0.00       0.000000000
## 1596              0.00             0.00       0.000000000
## 1598              0.00             0.00       0.000000000
## 1599              2.40            46.00       0.008048896
## 1600              0.00             0.00       0.000000000
## 1601              3.70             8.50       0.000000000
```

```
## 1602          2.95          8.90          0.000000000
## 1604          0.24          4.30          0.000000000
## 1605          0.00          0.00          0.008048896
## 1607          0.31          6.00          0.008048896
## 1608          0.89         13.50          0.000000000
## 1610          0.47          8.20          0.008048896
## 1611          0.00          0.00          0.000000000
## 1613          0.00          0.00          0.008048896
## 1614          0.24          4.10          0.000000000
## 1615          0.00          0.00          0.008048896
## 1616          4.42          9.50          0.008048896
## 1617          0.00          0.00          0.000000000
## 1618          0.20          4.60          0.008048896
## 1619          0.00          0.00          0.000000000
## 1621          1.39         12.10          0.000000000
## 1622          0.00          0.00          0.008048896
## 1623          0.00          0.00          0.008048896
## 1625          0.90          8.50          0.008048896
## 1626          0.00          0.00          0.000000000
## 1629          0.28          5.20          0.008048896
## 1630          1.72          9.60          0.008048896
## 1631          0.65         13.00          0.008048896
## 1632          0.86          7.60          0.008048896
## 1633          0.00          0.00          0.000000000
## 1634          0.00          0.00          0.000000000
## 1635          0.22          4.40          0.000000000
## 1638          3.50          8.30          0.062000000
## 1639          3.13          8.80          0.000000000
## 1640          0.00          0.00          0.008048896
## 1641          3.14         10.80          0.008048896
## 1642          0.05          0.00          0.008048896
## 1645          0.22          4.10          0.008048896
## 1646          0.24          5.40          0.008048896
## 1647          0.00          0.00          0.000000000
## 1648          2.59          7.90          0.150000000
## 1649          3.70          8.50          0.000000000
## 1650          1.06         13.30          0.000000000
## 1651          2.50         34.90          0.000000000
## 1652          0.00          0.00          0.000000000
## 1655          0.64         12.10          0.008048896
## 1656          0.89         12.80          0.008048896
## 1657          0.00          0.00          0.000000000
## 1658          0.00          0.00          0.000000000
## 1659          0.60         11.10          0.008048896
## 1660          0.82         12.30          0.000000000
## 1663          0.25          5.50          0.008048896
## 1664          0.28          6.90          0.008048896
## 1671          0.68         11.20          0.008048896
## 1672          0.00          0.00          0.008048896
## 1673          0.28          5.00          0.000000000
## 1674          0.45         12.00          0.008048896
## 1675          0.32          4.60          0.071000000
## 1676          1.11         11.00          0.008048896
## 1677          0.26          4.50          0.070000000
```

```
## 1681          0.25           5.70         0.008048896
## 1682          0.00           0.00         0.000000000
## 1683          0.00           0.00         0.000000000
## 1685          0.00           0.00         0.000000000
## 1687          0.00           0.00         0.008048896
## 1689          0.00           0.00         0.008048896
## 1690          0.00           0.00         0.000000000
## 1692          3.18           8.90         0.080000000
## 1693          0.00           0.00         0.000000000
## 1695          0.00           0.00         0.000000000
## 1697          0.00           0.00         0.008048896
## 1698          0.00           0.00         0.008048896
## 1701          0.00           0.00         0.008048896
## 1702          0.80          14.00         0.008048896
## 1704          1.43          13.60         0.008048896
## 1705          2.35           8.80         0.000000000
## 1707          0.00           0.00         0.008048896
## 1708          0.00           0.00         0.000000000
## 1710          0.00           0.00         0.000000000
## 1711          0.39           6.10         0.090000000
## 1712          0.00           0.00         0.000000000
## 1713          0.00           0.00         0.000000000
## 1714          0.00           0.00         0.000000000
## 1715          3.31           9.40         0.008048896
## 1717          0.00           0.00         0.008048896
## 1718          2.74           8.40         0.008048896
## 1719          0.00           0.00         0.000000000
## 1720          0.00           0.00         0.008048896
## 1721          0.00           0.00         0.000000000
## 1722          0.00           0.00         0.008048896
## 1723          0.00           0.00         0.000000000
## 1726          2.67           8.90         0.008048896
## 1727          0.00           0.00         0.000000000
## 1728          0.96          11.10         0.008048896
## 1730          0.00           0.00         0.000000000
## 1731          0.00           0.00         0.000000000
## 1732          0.90           7.80         0.000000000
## 1733          0.00           0.00         0.000000000
## 1734          0.87          12.50         0.008048896
## 1735          2.78          44.50         0.000000000
## 1736          0.72          11.00         0.008048896
## 1739          0.00           0.00         0.000000000
## 1741          0.00           0.00         0.008048896
## 1742          0.00           0.00         0.000000000
## 1743          0.20           5.10         0.008048896
## 1744          0.00           0.00         0.008048896
## 1745          2.58           8.30         0.100000000
## 1746          1.54          11.80         0.008048896
## 1747          0.28           5.00         0.051000000
## 1748          0.00           0.00         0.000000000
## 1749          0.00           0.00         0.000000000
## 1750          0.00           0.00         0.000000000
## 1751          0.00           0.00         0.000000000
## 1752          0.00           0.00         0.008048896
```

```
## 1753                5.32               40.60            0.000000000
## 1755                0.00                0.00            0.000000000
## 1756                1.28               34.80            0.000000000
## 1759                1.09                8.84            0.000000000
## 1760                0.00                0.00            0.000000000
## 1761                0.99               10.55            0.000000000
## 1762                0.00                0.00            0.000000000
## 1764                0.00                0.00            0.008048896
## 1765                0.00                0.00            0.000000000
## 1766                0.00                0.00            0.008048896
## 1767                0.00                0.00            0.008048896
## 1768                0.00                0.00            0.008048896
## 1771                0.00                0.00            0.008048896
## 1772                3.43               10.60            0.008048896
## 1773                0.00                0.00            0.000000000
## 1774                0.00                0.00            0.000000000
## 1776                0.00                0.00            0.000000000
## 1777                3.98                0.50            0.000000000
## 1778                1.33               11.10            0.008048896
## 1780                3.09                7.70            0.008048896
## 1781                0.00                0.00            0.008048896
## 1782                1.35                6.60            0.000000000
## 1783                0.00                0.00            0.000000000
## 1784                0.00                0.00            0.000000000
## 1785                0.00                0.00            0.000000000
## 1786                0.00                0.00            0.000000000
## 1788                0.30                5.00            0.008048896
## 1789                0.00                0.00            0.000000000
## 1792                0.00                0.00            0.000000000
## 1793                1.12               12.00            0.008048896
## 1794                0.00                0.00            0.008048896
## 1795                0.00                0.00            0.000000000
## 1796                0.00                0.00            0.008048896
## 1798                0.00                0.00            0.008048896
## 1800                0.00                0.00            0.000000000
## 1805                0.23                4.60            0.008048896
## 1806                0.00                0.00            0.008048896
## 1807                0.00                0.00            0.000000000
## 1808                0.93                6.00            0.008048896
## 1809                0.00                0.00            0.000000000
## 1810                0.21                4.40            0.000000000
## 1811                0.00                0.00            0.000000000
## 1812                0.00                0.00            0.008048896
## 1814                0.00                0.00            0.000000000
## 1815                0.00                0.00            0.008048896
## 1816                0.00                0.00            0.000000000
## 1817                4.67                9.20            0.000000000
## 1820                0.00                0.00            0.008048896
## 1822                0.27                4.60            0.008048896
## 1826                0.00                0.00            0.000000000
## 1827                0.00                0.00            0.000000000
## 1828                0.00                0.00            0.000000000
## 1829                0.00                0.00            0.000000000
## 1833                0.32                4.60            0.008048896
```

```
## 1834                  0.00         0.00      0.000000000
## 1835                  0.00         0.00      0.008048896
## 1836                  0.00         0.00      0.000000000
## 1837                  0.00         0.00      0.008048896
## 1838                  0.00         0.00      0.008048896
## 1839                  0.36         5.00      0.008048896
## 1840                  0.00         0.00      0.000000000
## 1841                  0.50         0.00      0.008048896
## 1842                  1.47        14.00      0.008048896
## 1845                  1.79         7.00      0.008048896
## 1846                  0.00         0.00      0.008048896
## 1849                  0.00         0.00      0.000000000
## 1850                  0.00         0.00      0.008048896
## 1851                  0.00         0.00      0.008048896
## 1853                  0.00         0.00      0.000000000
## 1854                  2.98         8.30      0.008048896
## 1855                  0.00         0.00      0.000000000
## 1856                  0.00         0.00      0.000000000
## 1858                  0.52         8.80      0.000000000
## 1860                  0.20         5.30      0.000000000
## 1861                  0.00         0.00      0.000000000
## 1862                  0.00         0.00      0.000000000
## 1863                  0.00         0.00      0.008048896
## 1867                  0.00         0.00      0.000000000
## 1868                  2.92         9.20      0.000000000
## 1870                  2.59         9.40      0.000000000
## 1871                  0.00         0.00      0.008048896
## 1872                  0.00         0.00      0.000000000
## 1873                  0.00         0.00      0.000000000
## 1874                  0.00         0.00      0.008048896
## 1875                  0.88        13.00      0.000000000
## 1876                  1.74         7.20      0.008048896
## 1877                  0.00         0.00      0.008048896
## 1880                  0.00         0.00      0.000000000
## 1881                  0.00         0.00      0.008048896
## 1882                  0.00         0.00      0.000000000
## 1883                  0.54        10.95      0.008048896
## 1884                  0.00         0.00      0.000000000
## 1885                  1.13         9.10      0.008048896
## 1886                  0.00         0.00      0.000000000
## 1888                  0.00         0.00      0.000000000
## 1890                  0.00         0.00      0.008048896
## 1893                  0.00         0.00      0.008048896
## 1895                  0.40         5.80      0.008048896
## 1897                  0.00         0.00      0.000000000
## 1898                  0.92        11.90      0.000000000
## 1899                  0.00         0.00      0.000000000
## 1900                  0.00         0.00      0.000000000
## 1901                  0.00         0.00      0.000000000
## 1903                  0.00         0.00      0.008048896
## 1904                  0.00         0.00      0.000000000
## 1906                  0.00         0.00      0.000000000
## 1907                  0.84        11.20      0.008048896
## 1908                  0.78         9.50      0.008048896
```

```
## 1909                2.00            9.30          0.008048896
## 1910                0.00            0.00          0.000000000
## 1911                0.00            0.00          0.008048896
## 1912                0.00            0.00          0.000000000
## 1913                0.25            4.60          0.008048896
## 1915                0.00            0.00          0.008048896
## 1916                0.00            0.00          0.000000000
## 1917                0.60           50.90          0.008048896
## 1919                0.00            0.00          0.000000000
## 1922                0.00            0.00          0.000000000
## 1924                0.00            0.00          0.000000000
## 1926                0.00            0.00          0.008048896
## 1927                0.00            0.00          0.000000000
## 1928                0.00            0.00          0.000000000
## 1929                2.92            9.00          0.000000000
## 1930                0.00            0.00          0.000000000
## 1931                0.00            0.00          0.008048896
## 1932                0.00            0.00          0.008048896
## 1933                0.00            0.00          0.008048896
## 1934                2.28           16.10          0.008048896
## 1935                0.00            0.00          0.000000000
## 1936                0.00            0.00          0.000000000
## 1937                0.00            0.00          0.000000000
## 1938                0.65           13.31          0.008048896
## 1939                1.24            9.90          0.008048896
## 1940                0.37            4.80          0.008048896
## 1941                0.00            0.00          0.000000000
## 1943                0.69           11.70          0.008048896
## 1944                0.00            0.00          0.000000000
## 1945                0.00            0.00          0.000000000
## 1946                0.00            0.00          0.008048896
## 1947                0.00            0.00          0.000000000
## 1948                1.07           10.70          0.008048896
## 1950                0.00            0.00          0.008048896
## 1951                0.21            4.50          0.008048896
## 1953                3.35            9.50          0.008048896
## 1954                0.00            0.00          0.008048896
## 1955                2.21            8.80          0.008048896
## 1957                0.00            0.00          0.008048896
## 1958                0.00            0.00          0.008048896
## 1959                0.18            4.50          0.008048896
## 1960                0.00            0.00          0.000000000
## 1961                0.00            0.00          0.000000000
## 1963                1.03            9.86          0.008048896
## 1964                3.52           13.40          0.008048896
## 1966                0.04            0.00          0.008048896
## 1967                0.80           12.01          0.000000000
## 1968                0.00            0.00          0.008048896
## 1969                0.00            0.00          0.008048896
## 1970                0.00            0.00          0.000000000
## 1971                0.00            0.00          0.008048896
## 1972                0.20            4.60          0.008048896
## 1973                0.00            0.00          0.000000000
## 1975                2.28            8.50          0.000000000
```

```
## 1976            2.48           7.60           0.130000000
## 1977            0.00           0.00           0.008048896
## 1978            0.00           0.00           0.008048896
## 1979            1.50           9.80           0.008048896
## 1980            0.00           0.00           0.000000000
## 1982            0.18           4.40           0.000000000
## 1983            3.20          14.00           0.008048896
## 1985            0.00           0.00           0.000000000
## 1986            3.04           8.60           0.000000000
## 1987            0.39           0.00           0.008048896
## 1989            0.00           0.00           0.000000000
## 1990            0.00           0.00           0.008048896
## 1991            0.12           0.00           0.008048896
## 1992            0.20           5.50           0.008048896
## 1993            0.20           0.00           0.008048896
## 1995            0.00           0.00           0.008048896
## 1996            0.47           8.00           0.008048896
## 2000            0.00           0.00           0.008048896
## 2002            2.28           6.80           0.008048896
## 2004            0.96           8.30           0.008048896
## 2006            0.33           5.40           0.008048896
## 2007            0.00           0.00           0.000000000
## 2008            2.74          12.40           0.000000000
## 2009            0.00           0.00           0.000000000
## 2011            0.20           0.00           0.008048896
## 2012            2.69           8.50           0.008048896
## 2014            0.00           0.00           0.000000000
## 2015            0.00           0.00           0.008048896
## 2016            0.00           0.00           0.008048896
## 2018            0.00           0.00           0.008048896
## 2019            0.22           5.20           0.008048896
## 2020            0.00           0.00           0.008048896
## 2021            0.38           5.00           0.008048896
## 2022            0.00           0.00           0.000000000
## 2023            0.00           0.00           0.008048896
## 2024            0.36           5.60           0.008048896
## 2025            0.00           0.00           0.000000000
## 2026            0.39           5.30           0.008048896
## 2027            0.00           0.00           0.008048896
## 2029            3.32           8.40           0.000000000
## 2030            2.71           6.80           0.008048896
## 2033            1.48          10.30           0.000000000
## 2036            0.00           0.00           0.000000000
## 2038            0.00           0.00           0.008048896
## 2039            0.19           0.00           0.008048896
## 2040            1.02           7.90           0.008048896
## 2041            0.00           0.00           0.008048896
## 2043            0.69           7.60           0.008048896
## 2045            1.46           8.30           0.000000000
## 2046            0.00           0.00           0.000000000
## 2048            0.00           0.00           0.000000000
## 2051            0.00           0.00           0.008048896
## 2052            0.00           0.00           0.000000000
## 2053            0.35           5.30           0.008048896
```

```
## 2055            0.00            0.00        0.000000000
## 2056            4.66            9.70        0.008048896
## 2057            0.87            6.21        0.000000000
## 2058            0.00            0.00        0.000000000
## 2059            3.12            8.20        0.000000000
## 2061            0.00            0.00        0.008048896
## 2062            3.44            9.80        0.087000000
## 2063            0.00            0.00        0.008048896
## 2064            0.00            0.00        0.000000000
## 2065            0.00            0.00        0.000000000
## 2066            0.00            0.00        0.008048896
## 2067            0.00            0.00        0.000000000
## 2068            0.35            5.80        0.000000000
## 2069            0.27            5.70        0.056000000
## 2070            0.32            3.90        0.000000000
## 2071            0.67           12.10        0.008048896
## 2072            0.00            0.00        0.000000000
## 2073            0.36            5.80        0.008048896
## 2074            0.00            0.00        0.008048896
## 2076            0.00            0.00        0.008048896
## 2077            0.00            0.00        0.000000000
## 2078            0.00            0.00        0.000000000
## 2080            0.00            0.00        0.008048896
## 2083            0.66           12.10        0.008048896
## 2084            0.30            5.80        0.000000000
## 2085            0.00            0.00        0.000000000
## 2086            2.56           18.20        0.008048896
## 2087            1.50            6.20        0.008048896
## 2088            0.00            0.00        0.000000000
## 2089            0.00            0.00        0.000000000
## 2091            0.83            7.20        0.008048896
## 2092            0.24            4.60        0.008048896
## 2093            0.00            0.00        0.000000000
## 2095            0.00            0.00        0.008048896
## 2096            0.00            0.00        0.008048896
## 2098            0.32            5.00        0.000000000
## 2099            0.00            0.00        0.000000000
## 2100            0.00            0.00        0.008048896
## 2101            0.00            0.00        0.000000000
## 2105            3.02            8.10        0.000000000
## 2106            0.00            0.00        0.008048896
## 2109            1.58            7.60        0.008048896
## 2111            0.00            0.00        0.008048896
## 2112            0.00            0.00        0.000000000
## 2114            0.00            0.00        0.008048896
## 2115            0.00            0.00        0.008048896
## 2116            0.00            0.00        0.000000000
## 2117            0.00            0.00        0.000000000
## 2119            0.00            0.00        0.008048896
## 2121            2.37            7.80        0.130000000
## 2122            0.30            5.90        0.100000000
## 2123            0.00            0.00        0.008048896
## 2125            4.50           10.90        0.008048896
## 2127            0.00            0.00        0.008048896
```

```
## 2128         0.00         0.00         0.000000000
## 2129         3.24        18.10         0.008048896
## 2130         0.00         0.00         0.008048896
## 2131         0.53         9.30         0.008048896
## 2132         0.00         0.00         0.000000000
## 2133         0.00         0.00         0.000000000
## 2135         5.00         1.50         0.008048896
## 2136         0.00         0.00         0.000000000
## 2137         2.79        38.60         0.000000000
## 2139         0.00         0.00         0.008048896
## 2140         0.00         0.00         0.000000000
## 2141         0.00         0.00         0.000000000
## 2143         3.81         9.20         0.008048896
## 2146         0.43         8.70         0.000000000
## 2147         0.00         0.00         0.008048896
## 2148         0.00         0.00         0.008048896
## 2149         0.00         0.00         0.000000000
## 2150         0.00         0.00         0.000000000
## 2151         0.00         0.00         0.008048896
## 2153         2.44         8.20         0.008048896
## 2154         0.00         0.00         0.000000000
## 2155         0.20         5.10         0.000000000
## 2159         0.13         0.00         0.008048896
## 2160         0.00         0.00         0.000000000
## 2162         0.00         0.00         0.000000000
## 2163         0.00         0.00         0.008048896
## 2164         0.00         0.00         0.000000000
## 2165         0.00         0.00         0.008048896
## 2166         0.29         5.30         0.008048896
## 2167         3.54        13.20         0.008048896
## 2168         0.00         0.00         0.000000000
## 2169         0.00         0.00         0.008048896
## 2170         0.21         5.00         0.008048896
## 2171         0.00         0.00         0.008048896
## 2172         0.00         0.00         0.000000000
## 2174         2.62         9.60         0.008048896
## 2175         0.50         0.00         0.008048896
## 2176         0.00         0.00         0.008048896
## 2177         0.00         0.00         0.000000000
## 2178         0.00         0.00         0.008048896
## 2182         0.00         0.00         0.000000000
## 2183         0.00         0.00         0.000000000
## 2184         0.00         0.00         0.000000000
## 2186         0.00         0.00         0.008048896
## 2187         0.46         7.50         0.000000000
## 2190         3.50         8.80         0.000000000
## 2192         0.00         0.00         0.000000000
## 2193         0.00         0.00         0.000000000
## 2194         0.50         0.00         0.000000000
## 2196         0.00         0.00         0.008048896
## 2197         0.00         0.00         0.000000000
## 2198         0.00         0.00         0.000000000
## 2199         0.92         8.70         0.000000000
## 2200         0.21         5.60         0.058000000
```

```
## 2202              0.00          0.00      0.008048896
## 2203              0.24          6.10      0.000000000
## 2204              0.00          0.00      0.000000000
## 2205              1.21          8.50      0.008048896
## 2206              0.00          0.00      0.000000000
## 2207              0.47          9.30      0.008048896
## 2208              2.94          8.70      0.000000000
## 2209              0.37          5.90      0.000000000
## 2210              0.17          4.60      0.008048896
## 2211              0.00          0.00      0.000000000
## 2212              0.00          0.00      0.000000000
## 2213              0.00          0.00      0.000000000
## 2214              0.25          4.90      0.008048896
## 2216              0.47          5.50      0.008048896
## 2217              0.40          0.00      0.008048896
## 2218              0.26          4.70      0.008048896
## 2219              0.00          0.00      0.000000000
## 2220              0.60         59.20      0.008048896
## 2222              0.00          0.00      0.000000000
## 2223              0.00          0.00      0.000000000
## 2224              0.00          0.00      0.000000000
## 2225              3.00          7.90      0.008048896
## 2226              0.00          0.00      0.000000000
## 2229              0.00          0.00      0.008048896
## 2230              0.00          0.00      0.008048896
## 2231              0.00          0.00      0.000000000
## 2232              3.06          7.60      0.100000000
## 2233              0.00          0.00      0.008048896
## 2235              2.37          9.70      0.000000000
## 2236              0.31          5.30      0.000000000
## 2237              2.40          8.20      0.008048896
## 2238              0.49          7.70      0.008048896
## 2239              0.00          0.00      0.008048896
## 2240              1.31          7.00      0.000000000
## 2241              0.00          0.00      0.008048896
## 2242              0.81         10.20      0.008048896
## 2243              0.00          0.00      0.000000000
## 2245              0.00          0.00      0.000000000
## 2246              0.00          0.00      0.000000000
## 2247              0.00          0.00      0.000000000
## 2248              0.01          0.00      0.008048896
## 2249              0.00          0.00      0.000000000
## 2250              0.00          0.00      0.000000000
## 2251              0.00          0.00      0.008048896
## 2252              0.38          5.70      0.008048896
## 2253              0.00          0.00      0.000000000
## 2254              0.00          0.00      0.008048896
## 2257              0.00          0.00      0.008048896
## 2258              0.90         12.61      0.000000000
## 2259              0.00          0.00      0.000000000
## 2261              0.00          0.00      0.000000000
## 2262              0.00          0.00      0.000000000
## 2264              0.67         10.42      0.008048896
## 2265              0.00          0.00      0.000000000
```

```
## 2266                0.00           0.00        0.008048896
## 2267                0.63          13.50        0.008048896
## 2268                2.19          12.50        0.008048896
## 2270                0.00           0.00        0.008048896
## 2271                0.00           0.00        0.008048896
## 2272                0.00           0.00        0.008048896
## 2276                0.00           0.00        0.008048896
## 2277                0.00           0.00        0.008048896
## 2278                3.11           9.80        0.008048896
## 2279                0.00           0.00        0.000000000
## 2280                0.00           0.00        0.008048896
## 2281                0.00           0.00        0.008048896
## 2282                0.00           0.00        0.000000000
## 2283                0.00           0.00        0.000000000
## 2285                2.13           6.60        0.008048896
## 2286                0.92          11.11        0.008048896
## 2288                2.82           8.20        0.000000000
## 2289                0.00           0.00        0.000000000
## 2290                0.00           0.00        0.000000000
## 2293                0.19           4.80        0.008048896
## 2294                0.00           0.00        0.000000000
## 2295                0.35           5.30        0.056000000
## 2296                3.50          11.60        0.008048896
## 2297                0.00           0.00        0.000000000
## 2298                3.17           8.60        0.008048896
## 2302                0.00           0.00        0.000000000
## 2303                0.00           0.00        0.000000000
## 2304                0.00           0.00        0.008048896
## 2305                0.00           0.00        0.000000000
## 2306                3.20           8.70        0.000000000
## 2308                0.00           0.00        0.008048896
## 2309                2.82           8.80        0.000000000
## 2311                0.00           0.00        0.000000000
## 2312                2.98          19.00        0.008048896
## 2313                0.00           0.00        0.000000000
## 2314                0.00           0.00        0.008048896
## 2315                1.05          11.80        0.008048896
## 2317                0.00           0.00        0.000000000
## 2318                0.00           0.00        0.000000000
## 2320                2.98           7.90        0.000000000
## 2321                3.20           8.80        0.000000000
## 2322                0.00           0.00        0.000000000
## 2323                0.00           0.00        0.000000000
## 2324                0.35           9.50        0.008048896
## 2325                3.08           8.20        0.008048896
## 2326                0.00           0.00        0.008048896
## 2327                0.00           0.00        0.000000000
## 2328                2.38           7.90        0.000000000
## 2329                2.88           9.30        0.008048896
## 2331                0.26           4.60        0.000000000
## 2332                0.00           0.00        0.000000000
## 2333                0.00           0.00        0.008048896
## 2334                0.31           4.80        0.000000000
## 2335                0.00           0.00        0.000000000
```

```
## 2337              0.00          0.00          0.008048896
## 2338              0.00          0.00          0.008048896
## 2339              0.00          0.00          0.008048896
## 2340              3.08          9.10          0.008048896
## 2342              0.00          0.00          0.008048896
## 2343              0.00          0.00          0.000000000
## 2346              0.00          0.00          0.008048896
## 2347              1.01          9.70          0.008048896
## 2348              0.00          0.00          0.000000000
## 2350              0.00          0.00          0.008048896
## 2351              0.00          0.00          0.000000000
## 2352              0.00          0.00          0.000000000
## 2353              0.24          5.20          0.120000000
## 2354              0.00          0.00          0.008048896
## 2355              0.40          5.10          0.008048896
## 2356              0.00          0.00          0.000000000
## 2357              0.00          0.00          0.008048896
## 2358              0.28          5.00          0.008048896
## 2361              3.20         13.80          0.008048896
## 2362              0.00          0.00          0.008048896
## 2363              0.00          0.00          0.008048896
## 2364              2.10          0.00          0.008048896
## 2365              0.00          0.00          0.008048896
## 2366              1.06         11.70          0.008048896
## 2368              0.00          0.00          0.008048896
## 2369              3.43         13.73          0.000000000
## 2370              0.00          0.00          0.008048896
## 2371              3.04          8.30          0.008048896
## 2372              0.00          0.00          0.000000000
## 2373              1.48          7.10          0.008048896
## 2374              0.00          0.00          0.000000000
## 2375              0.00          0.00          0.000000000
## 2376              0.00          0.00          0.008048896
## 2378              0.00          0.00          0.008048896
## 2379              0.00          0.00          0.000000000
## 2381              0.00          0.00          0.000000000
## 2383              0.20          0.00          0.008048896
## 2384              0.00          0.00          0.008048896
## 2387              0.00          0.00          0.008048896
## 2389              2.10          0.00          0.000000000
## 2390              0.00          0.00          0.008048896
## 2391              0.00          0.00          0.000000000
## 2392              0.00          0.00          0.000000000
## 2393              0.00          0.00          0.008048896
## 2394              0.30          5.10          0.008048896
## 2395              0.00          0.00          0.000000000
## 2396              0.00          0.00          0.000000000
## 2398              2.45          8.20          0.000000000
## 2400              0.07          0.00          0.008048896
## 2401              0.00          0.00          0.008048896
## 2402              2.52          7.50          0.000000000
## 2403              3.05          7.00          0.000000000
## 2404              0.95         11.50          0.008048896
## 2405              2.88          8.70          0.000000000
```

```
## 2407         3.31            8.60        0.100000000
## 2408         0.00            0.00        0.008048896
## 2409         0.35            4.20        0.008048896
## 2410         0.00            0.00        0.008048896
## 2411         0.00            0.00        0.000000000
## 2412         0.00            0.00        0.008048896
## 2413         0.24            5.60        0.060000000
## 2417         0.00            0.00        0.008048896
## 2418         0.00            0.00        0.008048896
## 2419         0.00            0.00        0.000000000
## 2420         0.27            5.00        0.000000000
## 2421         4.68            9.15        0.008048896
## 2424         0.00            0.00        0.008048896
## 2425         5.92            0.40        0.000000000
## 2427         0.00            0.00        0.000000000
## 2428         0.00            0.00        0.000000000
## 2430         1.10           10.40        0.008048896
## 2431         0.00            0.00        0.000000000
## 2432         0.00            0.00        0.008048896
## 2433         0.00            0.00        0.008048896
## 2434         0.00            0.00        0.000000000
## 2435         0.86            4.90        0.000000000
## 2436         0.00            0.00        0.008048896
## 2437         6.02            0.60        0.008048896
## 2439         0.00            0.00        0.008048896
## 2440         0.00            0.00        0.000000000
## 2441         0.00            0.00        0.000000000
## 2444         0.00            0.00        0.008048896
## 2445         0.00            0.00        0.000000000
## 2446         0.00            0.00        0.000000000
## 2447         2.09           11.50        0.008048896
## 2448         2.30           31.10        0.008048896
## 2450         3.10            9.30        0.008048896
## 2451         0.00            0.00        0.000000000
## 2454         0.00            0.00        0.008048896
## 2455         0.00            0.00        0.000000000
## 2456         0.00            0.00        0.000000000
## 2457         0.00            0.00        0.000000000
## 2458         0.17            0.00        0.008048896
## 2459         0.00            0.00        0.000000000
## 2461         0.00            0.00        0.000000000
## 2462         0.00            0.00        0.008048896
## 2464         1.56            8.70        0.008048896
## 2465         0.22            5.20        0.008048896
## 2466         0.00            0.00        0.008048896
## 2467         0.20            4.20        0.000000000
## 2468         0.00            0.00        0.000000000
## 2472         0.00            0.00        0.008048896
## 2473         0.00            0.00        0.000000000
## 2474         0.65           16.10        0.008048896
## 2475         1.71            6.70        0.008048896
## 2476         0.00            0.00        0.000000000
## 2478         0.00            0.00        0.000000000
## 2479         1.39           11.10        0.008048896
```

```
## 2480             0.00            0.00        0.008048896
## 2481             3.39            8.60        0.000000000
## 2482             0.00            0.00        0.008048896
## 2485             0.01            0.00        0.008048896
## 2486             0.00            0.00        0.000000000
## 2490             0.00            0.00        0.008048896
## 2492             0.00            0.00        0.000000000
## 2493             0.00            0.00        0.008048896
## 2495             5.56            0.40        0.000000000
## 2496             1.76            7.41        0.008048896
## 2497             0.00            0.00        0.008048896
## 2498             0.00            0.00        0.000000000
## 2500             0.00            0.00        0.008048896
## 2503             0.00            0.00        0.000000000
## 2504             0.31           11.70        0.008048896
## 2505             0.25            4.90        0.000000000
## 2506             0.00            0.00        0.000000000
## 2507             0.40            6.00        0.008048896
## 2508             3.22           14.90        0.008048896
## 2509             0.29            5.60        0.008048896
## 2510             0.83           14.00        0.008048896
## 2511             0.00            0.00        0.008048896
## 2512             0.22            5.30        0.008048896
## 2513             0.25            5.00        0.008048896
## 2514             0.00            0.00        0.008048896
## 2516             3.36           14.10        0.000000000
## 2517             0.00            0.00        0.000000000
## 2519             2.75            8.60        0.000000000
## 2520             0.76           35.40        0.000000000
## 2522             1.32            6.30        0.000000000
## 2523             0.28            5.70        0.100000000
## 2524             0.86           11.98        0.008048896
## 2525             0.00            0.00        0.008048896
## 2526             0.00            0.00        0.008048896
## 2527             2.98            8.30        0.000000000
## 2528             0.00            0.00        0.000000000
## 2529             0.00            0.00        0.000000000
## 2530             0.00            0.00        0.000000000
## 2531             0.00            0.00        0.000000000
## 2533             0.00            0.00        0.000000000
## 2534             0.35            4.90        0.071000000
## 2537             0.00            0.00        0.000000000
## 2538             0.20            4.57        0.008048896
## 2539             0.00            0.00        0.000000000
## 2540             0.00            0.00        0.000000000
## 2541             0.00            0.00        0.000000000
## 2542             0.18            4.60        0.008048896
## 2543             0.35            5.50        0.000000000
## 2544             0.23            4.80        0.000000000
## 2546             0.00            0.00        0.000000000
## 2547             0.50           17.00        0.008048896
## 2548             0.00            0.00        0.000000000
## 2549             0.00            0.00        0.000000000
## 2553             0.00            0.00        0.000000000
```

```
## 2554                0.00             0.00          0.000000000
## 2555                0.00             0.00          0.000000000
## 2556                0.25             4.10          0.000000000
## 2558                0.00             0.00          0.000000000
## 2560                1.19            34.30          0.008048896
## 2561                0.00             0.00          0.000000000
## 2564                2.88             8.00          0.008048896
## 2565                0.87            13.52          0.008048896
## 2566                0.00             0.00          0.000000000
## 2567                1.47            19.20          0.000000000
## 2568                0.63            12.50          0.008048896
## 2570                0.00             0.00          0.008048896
## 2571                0.00             0.00          0.000000000
## 2572                3.35             7.00          0.008048896
## 2574                0.00             0.00          0.000000000
## 2575                2.89            12.00          0.008048896
## 2576                0.00             0.00          0.008048896
## 2577                0.83            11.29          0.000000000
## 2580                0.29             5.70          0.008048896
## 2584                0.00             0.00          0.008048896
## 2585                0.74            13.80          0.050000000
## 2586                0.00             0.00          0.000000000
## 2587                3.20            11.10          0.000000000
## 2588                0.90            13.20          0.000000000
## 2589                0.32             6.30          0.000000000
## 2590                0.00             0.00          0.000000000
## 2593                0.23             5.00          0.008048896
## 2594                0.00             0.00          0.000000000
## 2595                0.00             0.00          0.008048896
## 2596                0.00             0.00          0.000000000
## 2597                0.70             8.60          0.008048896
## 2598                0.00             0.00          0.000000000
## 2599                0.00             0.00          0.000000000
## 2600                0.73             8.20          0.000000000
## 2601                0.77            10.20          0.050000000
## 2602                0.00             0.00          0.000000000
## 2603                3.97            12.69          0.008048896
## 2605                0.75             9.00          0.008048896
## 2606                1.88            12.70          0.008048896
## 2607                0.00             0.00          0.008048896
## 2608                0.00             0.00          0.008048896
## 2609                0.00             0.00          0.008048896
## 2611                3.34            12.00          0.008048896
## 2612                0.00             0.00          0.000000000
## 2614                0.00             0.00          0.008048896
## 2615                4.08             9.20          0.008048896
## 2616                2.10            21.50          0.008048896
## 2617                0.00             0.00          0.000000000
## 2618                0.00             0.00          0.008048896
## 2619                1.32            12.40          0.000000000
## 2620                0.00             0.00          0.008048896
## 2621                0.00             0.00          0.000000000
## 2625                0.90             7.00          0.008048896
## 2626                0.22             4.00          0.008048896
```

```
## 2627               0.00          0.00      0.000000000
## 2628               1.83         34.00      0.450000000
## 2629               0.00          0.00      0.008048896
## 2630               1.06         10.50      0.008048896
## 2631               0.00          0.00      0.000000000
## 2632               0.00          0.00      0.008048896
## 2633               0.00          0.00      0.000000000
## 2634               3.00          9.40      0.008048896
## 2635               0.00          0.00      0.008048896
## 2636               3.09         17.00      0.008048896
## 2637               3.02          7.90      0.000000000
## 2639               0.00          0.00      0.000000000
## 2640               0.96         10.90      0.008048896
## 2641               2.06         45.80      0.008048896
## 2642               0.10          0.00      0.008048896
## 2644               0.00          0.00      0.008048896
## 2645               0.84         15.20      0.008048896
## 2646               0.00          0.00      0.000000000
## 2647               0.00          0.00      0.000000000
## 2648               0.98          5.70      0.000000000
## 2650               0.58         11.60      0.000000000
## 2651               0.00          0.00      0.008048896
## 2654               0.24          5.20      0.050000000
## 2655               3.75         11.20      0.008048896
## 2656               0.00          0.00      0.000000000
## 2659               0.00          0.00      0.008048896
## 2660               2.34         45.20      0.000000000
## 2661               0.00          0.00      0.008048896
## 2662               0.00          0.00      0.008048896
## 2663               0.00          0.00      0.008048896
## 2664               0.00          0.00      0.008048896
## 2666               0.00          0.00      0.000000000
## 2667               0.30          5.90      0.008048896
## 2668               0.00          0.00      0.000000000
## 2672               0.00          0.00      0.000000000
## 2673               0.00          0.00      0.000000000
## 2674               0.00          0.00      0.000000000
## 2675               0.03          0.00      0.008048896
## 2676               0.00          0.00      0.008048896
## 2677               0.00          0.00      0.008048896
## 2678               0.00          0.00      0.008048896
## 2679               0.00          0.00      0.008048896
## 2680               0.00          0.00      0.000000000
## 2682               1.68         12.50      0.000000000
## 2685               0.21          4.60      0.008048896
## 2689               0.05          0.00      0.008048896
## 2690               0.00          0.00      0.000000000
## 2691               0.00          0.00      0.000000000
## 2692               1.12         13.00      0.008048896
## 2693               3.10         10.30      0.000000000
## 2694               0.00          0.00      0.008048896
## 2695               0.00          0.00      0.000000000
## 2696               0.88         11.30      0.090000000
## 2697               0.00          0.00      0.000000000
```

```
## 2699            0.00        0.00        0.000000000
## 2700            2.06       12.40        0.008048896
## 2701            0.00        0.00        0.000000000
## 2702            0.00        0.00        0.000000000
## 2704            0.77       10.20        0.008048896
## 2705            0.00        0.00        0.000000000
## 2706            0.77       10.13        0.008048896
## 2707            0.00        0.00        0.000000000
## 2708            0.00        0.00        0.008048896
## 2709            3.02       19.70        0.500000000
## 2711            0.00        0.00        0.008048896
## 2712            0.00        0.00        0.000000000
## 2714            0.00        0.00        0.008048896
## 2715            0.50        0.00        0.008048896
## 2716            0.68        9.50        0.100000000
## 2717            0.00        0.00        0.000000000
## 2718            0.00        0.00        0.000000000
## 2719            0.19        4.30        0.000000000
## 2720            0.00        0.00        0.008048896
## 2721            0.00        0.00        0.008048896
## 2722            0.23        5.70        0.000000000
## 2723            0.00        0.00        0.000000000
## 2724            1.56        9.50        0.008048896
## 2725            3.50       10.20        0.000000000
## 2728            0.00        0.00        0.000000000
## 2729            0.54       40.20        0.008048896
## 2730            3.99       10.10        0.008048896
## 2731            0.00        0.00        0.000000000
## 2732            0.00        0.00        0.008048896
## 2733            0.00        0.00        0.000000000
## 2734            0.24        4.40        0.008048896
## 2735            0.00        0.00        0.008048896
## 2737            0.00        0.00        0.000000000
## 2739            1.62       12.00        0.008048896
## 2741            0.90        0.00        0.000000000
## 2742            0.00        0.00        0.008048896
## 2743            1.24       13.42        0.000000000
## 2745            2.80        8.90        0.000000000
## 2746            3.05        9.00        0.000000000
## 2747            2.53        8.30        0.008048896
## 2748            0.86        8.00        0.008048896
## 2749            0.33        5.50        0.008048896
## 2750            0.00        0.00        0.008048896
## 2751            0.69       10.00        0.008048896
## 2752            0.86       12.40        0.008048896
## 2753            0.00        0.00        0.000000000
## 2754            0.00        0.00        0.008048896
## 2757            0.00        0.00        0.008048896
## 2758            0.00        0.00        0.008048896
## 2759            0.19        0.00        0.008048896
## 2761            0.80        6.50        0.000000000
## 2762            0.30        5.00        0.008048896
## 2763            0.00        0.00        0.000000000
## 2765            0.00        0.00        0.000000000
```

```
## 2766                0.00            0.00        0.008048896
## 2767                0.00            0.00        0.008048896
## 2768                0.40            8.20        0.008048896
## 2769                0.00            0.00        0.000000000
## 2770                1.39            7.80        0.100000000
## 2771                0.00            0.00        0.000000000
## 2772                0.00            0.00        0.000000000
## 2775                2.14            7.50        0.000000000
## 2776                0.00            0.00        0.008048896
## 2779                0.00            0.00        0.000000000
## 2780                0.00            0.00        0.000000000
## 2781                2.60           15.50        0.360000000
## 2782                0.65            9.40        0.008048896
## 2783                0.23            3.94        0.008048896
## 2784                4.25            8.78        0.008048896
## 2785                0.00            0.00        0.000000000
## 2786                0.00            0.00        0.008048896
## 2787                0.00            0.00        0.000000000
## 2788                0.00            0.00        0.000000000
## 2789                0.00            0.00        0.000000000
## 2790                0.00            0.00        0.008048896
## 2791                0.00            0.00        0.008048896
## 2792                0.00            0.00        0.000000000
## 2793                0.00            0.00        0.008048896
## 2794                3.52           12.25        0.008048896
## 2796                0.30            5.00        0.008048896
## 2797                0.00            0.00        0.008048896
## 2798                0.16            0.00        0.008048896
## 2800                0.00            0.00        0.008048896
## 2801                2.40            8.90        0.008048896
## 2803                0.90           12.20        0.000000000
## 2805                0.00            0.00        0.000000000
## 2806                0.00            0.00        0.008048896
## 2807                0.00            0.00        0.008048896
## 2808                0.00            0.00        0.008048896
## 2810                1.02           11.60        0.008048896
## 2811                0.00            0.00        0.008048896
## 2814                0.01            0.00        0.008048896
## 2816                0.00            0.00        0.000000000
## 2818                3.88           17.70        0.008048896
## 2820                0.00            0.00        0.000000000
## 2821                0.00            0.00        0.000000000
## 2822                0.00            0.00        0.008048896
## 2823                0.23            4.60        0.008048896
## 2824                0.00            0.00        0.000000000
## 2825                0.24            4.20        0.000000000
## 2827                0.00            0.00        0.000000000
## 2828                0.00            0.00        0.008048896
## 2829                0.00            0.00        0.000000000
## 2830                0.02            0.00        0.008048896
## 2832                0.00            0.00        0.000000000
## 2833                0.23            4.20        0.000000000
## 2836                0.20            0.00        0.008048896
## 2838                0.00            0.00        0.000000000
```

```
## 2840            4.55            13.10           0.000000000
## 2841            0.00             0.00           0.008048896
## 2843            0.69             6.50           0.050000000
## 2844            0.78            13.28           0.008048896
## 2845            0.00             0.00           0.000000000
## 2846            0.00             0.00           0.000000000
## 2847            0.18             0.00           0.008048896
## 2848            0.00             0.00           0.000000000
## 2849            1.44            23.00           0.008048896
## 2850            0.29             4.90           0.008048896
## 2851            0.00             0.00           0.000000000
## 2852            0.00             0.00           0.000000000
## 2854            0.00             0.00           0.000000000
## 2855            0.00             0.00           0.008048896
## 2857            0.00             0.00           0.000000000
## 2859            0.67             7.10           0.008048896
## 2860            0.00             0.00           0.000000000
## 2864            0.00             0.00           0.008048896
## 2865            0.00             0.00           0.000000000
## 2866            0.00             0.00           0.000000000
## 2869            0.00             0.00           0.008048896
## 2870            0.33             5.70           0.008048896
## 2872            0.00             0.00           0.008048896
## 2873            1.04            16.50           0.000000000
## 2874            0.00             0.00           0.000000000
## 2875            0.32             5.30           0.000000000
## 2879            0.00             0.00           0.008048896
## 2880            2.66             8.20           0.000000000
## 2882            0.00             0.00           0.008048896
## 2884            0.65            12.10           0.000000000
## 2886            0.00             0.00           0.008048896
## 2887            0.00             0.00           0.000000000
## 2888            0.00             0.00           0.008048896
## 2889            0.00             0.00           0.008048896
## 2890            0.00             0.00           0.008048896
## 2891            0.00             0.00           0.000000000
## 2892            3.64            16.10           0.000000000
## 2893            0.00             0.00           0.000000000
## 2895            0.00             0.00           0.000000000
## 2896            0.04             0.00           0.008048896
## 2898            0.67            11.90           0.000000000
## 2899            0.19             4.60           0.008048896
## 2900            0.00             0.00           0.008048896
## 2902            0.00             0.00           0.000000000
## 2904            0.00             0.00           0.000000000
## 2905            0.00             0.00           0.000000000
## 2906            0.00             0.00           0.000000000
## 2907            0.00             0.00           0.000000000
## 2908            0.00             0.00           0.008048896
## 2909            1.68             7.40           0.008048896
## 2910            0.00             0.00           0.000000000
## 2912            0.00             0.00           0.000000000
## 2913            3.20             9.30           0.008048896
## 2914            0.00             0.00           0.000000000
```

```
## 2916              0.00              0.00       0.008048896
## 2917              0.00              0.00       0.008048896
## 2918              0.00              0.00       0.000000000
## 2919              0.20              4.40       0.008048896
## 2921              0.00              0.00       0.000000000
## 2922              0.00              0.00       0.008048896
## 2924              3.11              8.00       0.000000000
## 2925              0.00              0.00       0.008048896
## 2926              0.41              5.20       0.008048896
## 2927              1.76              7.41       0.008048896
## 2929              0.00              0.00       0.008048896
## 2930              0.00              0.00       0.000000000
## 2931              0.00              0.00       0.000000000
## 2932              0.00              0.00       0.008048896
## 2933              0.00              0.00       0.000000000
## 2934              0.00              0.00       0.000000000
## 2935              0.00              0.00       0.008048896
## 2936              0.00              0.00       0.000000000
## 2937              0.00              0.00       0.000000000
## 2938              0.00              0.00       0.000000000
## 2940              0.57             33.60       0.008048896
## 2942              0.00              0.00       0.008048896
## 2943              0.00              0.00       0.000000000
## 2944              2.28             14.10       0.008048896
## 2945              0.00              0.00       0.000000000
## 2946              0.39              7.50       0.008048896
## 2947              2.50              7.70       0.110000000
## 2948              1.24              0.00       0.008048896
## 2949              0.00              0.00       0.008048896
## 2951              0.00              0.00       0.000000000
## 2953              0.00              0.00       0.000000000
## 2954              0.00              0.00       0.000000000
## 2956              0.01              0.00       0.008048896
## 2957              0.74              7.00       0.008048896
## 2958              0.48              9.60       0.008048896
## 2959              0.00              0.00       0.000000000
## 2961              0.00              0.00       0.008048896
## 2962              0.00              0.00       0.000000000
## 2963              0.68             17.20       0.200000000
## 2967              0.00              0.00       0.000000000
## 2968              0.00              0.00       0.008048896
## 2970              0.01              0.00       0.008048896
## 2971              1.33             15.50       0.008048896
## 2972              0.59             10.70       0.008048896
## 2973              0.00              0.00       0.000000000
## 2974              0.27              5.10       0.000000000
## 2975              0.90             10.05       0.000000000
## 2976              0.69              7.10       0.000000000
## 2980              0.28              5.60       0.000000000
## 2982              0.00              0.00       0.008048896
## 2983              0.00              0.00       0.008048896
## 2984              0.00              0.00       0.008048896
## 2986              0.00              0.00       0.008048896
## 2987              0.76              7.90       0.008048896
```

```
## 2988            0.92          5.50         0.008048896
## 2990            0.00          0.00         0.008048896
## 2991            0.35          5.00         0.008048896
## 2992            0.21          4.60         0.100000000
## 2993            0.00          0.00         0.008048896
## 2994            0.00          0.00         0.008048896
## 2996            1.00          0.00         0.008048896
## 2998            0.00          0.00         0.008048896
## 2999            0.00          0.00         0.000000000
## 3001            0.00          0.00         0.000000000
## 3003            0.00          0.00         0.000000000
## 3004            0.00          0.00         0.000000000
## 3007            2.94          9.00         0.000000000
## 3008            0.67         10.50         0.008048896
## 3011            0.00          0.00         0.000000000
## 3014            0.74         11.80         0.008048896
## 3015            0.00          0.00         0.008048896
## 3016            0.00          0.00         0.000000000
## 3017            0.00          0.00         0.000000000
## 3020            0.00          0.00         0.000000000
## 3021            0.00          0.00         0.000000000
## 3022            0.00          0.00         0.008048896
## 3023            0.00          0.00         0.000000000
## 3025            0.98          9.40         0.008048896
## 3026            0.00          0.00         0.000000000
## 3028            2.01          7.40         0.008048896
## 3029            0.85          8.40         0.008048896
## 3030            0.00          0.00         0.000000000
## 3031            3.13         11.40         0.008048896
## 3032            1.04         10.30         0.008048896
## 3034            0.00          0.00         0.000000000
## 3035            0.00          0.00         0.000000000
## 3038            0.00          0.00         0.008048896
## 3039            1.73         36.50         0.000000000
## 3041            0.96         10.70         0.000000000
## 3042            4.34          9.60         0.000000000
## 3043            0.94         11.60         0.000000000
## 3044            0.29          5.30         0.008048896
## 3047            0.00          0.00         0.000000000
## 3049            0.77         11.49         0.000000000
## 3054            0.00          0.00         0.008048896
## 3055            0.00          0.00         0.008048896
## 3056            0.00          0.00         0.000000000
## 3057            2.56          7.80         0.000000000
## 3060            0.00          0.00         0.008048896
## 3061            0.00          0.00         0.000000000
## 3062            0.00          0.00         0.008048896
## 3063            0.00          0.00         0.000000000
## 3064            0.00          0.00         0.008048896
## 3065            0.23          4.20         0.000000000
## 3067            0.19          0.00         0.008048896
## 3068            0.00          0.00         0.000000000
## 3070            0.20          4.50         0.000000000
## 3071            0.04          0.00         0.008048896
```

```
## 3073              0.46            0.00         0.000000000
## 3074              0.00            0.00         0.008048896
## 3076              0.00            0.00         0.000000000
## 3077              0.23            4.00         0.000000000
## 3078              0.00            0.00         0.000000000
## 3079              0.00            0.00         0.008048896
## 3080              0.00            0.00         0.008048896
## 3083              0.00            0.00         0.000000000
## 3084              0.00            0.00         0.008048896
## 3085              2.35           16.00         0.008048896
## 3089              0.50            0.00         0.008048896
## 3090              0.00            0.00         0.000000000
## 3091              1.19            6.40         0.000000000
## 3092              0.31            6.10         0.000000000
## 3093              0.00            0.00         0.000000000
## 3094              2.09            7.40         0.008048896
## 3095              0.00            0.00         0.000000000
## 3096              0.00            0.00         0.008048896
## 3097              0.23            5.30         0.000000000
## 3098              0.00            0.00         0.000000000
## 3100              0.00            0.00         0.008048896
## 3101              0.29            5.40         0.008048896
## 3102              0.00            0.00         0.008048896
## 3103              0.00            0.00         0.000000000
## 3105              0.00            0.00         0.000000000
## 3106              2.18           12.60         0.000000000
## 3109              0.98           10.20         0.008048896
## 3112              0.00            0.00         0.000000000
## 3113              0.00            0.00         0.000000000
## 3114              0.33            5.00         0.000000000
## 3115              0.00            0.00         0.000000000
## 3116              0.00            0.00         0.000000000
## 3117              0.00            0.00         0.000000000
## 3118              0.24            5.50         0.008048896
## 3119              0.24            5.10         0.100000000
## 3120              0.19            0.00         0.008048896
## 3121              1.94            7.40         0.008048896
## 3122              0.00            0.00         0.000000000
## 3124              0.00            0.00         0.008048896
## 3125              0.20            4.40         0.008048896
## 3127              0.00            0.00         0.008048896
## 3128              0.21            5.20         0.040000000
## 3129              0.29            5.30         0.008048896
## 3132              0.00            0.00         0.000000000
## 3133              0.21            4.40         0.000000000
## 3134              0.73           10.80         0.008048896
## 3135              0.00            0.00         0.000000000
## 3137              0.00            0.00         0.000000000
## 3141              0.00            0.00         0.000000000
## 3142              0.00            0.00         0.000000000
## 3145              0.26            5.40         0.000000000
## 3146              0.00            0.00         0.008048896
## 3147              0.32            5.80         0.100000000
## 3148              0.32            5.90         0.008048896
```

```
## 3149          2.26          8.50          0.008048896
## 3151          0.00          0.00          0.008048896
## 3152          0.00          0.00          0.008048896
## 3156          0.00          0.00          0.000000000
## 3159          0.00          0.00          0.008048896
## 3160          1.14          6.60          0.000000000
## 3161          0.00          0.00          0.008048896
## 3163          2.30         12.40          0.000000000
## 3164          0.00          0.00          0.008048896
## 3165          0.26          4.10          0.008048896
## 3166          0.00          0.00          0.008048896
## 3168          0.50          0.00          0.000000000
## 3170          0.26          5.20          0.008048896
## 3171          2.86          8.40          0.008048896
## 3172          0.00          0.00          0.008048896
## 3173          0.00          0.00          0.008048896
## 3174          0.25          4.70          0.008048896
## 3175          1.90         15.50          0.008048896
## 3176          0.00          0.00          0.000000000
## 3177          0.32          5.50          0.008048896
## 3178          0.00          0.00          0.000000000
## 3179          0.00          0.00          0.000000000
## 3180          0.00          0.00          0.008048896
## 3182          0.00          0.00          0.008048896
## 3183          0.00          0.00          0.000000000
## 3184          0.00          0.00          0.000000000
## 3186          0.00          0.00          0.000000000
## 3188          0.00          0.00          0.000000000
## 3189          0.00          0.00          0.000000000
## 3190          0.00          0.00          0.008048896
## 3191          0.00          0.00          0.000000000
## 3192          0.00          0.00          0.000000000
## 3193          0.00          0.00          0.000000000
## 3195          0.00          0.00          0.000000000
## 3196          0.00          0.00          0.000000000
## 3197          0.00          0.00          0.008048896
## 3198          0.23          0.00          0.008048896
## 3199          0.34          5.40          0.008048896
## 3201          0.00          0.00          0.000000000
## 3202          2.57          8.20          0.008048896
## 3204          2.82         12.20          0.008048896
## 3205          0.00          0.00          0.008048896
## 3207          0.16          0.00          0.008048896
## 3208          3.25          9.00          0.008048896
## 3209          1.20         12.80          0.008048896
## 3210          4.74          8.60          0.000000000
## 3211          0.00          0.00          0.008048896
## 3212          0.00          0.00          0.008048896
## 3213          0.00          0.00          0.008048896
## 3214          4.96          0.20          0.000000000
## 3215          3.06          8.30          0.000000000
## 3216          0.00          0.00          0.000000000
## 3217          0.00          0.00          0.008048896
## 3219          0.00          0.00          0.000000000
```

```
## 3220            0.00           0.00       0.000000000
## 3221            2.16           9.70       0.008048896
## 3222            4.24           9.46       0.000000000
## 3223            0.43           0.00       0.008048896
## 3224            0.34           4.80       0.000000000
## 3225            0.00           0.00       0.000000000
## 3226            1.73          18.70       0.000000000
## 3227            0.00           0.00       0.008048896
## 3229            0.00           0.00       0.000000000
## 3230            0.90          11.70       0.008048896
## 3233            3.00           8.00       0.008048896
## 3234            0.73          13.20       0.000000000
## 3235            2.70           9.90       0.000000000
## 3236            0.00           0.00       0.008048896
## 3237            0.00           0.00       0.000000000
## 3238            0.00           0.00       0.000000000
## 3240            0.00           0.00       0.000000000
## 3241            2.76           8.80       0.008048896
## 3243            2.53           7.70       0.008048896
## 3244            0.00           0.00       0.008048896
## 3245            0.00           0.00       0.008048896
## 3247            1.83          10.00       0.008048896
## 3249            0.00           0.00       0.008048896
## 3250            0.46           0.00       0.008048896
## 3251            0.20           4.50       0.008048896
## 3253            3.10           9.50       0.052000000
## 3254            0.40           5.30       0.008048896
## 3255            0.00           0.00       0.008048896
## 3256            0.00           0.00       0.000000000
## 3257            0.00           0.00       0.000000000
## 3259            0.02           0.00       0.008048896
## 3260            0.00           0.00       0.000000000
## 3261            0.00           0.00       0.008048896
## 3262            0.00           0.00       0.008048896
## 3263            1.12          11.90       0.008048896
## 3264            0.26           5.30       0.067000000
## 3267            0.00           0.00       0.000000000
## 3268            0.95           5.50       0.008048896
## 3269            0.00           0.00       0.008048896
## 3270            0.05           0.00       0.008048896
## 3271            0.83          12.22       0.000000000
## 3272            0.00           0.00       0.008048896
## 3273            0.00           0.00       0.000000000
## 3274            0.00           0.00       0.000000000
## 3275            0.00           0.00       0.008048896
## 3276            0.00           0.00       0.000000000
## 3277            0.00           0.00       0.000000000
## 3279            0.00           0.00       0.008048896
## 3281            0.84          11.96       0.000000000
## 3282            0.50           0.00       0.008048896
## 3283            3.08           9.10       0.000000000
## 3284            0.00           0.00       0.000000000
## 3287            0.20           0.00       0.008048896
## 3288            0.00           0.00       0.000000000
```

```
## 3289              0.00          0.00      0.008048896
## 3290              0.00          0.00      0.008048896
## 3291              0.00          0.00      0.000000000
## 3292              0.00          0.00      0.000000000
## 3295              0.00          0.00      0.000000000
## 3296              0.00          0.00      0.000000000
## 3297              3.90          9.40      0.000000000
## 3298              2.53          7.50      0.162000000
## 3299              2.68          8.20      0.000000000
## 3300              0.00          0.00      0.000000000
## 3301              0.00          0.00      0.000000000
## 3302              0.00          0.00      0.000000000
## 3303              0.00          0.00      0.008048896
## 3304              3.37         22.00      0.000000000
## 3305              0.00          0.00      0.000000000
## 3306              0.38          4.80      0.000000000
## 3307              0.00          0.00      0.000000000
## 3308              0.00          0.00      0.000000000
## 3310              1.13          9.90      0.000000000
## 3311              0.00          0.00      0.000000000
## 3313              1.82         10.20      0.008048896
## 3315              0.00          0.00      0.008048896
## 3316              1.00         10.70      0.008048896
## 3317              2.79          8.70      0.008048896
## 3318              1.38          7.20      0.000000000
## 3319              0.00          0.00      0.008048896
## 3320              0.00          0.00      0.000000000
## 3321              1.60         20.70      0.500000000
## 3322              0.00          0.00      0.008048896
## 3324              0.00          0.00      0.000000000
## 3325              1.63         16.40      0.000000000
## 3327              0.00          0.00      0.000000000
## 3328              0.00          0.00      0.000000000
## 3329              0.33          5.90      0.008048896
## 3330              0.30          4.70      0.008048896
## 3331              3.18          9.40      0.000000000
## 3332              0.00          0.00      0.008048896
## 3333              0.00          0.00      0.000000000
## 3335              0.00          0.00      0.000000000
## 3336              0.00          0.00      0.000000000
## 3339              0.00          0.00      0.008048896
## 3340              0.00          0.00      0.008048896
## 3341              0.00          0.00      0.000000000
## 3342              0.30          4.90      0.008048896
## 3343              0.29          5.60      0.008048896
## 3344              0.00          0.00      0.000000000
## 3345              0.85         12.60      0.008048896
## 3347              0.00          0.00      0.000000000
## 3348              3.30          9.50      0.008048896
## 3349              0.20          4.70      0.008048896
## 3350              0.00          0.00      0.008048896
## 3351              0.00          0.00      0.008048896
## 3352              0.00          0.00      0.000000000
## 3353              0.00          0.00      0.000000000
```

```
## 3354              1.67          7.30        0.008048896
## 3355              1.93          7.20        0.008048896
## 3357              0.00          0.00        0.008048896
## 3358              2.93          8.70        0.060000000
## 3359              0.00          0.00        0.008048896
## 3360              0.50         10.00        0.008048896
## 3361              0.00          0.00        0.000000000
## 3362              0.11          0.00        0.008048896
## 3364              2.84          8.10        0.008048896
## 3365              0.42          4.60        0.000000000
## 3368              0.00          0.00        0.000000000
## 3369              0.21          4.60        0.070000000
## 3370              1.14          8.70        0.008048896
## 3371              3.31         10.14        0.008048896
## 3372              0.00          0.00        0.008048896
## 3373              0.00          0.00        0.000000000
## 3374              2.48         23.10        0.008048896
## 3375              0.32          5.20        0.008048896
## 3376              0.00          0.00        0.008048896
## 3377              0.46         10.50        0.000000000
## 3378              0.00          0.00        0.000000000
## 3379              3.87         43.30        0.008048896
## 3380              0.81         10.40        0.008048896
## 3381              0.00          0.00        0.008048896
## 3382              0.00          0.00        0.000000000
## 3383              1.93          7.50        0.008048896
## 3386              0.70         22.40        0.000000000
## 3387              0.00          0.00        0.000000000
## 3390              2.70          8.40        0.000000000
## 3391              0.00          0.00        0.000000000
## 3392              0.00          0.00        0.000000000
## 3394              3.19         11.60        0.008048896
## 3396              0.00          0.00        0.008048896
## 3397              0.00          0.00        0.008048896
## 3398              0.00          0.00        0.008048896
## 3400              0.30          5.30        0.000000000
## 3401              0.00          0.00        0.008048896
## 3402              0.00          0.00        0.000000000
## 3403              0.03          0.00        0.008048896
## 3404              1.24          0.00        0.008048896
## 3405              0.00          0.00        0.000000000
## 3407              0.31          4.90        0.008048896
## 3408              0.00          0.00        0.000000000
## 3409              2.63         12.40        0.008048896
## 3410              0.00          0.00        0.000000000
## 3411              0.00          0.00        0.000000000
## 3413              0.00          0.00        0.000000000
## 3414              0.00          0.00        0.000000000
## 3415              0.00          0.00        0.000000000
## 3416              0.00          0.00        0.008048896
## 3417              2.78         12.60        0.008048896
## 3418              3.42         12.28        0.008048896
## 3419              0.00          0.00        0.000000000
## 3420              0.30          4.90        0.008048896
```

```
## 3423             0.24            4.10       0.008048896
## 3424             0.51            0.00       0.008048896
## 3425             0.00            0.00       0.000000000
## 3426             0.00            0.00       0.008048896
## 3428             0.00            0.00       0.000000000
## 3430             0.00            0.00       0.000000000
## 3431             0.41            8.40       0.008048896
## 3433             0.00            0.00       0.000000000
## 3434             0.00            0.00       0.000000000
## 3436             0.00            0.00       0.008048896
## 3439             0.25            4.90       0.000000000
## 3440             0.93            8.50       0.008048896
## 3441             0.00            0.00       0.000000000
## 3442             0.00            0.00       0.000000000
## 3443             3.62           47.20       0.000000000
## 3444             0.00            0.00       0.000000000
## 3445             0.00            0.00       0.000000000
## 3446             0.00            0.00       0.008048896
## 3448             0.00            0.00       0.000000000
## 3449             0.23            5.60       0.000000000
## 3450             0.00            0.00       0.008048896
## 3451             0.00            0.00       0.008048896
## 3452             0.84           18.00       0.008048896
## 3455             0.00            0.00       0.008048896
## 3456             0.00            0.00       0.000000000
## 3457             0.00            0.00       0.000000000
## 3458             1.19            9.90       0.008048896
## 3459             0.00            0.00       0.000000000
## 3460             3.60            8.90       0.000000000
## 3463             0.33           46.40       0.008048896
## 3464             0.84           12.60       0.008048896
## 3465             0.00            0.00       0.000000000
## 3467             0.70            0.00       0.000000000
## 3468             0.00            0.00       0.000000000
## 3469             0.00            0.00       0.008048896
## 3470             0.30            0.00       0.008048896
## 3471             0.00            0.00       0.000000000
## 3473             0.00            0.00       0.000000000
## 3475             0.50            0.00       0.008048896
## 3477             0.00            0.00       0.008048896
## 3479             0.00            0.00       0.000000000
## 3480             0.00            0.00       0.008048896
## 3481             0.00            0.00       0.008048896
## 3482             0.00            0.00       0.008048896
## 3484             0.19            0.00       0.008048896
## 3485             0.00            0.00       0.000000000
## 3487             0.69           13.70       0.008048896
## 3488             0.00            0.00       0.000000000
## 3489             0.00            0.00       0.008048896
## 3490             0.00            0.00       0.000000000
## 3491             0.76           11.62       0.000000000
## 3492             0.00            0.00       0.000000000
## 3493             0.00            0.00       0.000000000
## 3495             0.32            5.50       0.000000000
```

```
## 3496              0.00            0.00          0.008048896
## 3498              0.32            5.10          0.000000000
## 3499              0.00            0.00          0.000000000
## 3500              0.00            0.00          0.008048896
## 3501              0.50            6.00          0.000000000
## 3503              0.00            0.00          0.000000000
## 3504              0.00            0.00          0.000000000
## 3505              0.00            0.00          0.008048896
## 3506              0.00            0.00          0.008048896
## 3507              5.66            0.50          0.008048896
## 3508              0.00            0.00          0.000000000
## 3509              0.00            0.00          0.000000000
## 3510              0.00            0.00          0.008048896
## 3511              0.00            0.00          0.000000000
## 3512              0.19            4.73          0.000000000
## 3513              0.00            0.00          0.000000000
## 3514              0.72           12.20          0.008048896
## 3516              0.00            0.00          0.000000000
## 3517              0.21            4.20          0.008048896
## 3518              0.00            0.00          0.008048896
## 3519              0.00            0.00          0.000000000
## 3520              0.00            0.00          0.000000000
## 3521              3.51           12.80          0.008048896
## 3522              0.47           40.60          0.200000000
## 3523              0.00            0.00          0.008048896
## 3524              3.06            9.20          0.008048896
## 3526              0.00            0.00          0.008048896
## 3528              0.36            5.50          0.008048896
## 3531              0.00            0.00          0.000000000
## 3532              0.00            0.00          0.000000000
## 3533              0.17            4.90          0.000000000
## 3534              0.00            0.00          0.008048896
## 3535              1.76            7.20          0.008048896
## 3536              0.00            0.00          0.008048896
## 3537              0.00            0.00          0.008048896
## 3538              0.00            0.00          0.000000000
## 3539              0.00            0.00          0.008048896
## 3541              0.00            0.00          0.008048896
## 3542              0.36            5.00          0.008048896
## 3543              0.00            0.00          0.008048896
## 3544              2.30            8.00          0.008048896
## 3545              5.53            0.40          0.000000000
## 3546              0.00            0.00          0.008048896
## 3547              0.23            4.70          0.008048896
## 3549              0.00            0.00          0.000000000
## 3550              0.35            0.00          0.008048896
## 3552              0.00            0.00          0.000000000
## 3553              1.04            7.80          0.008048896
## 3554              0.84            0.00          0.000000000
## 3555              0.98            7.70          0.008048896
## 3556              1.92           11.10          0.008048896
## 3559              0.00            0.00          0.000000000
## 3560              0.00            0.00          0.000000000
## 3561              0.00            0.00          0.000000000
```

```
## 3562           0.00           0.00           0.000000000
## 3563           0.00           0.00           0.000000000
## 3564           0.22           4.50           0.000000000
## 3567           0.00           0.00           0.000000000
## 3569           3.31           8.70           0.008048896
## 3571           0.00           0.00           0.000000000
## 3572           0.00           0.00           0.000000000
## 3574           0.00           0.00           0.000000000
## 3576           0.81          12.30           0.000000000
## 3577           0.74          13.42           0.000000000
## 3578           0.93          30.90           0.360000000
## 3580           1.80          34.00           0.008048896
## 3582           0.00           0.00           0.000000000
## 3583           0.00           0.00           0.000000000
## 3586           0.00           0.00           0.000000000
## 3588           0.00           0.00           0.008048896
## 3589           0.19           4.60           0.000000000
## 3590           0.00           0.00           0.008048896
## 3591           0.00           0.00           0.000000000
## 3594           0.00           0.00           0.000000000
## 3596           0.00           0.00           0.008048896
## 3597           0.00           0.00           0.000000000
## 3599           0.66           5.70           0.008048896
## 3601           0.00           0.00           0.008048896
## 3602           3.93           8.60           0.008048896
## 3603           0.30           4.60           0.000000000
## 3604           0.00           0.00           0.000000000
## 3605           0.00           0.00           0.000000000
## 3606           0.00           0.00           0.008048896
## 3607           0.23           4.40           0.000000000
## 3608           0.00           0.00           0.000000000
## 3611           0.00           0.00           0.000000000
## 3612           0.30           4.30           0.008048896
## 3614           0.57           6.90           0.000000000
## 3615           0.00           0.00           0.000000000
## 3616           0.91           7.15           0.000000000
## 3617           0.00           0.00           0.008048896
## 3620           0.00           0.00           0.000000000
## 3621           2.60           8.50           0.000000000
## 3623           0.00           0.00           0.008048896
## 3624           0.00           0.00           0.000000000
## 3627           2.77           7.40           0.008048896
## 3629           0.00           0.00           0.008048896
## 3630           0.00           0.00           0.000000000
## 3631           0.00           0.00           0.000000000
## 3632           0.24           4.90           0.000000000
## 3633           0.00           0.00           0.000000000
## 3634           0.00           0.00           0.000000000
## 3635           0.19           0.00           0.008048896
## 3637           0.00           0.00           0.000000000
## 3638           0.00           0.00           0.008048896
## 3639           0.00           0.00           0.000000000
## 3640           0.00           0.00           0.000000000
## 3641           0.27           4.30           0.000000000
```

```
## 3642           0.00           0.00        0.008048896
## 3643           0.80          19.20        0.000000000
## 3644           0.00           0.00        0.008048896
## 3645           0.00           0.00        0.008048896
## 3648           0.22           4.20        0.008048896
## 3649           0.00           0.00        0.000000000
## 3650           2.85           8.20        0.000000000
## 3651           3.05          10.70        0.000000000
## 3652           3.00           8.70        0.000000000
## 3653           0.00           0.00        0.008048896
## 3655           0.25           4.90        0.008048896
## 3657           0.00           0.00        0.008048896
## 3659           2.88           8.50        0.000000000
## 3660           0.00           0.00        0.008048896
## 3661           0.00           0.00        0.008048896
## 3662           0.50           0.00        0.008048896
## 3663           0.36           5.10        0.000000000
## 3664           0.90           8.60        0.008048896
## 3665           0.23           4.50        0.008048896
## 3666           0.00           0.00        0.000000000
## 3667           0.00           0.00        0.000000000
## 3669           0.14           0.00        0.008048896
## 3670           2.53          16.70        0.260000000
## 3671           3.11           7.10        0.008048896
## 3673           0.00           0.00        0.000000000
## 3675           0.00           0.00        0.000000000
## 3676           0.00           0.00        0.000000000
## 3677           1.20           9.90        0.062000000
## 3678           2.24          15.60        0.008048896
## 3680           0.00           0.00        0.008048896
## 3681           2.36           8.50        0.008048896
## 3682           0.00           0.00        0.000000000
## 3683           0.00           0.00        0.008048896
## 3684           0.86           9.00        0.008048896
## 3685           2.45           8.30        0.008048896
## 3686           0.00           0.00        0.008048896
## 3688           0.00           0.00        0.000000000
## 3689           0.00           0.00        0.000000000
## 3692           5.68           2.19        0.008048896
## 3694           0.00           0.00        0.000000000
## 3695           0.00           0.00        0.000000000
## 3696           0.00           0.00        0.000000000
## 3697           0.00           0.00        0.000000000
## 3698           3.68           9.56        0.000000000
## 3699           0.81          11.70        0.008048896
## 3700           1.45           0.00        0.000000000
## 3701           0.90          10.98        0.000000000
## 3703           0.00           0.00        0.008048896
## 3704           0.00           0.00        0.000000000
## 3707           0.50           0.00        0.008048896
## 3710           1.15           7.00        0.008048896
## 3711           0.00           0.00        0.000000000
## 3712           1.07          11.30        0.008048896
## 3713           0.00           0.00        0.000000000
```

```
## 3714          0.00          0.00          0.008048896
## 3715          0.47         10.30          0.008048896
## 3716          0.00          0.00          0.000000000
## 3717          0.29          5.30          0.008048896
## 3718          0.00          0.00          0.000000000
## 3719          0.29          5.20          0.100000000
## 3721          0.00          0.00          0.000000000
## 3722          0.00          0.00          0.000000000
## 3723          0.00          0.00          0.000000000
## 3724          0.01          0.00          0.000000000
## 3725          0.00          0.00          0.008048896
## 3726          0.00          0.00          0.008048896
## 3727          0.00          0.00          0.008048896
## 3728          0.69         17.20          0.008048896
## 3729          0.38          5.10          0.000000000
## 3730          0.00          0.00          0.008048896
## 3731          0.00          0.00          0.000000000
## 3733          3.01          8.80          0.008048896
## 3737          0.00          0.00          0.008048896
## 3738          0.11          0.00          0.008048896
## 3739          0.00          0.00          0.000000000
## 3740          0.00          0.00          0.000000000
## 3741          0.00          0.00          0.000000000
## 3745          1.05          9.60          0.000000000
## 3746          0.29          4.60          0.008048896
## 3747          0.00          0.00          0.008048896
## 3748          0.00          0.00          0.008048896
## 3749          0.00          0.00          0.000000000
## 3752          0.00          0.00          0.000000000
## 3755          0.00          0.00          0.008048896
## 3756          0.30          6.00          0.000000000
## 3758          0.18          0.00          0.008048896
## 3759          0.00          0.00          0.000000000
## 3760          0.00          0.00          0.000000000
## 3761          0.50          0.00          0.008048896
## 3762          0.50          0.00          0.008048896
## 3763          0.90          0.00          0.008048896
## 3765          0.00          0.00          0.008048896
## 3766          0.01          0.00          0.008048896
## 3768          0.00          0.00          0.008048896
## 3769          0.00          0.00          0.000000000
## 3772          0.00          0.00          0.000000000
## 3773          4.25          9.00          0.000000000
## 3774          0.00          0.00          0.008048896
## 3777          0.00          0.00          0.008048896
## 3778          0.00          0.00          0.008048896
## 3780          0.00          0.00          0.000000000
## 3781          0.00          0.00          0.000000000
## 3784          1.21          9.30          0.008048896
## 3786          2.01          7.40          0.008048896
## 3787          0.00          0.00          0.000000000
## 3789          0.00          0.00          0.000000000
## 3790          0.43          6.00          0.000000000
## 3791          0.00          0.00          0.000000000
```

```
## 3792              2.80              8.80         0.000000000
## 3793              0.31              5.40         0.000000000
## 3794              0.00              0.00         0.008048896
## 3795              4.27             16.80         0.008048896
## 3796              0.00              0.00         0.008048896
## 3797              2.96              8.10         0.000000000
## 3798              0.00              0.00         0.008048896
## 3799              0.00              0.00         0.000000000
## 3800              1.01             12.80         0.008048896
## 3802              0.68             14.30         0.000000000
## 3803              0.00              0.00         0.008048896
## 3804              2.63             10.40         0.000000000
## 3806              0.32              5.00         0.000000000
## 3807              0.00              0.00         0.000000000
## 3808              0.72              7.00         0.000000000
## 3809              0.00              0.00         0.008048896
## 3810              1.01             10.69         0.000000000
## 3811              0.00              0.00         0.008048896
## 3812              0.00              0.00         0.008048896
## 3814              1.41             13.00         0.008048896
## 3815              0.70             14.30         0.008048896
## 3816              0.90              8.67         0.008048896
## 3817              0.00              0.00         0.000000000
## 3818              0.00              0.00         0.008048896
## 3822              0.00              0.00         0.000000000
## 3823              0.00              0.00         0.000000000
## 3824              1.92             10.20         0.008048896
## 3826              0.00              0.00         0.000000000
## 3827              0.42             40.00         0.000000000
## 3828              2.89              9.10         0.008048896
## 3829              0.00              0.00         0.000000000
## 3830              0.00              0.00         0.000000000
## 3831              0.81             12.90         0.008048896
## 3832              0.23              4.50         0.000000000
## 3835              1.91              9.40         0.008048896
## 3836              0.32              6.50         0.008048896
## 3837              0.26              5.20         0.008048896
## 3838              0.00              0.00         0.000000000
## 3839              0.00              0.00         0.000000000
## 3840              0.00              0.00         0.000000000
## 3841              1.45             12.41         0.008048896
## 3842              0.00              0.00         0.008048896
## 3843              0.00              0.00         0.008048896
## 3844              0.24              5.90         0.000000000
## 3847              0.62             13.40         0.030000000
## 3848              1.20              8.40         0.008048896
## 3849              2.86              8.70         0.000000000
## 3850              0.00              0.00         0.000000000
## 3851              0.00              0.00         0.008048896
## 3852              0.33              4.90         0.000000000
## 3853              0.00              0.00         0.000000000
## 3855              0.00              0.00         0.008048896
## 3856              1.22             13.40         0.000000000
## 3857              0.00              0.00         0.000000000
```

```
## 3858              3.52           6.90        0.008048896
## 3859              0.00           0.00        0.000000000
## 3860              0.00           0.00        0.008048896
## 3861              0.00           0.00        0.008048896
## 3862              2.39          49.00        0.000000000
## 3864              0.54           6.80        0.000000000
## 3865              0.25           4.60        0.008048896
## 3866              0.70           9.00        0.008048896
## 3867              0.22           5.30        0.000000000
## 3871              0.30           5.60        0.000000000
## 3872              0.00           0.00        0.000000000
## 3874              0.35           5.37        0.000000000
## 3875              0.00           0.00        0.008048896
## 3876              0.00           0.00        0.000000000
## 3877              0.30           5.60        0.008048896
## 3878              0.00           0.00        0.000000000
## 3880              0.50           0.00        0.008048896
## 3881              0.00           0.00        0.008048896
## 3882              5.31           0.40        0.008048896
## 3883              0.00           0.00        0.008048896
## 3884              2.50           7.80        0.008048896
## 3885              0.89          26.30        0.008048896
## 3886              0.02           0.00        0.008048896
## 3890              0.00           0.00        0.008048896
## 3892              0.00           0.00        0.000000000
## 3893              0.00           0.00        0.000000000
## 3894              0.50           0.00        0.008048896
## 3895              0.78          12.58        0.008048896
## 3898              0.00           0.00        0.000000000
## 3899              0.00           0.00        0.008048896
## 3900              0.00           0.00        0.000000000
## 3901              1.19           6.70        0.008048896
## 3904              0.00           0.00        0.000000000
## 3906              1.74          12.90        0.008048896
## 3908              0.00           0.00        0.000000000
## 3910              1.43           8.50        0.000000000
## 3914              0.00           0.00        0.000000000
## 3915              0.00           0.00        0.008048896
## 3916              0.04           0.00        0.008048896
## 3917              2.86           8.30        0.008048896
## 3919              0.00           0.00        0.000000000
## 3920              0.00           0.00        0.000000000
## 3921              0.42          42.00        0.000000000
## 3924              0.00           0.00        0.000000000
## 3925              0.89          11.91        0.008048896
## 3926              0.00           0.00        0.008048896
## 3928              0.00           0.00        0.000000000
## 3929              0.00           0.00        0.000000000
## 3930              0.00           0.00        0.000000000
## 3931              0.00           0.00        0.000000000
## 3932              0.00           0.00        0.000000000
## 3934              0.36           5.00        0.008048896
## 3936              0.00           0.00        0.008048896
## 3937              2.93           9.10        0.008048896
```

```
## 3938                 1.01            11.65            0.008048896
## 3939                 0.00             0.00            0.000000000
## 3941                 0.00             0.00            0.008048896
## 3943                 0.25             5.70            0.008048896
## 3944                 0.00             0.00            0.000000000
## 3945                 0.00             0.00            0.000000000
## 3946                 0.00             0.00            0.000000000
## 3948                 4.11            10.90            0.000000000
## 3949                 0.00             0.00            0.000000000
## 3951                 2.73             7.80            0.000000000
## 3952                 0.00             0.00            0.008048896
## 3953                 0.50             0.00            0.008048896
## 3954                 0.00             0.00            0.000000000
## 3955                 0.00             0.00            0.000000000
## 3956                 0.00             0.00            0.000000000
## 3957                 0.00             0.00            0.000000000
## 3958                 3.02             9.30            0.000000000
## 3959                 2.91             8.30            0.000000000
## 3960                 0.00             0.00            0.008048896
## 3962                 0.85            15.80            0.008048896
## 3964                 1.62             7.20            0.000000000
## 3967                 0.00             0.00            0.000000000
## 3973                 0.00             0.00            0.000000000
## 3974                 0.05             0.00            0.008048896
## 3980                 3.02             8.00            0.000000000
## 3981                 0.00             0.00            0.008048896
## 3982                 0.00             0.00            0.008048896
## 3983                 0.00             0.00            0.000000000
## 3984                 0.00             0.00            0.008048896
## 3987                 0.23             4.30            0.008048896
## 3988                 0.00             0.00            0.008048896
## 3989                 0.00             0.00            0.000000000
## 3991                 4.23            10.20            0.000000000
## 3993                 2.62             7.50            0.000000000
## 3995                 2.68             8.00            0.000000000
## 3997                 0.00             0.00            0.008048896
## 3998                 0.00             0.00            0.008048896
## 3999                 0.00             0.00            0.008048896
## 4000                 0.00             0.00            0.008048896
## 4002                 0.00             0.00            0.000000000
## 4003                 0.10             0.00            0.008048896
## 4004                 0.25             5.30            0.008048896
## 4006                 0.00             0.00            0.000000000
## 4007                 0.81            11.90            0.008048896
## 4008                 0.82             8.78            0.008048896
## 4009                 0.34             5.40            0.008048896
## 4010                 0.00             0.00            0.008048896
## 4012                 0.00             0.00            0.000000000
## 4014                 0.00             0.00            0.008048896
## 4016                 0.50             0.00            0.008048896
## 4017                 0.00             0.00            0.008048896
## 4019                 0.00             0.00            0.008048896
## 4020                 0.25             5.30            0.008048896
## 4021                 0.05             0.00            0.008048896
```

```
## 4023               0.00           0.00         0.008048896
## 4024               0.00           0.00         0.000000000
## 4025               0.00           0.00         0.000000000
## 4026               0.00           0.00         0.000000000
## 4028               0.50           0.00         0.008048896
## 4029               0.00           0.00         0.000000000
## 4030               0.00           0.00         0.008048896
## 4031               0.00           0.00         0.000000000
## 4033               0.00           0.00         0.000000000
## 4036               1.27          18.00         0.008048896
## 4037               0.23           4.50         0.071000000
## 4038               0.00           0.00         0.000000000
## 4039               0.00           0.00         0.000000000
## 4040               0.00           0.00         0.000000000
## 4041               0.80          11.53         0.008048896
## 4043               2.72           7.60         0.000000000
## 4044               0.00           0.00         0.008048896
## 4046               0.26           5.50         0.008048896
## 4047               0.00           0.00         0.008048896
## 4048               3.96          42.80         0.008048896
## 4050               0.00           0.00         0.000000000
## 4051               0.00           0.00         0.008048896
## 4052               0.40           5.50         0.008048896
## 4053               0.92           9.75         0.008048896
## 4054               0.00           0.00         0.000000000
## 4055               0.62          12.00         0.000000000
## 4056               1.91           8.10         0.008048896
## 4057               0.00           0.00         0.000000000
## 4058               0.00           0.00         0.000000000
## 4060               1.80           0.00         0.008048896
## 4062               4.15          12.30         0.008048896
## 4063               0.00           0.00         0.008048896
## 4064               0.00           0.00         0.000000000
## 4065               0.00           0.00         0.000000000
## 4066               5.85           3.00         0.000000000
## 4067               0.50           0.00         0.008048896
## 4068               0.00           0.00         0.000000000
## 4070               0.00           0.00         0.000000000
## 4071               0.00           0.00         0.008048896
## 4072               0.95           8.00         0.008048896
## 4073               0.00           0.00         0.000000000
## 4076               0.25           4.50         0.000000000
## 4077               0.44           8.60         0.008048896
## 4079               0.00           0.00         0.008048896
## 4080               1.22          12.60         0.008048896
## 4082               0.20           4.60         0.000000000
## 4083               2.83          10.30         0.008048896
## 4084               0.24           4.70         0.070000000
## 4085               0.00           0.00         0.000000000
## 4086               0.19           4.50         0.000000000
## 4087               2.69           9.90         0.008048896
## 4088               0.50           0.00         0.008048896
## 4089               3.21          12.30         0.008048896
## 4090               0.00           0.00         0.000000000
```

```
## 4091              0.00          0.00          0.000000000
## 4092              0.26          5.40          0.000000000
## 4093              0.42          6.60          0.008048896
## 4094              0.22          4.40          0.000000000
## 4095              0.00          0.00          0.000000000
## 4096              0.00          0.00          0.000000000
## 4098              0.96         11.50          0.008048896
## 4099              0.00          0.00          0.008048896
## 4101              2.95          8.30          0.008048896
## 4102              0.00          0.00          0.008048896
## 4103              0.69          0.00          0.008048896
## 4104              0.00          0.00          0.008048896
## 4105              0.00          0.00          0.000000000
## 4106              1.04         11.10          0.000000000
## 4107              0.00          0.00          0.008048896
## 4108              0.00          0.00          0.008048896
## 4109              0.64          9.50          0.008048896
## 4111              0.00          0.00          0.000000000
## 4112              0.00          0.00          0.008048896
## 4113              0.00          0.00          0.000000000
## 4115              0.00          0.00          0.000000000
## 4116              0.00          0.00          0.008048896
## 4117              1.24         13.07          0.008048896
## 4118              0.00          0.00          0.008048896
## 4119              0.00          0.00          0.000000000
## 4120              3.38          8.80          0.008048896
## 4121              0.00          0.00          0.000000000
## 4123              0.19          4.30          0.000000000
## 4124              0.00          0.00          0.008048896
## 4125              0.00          0.00          0.000000000
## 4127              2.48         32.00          0.008048896
## 4128              0.00          0.00          0.000000000
## 4129              0.00          0.00          0.000000000
## 4131              0.45          6.40          0.000000000
## 4132              0.00          0.00          0.000000000
## 4133              0.00          0.00          0.000000000
## 4134              0.22          4.50          0.000000000
## 4135              0.00          0.00          0.000000000
## 4136              0.30          6.50          0.008048896
## 4138              0.00          0.00          0.000000000
## 4139              0.00          0.00          0.008048896
## 4140              1.21         10.70          0.008048896
## 4142              2.44          9.90          0.008048896
## 4144              0.92          8.80          0.008048896
## 4145              0.00          0.00          0.000000000
## 4146              0.00          0.00          0.000000000
## 4147              0.00          0.00          0.000000000
## 4150              0.23          4.50          0.000000000
## 4151              0.00          0.00          0.000000000
## 4152              0.17          0.00          0.008048896
## 4153              0.00          0.00          0.000000000
## 4154              0.00          0.00          0.008048896
## 4155              0.33          4.10          0.008048896
## 4157              0.00          0.00          0.000000000
```

```
## 4158          0.19          0.00          0.008048896
## 4159          0.00          0.00          0.000000000
## 4160          0.00          0.00          0.008048896
## 4161          0.00          0.00          0.000000000
## 4162          0.00          0.00          0.008048896
## 4163          0.00          0.00          0.008048896
## 4165          0.00          0.00          0.008048896
## 4166          0.24          4.60          0.008048896
## 4168          0.00          0.00          0.000000000
## 4170          0.00          0.00          0.008048896
## 4173          0.89         10.20          0.008048896
## 4174          0.00          0.00          0.008048896
## 4175          0.00          0.00          0.000000000
## 4177          0.00          0.00          0.000000000
## 4178          0.91         16.10          0.000000000
## 4180          0.00          0.00          0.008048896
## 4182          2.32         29.50          0.000000000
## 4183          0.00          0.00          0.008048896
## 4184          0.00          0.00          0.000000000
## 4185          0.00          0.00          0.000000000
## 4186          0.00          0.00          0.000000000
## 4187          0.00          0.00          0.000000000
## 4188          0.00          0.00          0.008048896
## 4189          0.00          0.00          0.000000000
## 4190          0.77         10.50          0.008048896
## 4191          0.00          0.00          0.008048896
## 4192          2.38         47.40          0.000000000
## 4194          0.31          4.60          0.008048896
## 4195          0.48         11.70          0.008048896
## 4196          0.00          0.00          0.000000000
## 4197          0.00          0.00          0.008048896
## 4198          1.27          6.50          0.008048896
## 4200          0.00          0.00          0.008048896
## 4202          0.00          0.00          0.000000000
## 4203          0.30          6.40          0.090000000
## 4204          0.10          0.00          0.008048896
## 4205          2.34          8.60          0.000000000
## 4207          0.67          7.00          0.008048896
## 4208          0.00          0.00          0.000000000
## 4209          0.00          0.00          0.000000000
## 4211          2.82          8.40          0.008048896
## 4212          0.00          0.00          0.000000000
## 4213          0.36          8.80          0.020000000
## 4214          2.21          8.00          0.008048896
## 4215          0.33         29.70          0.008048896
## 4216          0.87         11.85          0.008048896
## 4217          0.24          4.80          0.008048896
## 4219          0.00          0.00          0.008048896
## 4220          2.71          9.60          0.008048896
## 4221          2.85          8.40          0.008048896
## 4223          0.00          0.00          0.000000000
## 4224          0.00          0.00          0.000000000
## 4225          0.00          0.00          0.000000000
## 4226          0.00          0.00          0.008048896
```

```
## 4227                0.00             0.00            0.000000000
## 4228                0.00             0.00            0.000000000
## 4229                0.29             5.00            0.008048896
## 4230                0.39             0.00            0.008048896
## 4231                0.00             0.00            0.008048896
## 4232                0.69            11.30            0.008048896
## 4233                2.94             7.90            0.008048896
## 4234                3.91            11.00            0.000000000
## 4235                0.33             4.90            0.008048896
## 4238                0.00             0.00            0.008048896
## 4239                0.19             0.00            0.008048896
## 4240                0.00             0.00            0.000000000
## 4241                0.00             0.00            0.000000000
## 4242                0.00             0.00            0.008048896
## 4243                0.00             0.00            0.000000000
## 4244                0.00             0.00            0.000000000
## 4245                0.35             4.30            0.000000000
## 4246                0.00             0.00            0.000000000
## 4247                2.28             9.30            0.008048896
## 4250                0.00             0.00            0.008048896
## 4251                0.00             0.00            0.000000000
## 4252                0.00             0.00            0.008048896
## 4253                0.00             0.00            0.000000000
## 4255                1.21            10.20            0.008048896
## 4256                0.00             0.00            0.008048896
## 4258                0.00             0.00            0.000000000
## 4259                0.00             0.00            0.000000000
## 4260                0.00             0.00            0.000000000
## 4261                0.00             0.00            0.000000000
## 4262                0.00             0.00            0.000000000
## 4264                0.21             5.20            0.000000000
## 4265                0.00             0.00            0.008048896
## 4268                0.00             0.00            0.000000000
## 4269                1.84            17.70            0.500000000
## 4270                4.14            11.70            0.000000000
## 4271                0.00             0.00            0.000000000
## 4272                0.00             0.00            0.008048896
## 4274                0.00             0.00            0.008048896
## 4276                2.29            38.40            0.008048896
## 4278                0.00             0.00            0.000000000
## 4279                2.95             9.00            0.000000000
## 4280                0.19             4.30            0.000000000
## 4281                0.26             4.95            0.000000000
## 4282                0.00             0.00            0.008048896
## 4283                0.24             5.50            0.008048896
## 4284                0.36            11.40            0.020000000
## 4285                0.00             0.00            0.000000000
## 4286                0.00             0.00            0.008048896
## 4287                0.15             4.80            0.020000000
## 4290                0.00             0.00            0.000000000
## 4292                0.00             0.00            0.008048896
## 4293                0.00             0.00            0.000000000
## 4295                0.81            10.10            0.008048896
## 4296                1.99             8.80            0.008048896
```

```
## 4297                0.00            0.00          0.000000000
## 4298                2.35            0.00          0.008048896
## 4299                0.00            0.00          0.000000000
## 4300                0.00            0.00          0.000000000
## 4301                0.00            0.00          0.000000000
## 4303                0.00            0.00          0.008048896
## 4304                0.00            0.00          0.000000000
## 4305                0.00            0.00          0.008048896
## 4307                0.00            0.00          0.000000000
## 4308                0.00            0.00          0.000000000
## 4309                0.00            0.00          0.008048896
## 4310                0.44            8.98          0.008048896
## 4311                1.10            8.40          0.068000000
## 4312                0.00            0.00          0.000000000
## 4313                0.00            0.00          0.000000000
## 4314                0.00            0.00          0.000000000
## 4315                0.00            0.00          0.008048896
## 4316                0.00            0.00          0.008048896
## 4318                0.00            0.00          0.008048896
## 4319                0.00            0.00          0.000000000
## 4320                0.00            0.00          0.000000000
## 4321                2.90            8.10          0.008048896
## 4322                0.26            5.26          0.000000000
## 4325                0.32            4.90          0.082000000
## 4327                0.00            0.00          0.008048896
## 4328                0.00            0.00          0.008048896
## 4330                0.31            4.50          0.055000000
## 4332                0.00            0.00          0.000000000
## 4333                0.00            0.00          0.000000000
## 4336                0.00            0.00          0.008048896
## 4337                0.00            0.00          0.008048896
## 4341                0.00            0.00          0.008048896
## 4344                0.00            0.00          0.008048896
## 4345                3.33            0.62          0.008048896
## 4346                0.00            0.00          0.000000000
## 4347                0.00            0.00          0.000000000
## 4348                0.29            5.70          0.100000000
## 4349                2.26            7.40          0.008048896
## 4350                0.00            0.00          0.008048896
## 4351                0.00            0.00          0.000000000
## 4354                0.00            0.00          0.008048896
## 4355                0.65           12.50          0.000000000
## 4357                0.00            0.00          0.000000000
## 4358                0.00            0.00          0.008048896
## 4359                0.00            0.00          0.000000000
## 4361                0.24            5.50          0.008048896
## 4362                0.22            4.80          0.008048896
## 4363                0.19            0.00          0.008048896
## 4364                0.00            0.00          0.000000000
## 4366                3.52            6.60          0.000000000
## 4367                0.00            0.00          0.000000000
## 4368                0.00            0.00          0.000000000
## 4370                0.00            0.00          0.008048896
## 4371                0.00            0.00          0.000000000
```

```
## 4373                    0.00            0.00        0.000000000
## 4374                    0.35            5.50        0.000000000
## 4376                    0.02            0.00        0.008048896
## 4377                    0.00            0.00        0.008048896
## 4380                    0.00            0.00        0.008048896
## 4382                    2.65            6.60        0.100000000
## 4383                    0.00            0.00        0.008048896
## 4384                    0.00            0.00        0.008048896
## 4385                    0.77           13.17        0.008048896
## 4386                    0.00            0.00        0.000000000
## 4388                    1.16           10.90        0.008048896
## 4389                    0.00            0.00        0.008048896
## 4391                    0.00            0.00        0.000000000
## 4392                    0.00            0.00        0.000000000
## 4394                    0.00            0.00        0.008048896
## 4396                    0.22            5.30        0.070000000
## 4399                    0.00            0.00        0.000000000
## 4400                    0.00            0.00        0.008048896
## 4401                    0.68           11.73        0.008048896
## 4402                    0.00            0.00        0.008048896
## 4403                    0.29            5.10        0.008048896
## 4404                    0.00            0.00        0.000000000
## 4405                    0.27            4.90        0.008048896
## 4406                    0.00            0.00        0.008048896
## 4407                    0.00            0.00        0.000000000
## 4408                    0.00            0.00        0.008048896
## 4409                    1.93            7.40        0.008048896
## 4411                    0.00            0.00        0.000000000
## 4413                    0.00            0.00        0.000000000
## 4414                    0.00            0.00        0.008048896
## 4415                    0.00            0.00        0.000000000
## 4416                    0.00            0.00        0.008048896
## 4417                    0.00            0.00        0.008048896
## 4418                    0.00            0.00        0.000000000
## 4419                    0.31            5.50        0.008048896
## 4420                    0.37            5.50        0.000000000
## 4421                    0.78           13.30        0.000000000
## 4422                    0.00            0.00        0.000000000
## 4423                    0.00            0.00        0.000000000
## 4425                    0.22            4.50        0.000000000
## 4426                    0.00            0.00        0.000000000
## 4427                    0.00            0.00        0.008048896
## 4428                    0.00            0.00        0.008048896
## 4429                    0.00            0.00        0.000000000
## 4430                    0.31            4.60        0.000000000
## 4431                    0.00            0.00        0.000000000
## 4432                    0.29            0.00        0.008048896
## 4433                    0.00            0.00        0.000000000
## 4434                    0.20            4.60        0.008048896
## 4435                    3.14            8.00        0.000000000
## 4436                    0.00            0.00        0.000000000
## 4437                    1.16           13.50        0.008048896
## 4438                    0.20            4.60        0.008048896
## 4442                    0.00            0.00        0.008048896
```

```
## 4443          3.73          10.20          0.000000000
## 4445          0.00           0.00          0.000000000
## 4446          0.00           0.00          0.000000000
## 4447          0.00           0.00          0.008048896
## 4448          0.00           0.00          0.000000000
## 4449          0.66           9.40          0.008048896
## 4451          0.00           0.00          0.000000000
## 4453          0.05           0.00          0.008048896
## 4455          0.00           0.00          0.008048896
## 4456          2.69           8.70          0.008048896
## 4457          0.89          10.60          0.000000000
## 4458          5.00          10.30          0.000000000
## 4459          0.41           5.80          0.008048896
## 4460          2.55          15.70          0.008048896
## 4461          4.45           0.40          0.000000000
## 4462          0.97           8.30          0.000000000
## 4463          0.00           0.00          0.000000000
## 4464          0.00           0.00          0.000000000
## 4467          0.21           5.60          0.000000000
## 4468          0.15           0.00          0.008048896
## 4469          0.00           0.00          0.000000000
## 4471          0.09           0.00          0.008048896
## 4472          2.66          13.60          0.008048896
## 4473          0.00           0.00          0.008048896
## 4475          0.00           0.00          0.008048896
## 4477          0.20           4.30          0.000000000
## 4480          0.00           0.00          0.000000000
## 4482          0.00           0.00          0.008048896
## 4483          1.37          11.90          0.008048896
## 4484          0.00           0.00          0.008048896
## 4485          0.00           0.00          0.000000000
## 4488          0.91          11.80          0.008048896
## 4489          0.00           0.00          0.000000000
## 4490          2.76           9.20          0.000000000
## 4491          0.00           0.00          0.000000000
## 4492          0.00           0.00          0.000000000
## 4493          0.00           0.00          0.000000000
## 4494          2.99           9.40          0.000000000
## 4495          1.18          14.00          0.000000000
## 4498          0.00           0.00          0.008048896
## 4499          4.18           9.18          0.000000000
## 4500          0.00           0.00          0.008048896
## 4502          0.00           0.00          0.008048896
## 4503          0.00           0.00          0.000000000
## 4504          0.00           0.00          0.008048896
## 4505          0.00           0.00          0.008048896
## 4508          0.00           0.00          0.008048896
## 4509          0.03           0.00          0.008048896
## 4510          0.40           5.20          0.008048896
## 4511          0.44          10.70          0.008048896
## 4512          2.21          13.90          0.008048896
## 4513          0.00           0.00          0.000000000
## 4514          0.00           0.00          0.000000000
## 4516          0.00           0.00          0.008048896
```

```
## 4517              0.00         0.00      0.008048896
## 4518              0.00         0.00      0.000000000
## 4519              0.00         0.00      0.000000000
## 4520              0.20         4.80      0.008048896
## 4521              0.00         0.00      0.000000000
## 4522              0.00         0.00      0.000000000
## 4524              0.24         4.70      0.000000000
## 4525              0.00         0.00      0.000000000
## 4526              0.00         0.00      0.000000000
## 4527              4.32         8.80      0.008048896
## 4529              3.41         7.60      0.000000000
## 4530              1.14         9.30      0.008048896
## 4531              0.00         0.00      0.000000000
## 4532              0.00         0.00      0.000000000
## 4533              0.22         4.30      0.008048896
## 4534              0.00         0.00      0.008048896
## 4535              3.22         7.70      0.000000000
## 4536              1.16         9.00      0.080000000
## 4537              0.76        11.65      0.008048896
## 4538              0.00         0.00      0.008048896
## 4539              0.00         0.00      0.008048896
## 4541              0.20         0.00      0.008048896
## 4542              0.00         0.00      0.008048896
## 4543              0.00         0.00      0.008048896
## 4545              0.78        10.80      0.008048896
## 4546              0.00         0.00      0.008048896
## 4548              0.00         0.00      0.008048896
## 4549              0.00         0.00      0.008048896
## 4550              0.50         4.80      0.008048896
## 4552              0.00         0.00      0.000000000
## 4555              0.00         0.00      0.008048896
## 4556              0.38         6.90      0.008048896
## 4558              0.00         0.00      0.000000000
## 4560              0.29         5.60      0.008048896
## 4561              3.00        10.80      0.008048896
## 4562              0.00         0.00      0.008048896
## 4564              0.00         0.00      0.008048896
## 4565              0.00         0.00      0.000000000
## 4566              2.96         9.30      0.000000000
## 4567              2.90         8.60      0.008048896
## 4568              0.00         0.00      0.008048896
## 4569              0.00         0.00      0.000000000
## 4572              0.00         0.00      0.000000000
## 4574              0.21         4.59      0.008048896
## 4575              0.00         0.00      0.000000000
## 4577              0.00         0.00      0.000000000
## 4578              0.00         0.00      0.000000000
## 4580              0.00         0.00      0.008048896
## 4581              0.22         6.10      0.008048896
## 4582              2.09        42.60      0.000000000
## 4583              0.00         0.00      0.008048896
## 4584              0.00         0.00      0.000000000
## 4585              0.00         0.00      0.000000000
## 4586              0.00         0.00      0.000000000
```

```
## 4587              0.00          0.00      0.000000000
## 4589              3.70         13.50      0.008048896
## 4590              0.00          0.00      0.000000000
## 4592              0.00          0.00      0.000000000
## 4593              0.00          0.00      0.008048896
## 4594              0.00          0.00      0.000000000
## 4596              0.20          0.00      0.008048896
## 4598              0.00          0.00      0.008048896
## 4599              0.00          0.00      0.008048896
## 4601              0.00          0.00      0.008048896
## 4602              0.00          0.00      0.000000000
## 4603              0.21          4.40      0.000000000
## 4604              0.62         13.41      0.008048896
## 4605              0.00          0.00      0.000000000
## 4606              0.00          0.00      0.000000000
## 4607              0.00          0.00      0.008048896
## 4608              1.64          7.50      0.000000000
## 4609              0.00          0.00      0.000000000
## 4611              0.00          0.00      0.008048896
## 4612              0.00          0.00      0.000000000
## 4614              0.00          0.00      0.000000000
## 4615              0.00          0.00      0.008048896
## 4616              0.00          0.00      0.008048896
## 4617              0.00          0.00      0.000000000
## 4618              0.00          0.00      0.000000000
## 4619              0.00          0.00      0.008048896
## 4620              0.42          8.10      0.008048896
## 4621              0.00          0.00      0.000000000
## 4622              0.66         12.40      0.008048896
## 4624              0.00          0.00      0.000000000
## 4625              0.00          0.00      0.008048896
## 4626              0.00          0.00      0.000000000
## 4627              0.00          0.00      0.000000000
## 4628              0.00          0.00      0.008048896
## 4629              0.00          0.00      0.000000000
## 4630              0.20          4.40      0.008048896
## 4632              0.00          0.00      0.008048896
## 4634              0.48          0.00      0.008048896
## 4635              0.00          0.00      0.008048896
## 4636              0.32          4.20      0.008048896
## 4637              0.25          5.10      0.000000000
## 4639              0.00          0.00      0.000000000
## 4640              0.21          4.10      0.008048896
## 4641              0.00          0.00      0.000000000
## 4642              0.00          0.00      0.000000000
## 4643              0.00          0.00      0.008048896
## 4645              0.20          4.90      0.000000000
## 4646              3.72         26.30      0.080000000
## 4647              2.95          8.20      0.008048896
## 4648              0.00          0.00      0.008048896
## 4649              0.00          0.00      0.000000000
## 4650              0.00          0.00      0.008048896
## 4651              0.21          4.50      0.008048896
## 4652              0.00          0.00      0.008048896
```

```
## 4653                0.79             12.73           0.000000000
## 4654                0.03              0.00           0.008048896
## 4656                0.00              0.00           0.008048896
## 4657                0.00              0.00           0.008048896
## 4658                0.00              0.00           0.000000000
## 4659                0.28              4.80           0.008048896
## 4661                0.00              0.00           0.000000000
## 4662                0.00              0.00           0.008048896
## 4664                0.00              0.00           0.008048896
## 4665                0.00              0.00           0.000000000
## 4668                0.00              0.00           0.008048896
## 4669                0.00              0.00           0.008048896
## 4670                0.00              0.00           0.008048896
## 4674                0.33              5.20           0.008048896
## 4675                0.00              0.00           0.000000000
## 4676                0.00              0.00           0.000000000
## 4677                0.00              0.00           0.000000000
## 4678                0.00              0.00           0.000000000
## 4679                1.70              8.10           0.008048896
## 4683                2.89              7.50           0.008048896
## 4685                0.00              0.00           0.000000000
## 4686                0.90              9.90           0.008048896
## 4688                0.88             13.40           0.008048896
## 4689                0.97             13.36           0.008048896
## 4690                0.00              0.00           0.000000000
## 4691                0.00              0.00           0.008048896
## 4694                0.00              0.00           0.000000000
## 4696                1.41             13.50           0.008048896
## 4697                0.92             11.90           0.008048896
## 4698                0.76              9.40           0.008048896
## 4699                0.99             11.60           0.008048896
## 4700                0.00              0.00           0.008048896
## 4702                0.25              4.50           0.000000000
## 4704                0.00              0.00           0.008048896
## 4708                0.00              0.00           0.008048896
## 4709                0.00              0.00           0.000000000
## 4710                0.00              0.00           0.000000000
## 4711                0.00              0.00           0.008048896
## 4712                1.92              8.80           0.008048896
## 4714                0.00              0.00           0.008048896
## 4715                0.00              0.00           0.008048896
## 4716                2.70              9.90           0.008048896
## 4718                0.25              4.10           0.000000000
## 4719                0.50              0.00           0.000000000
## 4720                0.00              0.00           0.000000000
## 4721                0.77             11.20           0.008048896
## 4722                0.00              0.00           0.000000000
## 4723                0.00              0.00           0.008048896
## 4724                2.85              8.30           0.000000000
## 4725                0.00              0.00           0.008048896
## 4728                0.00              0.00           0.000000000
## 4730                0.65             11.40           0.008048896
## 4731                0.30              5.00           0.008048896
## 4732                0.00              0.00           0.000000000
```

```
## 4733              0.00          0.00       0.000000000
## 4734              0.00          0.00       0.000000000
## 4735              0.00          0.00       0.000000000
## 4736              0.00          0.00       0.008048896
## 4737              0.00          0.00       0.000000000
## 4738              0.00          0.00       0.008048896
## 4739              0.00          0.00       0.000000000
## 4740              0.00          0.00       0.000000000
## 4741              0.00          0.00       0.000000000
## 4742              0.42         42.00       0.000000000
## 4744              0.29          5.50       0.000000000
## 4746              0.00          0.00       0.000000000
## 4747              0.13          0.00       0.008048896
## 4748              0.41          5.60       0.000000000
## 4749              0.00          0.00       0.000000000
## 4750              0.59          7.60       0.008048896
## 4751              0.00          0.00       0.000000000
## 4752              0.00          0.00       0.000000000
## 4753              0.00          0.00       0.000000000
## 4754              4.44         15.50       0.000000000
## 4755              0.20          0.00       0.008048896
## 4757              0.00          0.00       0.000000000
## 4759              2.98          8.00       0.008048896
## 4760              0.45          9.90       0.008048896
## 4761              0.00          0.00       0.000000000
## 4762              0.42          5.80       0.008048896
## 4763              0.00          0.00       0.008048896
## 4765              0.26          4.80       0.008048896
## 4766              0.84         12.20       0.008048896
## 4767              2.48          9.00       0.000000000
## 4769              0.00          0.00       0.008048896
## 4770              0.00          0.00       0.008048896
## 4771              0.00          0.00       0.008048896
## 4772              0.00          0.00       0.000000000
## 4773              0.00          0.00       0.008048896
## 4774              2.29          7.50       0.000000000
## 4776              0.00          0.00       0.008048896
## 4778              0.00          0.00       0.008048896
## 4779              0.00          0.00       0.008048896
## 4780              0.00          0.00       0.008048896
## 4781              0.00          0.00       0.008048896
## 4783              0.00          0.00       0.008048896
## 4784              0.18          4.40       0.000000000
## 4786              0.65         12.40       0.008048896
## 4787              0.42         40.00       0.000000000
## 4788              0.90          0.00       0.008048896
## 4789              0.00          0.00       0.000000000
## 4790              0.73         10.38       0.000000000
## 4791              1.28         15.50       0.000000000
## 4793              0.00          0.00       0.008048896
## 4794              0.00          0.00       0.000000000
## 4795              0.00          0.00       0.000000000
## 4796              2.55          7.70       0.000000000
## 4797              0.00          0.00       0.000000000
```

```
## 4798              0.00           0.00        0.000000000
## 4799              0.96          10.50        0.008048896
## 4800              0.00           0.00        0.008048896
## 4801              0.00           0.00        0.008048896
## 4804              0.00           0.00        0.008048896
## 4805              0.00           0.00        0.008048896
## 4806              0.00           0.00        0.000000000
## 4807              0.00           0.00        0.000000000
## 4808              0.00           0.00        0.000000000
## 4809              0.00           0.00        0.000000000
## 4810              0.69           9.10        0.008048896
## 4812              0.00           0.00        0.008048896
## 4813              0.33           5.30        0.008048896
## 4814              0.68          11.71        0.008048896
## 4815              0.00           0.00        0.000000000
## 4816              0.21           5.00        0.000000000
## 4817              2.52           7.40        0.000000000
## 4820              0.30           4.60        0.000000000
## 4821              0.00           0.00        0.000000000
## 4822              0.00           0.00        0.000000000
## 4823              3.22          10.30        0.008048896
## 4824              0.00           0.00        0.008048896
## 4826              0.00           0.00        0.000000000
## 4827              0.00           0.00        0.008048896
## 4828              0.00           0.00        0.000000000
## 4829              1.46          10.50        0.008048896
## 4830              0.00           0.00        0.000000000
## 4831              0.00           0.00        0.000000000
## 4832              0.00           0.00        0.008048896
## 4833              0.00           0.00        0.000000000
## 4834              0.00           0.00        0.008048896
## 4835              0.00           0.00        0.000000000
## 4836              2.63          16.00        0.008048896
## 4837              3.25          11.00        0.000000000
## 4838              0.14           0.00        0.008048896
## 4839              0.00           0.00        0.000000000
## 4841              0.35           5.00        0.008048896
## 4844              0.88          11.10        0.008048896
## 4845              2.91           8.20        0.000000000
## 4846              0.00           0.00        0.008048896
## 4848              0.00           0.00        0.008048896
## 4851              0.50           0.00        0.008048896
## 4852              0.00           0.00        0.008048896
## 4853              0.00           0.00        0.000000000
## 4854              0.00           0.00        0.000000000
## 4855              0.00           0.00        0.000000000
## 4856              1.13           6.30        0.008048896
## 4857              0.00           0.00        0.000000000
## 4858              0.00           0.00        0.008048896
## 4860              0.00           0.00        0.000000000
## 4861              0.00           0.00        0.008048896
## 4862              0.20           0.00        0.008048896
## 4864              0.00           0.00        0.000000000
## 4865              0.00           0.00        0.000000000
```

```
## 4866                  0.00            0.00           0.000000000
## 4867                  0.00            0.00           0.000000000
## 4868                  0.00            0.00           0.000000000
## 4869                  0.38            5.90           0.000000000
## 4871                  0.00            0.00           0.008048896
## 4873                  0.66           10.20           0.008048896
## 4875                  1.80           34.00           0.008048896
## 4876                  0.00            0.00           0.000000000
## 4878                  0.00            0.00           0.000000000
## 4880                  0.00            0.00           0.008048896
## 4881                  0.00            0.00           0.008048896
## 4882                  0.00            0.00           0.000000000
## 4884                  2.52            9.50           0.008048896
## 4885                  0.00            0.00           0.000000000
## 4886                  0.37            6.00           0.008048896
## 4888                  0.00            0.00           0.000000000
## 4889                  0.00            0.00           0.000000000
## 4890                  0.00            0.00           0.000000000
## 4891                  0.00            0.00           0.000000000
## 4892                  2.47           17.00           0.000000000
## 4893                  0.73           13.40           0.000000000
## 4894                  0.00            0.00           0.000000000
## 4896                  0.00            0.00           0.000000000
## 4897                  0.00            0.00           0.000000000
## 4898                  3.01            8.80           0.000000000
## 4901                  0.00            0.00           0.000000000
## 4903                  0.00            0.00           0.000000000
## 4905                  0.00            0.00           0.000000000
## 4906                  0.00            0.00           0.000000000
## 4907                  0.67            9.70           0.008048896
## 4908                  0.00            0.00           0.008048896
## 4909                  0.00            0.00           0.008048896
## 4911                  0.00            0.00           0.000000000
## 4915                  3.09           16.00           0.008048896
## 4916                  3.24            8.00           0.070000000
## 4918                  1.27           15.40           0.000000000
## 4922                  0.78           12.00           0.008048896
## 4924                  0.37            5.40           0.096000000
## 4925                  0.00            0.00           0.000000000
## 4926                  0.24            4.70           0.000000000
## 4927                  1.10           10.00           0.008048896
## 4931                  0.00            0.00           0.000000000
## 4932                  0.50            4.50           0.008048896
## 4934                  0.05            0.00           0.008048896
## 4935                  1.47           12.20           0.008048896
## 4936                  0.00            0.00           0.008048896
## 4937                  0.00            0.00           0.000000000
## 4939                  1.29           14.20           0.008048896
## 4941                  0.00            0.00           0.008048896
## 4942                  0.01            0.00           0.008048896
## 4943                  0.00            0.00           0.008048896
## 4944                  0.00            0.00           0.000000000
## 4945                  0.00            0.00           0.000000000
## 4946                  0.00            0.00           0.008048896
```

```
## 4947                   0.00          0.00        0.008048896
## 4948                   0.00          0.00        0.008048896
## 4950                   0.00          0.00        0.000000000
## 4952                   0.00          0.00        0.000000000
## 4953                   0.00          0.00        0.000000000
## 4954                   0.00          0.00        0.008048896
## 4955                   0.24          4.60        0.008048896
## 4956                   0.00          0.00        0.000000000
## 4957                   0.50          0.00        0.008048896
## 4958                   0.00          0.00        0.000000000
## 4959                   0.00          0.00        0.000000000
## 4960                   2.52          8.80        0.000000000
## 4961                   0.86         11.20        0.008048896
## 4962                   2.12         19.60        0.008048896
## 4964                   0.00          0.00        0.000000000
## 4969                   0.00          0.00        0.008048896
## 4970                   0.00          0.00        0.000000000
## 4971                   0.00          0.00        0.008048896
## 4972                   0.22          4.60        0.008048896
## 4974                   2.99         10.30        0.008048896
## 4976                   0.31          5.20        0.000000000
## 4977                   0.00          0.00        0.000000000
## 4980                   0.00          0.00        0.008048896
## 4983                   0.00          0.00        0.000000000
## 4984                   0.69          0.00        0.008048896
## 4985                   0.00          0.00        0.000000000
## 4986                   2.80          7.50        0.100000000
## 4987                   0.00          0.00        0.000000000
## 4989                   0.00          0.00        0.008048896
## 4991                   0.00          0.00        0.000000000
## 4992                   0.00          0.00        0.000000000
## 4994                   0.00          0.00        0.000000000
## 4996                   0.30          4.50        0.000000000
## 4997                   0.00          0.00        0.000000000
## 4999                   0.00          0.00        0.000000000
## 5000                   3.49         12.10        0.008048896
## 5001                   0.00          0.00        0.008048896
## 5002                   0.00          0.00        0.000000000
## 5003                   0.00          0.00        0.008048896
## 5004                   0.00          0.00        0.000000000
## 5005                   0.41          0.00        0.000000000
## 5006                   0.00          0.00        0.000000000
## 5007                   0.00          0.00        0.000000000
## 5009                   0.25          5.20        0.077000000
## 5010                   3.32          9.00        0.008048896
## 5011                   0.00          0.00        0.008048896
## 5013                   0.40          0.00        0.008048896
## 5014                   0.38          9.50        0.008048896
## 5015                   0.00          0.00        0.008048896
## 5016                   0.95         12.40        0.000000000
## 5019                   0.00          0.00        0.000000000
## 5020                   0.00          0.00        0.000000000
## 5021                   1.56         23.80        0.008048896
## 5022                   0.00          0.00        0.008048896
```

```
## 5024            3.72            21.90            0.008048896
## 5026            0.71            10.60            0.000000000
## 5029            0.27             4.90            0.008048896
## 5030            0.50            12.50            0.008048896
## 5031            2.54            30.40            0.400000000
## 5033            0.00             0.00            0.000000000
## 5034            2.99             8.40            0.008048896
## 5035            1.72             9.30            0.008048896
## 5036            0.00             0.00            0.000000000
## 5037            0.28             5.70            0.008048896
## 5038            5.81             0.30            0.000000000
## 5039            0.00             0.00            0.008048896
## 5043            0.00             0.00            0.008048896
## 5044            0.00             0.00            0.000000000
## 5045            0.00             0.00            0.000000000
## 5046            5.40             0.50            0.000000000
## 5047            0.00             0.00            0.008048896
## 5048            0.00             0.00            0.000000000
## 5050            0.89             6.00            0.008048896
## 5053            0.00             0.00            0.000000000
## 5055            0.00             0.00            0.008048896
## 5057            0.22             4.60            0.068000000
## 5058            0.00             0.00            0.008048896
## 5059            0.00             0.00            0.008048896
## 5060            3.43            10.90            0.008048896
## 5061            0.41             5.10            0.008048896
## 5064            0.00             0.00            0.008048896
## 5065            0.21             4.40            0.000000000
## 5066            0.00             0.00            0.008048896
## 5067            0.00             0.00            0.000000000
## 5069            0.00             0.00            0.008048896
## 5071            0.00             0.00            0.008048896
## 5074            0.00             0.00            0.008048896
## 5075            0.68            16.90            0.300000000
## 5076            0.31             5.10            0.000000000
## 5077            0.00             0.00            0.000000000
## 5078            0.00             0.00            0.000000000
## 5082            0.00             0.00            0.000000000
## 5084            0.00             0.00            0.000000000
## 5085            0.00             0.00            0.000000000
## 5086            0.00             0.00            0.008048896
## 5087            0.28             5.50            0.000000000
## 5089            0.00             0.00            0.008048896
## 5091            0.31             5.10            0.000000000
## 5092            0.00             0.00            0.000000000
## 5094            0.00             0.00            0.008048896
## 5097            0.00             0.00            0.000000000
## 5101            0.00             0.00            0.000000000
## 5102            0.31             4.70            0.000000000
## 5103            3.24             8.90            0.000000000
## 5104            0.00             0.00            0.000000000
## 5106            0.00             0.00            0.008048896
## 5108            0.00             0.00            0.000000000
## 5109            0.20             4.50            0.008048896
```

```
## 5110          2.82         7.20         0.000000000
## 5111          0.00         0.00         0.000000000
## 5112          0.00         0.00         0.000000000
## 5113          2.96         7.80         0.000000000
## 5115          3.13         9.50         0.008048896
## 5117          0.09         2.00         0.008048896
## 5118          0.00         0.00         0.000000000
## 5119          0.00         0.00         0.008048896
## 5120          0.50         0.00         0.008048896
## 5121          1.98         7.40         0.008048896
## 5122          0.00         0.00         0.008048896
## 5123          2.78        10.10         0.008048896
## 5124          0.00         0.00         0.000000000
## 5125          0.35         5.90         0.008048896
## 5126          0.00         0.00         0.000000000
## 5128          0.00         0.00         0.000000000
## 5130          0.93        17.90         0.008048896
## 5131          0.00         0.00         0.000000000
## 5132          0.00         0.00         0.000000000
## 5133          3.05         6.40         0.008048896
## 5134          0.00         0.00         0.000000000
## 5135          0.32         4.70         0.090000000
## 5136          3.05         9.34         0.000000000
## 5137          0.19         0.00         0.008048896
## 5138          0.00         0.00         0.000000000
## 5139          0.00         0.00         0.008048896
## 5140          0.00         0.00         0.000000000
## 5141          0.20         4.40         0.000000000
## 5143          0.00         0.00         0.008048896
## 5144          0.00         0.00         0.000000000
## 5145          0.00         0.00         0.000000000
## 5146          3.20         7.80         0.000000000
## 5147          0.00         0.00         0.008048896
## 5148          0.00         0.00         0.008048896
## 5149          0.00         0.00         0.008048896
## 5150          0.00         0.00         0.000000000
## 5151          0.00         0.00         0.000000000
## 5153          0.00         0.00         0.008048896
## 5154          0.31         5.20         0.000000000
## 5155          0.86         8.00         0.008048896
## 5156          0.00         0.00         0.008048896
## 5157          0.95         6.30         0.008048896
## 5158          3.15        17.80         0.008048896
## 5159          0.26         4.60         0.000000000
## 5160          0.91        10.00         0.008048896
## 5161          0.00         0.00         0.000000000
## 5164          0.00         0.00         0.000000000
## 5166          0.00         0.00         0.000000000
## 5168          0.00         0.00         0.000000000
## 5169          3.22        11.00         0.000000000
## 5170          0.82        12.52         0.008048896
## 5171          1.15        14.68         0.000000000
## 5172          0.00         0.00         0.008048896
## 5173          0.00         0.00         0.000000000
```

```
## 5174                0.80              10.93          0.008048896
## 5175                0.00               0.00          0.000000000
## 5176                0.00               0.00          0.000000000
## 5177                0.00               0.00          0.000000000
## 5179                0.30               0.00          0.000000000
## 5180                0.00               0.00          0.000000000
## 5185                0.21               4.50          0.008048896
## 5186                1.29              10.50          0.008048896
## 5187                0.05               0.00          0.008048896
## 5188                0.00               0.00          0.000000000
## 5189                0.00               0.00          0.008048896
## 5190                0.00               0.00          0.008048896
## 5191                0.22               5.40          0.000000000
## 5192                0.89               7.63          0.000000000
## 5193                0.00               0.00          0.000000000
## 5194                0.81              13.03          0.008048896
## 5195                0.00               0.00          0.000000000
## 5196                0.00               0.00          0.008048896
## 5197                0.00               0.00          0.000000000
## 5198                0.00               0.00          0.000000000
## 5200                2.77              18.00          0.000000000
## 5201                0.25               5.30          0.008048896
## 5202                0.25              10.30          0.029000000
## 5203                1.08              10.40          0.008048896
## 5206                3.18              10.60          0.000000000
## 5207                0.00               0.00          0.008048896
## 5208                0.00               0.00          0.008048896
## 5209                0.76              10.20          0.008048896
## 5210                0.00               0.00          0.000000000
## 5213                0.00               0.00          0.008048896
## 5214                0.00               0.00          0.008048896
## 5215                0.62              11.00          0.008048896
## 5218                0.00               0.00          0.008048896
## 5219                0.00               0.00          0.000000000
## 5220                0.00               0.00          0.000000000
## 5223                2.98               8.30          0.000000000
## 5225                0.36               6.10          0.008048896
## 5226                2.74               7.80          0.000000000
## 5227                0.23               5.00          0.008048896
## 5228                0.00               0.00          0.008048896
## 5229                0.00               0.00          0.008048896
## 5230                0.00               0.00          0.008048896
## 5232                2.72               8.40          0.000000000
## 5233                0.00               0.00          0.000000000
## 5234                0.00               0.00          0.000000000
## 5236                0.00               0.00          0.000000000
## 5237                0.57               8.70          0.008048896
## 5238                0.00               0.00          0.000000000
## 5239                1.00              14.30          0.008048896
## 5240                0.00               0.00          0.000000000
## 5241                0.00               0.00          0.000000000
## 5242                1.23              13.90          0.008048896
## 5243                2.19               7.80          0.008048896
## 5244                0.00               0.00          0.000000000
```

```
## 5246             0.29          6.00        0.008048896
## 5247             1.61         12.50        0.000000000
## 5248             0.52         10.60        0.008048896
## 5249             0.00          0.00        0.008048896
## 5250             0.00          0.00        0.000000000
## 5251             0.00          0.00        0.000000000
## 5254             0.00          0.00        0.000000000
## 5255             1.14         11.30        0.087000000
## 5256             0.00          0.00        0.000000000
## 5258             0.25          4.70        0.100000000
## 5260             0.00          0.00        0.000000000
## 5261             0.00          0.00        0.008048896
## 5263             0.00          0.00        0.008048896
## 5264             3.44          9.00        0.086000000
## 5265             0.00          0.00        0.000000000
## 5266             0.00          0.00        0.000000000
## 5267             0.00          0.00        0.000000000
## 5268             2.47          7.50        0.080000000
## 5269             0.00          0.00        0.008048896
## 5270             0.00          0.00        0.008048896
## 5272             0.00          0.00        0.008048896
## 5274             0.00          0.00        0.000000000
## 5275             1.56          7.10        0.008048896
## 5276             3.71         13.80        0.000000000
## 5277             0.30          6.20        0.095000000
## 5278             0.06          0.00        0.008048896
## 5279             0.75         11.80        0.008048896
## 5280             0.00          0.00        0.000000000
## 5281             3.88         16.50        0.390000000
## 5284             0.00          0.00        0.000000000
## 5285             0.00          0.00        0.008048896
## 5286             0.00          0.00        0.008048896
## 5287             0.00          0.00        0.000000000
## 5288             0.00          0.00        0.000000000
## 5289             2.56          8.40        0.008048896
## 5290             0.00          0.00        0.000000000
## 5292             0.00          0.00        0.008048896
## 5294             2.26          8.50        0.008048896
## 5295             0.00          0.00        0.000000000
## 5296             0.27          4.90        0.008048896
## 5297             0.00          0.00        0.000000000
## 5298             0.42          9.90        0.008048896
## 5299             0.00          0.00        0.000000000
## 5301             0.00          0.00        0.000000000
## 5302             0.00          0.00        0.000000000
## 5303             0.19          4.40        0.008048896
## 5304             0.19          4.40        0.000000000
## 5307             0.00          0.00        0.008048896
## 5308             0.00          0.00        0.008048896
## 5309             0.23          4.58        0.008048896
## 5310             0.72          5.59        0.008048896
## 5313             0.00          0.00        0.000000000
## 5315             0.22          4.70        0.000000000
## 5316             0.41         11.90        0.008048896
```

```
## 5317               0.00          0.00       0.000000000
## 5319               0.50          0.00       0.008048896
## 5320               2.68          7.80       0.342000000
## 5321               0.00          0.00       0.000000000
## 5322               0.00          0.00       0.000000000
## 5323               0.30          0.00       0.000000000
## 5325               0.00          0.00       0.000000000
## 5326               0.77         10.10       0.008048896
## 5327               0.00          0.00       0.000000000
## 5328               0.00          0.00       0.008048896
## 5329               0.00          0.00       0.000000000
## 5333               0.00          0.00       0.000000000
## 5334               3.32          8.50       0.100000000
## 5336               0.00          0.00       0.000000000
## 5337               5.02          0.30       0.008048896
## 5338               0.00          0.00       0.000000000
## 5339               0.82         11.90       0.008048896
## 5341               0.20          0.00       0.008048896
## 5343               0.00          0.00       0.008048896
## 5345               0.00          0.00       0.008048896
## 5346               0.00          0.00       0.000000000
## 5347               0.00          0.00       0.008048896
## 5348               0.00          0.00       0.008048896
## 5349               0.50          0.00       0.008048896
## 5350               2.28          8.80       0.008048896
## 5351               0.00          0.00       0.008048896
## 5352               0.48          0.00       0.000000000
## 5355               0.40          5.50       0.000000000
## 5356               0.00          0.00       0.000000000
## 5358               0.00          0.00       0.000000000
## 5359               0.00          0.00       0.000000000
## 5360               0.87         12.20       0.008048896
## 5361               0.00          0.00       0.008048896
## 5362               0.28          4.60       0.000000000
## 5363               0.00          0.00       0.008048896
## 5365               0.64         14.90       0.050000000
## 5366               0.00          0.00       0.008048896
## 5368               0.78         12.95       0.008048896
## 5370               1.11         10.50       0.100000000
## 5371               1.89          8.30       0.000000000
## 5372               0.00          0.00       0.000000000
## 5374               0.00          0.00       0.000000000
## 5375               0.00          0.00       0.008048896
## 5377               0.01          0.00       0.008048896
## 5378               2.59          7.70       0.000000000
## 5379               0.00          0.00       0.000000000
## 5380               0.98         10.07       0.008048896
## 5381               4.74         19.60       0.000000000
## 5382               0.00          0.00       0.008048896
## 5383               0.00          0.00       0.000000000
## 5384               1.45          8.00       0.008048896
## 5386               1.59          8.80       0.008048896
## 5387               0.00          0.00       0.008048896
## 5389               0.00          0.00       0.000000000
```

```
## 5390            0.00        0.00      0.000000000
## 5391            0.00        0.00      0.008048896
## 5392            0.00        0.00      0.000000000
## 5393            0.00        0.00      0.008048896
## 5394            1.82        7.50      0.008048896
## 5395            0.00        0.00      0.008048896
## 5396            1.38       11.30      0.008048896
## 5397            0.00        0.00      0.000000000
## 5398            3.25       10.10      0.008048896
## 5399            0.00        0.00      0.000000000
## 5400            0.00        0.00      0.008048896
## 5402            0.02        0.00      0.008048896
## 5403            0.22        4.10      0.000000000
## 5404            0.26        5.20      0.008048896
## 5405            0.00        0.00      0.000000000
## 5407            0.70        0.00      0.000000000
## 5411            0.85       13.90      0.008048896
## 5416            0.00        0.00      0.008048896
## 5417            0.00        0.00      0.008048896
## 5418            0.00        0.00      0.000000000
## 5420            0.00        0.00      0.000000000
## 5421            0.29        5.40      0.000000000
## 5422            0.30        5.20      0.000000000
## 5423            0.00        0.00      0.008048896
## 5424            0.00        0.00      0.008048896
## 5425            0.00        0.00      0.008048896
## 5428            0.00        0.00      0.000000000
## 5429            0.00        0.00      0.008048896
## 5430            0.63        8.60      0.008048896
## 5431            0.00        0.00      0.008048896
## 5433            0.00        0.00      0.008048896
## 5434            0.75       36.40      0.000000000
## 5435            0.00        0.00      0.008048896
## 5437            0.00        0.00      0.000000000
## 5438            0.00        0.00      0.000000000
## 5440            0.00        0.00      0.000000000
## 5441            0.00        0.00      0.008048896
## 5442            0.00        0.00      0.000000000
## 5443            0.00        0.00      0.008048896
## 5444            0.42       42.00      0.000000000
## 5445            0.27        4.20      0.008048896
## 5446            0.00        0.00      0.008048896
## 5447            0.00        0.00      0.000000000
## 5448            0.58       10.70      0.100000000
## 5451            0.00        0.00      0.000000000
## 5452            0.43        5.90      0.076000000
## 5453            0.00        0.00      0.000000000
## 5454            0.90        6.70      0.000000000
## 5455            0.00        0.00      0.000000000
## 5459            0.00        0.00      0.000000000
## 5460            0.00        0.00      0.008048896
## 5461            0.00        0.00      0.000000000
## 5463            0.00        0.00      0.000000000
## 5464            1.09        8.50      0.000000000
```

```
## 5465                    0.00            0.00         0.000000000
## 5466                    0.00            0.00         0.008048896
## 5467                    2.04            8.20         0.008048896
## 5468                    0.00            0.00         0.000000000
## 5469                    0.00            0.00         0.000000000
## 5470                    0.30            5.30         0.008048896
## 5471                    0.37            5.30         0.008048896
## 5473                    0.00            0.00         0.000000000
## 5475                    0.20            4.60         0.008048896
## 5476                    1.20           19.00         0.008048896
## 5478                    1.22            6.90         0.120000000
## 5480                    0.82           11.27         0.008048896
## 5483                    0.00            0.00         0.008048896
## 5484                    0.38            3.90         0.008048896
## 5485                    0.00            0.00         0.000000000
## 5486                    0.74           23.10         0.008048896
## 5488                    0.00            0.00         0.000000000
## 5489                    2.10            0.00         0.000000000
## 5490                    0.45            5.50         0.008048896
## 5491                    0.00            0.00         0.000000000
## 5492                    0.00            0.00         0.008048896
## 5493                    0.00            0.00         0.000000000
## 5495                    0.00            0.00         0.008048896
## 5496                    0.25            4.20         0.080000000
## 5497                    0.00            0.00         0.000000000
## 5498                    0.00            0.00         0.000000000
## 5499                    0.00            0.00         0.000000000
## 5500                    0.72           11.00         0.008048896
## 5501                    0.00            0.00         0.000000000
## 5503                    0.00            0.00         0.000000000
## 5504                    0.00            0.00         0.000000000
## 5505                    0.35            5.30         0.008048896
## 5506                    0.00            0.00         0.000000000
## 5508                    0.00            0.00         0.008048896
## 5509                    0.00            0.00         0.000000000
## 5510                    0.00            0.00         0.008048896
## 5511                    0.00            0.00         0.008048896
## 5512                    0.00            0.00         0.000000000
## 5513                    0.00            0.00         0.000000000
## 5515                    1.64            6.70         0.008048896
## 5517                    0.00            0.00         0.008048896
## 5518                    0.35           41.10         0.008048896
## 5519                    0.00            0.00         0.000000000
## 5520                    0.00            0.00         0.000000000
## 5521                    2.59            7.80         0.008048896
## 5525                    0.51            9.60         0.060000000
## 5526                    2.73           13.90         0.008048896
## 5527                    0.78           13.50         0.000000000
## 5528                    0.00            0.00         0.000000000
## 5529                    0.00            0.00         0.008048896
## 5530                    0.00            0.00         0.000000000
## 5531                    0.00            0.00         0.000000000
## 5532                    0.00            0.00         0.000000000
## 5534                    0.00            0.00         0.000000000
```

```
## 5535            0.79           13.18           0.008048896
## 5537            0.00            0.00            0.000000000
## 5538            0.00            0.00            0.000000000
## 5539            0.24            5.30            0.065000000
## 5540            0.00            0.00            0.008048896
## 5541            0.00            0.00            0.000000000
## 5542            2.99            8.20            0.008048896
## 5543            1.12           12.60            0.008048896
## 5544            0.94           12.28            0.000000000
## 5545            0.00            0.00            0.000000000
## 5546            3.11            9.00            0.086000000
## 5547            0.00            0.00            0.000000000
## 5548            1.34           10.60            0.008048896
## 5549            2.92            8.10            0.000000000
## 5550            0.00            0.00            0.008048896
## 5551            2.66            9.00            0.000000000
## 5552            0.00            0.00            0.008048896
## 5553            0.00            0.00            0.008048896
## 5554            0.00            0.00            0.008048896
## 5555            0.00            0.00            0.008048896
## 5556            0.00            0.00            0.000000000
## 5557            1.92            6.82            0.008048896
## 5559            2.83            8.20            0.000000000
## 5561            2.65            8.00            0.008048896
## 5563            0.00            0.00            0.000000000
## 5565            3.09            6.50            0.008048896
## 5566            0.00            0.00            0.008048896
## 5567            0.00            0.00            0.008048896
## 5568            0.00            0.00            0.000000000
## 5569            0.35            6.60            0.000000000
## 5572            0.00            0.00            0.000000000
## 5573            0.00            0.00            0.000000000
## 5574            0.00            0.00            0.008048896
## 5575            0.00            0.00            0.008048896
## 5576            0.00            0.00            0.008048896
## 5578            0.00            0.00            0.008048896
## 5579            0.82           10.70            0.008048896
## 5580            0.00            0.00            0.008048896
## 5581            0.00            0.00            0.000000000
## 5583            0.00            0.00            0.000000000
## 5584            0.00            0.00            0.008048896
## 5585            0.00            0.00            0.008048896
## 5587            0.00            0.00            0.008048896
## 5588            0.00            0.00            0.008048896
## 5591            0.25            6.10            0.000000000
## 5592            1.86           13.10            0.008048896
## 5593            0.00            0.00            0.008048896
## 5594            0.22            4.30            0.000000000
## 5596            2.72           10.20            0.008048896
## 5597            0.00            0.00            0.000000000
## 5598            0.00            0.00            0.008048896
## 5599            0.00            0.00            0.008048896
## 5602            0.00            0.00            0.008048896
## 5603            0.00            0.00            0.000000000
```

```
## 5605                0.34          4.90          0.000000000
## 5606                0.20          4.70          0.008048896
## 5607                0.79         12.94          0.008048896
## 5610                2.29         33.80          0.000000000
## 5611                0.19          4.40          0.000000000
## 5612                0.00          0.00          0.000000000
## 5613                0.10          0.00          0.008048896
## 5614                0.00          0.00          0.000000000
## 5615                0.00          0.00          0.000000000
## 5616                0.00          0.00          0.000000000
## 5617                0.00          0.00          0.000000000
## 5618                0.00          0.00          0.000000000
## 5619                0.00          0.00          0.000000000
## 5620                0.00          0.00          0.008048896
## 5621                0.00          0.00          0.000000000
## 5623                0.00          0.00          0.000000000
## 5624                0.20          4.60          0.008048896
## 5625                0.00          0.00          0.000000000
## 5626                0.00          0.00          0.008048896
## 5627                0.40          5.80          0.008048896
## 5628                0.00          0.00          0.000000000
## 5629                3.38          8.40          0.008048896
## 5630                0.34         42.60          0.008048896
## 5631                0.69         10.40          0.008048896
## 5633                0.67         11.32          0.000000000
## 5634                0.00          0.00          0.008048896
## 5635                0.93          8.60          0.008048896
## 5636                0.00          0.00          0.000000000
## 5637                0.00          0.00          0.008048896
## 5640                0.00          0.00          0.000000000
## 5641                0.00          0.00          0.000000000
## 5642                0.00          0.00          0.000000000
## 5643                0.00          0.00          0.000000000
## 5644                3.00          9.00          0.008048896
## 5645                0.24          5.30          0.008048896
## 5646                0.00          0.00          0.008048896
## 5647                0.00          0.00          0.000000000
## 5648                0.00          0.00          0.008048896
## 5649                0.00          0.00          0.000000000
## 5650                2.63          8.80          0.008048896
## 5651                0.00          0.00          0.000000000
## 5652                4.36          0.40          0.008048896
## 5653                0.00          0.00          0.008048896
## 5654                0.00          0.00          0.000000000
## 5655                0.00          0.00          0.000000000
## 5656                0.00          0.00          0.000000000
## 5657                0.00          0.00          0.008048896
## 5658                0.00          0.00          0.000000000
## 5660                0.00          0.00          0.000000000
## 5664                0.35          6.40          0.008048896
## 5665                0.00          0.00          0.008048896
## 5670                2.77          9.50          0.000000000
## 5671                0.36         45.70          0.008048896
## 5672                0.20          0.00          0.008048896
```

```
## 5673           2.13           16.60          0.008048896
## 5674           0.42           42.00          0.000000000
## 5675           0.00            0.00          0.000000000
## 5676           0.00            0.00          0.008048896
## 5677           0.00            0.00          0.000000000
## 5678           0.00            0.00          0.000000000
## 5679           0.00            0.00          0.008048896
## 5680           0.00            0.00          0.008048896
## 5682           0.00            0.00          0.008048896
## 5684           0.00            0.00          0.000000000
## 5685           0.00            0.00          0.008048896
## 5686           2.57            7.40          0.200000000
## 5687           0.00            0.00          0.000000000
## 5689           0.00            0.00          0.000000000
## 5690           0.00            0.00          0.008048896
## 5691           0.48           11.10          0.008048896
## 5692           0.91            8.90          0.008048896
## 5693           0.00            0.00          0.008048896
## 5698           0.00            0.00          0.008048896
## 5699           0.50           10.10          0.000000000
## 5700           0.00            0.00          0.000000000
## 5701           1.39            6.70          0.000000000
## 5702           0.50            0.00          0.008048896
## 5703           0.21            4.40          0.000000000
## 5704           0.00            0.00          0.000000000
## 5705           0.00            0.00          0.000000000
## 5707           0.00            0.00          0.000000000
## 5709           0.00            0.00          0.000000000
## 5710           0.23            4.70          0.008048896
## 5711           0.00            0.00          0.008048896
## 5713           0.00            0.00          0.000000000
## 5715           0.00            0.00          0.000000000
## 5716           0.00            0.00          0.008048896
## 5718           0.92            6.50          0.080000000
## 5719           3.56            0.30          0.000000000
## 5720           0.00            0.00          0.000000000
## 5721           1.08            6.60          0.008048896
## 5722           1.58            8.10          0.000000000
## 5723           0.33            5.20          0.008048896
## 5724           0.00            0.00          0.008048896
## 5726           0.00            0.00          0.000000000
## 5727           0.00            0.00          0.000000000
## 5728           0.00            0.00          0.000000000
## 5730           0.00            0.00          0.000000000
## 5731           0.00            0.00          0.000000000
## 5732           3.62            7.90          0.000000000
## 5734           0.00            0.00          0.000000000
## 5735           0.00            0.00          0.000000000
## 5736           1.00            7.00          0.008048896
## 5737           0.00            0.00          0.008048896
## 5738           0.00            0.00          0.008048896
## 5739           0.00            0.00          0.000000000
## 5740           0.00            0.00          0.000000000
## 5741           0.00            0.00          0.000000000
```

```
## 5742           0.00        0.00      0.008048896
## 5743           0.00        0.00      0.008048896
## 5744           0.00        0.00      0.000000000
## 5746           0.34        5.90      0.100000000
## 5747           0.00        0.00      0.000000000
## 5748           0.00        0.00      0.000000000
## 5749           0.22        5.10      0.000000000
## 5750           0.70       11.40      0.008048896
## 5752           0.00        0.00      0.000000000
## 5753           0.21        4.40      0.000000000
## 5754           0.42       42.00      0.000000000
## 5756           0.00        0.00      0.000000000
## 5757           0.00        0.00      0.000000000
## 5758           0.00        0.00      0.000000000
## 5759           0.00        0.00      0.000000000
## 5760           0.23        4.80      0.000000000
## 5764           0.00        0.00      0.008048896
## 5765           0.00        0.00      0.008048896
## 5767           0.00        0.00      0.000000000
## 5768           0.00        0.00      0.008048896
## 5769           1.71        7.60      0.008048896
## 5771           2.75        8.70      0.008048896
## 5772           0.99       11.75      0.008048896
## 5773           0.00        0.00      0.000000000
## 5774           0.00        0.00      0.000000000
## 5775           0.00        0.00      0.008048896
## 5776           1.10        6.20      0.008048896
## 5777           0.00        0.00      0.000000000
## 5779           0.00        0.00      0.008048896
## 5781           0.30        5.30      0.000000000
## 5782           0.68        7.90      0.000000000
## 5783           2.38        8.70      0.000000000
## 5784           0.00        0.00      0.000000000
## 5786           0.00        0.00      0.008048896
## 5787           0.00        0.00      0.000000000
## 5788           0.00        0.00      0.008048896
## 5791           0.00        0.00      0.008048896
## 5793           0.00        0.00      0.008048896
## 5794           0.00        0.00      0.000000000
## 5795           0.00        0.00      0.008048896
## 5796           0.00        0.00      0.000000000
## 5797           0.00        0.00      0.000000000
## 5798           0.00        0.00      0.000000000
## 5800           0.66        7.90      0.000000000
## 5801           1.26        6.00      0.008048896
## 5803           0.00        0.00      0.008048896
## 5804           2.99        8.30      0.000000000
## 5805           0.20        4.50      0.008048896
## 5807           0.00        0.00      0.008048896
## 5808           1.91       13.90      0.008048896
## 5809           0.00        0.00      0.000000000
## 5811           0.64       11.90      0.008048896
## 5812           0.00        0.00      0.008048896
## 5813           1.46        7.60      0.008048896
```

```
## 5814              0.00          0.00       0.000000000
## 5818              0.37          0.00       0.000000000
## 5819              0.00          0.00       0.000000000
## 5820              0.00          0.00       0.008048896
## 5821              4.93         14.00       0.000000000
## 5823              0.00          0.00       0.000000000
## 5825              1.48         16.10       0.000000000
## 5827              0.24          4.70       0.008048896
## 5828              0.00          0.00       0.000000000
## 5829              0.00          0.00       0.008048896
## 5832              0.00          0.00       0.008048896
## 5833              2.94          8.50       0.000000000
## 5834              0.00          0.00       0.008048896
## 5835              0.00          0.00       0.008048896
## 5836              0.19          4.50       0.000000000
## 5837              0.00          0.00       0.008048896
## 5838              0.20          4.60       0.008048896
## 5841              1.24          9.70       0.008048896
## 5842              0.00          0.00       0.008048896
## 5843              1.42          8.60       0.008048896
## 5844              1.53          9.60       0.008048896
## 5846              0.27          5.20       0.000000000
## 5847              0.00          0.00       0.008048896
## 5848              0.00          0.00       0.000000000
## 5849              0.00          0.00       0.000000000
## 5850              0.18          4.50       0.000000000
## 5852              0.00          0.00       0.000000000
## 5853              0.00          0.00       0.000000000
## 5856              0.00          0.00       0.000000000
## 5858              2.92          9.10       0.000000000
## 5859              0.41          5.40       0.008048896
## 5860              0.00          0.00       0.008048896
## 5861              2.95          8.20       0.008048896
## 5862              0.00          0.00       0.008048896
## 5863              0.30          0.00       0.008048896
## 5864              2.76          8.80       0.008048896
## 5865              0.00          0.00       0.000000000
## 5866              0.00          0.00       0.008048896
## 5867              0.00          0.00       0.000000000
## 5869              0.00          0.00       0.008048896
## 5870              2.96          7.70       0.000000000
## 5873              0.00          0.00       0.000000000
## 5874              0.00          0.00       0.000000000
## 5877              0.00          0.00       0.008048896
## 5878              0.00          0.00       0.000000000
## 5879              0.00          0.00       0.000000000
## 5882              0.29          5.80       0.100000000
## 5883              0.00          0.00       0.008048896
## 5885              1.22          8.50       0.008048896
## 5889              0.00          0.00       0.000000000
## 5890              0.00          0.00       0.008048896
## 5894              0.00          0.00       0.000000000
## 5895              0.00          0.00       0.008048896
## 5896              2.27          8.90       0.008048896
```

```
## 5898              0.00          0.00       0.008048896
## 5899              0.23          4.65       0.000000000
## 5900              0.50          0.00       0.008048896
## 5901              1.08         10.90       0.008048896
## 5902              2.85          7.80       0.008048896
## 5903              0.00          0.00       0.000000000
## 5904              0.00          0.00       0.000000000
## 5905              0.00          0.00       0.008048896
## 5906              0.00          0.00       0.008048896
## 5907              0.00          0.00       0.000000000
## 5908              0.00          0.00       0.000000000
## 5909              5.07          0.14       0.008048896
## 5911              0.52         12.00       0.000000000
## 5912              0.34          4.00       0.008048896
## 5913              0.85          6.60       0.008048896
## 5914              0.00          0.00       0.000000000
## 5915              1.17          8.62       0.008048896
## 5917              3.18          8.00       0.000000000
## 5919              0.00          0.00       0.000000000
## 5921              0.00          0.00       0.008048896
## 5922              0.00          0.00       0.000000000
## 5924              0.00          0.00       0.008048896
## 5926              0.50          0.00       0.008048896
## 5927              0.19          4.50       0.008048896
## 5928              0.44         64.00       0.000000000
## 5929              0.00          0.00       0.008048896
## 5932              1.09         15.00       0.008048896
## 5933              0.00          0.00       0.000000000
## 5934              1.11         10.20       0.008048896
## 5935              2.60          8.00       0.000000000
## 5936              0.94         10.60       0.008048896
## 5937              0.20          4.60       0.000000000
## 5938              0.00          0.00       0.008048896
## 5939              0.00          0.00       0.000000000
## 5941              3.63          9.60       0.000000000
## 5943              0.00          0.00       0.000000000
## 5944              0.00          0.00       0.000000000
## 5945              0.00          0.00       0.000000000
## 5946              2.31         12.50       0.008048896
## 5947              0.00          0.00       0.008048896
## 5948              0.00          0.00       0.008048896
## 5949              0.00          0.00       0.000000000
## 5951              0.00          0.00       0.000000000
## 5952              0.00          0.00       0.008048896
## 5953              0.00          0.00       0.008048896
## 5954              0.00          0.00       0.008048896
## 5956              0.79          7.20       0.100000000
## 5957              0.00          0.00       0.000000000
## 5958              0.28          5.30       0.008048896
## 5959              0.00          0.00       0.000000000
## 5960              0.00          0.00       0.000000000
## 5961              0.00          0.00       0.000000000
## 5962              0.00          0.00       0.008048896
## 5963              0.20          0.00       0.008048896
```

```
## 5964                0.00            0.00      0.000000000
## 5965                0.00            0.00      0.000000000
## 5966                0.00            0.00      0.000000000
## 5968                0.00            0.00      0.008048896
## 5970                0.00            0.00      0.008048896
## 5971                0.00            0.00      0.008048896
## 5972                0.00            0.00      0.000000000
## 5973                0.00            0.00      0.000000000
## 5974                0.83           12.80      0.008048896
## 5976                2.19           21.20      0.008048896
## 5978                0.00            0.00      0.008048896
## 5979                0.00            0.00      0.000000000
## 5980                0.00            0.00      0.000000000
## 5981                0.31            4.70      0.000000000
## 5982                0.00            0.00      0.008048896
## 5983                1.04            9.80      0.008048896
## 5984                0.00            0.00      0.000000000
## 5985                0.00            0.00      0.008048896
## 5986                0.80           13.08      0.000000000
## 5991                0.26            4.40      0.000000000
## 5992                3.41            8.30      0.000000000
## 5994                0.00            0.00      0.000000000
## 5995                0.00            0.00      0.000000000
## 5997                0.00            0.00      0.008048896
## 5998                0.00            0.00      0.000000000
## 6000                1.28           10.30      0.110000000
## 6002                0.00            0.00      0.008048896
## 6003                6.00            0.50      0.008048896
## 6005                4.15           10.52      0.000000000
## 6006                0.82           11.40      0.008048896
## 6008                0.00            0.00      0.008048896
## 6009                0.00            0.00      0.000000000
## 6010                0.00            0.00      0.008048896
## 6012                0.00            0.00      0.000000000
## 6013                0.00            0.00      0.000000000
## 6014                0.00            0.00      0.000000000
## 6015                0.00            0.00      0.000000000
## 6017                0.00            0.00      0.000000000
## 6018                0.00            0.00      0.000000000
## 6019                0.00            0.00      0.008048896
## 6020                3.11            9.89      0.008048896
## 6022                0.00            0.00      0.000000000
## 6023                0.00            0.00      0.008048896
## 6024                0.00            0.00      0.000000000
## 6026                0.00            0.00      0.000000000
## 6027                0.00            0.00      0.000000000
## 6028                0.00            0.00      0.008048896
## 6029                0.00            0.00      0.000000000
## 6031                1.86           13.10      0.008048896
## 6033                2.61            7.80      0.000000000
## 6035                1.50            0.00      0.008048896
## 6036                0.00            0.00      0.000000000
## 6037                0.00            0.00      0.008048896
## 6039                1.97            8.20      0.000000000
```

```
## 6042              0.00         0.00      0.000000000
## 6043              0.00         0.00      0.000000000
## 6044              2.52         8.20      0.008048896
## 6045              0.89        12.10      0.008048896
## 6047              0.00         0.00      0.000000000
## 6048              4.27         8.80      0.000000000
## 6049              0.00         0.00      0.000000000
## 6050              0.00         0.00      0.000000000
## 6051              0.19         4.30      0.008048896
## 6055              0.00         0.00      0.000000000
## 6058              2.83         8.00      0.080000000
## 6059              0.27         5.10      0.008048896
## 6060              1.44         7.70      0.000000000
## 6061              0.00         0.00      0.008048896
## 6062              0.00         0.00      0.000000000
## 6063              0.00         0.00      0.008048896
## 6064              0.83         0.00      0.000000000
## 6065              1.75        22.10      0.294000000
## 6066              0.00         0.00      0.000000000
## 6068              1.72         7.50      0.008048896
## 6070              0.82        12.40      0.000000000
## 6071              2.75         9.20      0.008048896
## 6072              0.00         0.00      0.000000000
## 6074              3.02         9.30      0.000000000
## 6075              0.00         0.00      0.000000000
## 6076              0.00         0.00      0.000000000
## 6077              0.00         0.00      0.000000000
## 6078              0.00         0.00      0.000000000
## 6081              0.79         8.30      0.008048896
## 6083              1.80        14.80      0.008048896
## 6084              0.00         0.00      0.008048896
## 6085              0.00         0.00      0.000000000
## 6086              0.00         0.00      0.008048896
## 6087              0.25         5.60      0.000000000
## 6088              0.85         6.90      0.008048896
## 6089              0.00         0.00      0.000000000
## 6090              0.00         0.00      0.008048896
## 6091              0.00         0.00      0.000000000
## 6092              0.00         0.00      0.008048896
## 6093              0.00         0.00      0.008048896
## 6094              0.20         4.50      0.000000000
## 6095              0.00         0.00      0.000000000
## 6096              0.40         6.10      0.008048896
## 6097              0.25         4.90      0.070000000
## 6099              0.40         7.24      0.000000000
## 6101              0.00         0.00      0.000000000
## 6103              0.94         9.68      0.000000000
## 6105              0.00         0.00      0.000000000
## 6106              1.14         5.90      0.008048896
## 6107              0.00         0.00      0.008048896
## 6108              0.00         0.00      0.000000000
## 6109              0.00         0.00      0.000000000
## 6110              3.50         8.00      0.000000000
## 6112              0.00         0.00      0.008048896
```

```
## 6113              0.67            11.70         0.008048896
## 6114              0.00             0.00         0.008048896
## 6116              0.34             5.10         0.008048896
## 6117              2.38             8.10         0.008048896
## 6118              0.00             0.00         0.000000000
## 6119              1.96             7.10         0.008048896
## 6120              0.20             0.00         0.008048896
## 6122              0.00             0.00         0.008048896
## 6123              0.00             0.00         0.008048896
## 6124              0.00             0.00         0.000000000
## 6126              0.00             0.00         0.008048896
## 6127              3.03            12.00         0.008048896
## 6128              0.00             0.00         0.000000000
## 6129              0.00             0.00         0.000000000
## 6130              0.41             5.60         0.000000000
## 6133              0.00             0.00         0.008048896
## 6134              0.00             0.00         0.000000000
## 6135              0.00             0.00         0.008048896
## 6136              3.49            12.66         0.000000000
## 6138              0.00             0.00         0.008048896
## 6139              0.00             0.00         0.008048896
## 6141              0.20             4.60         0.000000000
## 6142              0.00             0.00         0.000000000
## 6143              2.60            42.60         0.008048896
## 6144              0.00             0.00         0.008048896
## 6145              0.00             0.00         0.008048896
## 6147              2.16             7.70         0.008048896
## 6148              0.00             0.00         0.008048896
## 6149              3.10            10.10         0.000000000
## 6150              0.00             0.00         0.008048896
## 6151              0.00             0.00         0.008048896
## 6153              0.24             4.60         0.008048896
## 6154              0.00             0.00         0.000000000
## 6155              0.00             0.00         0.000000000
## 6157              0.00             0.00         0.008048896
## 6158              3.74            19.00         0.000000000
## 6159              0.00             0.00         0.000000000
## 6161              0.00             0.00         0.000000000
## 6163              0.00             0.00         0.000000000
## 6164              4.76             0.30         0.008048896
## 6165              0.00             0.00         0.000000000
## 6167              0.00             0.00         0.008048896
## 6168              0.00             0.00         0.008048896
## 6169              0.00             0.00         0.000000000
## 6170              0.00             0.00         0.000000000
## 6171              0.00             0.00         0.000000000
## 6172              0.00             0.00         0.000000000
## 6173              0.00             0.00         0.000000000
## 6174              0.00             0.00         0.000000000
## 6175              0.00             0.00         0.000000000
## 6176              0.00             0.00         0.008048896
## 6177              0.00             0.00         0.000000000
## 6180              0.00             0.00         0.000000000
## 6181              0.00             0.00         0.000000000
```

```
## 6182             0.00           0.00       0.000000000
## 6184             0.00           0.00       0.008048896
## 6186             4.40           9.00       0.000000000
## 6187             1.89          14.30       0.008048896
## 6188             0.00           0.00       0.000000000
## 6189             0.46           7.21       0.008048896
## 6190             0.79          10.00       0.100000000
## 6191             0.00           0.00       0.000000000
## 6192             0.00           0.00       0.000000000
## 6196             0.00           0.00       0.008048896
## 6197             0.33          32.00       0.008048896
## 6198             0.31           5.20       0.008048896
## 6199             0.00           0.00       0.008048896
## 6201             2.27          10.80       0.000000000
## 6202             0.99           6.70       0.000000000
## 6203             0.00           0.00       0.000000000
## 6204             0.00           0.00       0.008048896
## 6205             0.00           0.00       0.000000000
## 6206             0.00           0.00       0.008048896
## 6207             0.00           0.00       0.000000000
## 6208             0.22           4.60       0.000000000
## 6209             0.00           0.00       0.000000000
## 6210             0.00           0.00       0.000000000
## 6211             0.20           4.80       0.000000000
## 6212             0.44          42.70       0.008048896
## 6214             0.00           0.00       0.000000000
## 6215             0.00           0.00       0.000000000
## 6216             0.00           0.00       0.008048896
## 6219             0.00           0.00       0.000000000
## 6221             0.35           5.50       0.008048896
## 6222             0.00           0.00       0.000000000
## 6223             1.30          20.70       0.008048896
## 6224             0.28           5.50       0.100000000
## 6225             0.00           0.00       0.000000000
## 6226             0.48          10.70       0.008048896
## 6227             0.00           0.00       0.000000000
## 6228             0.00           0.00       0.008048896
## 6229             0.00           0.00       0.008048896
## 6230             0.00           0.00       0.000000000
## 6231             0.00           0.00       0.008048896
## 6232             0.00           0.00       0.000000000
## 6233             2.81           8.50       0.008048896
## 6234             0.00           0.00       0.000000000
## 6235             0.72          17.20       0.077000000
## 6236             1.17           9.40       0.008048896
## 6237             0.00           0.00       0.000000000
## 6238             0.00           0.00       0.008048896
## 6239             2.50           8.40       0.008048896
## 6240             5.49           0.60       0.008048896
## 6242             0.00           0.00       0.008048896
## 6244             0.00           0.00       0.000000000
## 6245             0.00           0.00       0.000000000
## 6246             0.24           4.50       0.000000000
## 6247             0.00           0.00       0.008048896
```

```
## 6248          2.40          8.60          0.000000000
## 6250          0.20          4.30          0.008048896
## 6252          0.03          0.00          0.008048896
## 6255          0.00          0.00          0.000000000
## 6256          0.00          0.00          0.000000000
## 6258          0.00          0.00          0.008048896
## 6259          1.06          7.70          0.008048896
## 6260          0.25          4.90          0.008048896
## 6262          0.00          0.00          0.000000000
## 6264          0.00          0.00          0.000000000
## 6265          0.00          0.00          0.008048896
## 6267          0.20          4.40          0.000000000
## 6268          0.00          0.00          0.008048896
## 6269          0.00          0.00          0.000000000
## 6271          0.00          0.00          0.000000000
## 6272          0.87          0.00          0.008048896
## 6273          0.19          4.30          0.000000000
## 6275          0.00          0.00          0.000000000
## 6276          0.00          0.00          0.000000000
## 6277          0.00          0.00          0.000000000
## 6278          0.00          0.00          0.000000000
## 6279          0.00          0.00          0.000000000
## 6281          0.51         48.40          0.008048896
## 6282          0.80         15.20          0.000000000
## 6283          0.00          0.00          0.008048896
## 6284          0.00          0.00          0.000000000
## 6286          3.60          9.30          0.008048896
## 6287          0.00          0.00          0.000000000
## 6288          0.00          0.00          0.000000000
## 6293          0.20          4.50          0.008048896
## 6294          0.00          0.00          0.000000000
## 6295          0.00          0.00          0.008048896
## 6296          0.00          0.00          0.000000000
## 6298          0.00          0.00          0.000000000
## 6299          0.00          0.00          0.000000000
## 6303          0.91         19.00          0.008048896
## 6304          0.22          4.60          0.008048896
## 6305          0.00          0.00          0.008048896
## 6306          0.00          0.00          0.008048896
## 6307          0.00          0.00          0.000000000
## 6308          0.50          0.00          0.008048896
## 6309          0.21          4.50          0.008048896
## 6310          0.00          0.00          0.008048896
## 6311          4.01          9.20          0.000000000
## 6312          0.00          0.00          0.000000000
## 6315          3.59         11.00          0.000000000
## 6317          0.90         10.80          0.008048896
## 6318          0.00          0.00          0.008048896
## 6319          1.02         12.60          0.008048896
## 6320          1.24          6.50          0.000000000
## 6321          0.20          4.50          0.000000000
## 6323          0.70         13.30          0.040000000
## 6324          0.60          7.70          0.000000000
## 6325          0.00          0.00          0.000000000
```

```
## 6326              0.24             0.00          0.008048896
## 6327              0.00             0.00          0.000000000
## 6328              0.00             0.00          0.000000000
## 6331              0.00             0.00          0.008048896
## 6332              0.00             0.00          0.008048896
## 6333              0.85            13.30          0.008048896
## 6334              1.16             9.20          0.008048896
## 6335              0.00             0.00          0.008048896
## 6336              0.02             0.00          0.008048896
## 6337              0.00             0.00          0.008048896
## 6338              0.00             0.00          0.008048896
## 6339              0.86            16.70          0.008048896
## 6340              0.00             0.00          0.008048896
## 6344              0.00             0.00          0.008048896
## 6345              0.42             6.80          0.008048896
## 6347              0.30             5.70          0.008048896
## 6348              1.94             8.00          0.008048896
## 6351              3.22            16.70          0.350000000
## 6352              0.00             0.00          0.008048896
## 6353              2.91             7.90          0.000000000
## 6354              1.78             8.50          0.000000000
## 6355              0.00             0.00          0.000000000
## 6357              0.20             0.00          0.008048896
## 6359              0.00             0.00          0.008048896
## 6360              0.94             5.30          0.008048896
## 6362              0.00             0.00          0.000000000
## 6363              0.87            10.74          0.008048896
## 6365              1.04             6.80          0.000000000
## 6366              0.73            11.70          0.008048896
## 6368              0.00             0.00          0.000000000
## 6369              0.70             9.10          0.008048896
## 6370              0.00             0.00          0.000000000
## 6371              0.00             0.00          0.000000000
## 6372              0.00             0.00          0.000000000
## 6376              0.63            12.78          0.008048896
## 6377              0.18             4.20          0.000000000
## 6378              0.00             0.00          0.008048896
## 6381              2.48             9.20          0.008048896
## 6382              0.00             0.00          0.000000000
## 6383              0.00             0.00          0.008048896
## 6384              0.00             0.00          0.008048896
## 6385              0.08             0.00          0.008048896
## 6388              0.00             0.00          0.000000000
## 6390              2.80            14.70          0.000000000
## 6391              0.62             7.20          0.000000000
## 6392              0.21             5.30          0.008048896
## 6393              0.00             0.00          0.000000000
## 6394              2.61             8.70          0.008048896
## 6395              0.00             0.00          0.000000000
## 6396              0.97            12.40          0.000000000
## 6397              0.00             0.00          0.000000000
## 6398              5.73             0.30          0.000000000
## 6399              0.30             4.90          0.008048896
## 6400              0.00             0.00          0.000000000
```

```
## 6402                 0.00            0.00        0.000000000
## 6404                 0.00            0.00        0.000000000
## 6405                 3.03            8.90        0.008048896
## 6406                 0.23            4.00        0.008048896
## 6408                 0.00            0.00        0.008048896
## 6409                 2.08           18.40        0.008048896
## 6410                 0.00            0.00        0.000000000
## 6411                 0.00            0.00        0.008048896
## 6412                 0.00            0.00        0.008048896
## 6413                 0.00            0.00        0.008048896
## 6414                 0.00            0.00        0.008048896
## 6415                 0.00            0.00        0.000000000
## 6416                 0.00            0.00        0.008048896
## 6417                 0.75            9.60        0.008048896
## 6418                 1.78            6.30        0.008048896
## 6419                 0.64           50.70        0.008048896
## 6420                 4.57            9.70        0.008048896
## 6421                 0.94            8.50        0.008048896
## 6422                 0.00            0.00        0.000000000
## 6423                 0.00            0.00        0.008048896
## 6424                 0.73           10.90        0.008048896
## 6425                 0.00            0.00        0.008048896
## 6426                 0.34            5.10        0.008048896
## 6427                 0.00            0.00        0.000000000
## 6428                 0.31            5.10        0.065000000
## 6429                 1.11            9.70        0.000000000
## 6430                 0.00            0.00        0.008048896
## 6431                 0.00            0.00        0.008048896
## 6432                 0.32            9.70        0.008048896
## 6433                 0.00            0.00        0.008048896
## 6434                 1.29            7.90        0.008048896
## 6435                 0.20            4.50        0.008048896
## 6436                 0.00            0.00        0.008048896
## 6438                 0.89            9.30        0.008048896
## 6441                 0.00            0.00        0.008048896
## 6442                 0.66           13.30        0.008048896
## 6444                 0.22            5.30        0.008048896
## 6445                 0.38            5.90        0.070000000
## 6447                 0.00            0.00        0.008048896
## 6448                 0.00            0.00        0.008048896
## 6449                 0.50            0.00        0.008048896
## 6451                 0.00            0.00        0.000000000
## 6452                 0.35            6.50        0.000000000
## 6453                 0.31            5.90        0.008048896
## 6454                 0.00            0.00        0.000000000
## 6455                 0.00            0.00        0.000000000
## 6456                 0.32            6.20        0.000000000
## 6457                 0.00            0.00        0.008048896
## 6458                 2.93            8.00        0.000000000
## 6459                 0.00            0.00        0.000000000
## 6461                 1.01           10.22        0.000000000
## 6462                 2.01           40.00        0.000000000
## 6463                 0.00            0.00        0.008048896
## 6464                 0.00            0.00        0.000000000
```

```
## 6465            2.86           10.20          0.008048896
## 6467            0.00            0.00          0.000000000
## 6468            0.29            5.90          0.000000000
## 6469            0.00            0.00          0.000000000
## 6470            0.00            0.00          0.008048896
## 6472            0.00            0.00          0.008048896
## 6473            0.20            4.50          0.008048896
## 6474            3.11            8.00          0.008048896
## 6475            1.92           16.20          0.008048896
## 6477            0.00            0.00          0.000000000
## 6479            0.00            0.00          0.008048896
## 6480            0.00            0.00          0.000000000
## 6481            0.00            0.00          0.008048896
## 6482            0.32            5.00          0.008048896
## 6483            0.20            4.40          0.000000000
## 6484            0.00            0.00          0.008048896
## 6485            0.00            0.00          0.000000000
## 6486            1.07           12.30          0.008048896
## 6489            0.31            4.90          0.080000000
## 6492            0.00            0.00          0.000000000
## 6493            0.25            5.40          0.008048896
## 6494            0.83           13.90          0.000000000
## 6497            3.71           26.00          0.100000000
## 6499            2.87           10.10          0.000000000
## 6500            0.00            0.00          0.000000000
## 6502            0.00            0.00          0.008048896
## 6503            0.00            0.00          0.000000000
## 6504            0.93            8.79          0.008048896
## 6506            0.00            0.00          0.008048896
## 6508            3.43           10.90          0.000000000
## 6509            0.00            0.00          0.008048896
## 6510            2.31            7.76          0.000000000
## 6512            0.00            0.00          0.008048896
## 6514            0.29            5.60          0.008048896
## 6516            0.00            0.00          0.000000000
## 6517            3.00            8.50          0.008048896
## 6519            0.00            0.00          0.000000000
## 6520            0.00            0.00          0.000000000
## 6521            4.30            9.30          0.008048896
## 6522            0.45            5.40          0.008048896
## 6524            0.00            0.00          0.000000000
## 6525            0.49            0.00          0.000000000
## 6526            0.01            0.00          0.008048896
## 6527            2.96            8.70          0.000000000
## 6528            0.00            0.00          0.008048896
## 6529            0.00            0.00          0.000000000
## 6530            0.00            0.00          0.008048896
## 6531            0.00            0.00          0.008048896
## 6532            0.00            0.00          0.000000000
## 6533            3.16            9.80          0.000000000
## 6534            0.00            0.00          0.000000000
## 6535            0.19            4.90          0.000000000
## 6537            1.03           10.40          0.008048896
## 6538            0.00            0.00          0.000000000
```

```
## 6539             0.00          0.00      0.000000000
## 6540             0.78         13.40      0.000000000
## 6541             0.00          0.00      0.008048896
## 6542             0.32          4.70      0.061000000
## 6543             0.00          0.00      0.008048896
## 6544             0.00          0.00      0.008048896
## 6545             0.00          0.00      0.008048896
## 6546             0.85         13.41      0.000000000
## 6547             0.00          0.00      0.000000000
## 6549             0.00          0.00      0.000000000
## 6550             0.00          0.00      0.000000000
## 6551             0.00          0.00      0.008048896
## 6552             0.00          0.00      0.000000000
## 6553             0.00          0.00      0.000000000
## 6554             0.26          4.50      0.008048896
## 6555             0.36          5.50      0.100000000
## 6557             0.00          0.00      0.008048896
## 6558             2.90         10.50      0.000000000
## 6560             2.40          9.90      0.008048896
## 6561             0.30          5.90      0.064000000
## 6563             0.32          5.90      0.008048896
## 6565             0.00          0.00      0.008048896
## 6566             1.24          0.00      0.008048896
## 6567             0.00          0.00      0.008048896
## 6568             0.00          0.00      0.000000000
## 6570             0.00          0.00      0.000000000
## 6572             0.00          0.00      0.008048896
## 6573             1.27         12.40      0.008048896
## 6574             0.31          4.80      0.008048896
## 6576             0.00          0.00      0.008048896
## 6577             0.00          0.00      0.000000000
## 6578             0.25          4.80      0.000000000
## 6580             0.00          0.00      0.000000000
## 6581             0.00          0.00      0.000000000
## 6582             0.23          4.20      0.000000000
## 6583             0.00          0.00      0.000000000
## 6584             0.00          0.00      0.008048896
## 6586             0.00          0.00      0.000000000
## 6587             0.00          0.00      0.008048896
## 6588             0.90          7.50      0.008048896
## 6589             0.00          0.00      0.000000000
## 6592             0.20          0.00      0.008048896
## 6593             0.00          0.00      0.008048896
## 6595             0.00          0.00      0.008048896
## 6597             0.00          0.00      0.008048896
## 6599             0.00          0.00      0.000000000
## 6601             2.64         16.00      0.000000000
## 6602             3.07         11.40      0.008048896
## 6605             0.29          5.40      0.008048896
## 6607             0.00          0.00      0.000000000
## 6611             0.00          0.00      0.000000000
## 6612             2.86          8.80      0.000000000
## 6613             0.00          0.00      0.008048896
## 6614             0.93         12.24      0.008048896
```

```
## 6617                0.00            0.00          0.008048896
## 6618                1.69            0.00          0.008048896
## 6619                0.31            5.30          0.008048896
## 6621                3.42            7.10          0.008048896
## 6622                3.57            7.90          0.000000000
## 6623                0.00            0.00          0.008048896
## 6624                0.00            0.00          0.000000000
## 6625                1.01           13.00          0.008048896
## 6626                0.00            0.00          0.008048896
## 6627                0.00            0.00          0.000000000
## 6628                2.99           16.20          0.100000000
## 6629                0.00            0.00          0.000000000
## 6630                0.40            6.00          0.008048896
## 6632                0.00            0.00          0.000000000
## 6633                0.00            0.00          0.000000000
## 6634                0.34            4.90          0.000000000
## 6636                0.00            0.00          0.000000000
## 6637                0.00            0.00          0.008048896
## 6639                0.00            0.00          0.000000000
## 6640                0.83           11.92          0.008048896
## 6641                0.00            0.00          0.000000000
## 6642                0.47            6.40          0.000000000
## 6643                0.00            0.00          0.008048896
## 6645                0.00            0.00          0.000000000
## 6648                0.00            0.00          0.008048896
## 6649                0.19            0.00          0.008048896
## 6650                0.00            0.00          0.008048896
## 6652                2.04            6.90          0.008048896
## 6653                0.00            0.00          0.000000000
## 6654                2.99           16.40          0.008048896
## 6655                0.00            0.00          0.000000000
## 6656                0.00            0.00          0.008048896
## 6658                0.73           12.80          0.000000000
## 6659                0.17            0.00          0.008048896
## 6661                2.55            9.40          0.008048896
## 6662                0.00            0.00          0.008048896
## 6663                0.70            0.00          0.008048896
## 6665                2.18           46.40          0.008048896
## 6667                0.00            0.00          0.000000000
## 6668                0.00            0.00          0.000000000
## 6670                1.00           11.00          0.008048896
## 6671                0.23            4.30          0.000000000
## 6672                0.00            0.00          0.000000000
## 6673                0.00            0.00          0.008048896
## 6674                0.00            0.00          0.008048896
## 6675                0.00            0.00          0.008048896
## 6677                0.00            0.00          0.008048896
## 6678                0.82           19.90          0.008048896
## 6679                0.22            4.90          0.000000000
## 6680                0.00            0.00          0.008048896
## 6681                0.00            0.00          0.000000000
## 6684                0.41            6.40          0.000000000
## 6686                0.00            0.00          0.008048896
## 6687                0.00            0.00          0.008048896
```

```
## 6688              1.26          12.10        0.008048896
## 6689              0.00           0.00        0.000000000
## 6690              0.00           0.00        0.000000000
## 6691              0.21           4.40        0.000000000
## 6693              0.00           0.00        0.008048896
## 6694              2.84          19.80        0.008048896
## 6695              3.98           9.60        0.008048896
## 6696              2.53           8.30        0.008048896
## 6697              0.00           0.00        0.000000000
## 6698              0.00           0.00        0.008048896
## 6700              0.00           0.00        0.000000000
## 6702              0.00           0.00        0.000000000
## 6704              0.00           0.00        0.000000000
## 6705              0.32           5.00        0.008048896
## 6708              0.00           0.00        0.008048896
## 6709              2.08          21.00        0.500000000
## 6710              0.00           0.00        0.008048896
## 6711              0.00           0.00        0.000000000
## 6712              0.00           0.00        0.000000000
## 6713              0.00           0.00        0.000000000
## 6714              0.23           4.30        0.000000000
## 6715              0.88          12.20        0.100000000
## 6717              0.00           0.00        0.008048896
## 6718              0.00           0.00        0.000000000
## 6720              1.70           9.10        0.000000000
## 6722              0.82          12.81        0.008048896
## 6723              3.21           7.80        0.100000000
## 6725              0.00           0.00        0.000000000
## 6727              0.00           0.00        0.008048896
## 6728              2.79           8.40        0.008048896
## 6729              0.00           0.00        0.008048896
## 6730              2.36           8.20        0.000000000
## 6731              0.93          10.10        0.000000000
## 6732              0.00           0.00        0.000000000
## 6733              0.00           0.00        0.000000000
## 6734              0.00           0.00        0.008048896
## 6735              0.33           5.10        0.090000000
## 6737              1.75           8.20        0.008048896
## 6738              3.15           8.40        0.008048896
## 6739              0.99          10.20        0.008048896
## 6741              0.00           0.00        0.000000000
## 6743              0.00           0.00        0.008048896
## 6744              0.00           0.00        0.000000000
## 6747              1.08           6.60        0.008048896
## 6749              0.00           0.00        0.008048896
## 6751              2.37           7.50        0.000000000
## 6752              0.00           0.00        0.008048896
## 6754              0.00           0.00        0.008048896
## 6755              2.55           8.30        0.008048896
## 6756              0.00           0.00        0.008048896
## 6757              0.00           0.00        0.000000000
## 6758              0.00           0.00        0.008048896
## 6759              0.00           0.00        0.000000000
## 6761              0.00           0.00        0.000000000
```

```
## 6762            2.99             8.30          0.008048896
## 6763            0.00             0.00          0.000000000
## 6764            0.00             0.00          0.008048896
## 6766            3.10             9.80          0.008048896
## 6767            0.82            12.02          0.008048896
## 6768            1.05             9.40          0.000000000
## 6771            0.87            10.30          0.008048896
## 6772            0.00             0.00          0.008048896
## 6773            0.29             5.90          0.065000000
## 6774            0.00             0.00          0.000000000
## 6775            0.00             0.00          0.008048896
## 6776            0.70            37.20          0.000000000
## 6779            0.00             0.00          0.008048896
## 6780            0.00             0.00          0.000000000
## 6781            0.20             5.20          0.000000000
## 6782            2.50             7.60          0.008048896
## 6783            0.00             0.00          0.008048896
## 6784            3.85            10.70          0.000000000
## 6785            0.00             0.00          0.000000000
## 6786            0.00             0.00          0.008048896
## 6787            0.00             0.00          0.000000000
## 6788            0.00             0.00          0.000000000
## 6791            0.00             0.00          0.008048896
## 6792            0.00             0.00          0.000000000
## 6793            0.00             0.00          0.000000000
## 6794            0.22             5.10          0.000000000
## 6795            0.41             6.90          0.008048896
## 6797            2.36            12.63          0.000000000
## 6798            0.00             0.00          0.000000000
## 6799            0.00             0.00          0.000000000
## 6800            0.00             0.00          0.000000000
## 6801            0.00             0.00          0.000000000
## 6802            0.00             0.00          0.000000000
## 6803            0.00             0.00          0.000000000
## 6806            0.00             0.00          0.008048896
## 6807            0.00             0.00          0.000000000
## 6809            0.00             0.00          0.000000000
## 6810            0.21             4.12          0.008048896
## 6811            2.70            10.10          0.000000000
## 6812            0.00             0.00          0.000000000
## 6813            1.35            13.60          0.008048896
## 6815            0.24             5.30          0.000000000
## 6816            0.00             0.00          0.000000000
## 6817            0.00             0.00          0.000000000
## 6818            0.52            28.20          0.008048896
## 6819            0.00             0.00          0.008048896
## 6820            0.20             4.50          0.008048896
## 6821            0.00             0.00          0.000000000
## 6822            0.87            11.10          0.000000000
## 6823            2.66             8.40          0.000000000
## 6825            1.49            11.70          0.000000000
## 6826            0.50             0.00          0.008048896
## 6827            0.00             0.00          0.000000000
## 6828            0.22             5.20          0.000000000
```

```
## 6830            2.10            32.70           0.008048896
## 6831            2.29            14.80           0.008048896
## 6832            0.00             0.00           0.008048896
## 6833            0.81             8.70           0.000000000
## 6834            0.00             0.00           0.000000000
## 6835            0.00             0.00           0.000000000
## 6837            0.00             0.00           0.000000000
## 6838            0.00             0.00           0.000000000
## 6839            0.00             0.00           0.008048896
## 6840            0.93            11.76           0.008048896
## 6842            3.79             9.30           0.118000000
## 6843            0.21             4.68           0.008048896
## 6844            0.00             0.00           0.000000000
## 6845            0.00             0.00           0.000000000
## 6847            0.00             0.00           0.008048896
## 6849            0.32            49.00           0.008048896
## 6850            0.21             4.40           0.008048896
## 6851            0.00             0.00           0.008048896
## 6852            0.00             0.00           0.008048896
## 6853            2.88             8.40           0.070000000
## 6854            0.00             0.00           0.008048896
## 6855            0.00             0.00           0.000000000
## 6856            1.17            11.00           0.008048896
## 6858            0.00             0.00           0.000000000
## 6859            0.00             0.00           0.000000000
## 6860            0.65            12.50           0.008048896
## 6861            0.33             4.90           0.008048896
## 6862            0.00             0.00           0.000000000
## 6864            0.00             0.00           0.000000000
## 6865            0.00             0.00           0.008048896
## 6866            0.00             0.00           0.008048896
## 6867            0.00             0.00           0.008048896
## 6868            0.00             0.00           0.008048896
## 6869            0.00             0.00           0.008048896
## 6870            2.24            14.60           0.008048896
## 6872            0.00             0.00           0.000000000
## 6873            3.62            12.00           0.008048896
## 6874            0.00             0.00           0.008048896
## 6875            0.59             9.10           0.008048896
## 6877            0.00             0.00           0.000000000
## 6878            1.75             7.30           0.008048896
## 6879            0.20             0.00           0.008048896
## 6881            3.34            10.61           0.000000000
## 6882            0.00             0.00           0.008048896
## 6883            3.50             8.70           0.008048896
## 6884            0.00             0.00           0.000000000
## 6885            0.00             0.00           0.000000000
## 6886            0.50             0.00           0.008048896
## 6888            0.50             0.00           0.008048896
## 6889            0.00             0.00           0.008048896
## 6890            0.00             0.00           0.008048896
## 6891            0.00             0.00           0.008048896
## 6892            0.00             0.00           0.000000000
## 6893            3.60            10.80           0.008048896
```

```
## 6894                  2.38              47.40            0.000000000
## 6895                  1.23               4.00            0.000000000
## 6896                  0.37               5.10            0.000000000
## 6899                  0.73              11.80            0.100000000
## 6901                  2.80               9.10            0.000000000
## 6903                  0.45              36.60            0.000000000
## 6908                  0.00               0.00            0.000000000
## 6909                  0.00               0.00            0.000000000
## 6910                  0.00               0.00            0.008048896
## 6911                  0.00               0.00            0.000000000
## 6912                  0.00               0.00            0.008048896
## 6913                  0.00               0.00            0.008048896
## 6914                  0.30               5.20            0.000000000
## 6915                  0.40              38.60            0.000000000
## 6916                  0.00               0.00            0.000000000
## 6917                  0.00               0.00            0.000000000
## 6918                  0.47               0.00            0.008048896
## 6919                  0.00               0.00            0.008048896
## 6921                  0.00               0.00            0.000000000
## 6923                  0.00               0.00            0.000000000
## 6924                  1.00              15.70            0.155000000
## 6925                  0.98               9.85            0.000000000
## 6926                  0.00               0.00            0.000000000
## 6927                  0.00               0.00            0.008048896
## 6928                  3.15              12.60            0.008048896
## 6929                  0.00               0.00            0.000000000
## 6930                  0.00               0.00            0.008048896
## 6931                  0.00               0.00            0.008048896
## 6932                  0.00               0.00            0.000000000
## 6933                  0.50               0.00            0.008048896
## 6934                  0.39               5.80            0.000000000
## 6935                  0.00               0.00            0.000000000
## 6938                  0.00               0.00            0.000000000
## 6939                  0.00               0.00            0.000000000
## 6941                  0.00               0.00            0.008048896
## 6942                  0.00               0.00            0.000000000
## 6943                  0.00               0.00            0.000000000
## 6945                  3.04               9.00            0.000000000
## 6946                  0.00               0.00            0.008048896
## 6947                  0.00               0.00            0.000000000
## 6948                  0.00               0.00            0.000000000
## 6949                  0.00               0.00            0.008048896
## 6950                  0.36               5.40            0.008048896
## 6952                  0.00               0.00            0.000000000
## 6955                  0.73              13.70            0.008048896
## 6956                  3.02               8.30            0.000000000
## 6958                  0.00               0.00            0.000000000
## 6959                  2.54               9.50            0.008048896
## 6960                  0.00               0.00            0.000000000
## 6962                  0.23               5.80            0.008048896
## 6963                  0.00               0.00            0.008048896
## 6965                  0.27               5.59            0.008048896
## 6966                  0.00               0.00            0.008048896
## 6969                  1.25               7.10            0.095000000
```

```
## 6970              3.10         10.30        0.008048896
## 6971              3.00          8.60        0.000000000
## 6973              0.28          6.00        0.008048896
## 6974              0.00          0.00        0.000000000
## 6978              0.00          0.00        0.000000000
## 6979              3.05          8.70        0.008048896
## 6980              0.00          0.00        0.008048896
## 6981              2.15          7.90        0.008048896
## 6982              0.79         13.40        0.008048896
## 6983              0.00          0.00        0.000000000
## 6984              1.20         10.50        0.008048896
## 6985              0.20          4.20        0.008048896
## 6986              0.00          0.00        0.000000000
## 6987              0.00          0.00        0.008048896
## 6988              0.35          5.50        0.008048896
## 6989              0.80         13.28        0.008048896
## 6990              0.00          0.00        0.000000000
## 6991              0.15          0.00        0.008048896
## 6992              0.20          0.00        0.008048896
## 6996              0.00          0.00        0.008048896
## 6997              2.46          7.50        0.000000000
## 6999              0.00          0.00        0.008048896
## 7000              0.61         10.30        0.040000000
## 7001              0.77          6.30        0.008048896
## 7002              0.50          0.00        0.008048896
## 7003              0.00          0.00        0.000000000
## 7004              3.13          7.60        0.008048896
## 7005              0.00          0.00        0.008048896
## 7006              0.28          5.28        0.008048896
## 7007              1.73         13.40        0.008048896
## 7009              0.00          0.00        0.000000000
## 7010              0.00          0.00        0.000000000
## 7011              1.33          8.90        0.008048896
## 7012              3.06          8.10        0.000000000
## 7013              0.00          0.00        0.000000000
## 7014              0.00          0.00        0.000000000
## 7015              0.36          6.30        0.008048896
## 7016              0.30          0.00        0.008048896
## 7017              0.26          4.40        0.080000000
## 7018              0.00          0.00        0.008048896
## 7021              0.00          0.00        0.000000000
## 7022              0.00          0.00        0.000000000
## 7023              0.00          0.00        0.000000000
## 7025              2.40          8.40        0.000000000
## 7026              0.00          0.00        0.008048896
## 7027              0.00          0.00        0.008048896
## 7028              0.00          0.00        0.000000000
## 7029              1.35         10.80        0.008048896
## 7030              1.47         20.60        0.500000000
## 7031              0.00          0.00        0.008048896
## 7032              0.00          0.00        0.000000000
## 7034              0.00          0.00        0.008048896
## 7036              0.00          0.00        0.000000000
## 7037              0.00          0.00        0.000000000
```

```
## 7038           0.00          0.00      0.008048896
## 7039           0.00          0.00      0.000000000
## 7040           0.00          0.00      0.000000000
## 7043           0.00          0.00      0.008048896
## 7044           0.00          0.00      0.000000000
## 7045           0.00          0.00      0.008048896
## 7046           0.30          5.60      0.095000000
## 7048           0.36          5.60      0.000000000
## 7049           0.20          4.50      0.008048896
## 7050           0.00          0.00      0.000000000
## 7051           0.00          0.00      0.008048896
## 7054           2.53          9.40      0.008048896
## 7055           0.74         13.21      0.008048896
## 7056           0.22          4.80      0.000000000
## 7057           2.42          8.00      0.000000000
## 7058           0.00          0.00      0.000000000
## 7059           0.00          0.00      0.008048896
## 7060           0.00          0.00      0.008048896
## 7061           1.25         12.70      0.008048896
## 7063           0.32          5.50      0.000000000
## 7065           0.00          0.00      0.008048896
## 7067           0.56          9.50      0.080000000
## 7068           2.75          8.90      0.000000000
## 7069           0.24          5.40      0.000000000
## 7070           0.00          0.00      0.008048896
## 7071           0.00          0.00      0.000000000
## 7072           0.00          0.00      0.000000000
## 7074           0.20          4.37      0.000000000
## 7075           0.90         12.70      0.000000000
## 7076           0.00          0.00      0.008048896
## 7077           0.00          0.00      0.000000000
## 7078           0.00          0.00      0.008048896
## 7079           0.00          0.00      0.000000000
## 7080           0.19          4.50      0.008048896
## 7083           0.30          5.40      0.008048896
## 7086           0.00          0.00      0.000000000
## 7087           0.35          0.00      0.008048896
## 7088           2.00         40.00      0.000000000
## 7089           3.37         13.50      0.008048896
## 7090           1.05         11.30      0.008048896
## 7091           0.34         48.10      0.000000000
## 7093           5.43          0.49      0.008048896
## 7094           0.00          0.00      0.000000000
## 7095           0.42         42.00      0.000000000
## 7098           0.00          0.00      0.000000000
## 7099           0.84         17.50      0.000000000
## 7101           1.86         13.10      0.008048896
## 7104           0.00          0.00      0.008048896
## 7105           0.00          0.00      0.008048896
## 7106           0.00          0.00      0.000000000
## 7107           0.00          0.00      0.000000000
## 7108           0.00          0.00      0.000000000
## 7110           0.00          0.00      0.008048896
## 7111           0.20          0.00      0.008048896
```

```
## 7112          0.80          11.60          0.000000000
## 7115          0.00           0.00          0.008048896
## 7116          0.87           8.90          0.008048896
## 7118          0.00           0.00          0.000000000
## 7119          0.00           0.00          0.008048896
## 7120          0.00           0.00          0.008048896
## 7121          1.02          12.70          0.008048896
## 7122          0.00           0.00          0.000000000
## 7123          0.00           0.00          0.008048896
## 7125          0.69           8.40          0.000000000
## 7126          0.00           0.00          0.000000000
## 7128          0.00           0.00          0.000000000
## 7129          0.52           5.70          0.000000000
## 7130          0.25           6.10          0.000000000
## 7131          3.20          11.80          0.008048896
## 7133          3.47           9.40          0.000000000
## 7134          0.00           0.00          0.000000000
## 7135          0.19           4.54          0.008048896
## 7137          0.00           0.00          0.008048896
## 7139          0.00           0.00          0.000000000
## 7140          1.97          13.80          0.008048896
## 7141          0.00           0.00          0.000000000
## 7142          0.00           0.00          0.008048896
## 7143          0.20           4.80          0.000000000
## 7144          1.41           8.70          0.000000000
## 7145          0.00           0.00          0.008048896
## 7146          0.00           0.00          0.008048896
## 7147          0.72          20.10          0.008048896
## 7150          0.00           0.00          0.008048896
## 7152          0.00           0.00          0.008048896
## 7153          3.57           7.30          0.008048896
## 7154          0.20           0.00          0.008048896
## 7155          0.72          16.30          0.189000000
## 7156          0.00           0.00          0.008048896
## 7157          3.43           8.00          0.008048896
## 7159          0.00           0.00          0.000000000
## 7161          2.11          21.10          0.000000000
## 7163          0.29           5.20          0.008048896
## 7164          0.00           0.00          0.000000000
## 7166          0.00           0.00          0.008048896
## 7167          0.00           0.00          0.008048896
## 7168          0.00           0.00          0.008048896
## 7170          0.30           5.39          0.008048896
## 7171          0.00           0.00          0.000000000
## 7173          0.00           0.00          0.000000000
## 7175          0.00           0.00          0.000000000
## 7176          0.21           4.70          0.008048896
## 7178          0.00           0.00          0.000000000
## 7179          2.34           7.60          0.000000000
## 7180          0.00           0.00          0.008048896
## 7181          0.00           0.00          0.000000000
## 7182          0.00           0.00          0.008048896
## 7184          2.97          10.10          0.008048896
## 7186          0.00           0.00          0.008048896
```

```
## 7187              0.00           0.00         0.000000000
## 7188              0.00           0.00         0.000000000
## 7189              0.00           0.00         0.008048896
## 7191              1.70           9.10         0.008048896
## 7192              0.00           0.00         0.000000000
## 7193              0.19           4.40         0.000000000
## 7194              0.00           0.00         0.008048896
## 7196              1.29          12.30         0.008048896
## 7197              0.00           0.00         0.000000000
## 7199              0.00           0.00         0.008048896
## 7200              0.00           0.00         0.000000000
## 7203              0.00           0.00         0.000000000
## 7204              0.00           0.00         0.008048896
## 7206              1.62           0.00         0.008048896
## 7207              0.00           0.00         0.008048896
## 7209              0.00           0.00         0.008048896
## 7211              0.00           0.00         0.008048896
## 7212              0.00           0.00         0.000000000
## 7213              0.00           0.00         0.008048896
## 7215              0.00           0.00         0.000000000
## 7219              0.24           5.30         0.000000000
## 7220              0.00           0.00         0.000000000
## 7221              0.28           0.00         0.008048896
## 7224              0.00           0.00         0.000000000
## 7225              0.00           0.00         0.000000000
## 7226              0.00           0.00         0.008048896
## 7227              0.28           5.60         0.008048896
## 7228              0.00           0.00         0.008048896
## 7230              0.00           0.00         0.000000000
## 7231              0.00           0.00         0.000000000
## 7232              0.00           0.00         0.000000000
## 7233              0.77           7.00         0.100000000
## 7235              0.00           0.00         0.008048896
## 7236              0.00           0.00         0.008048896
## 7237              0.00           0.00         0.000000000
## 7239              0.30           0.00         0.008048896
## 7240              0.00           0.00         0.000000000
## 7242              1.85          12.90         0.008048896
## 7243              0.00           0.00         0.000000000
## 7244              0.21           4.80         0.000000000
## 7245              0.69          15.90         0.008048896
## 7246              0.00           0.00         0.008048896
## 7247              0.27           5.20         0.000000000
## 7249              2.67           0.00         0.008048896
## 7250              4.35           8.90         0.008048896
## 7253              1.80           8.50         0.008048896
## 7256              0.00           0.00         0.000000000
## 7257              3.02           9.70         0.008048896
## 7258              0.00           0.00         0.000000000
## 7259              0.00           0.00         0.008048896
## 7260              2.52           8.20         0.000000000
## 7263              0.00           0.00         0.000000000
## 7264              6.09           0.40         0.008048896
## 7265              3.36           8.10         0.008048896
```

```
## 7266           0.00           0.00      0.000000000
## 7269           0.00           0.00      0.008048896
## 7270           0.00           0.00      0.008048896
## 7271           0.00           0.00      0.000000000
## 7272           0.00           0.00      0.008048896
## 7273           0.00           0.00      0.000000000
## 7274           0.22           5.30      0.000000000
## 7277           0.00           0.00      0.008048896
## 7278           0.00           0.00      0.008048896
## 7279           0.62           8.10      0.008048896
## 7280           0.00           0.00      0.000000000
## 7282           0.50           0.00      0.008048896
## 7283           0.00           0.00      0.000000000
## 7284           3.04           8.10      0.008048896
## 7285           0.00           0.00      0.000000000
## 7287           0.67          10.20      0.008048896
## 7288           0.00           0.00      0.000000000
## 7289           0.62          10.20      0.008048896
## 7292           3.39           9.90      0.008048896
## 7293           0.00           0.00      0.008048896
## 7294           0.00           0.00      0.008048896
## 7295           0.35          35.50      0.008048896
## 7297           0.31           5.20      0.008048896
## 7300           0.00           0.00      0.008048896
## 7302           0.00           0.00      0.000000000
## 7303           0.00           0.00      0.000000000
## 7305           2.06           8.10      0.000000000
## 7306           2.42           7.80      0.008048896
## 7307           3.43           7.20      0.000000000
## 7308           0.00           0.00      0.000000000
## 7309           0.89          12.00      0.008048896
## 7310           0.59          13.95      0.008048896
## 7311           0.00           0.00      0.008048896
## 7312           0.00           0.00      0.008048896
## 7314           0.00           0.00      0.000000000
## 7316           0.00           0.00      0.000000000
## 7318           0.74           8.60      0.008048896
## 7319           0.10           0.00      0.008048896
## 7322           0.00           0.00      0.000000000
## 7324           0.81           8.00      0.008048896
## 7326           0.00           0.00      0.000000000
## 7329           1.24           9.70      0.008048896
## 7330           0.31          28.30      0.008048896
## 7332           3.03           8.00      0.000000000
## 7333           0.00           0.00      0.000000000
## 7334           0.00           0.00      0.000000000
## 7335           0.00           0.00      0.000000000
## 7336           3.48          10.40      0.000000000
## 7337           0.00           0.00      0.000000000
## 7338           0.00           0.00      0.000000000
## 7339           0.00           0.00      0.000000000
## 7340           3.23           7.80      0.000000000
## 7341           0.00           0.00      0.000000000
## 7342           0.00           0.00      0.000000000
```

```
## 7343                   0.00            0.00          0.000000000
## 7346                   0.00            0.00          0.000000000
## 7347                   0.82           12.49          0.000000000
## 7348                   2.77            7.60          0.000000000
## 7350                   0.51            6.60          0.057000000
## 7351                   0.00            0.00          0.008048896
## 7352                   0.00            0.00          0.000000000
## 7353                   0.04            0.00          0.008048896
## 7354                   3.10            8.70          0.000000000
## 7355                   0.00            0.00          0.000000000
## 7358                   0.22            5.00          0.000000000
## 7359                   0.00            0.00          0.008048896
## 7360                   0.36            5.50          0.000000000
## 7361                   0.03            0.00          0.008048896
## 7363                   0.41            4.40          0.008048896
## 7365                   2.77            7.90          0.008048896
## 7366                   0.00            0.00          0.000000000
## 7367                   0.04            0.00          0.008048896
## 7368                   0.00            0.00          0.000000000
## 7369                   0.85            7.60          0.008048896
## 7370                   0.00            0.00          0.008048896
## 7372                   0.00            0.00          0.000000000
## 7375                   0.39            0.00          0.008048896
## 7376                   0.25            4.30          0.008048896
## 7377                   0.43            4.90          0.008048896
## 7380                   0.50            0.00          0.008048896
## 7381                   0.62           11.70          0.008048896
## 7382                   0.00            0.00          0.000000000
## 7383                   0.00            0.00          0.000000000
## 7384                   0.00            0.00          0.008048896
## 7387                   1.44           10.10          0.000000000
## 7388                   0.86           10.90          0.008048896
## 7389                   0.00            0.00          0.000000000
## 7390                   0.00            0.00          0.000000000
## 7391                   0.00            0.00          0.000000000
## 7392                   0.00            0.00          0.008048896
## 7393                   0.00            0.00          0.000000000
## 7394                   0.00            0.00          0.000000000
## 7395                   0.00            0.00          0.000000000
## 7396                   0.19            0.00          0.008048896
## 7397                   0.00            0.00          0.000000000
## 7398                   0.00            0.00          0.000000000
## 7399                   4.46            8.96          0.008048896
## 7400                   0.00            0.00          0.008048896
## 7402                   0.00            0.00          0.000000000
## 7403                   0.00            0.00          0.000000000
## 7404                   0.00            0.00          0.000000000
## 7405                   0.00            0.00          0.008048896
## 7406                   2.20           10.40          0.008048896
## 7408                   0.00            0.00          0.008048896
## 7409                   0.00            0.00          0.000000000
## 7410                   0.20            4.80          0.008048896
## 7411                   0.00            0.00          0.000000000
## 7412                   0.69           24.60          0.008048896
```

```
## 7413              0.10              0.00         0.008048896
## 7414              2.71              8.30         0.000000000
## 7416              0.00              0.00         0.000000000
## 7417              0.00              0.00         0.000000000
## 7418              0.00              0.00         0.000000000
## 7419              1.24              0.00         0.008048896
## 7420              0.00              0.00         0.008048896
## 7425              2.63              8.40         0.000000000
## 7426              0.00              0.00         0.000000000
## 7430              0.65             12.50         0.008048896
## 7431              0.31              5.20         0.008048896
## 7433              0.00              0.00         0.000000000
## 7434              0.00              0.00         0.000000000
## 7435              0.00              0.00         0.000000000
## 7436              0.00              0.00         0.000000000
## 7437              0.99              7.60         0.008048896
## 7438              0.00              0.00         0.000000000
## 7439              0.00              0.00         0.008048896
## 7441              0.00              0.00         0.008048896
## 7442              0.00              0.00         0.000000000
## 7443              0.00              0.00         0.000000000
## 7445              0.00              0.00         0.008048896
## 7446              0.23              4.40         0.000000000
## 7447              0.00              0.00         0.008048896
## 7448              0.00              0.00         0.000000000
## 7451              0.00              0.00         0.000000000
## 7452              4.09             16.30         0.000000000
## 7453              0.67             10.60         0.008048896
## 7454              0.19              4.50         0.000000000
## 7455              0.00              0.00         0.000000000
## 7456              0.00              0.00         0.000000000
## 7458              0.24              4.40         0.000000000
## 7459              0.00              0.00         0.000000000
## 7462              2.02             11.50         0.008048896
## 7464              0.30             51.40         0.000000000
## 7465              0.00              0.00         0.000000000
## 7466              0.01              0.00         0.008048896
## 7467              0.00              0.00         0.008048896
## 7469              0.22              4.50         0.100000000
## 7470              0.00              0.00         0.000000000
## 7471              0.00              0.00         0.008048896
## 7474              2.47              7.80         0.000000000
## 7475              0.00              0.00         0.000000000
## 7477              4.04             11.16         0.008048896
## 7478              0.34              5.80         0.008048896
## 7480              0.31              5.80         0.000000000
## 7481              0.00              0.00         0.008048896
## 7484              0.00              0.00         0.008048896
## 7485              0.00              0.00         0.000000000
## 7486              0.89             11.20         0.008048896
## 7487              0.00              0.00         0.000000000
## 7488              0.23              4.40         0.000000000
## 7489              3.24              8.10         0.000000000
## 7490              0.50              0.00         0.008048896
```

```
## 7491              0.00            0.00       0.000000000
## 7492              0.00            0.00       0.008048896
## 7493              0.47            9.05       0.008048896
## 7494              0.00            0.00       0.000000000
## 7495              0.91           10.40       0.008048896
## 7496              0.02            0.00       0.008048896
## 7497              0.22            5.60       0.000000000
## 7498              3.17           12.40       0.008048896
## 7499              0.23            4.80       0.000000000
## 7500              0.00            0.00       0.000000000
## 7503              0.00            0.00       0.000000000
## 7504              0.00            0.00       0.008048896
## 7505              0.00            0.00       0.000000000
## 7506              1.39           11.40       0.008048896
## 7507              0.00            0.00       0.000000000
## 7509              0.00            0.00       0.000000000
## 7510              0.00            0.00       0.000000000
## 7511              0.25            5.30       0.008048896
## 7513              1.13           15.50       0.008048896
## 7514              0.00            0.00       0.000000000
## 7515              0.34           39.90       0.000000000
## 7516              0.00            0.00       0.000000000
## 7517              1.67           12.80       0.008048896
## 7518              0.00            0.00       0.000000000
## 7519              0.00            0.00       0.000000000
## 7520              0.73            7.80       0.000000000
## 7521              0.00            0.00       0.000000000
## 7522              0.00            0.00       0.000000000
## 7523              0.00            0.00       0.008048896
## 7524              0.27            4.70       0.008048896
## 7525              0.02            0.00       0.008048896
## 7526              0.27            5.10       0.008048896
## 7527              1.86            7.00       0.008048896
## 7530              0.00            0.00       0.008048896
## 7532              3.02            8.30       0.000000000
## 7533              3.31            8.10       0.080000000
## 7534              0.00            0.00       0.008048896
## 7536              0.00            0.00       0.000000000
## 7537              0.00            0.00       0.008048896
## 7539              2.51            7.90       0.008048896
## 7541              0.00            0.00       0.000000000
## 7542              0.00            0.00       0.008048896
## 7543              0.10            0.00       0.008048896
## 7544              0.00            0.00       0.008048896
## 7545              0.50            0.00       0.008048896
## 7546              0.84           11.07       0.000000000
## 7547              0.00            0.00       0.008048896
## 7548              0.34            5.60       0.008048896
## 7549              0.00            0.00       0.008048896
## 7550              2.82            9.10       0.008048896
## 7551              0.34            0.00       0.000000000
## 7552              0.00            0.00       0.008048896
## 7556              5.83            0.36       0.008048896
## 7557              0.00            0.00       0.000000000
```

```
## 7558               0.00              0.00          0.000000000
## 7559               0.60             12.70          0.000000000
## 7560               0.26              5.30          0.008048896
## 7561               0.00              0.00          0.008048896
## 7562               2.60              9.00          0.000000000
## 7563               0.00              0.00          0.008048896
## 7565               0.00              0.00          0.000000000
## 7566               0.00              0.00          0.008048896
## 7567               0.00              0.00          0.008048896
## 7568               0.00              0.00          0.000000000
## 7570               0.27              5.00          0.000000000
## 7571               0.33              5.70          0.000000000
## 7572               0.74             19.00          0.008048896
## 7573               0.00              0.00          0.008048896
## 7575               0.00              0.00          0.000000000
## 7576               0.07              0.00          0.008048896
## 7577               0.00              0.00          0.008048896
## 7578               0.00              0.00          0.000000000
## 7579               0.00              0.00          0.008048896
## 7580               0.35              0.00          0.008048896
## 7581               0.20              4.60          0.008048896
## 7582               0.40             60.70          0.000000000
## 7583               0.00              0.00          0.000000000
## 7584               1.47              8.90          0.000000000
## 7587               0.00              0.00          0.008048896
## 7588               0.22              4.90          0.008048896
## 7589               0.00              0.00          0.008048896
## 7590               1.39              8.20          0.008048896
## 7593               0.00              0.00          0.000000000
## 7594               1.00             10.40          0.008048896
## 7595               0.00              0.00          0.000000000
## 7596               0.00              0.00          0.000000000
## 7597               0.00              0.00          0.000000000
## 7598               1.77             13.20          0.008048896
## 7599               0.00              0.00          0.008048896
## 7601               0.00              0.00          0.008048896
## 7602               0.00              0.00          0.000000000
## 7606               0.00              0.00          0.000000000
## 7607               4.14             12.70          0.008048896
## 7608               1.49             18.40          0.130000000
## 7609               0.00              0.00          0.008048896
## 7610               0.22              4.80          0.000000000
## 7613               0.00              0.00          0.008048896
## 7614               2.12              7.70          0.008048896
## 7615               0.00              0.00          0.008048896
## 7617               0.00              0.00          0.000000000
## 7618               0.43              4.80          0.000000000
## 7619               1.53             33.20          0.008048896
## 7620               0.00              0.00          0.000000000
## 7621               1.05              7.50          0.008048896
## 7623               0.00              0.00          0.000000000
## 7624               0.39              9.10          0.030000000
## 7625               0.00              0.00          0.000000000
## 7627               0.00              0.00          0.000000000
```

```
## 7629          0.00          0.00          0.000000000
## 7630          0.00          0.00          0.000000000
## 7631          0.00          0.00          0.008048896
## 7632          0.00          0.00          0.000000000
## 7633          0.00          0.00          0.008048896
## 7634          0.00          0.00          0.000000000
## 7636          0.22          5.10          0.000000000
## 7638          0.00          0.00          0.000000000
## 7639          0.00          0.00          0.000000000
## 7640          0.00          0.00          0.000000000
## 7641          1.40         17.40          0.008048896
## 7642          0.00          0.00          0.000000000
## 7643          0.00          0.00          0.000000000
## 7645          0.00          0.00          0.000000000
## 7646          0.18          0.00          0.008048896
## 7648          0.00          0.00          0.008048896
## 7649          0.00          0.00          0.008048896
## 7650          0.00          0.00          0.000000000
## 7652          0.00          0.00          0.008048896
## 7654          0.00          0.00          0.000000000
## 7656          0.23          5.20          0.008048896
## 7657          0.00          0.00          0.008048896
## 7658          0.00          0.00          0.008048896
## 7660          0.00          0.00          0.008048896
## 7661          0.00          0.00          0.008048896
## 7662          1.80         17.90          0.500000000
## 7663          0.41          5.00          0.008048896
## 7665          3.06          9.00          0.000000000
## 7666          0.00          0.00          0.000000000
## 7667          0.00          0.00          0.008048896
## 7668          1.13          9.90          0.000000000
## 7669          6.21          0.48          0.008048896
## 7670          0.50          0.00          0.008048896
## 7671          1.00          7.30          0.008048896
## 7672          0.67          9.50          0.008048896
## 7675          0.47          8.60          0.000000000
## 7676          0.00          0.00          0.008048896
## 7677          0.00          0.00          0.000000000
## 7678          0.00          0.00          0.008048896
## 7680          0.46          6.80          0.000000000
## 7681          0.00          0.00          0.000000000
## 7682          0.50          0.00          0.008048896
## 7683          0.00          0.00          0.000000000
## 7685          0.25          6.10          0.008048896
## 7687          3.07          9.10          0.008048896
## 7688          0.28          6.20          0.100000000
## 7689          0.00          0.00          0.000000000
## 7691          0.94         11.90          0.008048896
## 7692          0.00          0.00          0.008048896
## 7693          0.31          5.00          0.008048896
## 7694          0.32          4.00          0.008048896
## 7695          0.00          0.00          0.000000000
## 7698          0.00          0.00          0.000000000
## 7699          0.00          0.00          0.008048896
```

```
## 7700          3.28          8.70          0.000000000
## 7701          1.16         12.10          0.008048896
## 7702          0.00          0.00          0.008048896
## 7704          0.18          0.00          0.008048896
## 7706          3.33          8.90          0.000000000
## 7708          0.00          0.00          0.000000000
## 7711          0.00          0.00          0.000000000
## 7712          1.36         10.90          0.000000000
## 7713          0.00          0.00          0.008048896
## 7714          0.23          5.60          0.000000000
## 7715          0.60          8.00          0.008048896
## 7717          0.00          0.00          0.008048896
## 7718          0.00          0.00          0.000000000
## 7719          0.00          0.00          0.000000000
## 7720          0.00          0.00          0.008048896
## 7721          0.00          0.00          0.008048896
## 7722          0.20          4.60          0.008048896
## 7723          0.27          5.40          0.008048896
## 7725          0.00          0.00          0.000000000
## 7726          0.00          0.00          0.008048896
## 7727          0.00          0.00          0.008048896
## 7728          1.01         11.64          0.000000000
## 7729          0.00          0.00          0.008048896
## 7731          0.00          0.00          0.000000000
## 7732          0.45          6.50          0.008048896
## 7733          0.33          5.50          0.100000000
## 7734          3.07          7.40          0.008048896
## 7735          0.00          0.00          0.000000000
## 7737          0.00          0.00          0.000000000
## 7738          4.24          9.70          0.000000000
## 7739          0.63         10.80          0.008048896
## 7740          0.00          0.00          0.008048896
## 7741          0.31          5.00          0.008048896
## 7742          0.00          0.00          0.008048896
## 7743          0.00          0.00          0.000000000
## 7745          0.00          0.00          0.000000000
## 7746          0.00          0.00          0.000000000
## 7748          0.00          0.00          0.000000000
## 7749          0.64         41.70          0.000000000
## 7750          0.00          0.00          0.008048896
## 7753          2.95         10.60          0.000000000
## 7755          0.00          0.00          0.000000000
## 7756          0.27          4.70          0.008048896
## 7757          0.00          0.00          0.000000000
## 7759          0.00          0.00          0.000000000
## 7760          3.41          8.80          0.008048896
## 7761          0.50          0.00          0.008048896
## 7762          2.99         47.40          0.000000000
## 7763          0.00          0.00          0.008048896
## 7764          0.79         12.15          0.000000000
## 7765          0.50          0.00          0.008048896
## 7766          0.00          0.00          0.008048896
## 7767          0.00          0.00          0.000000000
## 7768          4.22          9.10          0.008048896
```

```
## 7769              0.00          0.00     0.008048896
## 7771              1.94         40.50     0.000000000
## 7772              0.78         10.10     0.008048896
## 7774              0.29          5.30     0.008048896
## 7775              0.20          4.37     0.000000000
## 7776              1.59         13.80     0.008048896
## 7777              0.00          0.00     0.008048896
## 7779              0.00          0.00     0.000000000
## 7782              0.40          5.50     0.000000000
## 7783              0.00          0.00     0.008048896
## 7784              2.95          8.10     0.100000000
## 7785              0.00          0.00     0.008048896
## 7786              2.93          8.30     0.008048896
## 7787              3.42         10.40     0.008048896
## 7788              0.25          4.30     0.000000000
## 7789              0.99         12.70     0.008048896
## 7790              0.00          0.00     0.000000000
## 7791              0.00          0.00     0.000000000
## 7793              0.00          0.00     0.000000000
## 7794              0.00          0.00     0.000000000
## 7795              0.25          5.20     0.000000000
## 7797              0.00          0.00     0.008048896
## 7798              0.00          0.00     0.008048896
## 7799              0.20          0.00     0.008048896
## 7800              0.00          0.00     0.008048896
## 7801              0.00          0.00     0.000000000
## 7802              0.00          0.00     0.008048896
## 7803              0.00          0.00     0.000000000
## 7804              0.30          4.90     0.008048896
## 7807              0.00          0.00     0.008048896
## 7808              0.00          0.00     0.000000000
## 7809              0.22          5.50     0.000000000
## 7810              0.00          0.00     0.000000000
## 7812              0.00          0.00     0.000000000
## 7813              0.00          0.00     0.000000000
## 7815              0.00          0.00     0.008048896
## 7816              0.47         14.40     0.008048896
## 7819              0.32          4.70     0.000000000
## 7820              2.76          8.20     0.008048896
## 7822              0.00          0.00     0.000000000
## 7823              0.00          0.00     0.000000000
## 7824              0.88          9.20     0.100000000
## 7825              0.00          0.00     0.000000000
## 7826              0.00          0.00     0.000000000
## 7827              0.00          0.00     0.000000000
## 7828              2.59          9.80     0.008048896
## 7830              0.96          8.40     0.008048896
## 7831              0.90         10.02     0.008048896
## 7832              0.00          0.00     0.008048896
## 7833              0.40          0.00     0.000000000
## 7834              0.00          0.00     0.008048896
## 7835              0.40         12.00     0.000000000
## 7837              0.37          7.70     0.008048896
## 7840              1.65         34.30     0.008048896
```

```
## 7841                  0.21              4.50          0.000000000
## 7845                  0.95              9.70          0.008048896
## 7846                  0.00              0.00          0.000000000
## 7849                  0.40              8.90          0.000000000
## 7851                  2.90              9.00          0.000000000
## 7852                  3.06              7.50          0.008048896
## 7853                  0.39              6.70          0.008048896
## 7854                  0.00              0.00          0.008048896
## 7855                  0.00              0.00          0.000000000
## 7856                  0.00              0.00          0.000000000
## 7857                  0.00              0.00          0.000000000
## 7858                  0.00              0.00          0.000000000
## 7859                  0.00              0.00          0.000000000
## 7860                  6.21              0.38          0.008048896
## 7861                  0.00              0.00          0.008048896
## 7862                  0.00              0.00          0.008048896
## 7863                  0.00              0.00          0.000000000
## 7866                  0.00              0.00          0.000000000
## 7867                  2.37              7.70          0.000000000
## 7868                  0.00              0.00          0.008048896
## 7869                  0.27              4.60          0.008048896
## 7870                  0.00              0.00          0.000000000
## 7871                  0.00              0.00          0.000000000
## 7872                  0.29              5.20          0.000000000
## 7873                  0.00              0.00          0.008048896
## 7874                  0.21              4.70          0.008048896
## 7877                  1.34             46.10          0.008048896
## 7878                  0.00              0.00          0.000000000
## 7879                  0.20              4.60          0.008048896
## 7880                  1.76             10.90          0.000000000
## 7881                  1.51              6.40          0.000000000
## 7882                  0.00              0.00          0.000000000
## 7884                  0.37              5.20          0.000000000
## 7885                  2.93              8.90          0.008048896
## 7886                  0.00              0.00          0.008048896
## 7887                  2.76              7.70          0.008048896
## 7888                  0.00              0.00          0.008048896
## 7890                  0.00              0.00          0.000000000
## 7891                  0.00              0.00          0.000000000
## 7892                  5.05              0.50          0.008048896
## 7893                  0.39              9.90          0.008048896
## 7894                  0.34              4.90          0.008048896
## 7895                  0.95              0.00          0.008048896
## 7896                  0.00              0.00          0.000000000
## 7897                  0.81             11.70          0.008048896
## 7901                  0.00              0.00          0.000000000
## 7902                  0.00              0.00          0.000000000
## 7905                  0.00              0.00          0.008048896
## 7906                  0.00              0.00          0.000000000
## 7908                  3.52              7.90          0.000000000
## 7910                  0.31              5.80          0.000000000
## 7911                  0.00              0.00          0.000000000
## 7913                  0.00              0.00          0.008048896
## 7914                  0.00              0.00          0.000000000
```

```
## 7916              0.00             0.00            0.008048896
## 7917              0.00             0.00            0.000000000
## 7918              0.00             0.00            0.000000000
## 7919              0.00             0.00            0.008048896
## 7920              0.00             0.00            0.000000000
## 7921              0.00             0.00            0.008048896
## 7922              0.00             0.00            0.008048896
## 7923              3.77            17.00            0.008048896
## 7924              0.00             0.00            0.000000000
## 7925              0.00             0.00            0.000000000
## 7926              0.00             0.00            0.000000000
## 7927              0.00             0.00            0.000000000
## 7929              0.00             0.00            0.000000000
## 7930              0.12             7.60            0.000000000
## 7931              0.20             0.00            0.008048896
## 7932              0.00             0.00            0.000000000
## 7934              0.34             0.00            0.008048896
## 7935              0.00             0.00            0.000000000
## 7936              0.00             0.00            0.000000000
## 7937              0.00             0.00            0.000000000
## 7938              0.23             5.20            0.065000000
## 7939              0.00             0.00            0.000000000
## 7942              1.03            12.10            0.008048896
## 7943              0.40             5.04            0.008048896
## 7946              0.86            10.00            0.008048896
## 7947              0.00             0.00            0.000000000
## 7948              0.00             0.00            0.000000000
## 7950              1.50             8.80            0.008048896
## 7951              0.00             0.00            0.000000000
## 7953              0.00             0.00            0.000000000
## 7955              0.29             5.30            0.008048896
## 7956              0.91            10.20            0.080000000
## 7957              0.20             0.00            0.008048896
## 7958              0.00             0.00            0.008048896
## 7959              0.00             0.00            0.000000000
## 7960              0.00             0.00            0.000000000
## 7961              1.60            10.30            0.008048896
## 7962              4.47            16.50            0.000000000
## 7963              0.73             8.10            0.008048896
## 7964              0.00             0.00            0.000000000
## 7965              0.20             4.40            0.008048896
## 7967              0.00             0.00            0.000000000
## 7968              2.38             8.70            0.000000000
## 7969              0.00             0.00            0.008048896
## 7971              0.00             0.00            0.000000000
## 7972              0.00             0.00            0.008048896
## 7973              0.00             0.00            0.008048896
## 7974              0.00             0.00            0.000000000
## 7977              1.37            10.90            0.000000000
## 7978              3.71            11.69            0.008048896
## 7979              0.00             0.00            0.008048896
## 7980              0.00             0.00            0.000000000
## 7981              1.03            12.90            0.008048896
## 7982              3.56            12.70            0.000000000
```

```
## 7984            0.00        0.00      0.008048896
## 7985            0.00        0.00      0.008048896
## 7988            0.00        0.00      0.000000000
## 7990            0.00        0.00      0.000000000
## 7992            0.50        0.00      0.008048896
## 7994            0.23        3.87      0.000000000
## 7995            0.00        0.00      0.008048896
## 7996            0.00        0.00      0.008048896
## 7997            0.00        0.00      0.000000000
## 7999            0.00        0.00      0.008048896
## 8002            2.35       27.10      0.000000000
## 8003            1.21        9.50      0.008048896
## 8004            0.00        0.00      0.008048896
## 8005            0.00        0.00      0.000000000
## 8006            0.00        0.00      0.000000000
## 8009            0.01        0.00      0.008048896
## 8010            0.00        0.00      0.008048896
## 8011            2.46       10.40      0.008048896
## 8012            0.00        0.00      0.008048896
## 8013            0.00        0.00      0.008048896
## 8014            0.25        4.30      0.008048896
## 8015            0.00        0.00      0.000000000
## 8016            1.10        9.40      0.008048896
## 8017            0.00        0.00      0.000000000
## 8018            0.00        0.00      0.008048896
## 8019            0.22        4.60      0.008048896
## 8020            0.00        0.00      0.008048896
## 8021            0.00        0.00      0.000000000
## 8022            0.00        0.00      0.000000000
## 8023            0.00        0.00      0.000000000
## 8024            0.00        0.00      0.008048896
## 8025            0.30        4.30      0.008048896
## 8027            0.94        8.50      0.008048896
## 8028            0.00        0.00      0.008048896
## 8029            3.10       10.30      0.000000000
## 8030            0.30        0.00      0.008048896
## 8031            0.00        0.00      0.008048896
## 8032            1.08       23.60      0.000000000
## 8033            0.00        0.00      0.008048896
## 8034            2.38       18.50      0.200000000
## 8035            0.00        0.00      0.000000000
## 8037            0.00        0.00      0.008048896
## 8038            0.33        5.20      0.000000000
## 8039            0.39        4.30      0.008048896
## 8040            4.07        9.00      0.008048896
## 8041            3.20       13.90      0.008048896
## 8042            0.00        0.00      0.000000000
## 8043            0.52       12.90      0.000000000
## 8044            0.00        0.00      0.008048896
## 8045            0.50        0.00      0.008048896
## 8046            3.40        7.50      0.000000000
## 8047            0.01        0.00      0.008048896
## 8048            0.00        0.00      0.000000000
## 8049            0.00        0.00      0.000000000
```

```
## 8051                   0.01              0.00         0.008048896
## 8054                   0.00              0.00         0.000000000
## 8055                   0.00              0.00         0.000000000
## 8056                   0.00              0.00         0.000000000
## 8057                   0.00              0.00         0.000000000
## 8058                   0.01              0.00         0.008048896
## 8062                   0.00              0.00         0.000000000
## 8063                   3.09             12.00         0.000000000
## 8065                   0.00              0.00         0.008048896
## 8066                   0.00              0.00         0.008048896
## 8068                   0.00              0.00         0.008048896
## 8069                   0.00              0.00         0.000000000
## 8070                   0.00              0.00         0.000000000
## 8072                   0.00              0.00         0.000000000
## 8073                   0.00              0.00         0.000000000
## 8074                   3.41              9.70         0.000000000
## 8075                   0.50              0.00         0.008048896
## 8076                   0.33              4.70         0.008048896
## 8077                   0.40              8.80         0.000000000
## 8080                   0.00              0.00         0.000000000
## 8081                   0.17              4.40         0.008048896
## 8083                   0.00              0.00         0.008048896
## 8087                   0.00              0.00         0.008048896
## 8088                   0.30              5.00         0.008048896
## 8089                   0.00              0.00         0.000000000
## 8091                   0.67             10.78         0.000000000
## 8093                   0.00              0.00         0.008048896
## 8094                   0.27              5.80         0.008048896
## 8095                   2.71             10.70         0.008048896
## 8096                   0.50              0.00         0.008048896
## 8097                   2.39             36.50         0.000000000
## 8098                   0.00              0.00         0.000000000
## 8099                   0.00              0.00         0.000000000
## 8101                   0.00              0.00         0.000000000
## 8102                   0.00              0.00         0.000000000
## 8103                   1.40              8.60         0.008048896
## 8105                   2.44              7.70         0.000000000
## 8106                   0.46             54.30         0.008048896
## 8107                   0.00              0.00         0.008048896
## 8109                   3.12              8.20         0.000000000
## 8110                   0.00              0.00         0.000000000
## 8111                   0.00              0.00         0.000000000
## 8112                   0.00              0.00         0.008048896
## 8113                   0.00              0.00         0.008048896
## 8115                   0.00              0.00         0.008048896
## 8117                   0.00              0.00         0.008048896
## 8118                   2.59              7.00         0.000000000
## 8119                   0.00              0.00         0.008048896
## 8120                   0.00              0.00         0.008048896
## 8121                   0.00              0.00         0.000000000
## 8122                   0.00              0.00         0.008048896
## 8123                   0.00              0.00         0.000000000
## 8124                   1.95             52.90         0.008048896
## 8125                   2.56             17.80         0.800000000
```

```
## 8126         0.32          0.00      0.000000000
## 8127         0.90         13.00      0.008048896
## 8128         0.00          0.00      0.000000000
## 8129         0.00          0.00      0.008048896
## 8130         0.30          5.10      0.000000000
## 8131         0.00          0.00      0.008048896
## 8132         1.00         16.10      0.000000000
## 8134         0.00          0.00      0.000000000
## 8135         0.00          0.00      0.000000000
## 8137         2.67          8.70      0.008048896
## 8139         3.04          8.30      0.000000000
## 8141         0.64          9.00      0.020000000
## 8142         0.21          5.10      0.008048896
## 8143         0.00          0.00      0.008048896
## 8144         0.28          5.80      0.008048896
## 8146         0.31          4.85      0.008048896
## 8147         0.00          0.00      0.000000000
## 8148         0.41          4.90      0.008048896
## 8150         0.00          0.00      0.000000000
## 8152         0.00          0.00      0.000000000
## 8154         0.19          0.00      0.008048896
## 8155         0.14          0.00      0.008048896
## 8156         1.83         23.90      0.000000000
## 8158         0.00          0.00      0.000000000
## 8159         0.00          0.00      0.008048896
## 8160         1.15          9.10      0.050000000
## 8162         0.27          4.90      0.000000000
## 8163         0.00          0.00      0.000000000
## 8164         0.00          0.00      0.000000000
## 8166         0.00          0.00      0.000000000
## 8167         2.94          7.60      0.008048896
## 8169         0.30          5.50      0.008048896
## 8170         0.00          0.00      0.008048896
## 8171         0.29          0.00      0.008048896
## 8173         0.00          0.00      0.000000000
## 8174         1.91          7.40      0.008048896
## 8175         1.06         11.40      0.008048896
## 8176         0.30          4.80      0.008048896
## 8177         2.84          8.20      0.000000000
## 8178         0.00          0.00      0.008048896
## 8179         0.00          0.00      0.000000000
## 8180         0.00          0.00      0.000000000
## 8181         0.00          0.00      0.008048896
## 8182         0.20          4.40      0.000000000
## 8183         0.00          0.00      0.000000000
## 8184         0.00          0.00      0.000000000
## 8185         0.00          0.00      0.008048896
## 8186         0.00          0.00      0.008048896
## 8187         0.00          0.00      0.000000000
## 8188         0.98         12.60      0.008048896
## 8189         0.00          0.00      0.000000000
## 8191         0.01          0.00      0.008048896
## 8192         0.00          0.00      0.000000000
## 8193         2.73         11.90      0.008048896
```

```
## 8195                0.00           0.00          0.000000000
## 8196                3.82           8.40          0.008048896
## 8197                0.00           0.00          0.000000000
## 8199                0.23           5.00          0.008048896
## 8200                0.00           0.00          0.000000000
## 8201                0.00           0.00          0.000000000
## 8202                0.70          12.50          0.008048896
## 8204                0.00           0.00          0.008048896
## 8205                0.00           0.00          0.000000000
## 8206                0.86           9.00          0.008048896
## 8207                0.00           0.00          0.008048896
## 8210                0.00           0.00          0.008048896
## 8212                0.00           0.00          0.000000000
## 8213                2.39          14.60          0.008048896
## 8215                0.00           0.00          0.008048896
## 8216                0.00           0.00          0.008048896
## 8218                0.00           0.00          0.000000000
## 8219                0.00           0.00          0.000000000
## 8220                0.00           0.00          0.000000000
## 8221                0.97          16.20          0.008048896
## 8222                0.20           4.20          0.000000000
## 8224                0.50           0.00          0.008048896
## 8225                0.00           0.00          0.008048896
## 8226                0.00           0.00          0.000000000
## 8227                0.00           0.00          0.000000000
## 8231                0.00           0.00          0.008048896
## 8232                0.00           0.00          0.000000000
## 8233                0.39           4.70          0.008048896
## 8234                0.21           4.70          0.060000000
## 8235                0.00           0.00          0.000000000
## 8236                0.00           0.00          0.000000000
## 8238                0.00           0.00          0.000000000
## 8240                0.00           0.00          0.008048896
## 8241                0.00           0.00          0.008048896
## 8243                0.29           5.20          0.008048896
## 8245                2.71           7.50          0.000000000
## 8246                0.00           0.00          0.000000000
## 8247                0.36           6.10          0.008048896
## 8248                0.00           0.00          0.000000000
## 8249                2.95          23.60          0.008048896
## 8251                0.36           5.30          0.008048896
## 8252                0.00           0.00          0.008048896
## 8253                0.29           0.00          0.008048896
## 8255                0.00           0.00          0.000000000
## 8258                0.00           0.00          0.000000000
## 8259                1.98           0.00          0.008048896
## 8260                0.39           0.00          0.008048896
## 8261                0.00           0.00          0.000000000
## 8262                0.83          14.40          0.008048896
## 8263                0.27           0.00          0.000000000
## 8264                0.00           0.00          0.000000000
## 8265                1.10          11.60          0.008048896
## 8266                2.08          13.70          0.008048896
## 8268                2.79           8.10          0.000000000
```

```
## 8270            0.58         10.70      0.100000000
## 8272            3.75          0.30      0.000000000
## 8273            3.62          9.90      0.008048896
## 8274            0.00          0.00      0.000000000
## 8275            0.29          5.70      0.000000000
## 8276            0.00          0.00      0.000000000
## 8277            3.30          9.50      0.008048896
## 8279            0.00          0.00      0.008048896
## 8280            0.22          4.60      0.000000000
## 8281            2.62         17.60      0.720000000
## 8282            0.00          0.00      0.000000000
## 8287            2.35         27.10      0.000000000
## 8290            0.74          6.50      0.070000000
## 8291            0.00          0.00      0.008048896
## 8292            0.36          5.00      0.000000000
## 8294            0.01          0.00      0.008048896
## 8295            0.00          0.00      0.000000000
## 8297            0.42          0.00      0.008048896
## 8298            0.00          0.00      0.008048896
## 8299            1.08          8.80      0.008048896
## 8300            0.00          0.00      0.008048896
## 8301            0.00          0.00      0.000000000
## 8302            0.02          0.00      0.008048896
## 8303            0.00          0.00      0.000000000
## 8304            0.04          0.00      0.008048896
## 8305            0.00          0.00      0.000000000
## 8307            0.00          0.00      0.008048896
## 8308            0.02          0.00      0.008048896
## 8310            0.00          0.00      0.008048896
## 8311            0.00          0.00      0.000000000
## 8312            0.34         57.40      0.008048896
## 8313            0.00          0.00      0.008048896
## 8314            0.00          0.00      0.008048896
## 8315            0.00          0.00      0.000000000
## 8317            0.00          0.00      0.008048896
## 8320            0.30          4.10      0.000000000
## 8322            0.00          0.00      0.000000000
## 8323            0.00          0.00      0.000000000
## 8327            0.00          0.00      0.008048896
## 8328            0.00          0.00      0.000000000
## 8329            0.00          0.00      0.000000000
## 8330            0.00          0.00      0.008048896
## 8332            0.00          0.00      0.000000000
## 8333            0.00          0.00      0.008048896
## 8335            0.00          0.00      0.000000000
## 8338            0.00          0.00      0.000000000
## 8340            0.00          0.00      0.008048896
## 8341            0.00          0.00      0.000000000
## 8342            0.00          0.00      0.000000000
## 8343            0.00          0.00      0.000000000
## 8344            0.41          4.50      0.000000000
## 8345            0.00          0.00      0.000000000
## 8347            0.00          0.00      0.008048896
## 8348            0.00          0.00      0.008048896
```

```
## 8349          0.21          4.20          0.008048896
## 8351          0.00          0.00          0.000000000
## 8353          0.60          6.30          0.000000000
## 8355          0.00          0.00          0.000000000
## 8356          0.21          0.00          0.000000000
## 8357          0.00          0.00          0.008048896
## 8360          0.00          0.00          0.000000000
## 8361          0.00          0.00          0.008048896
## 8362          0.00          0.00          0.008048896
## 8363          0.00          0.00          0.008048896
## 8364          0.78         10.87          0.000000000
## 8365          0.00          0.00          0.008048896
## 8366          0.00          0.00          0.008048896
## 8367          0.00          0.00          0.000000000
## 8368          0.00          0.00          0.008048896
## 8369          2.64          8.20          0.000000000
## 8370          2.47          7.40          0.000000000
## 8372          0.00          0.00          0.000000000
## 8373          0.00          0.00          0.008048896
## 8374          0.00          0.00          0.000000000
## 8375          0.03          0.00          0.008048896
## 8377          0.00          0.00          0.008048896
## 8378          0.00          0.00          0.000000000
## 8381          0.00          0.00          0.000000000
## 8382          0.50          0.00          0.008048896
## 8383          0.00          0.00          0.000000000
## 8384          0.00          0.00          0.000000000
## 8385          1.85          6.90          0.008048896
## 8386          0.00          0.00          0.008048896
## 8387          0.00          0.00          0.008048896
## 8388          0.20          4.40          0.000000000
## 8389          0.26          5.70          0.000000000
## 8392          0.00          0.00          0.008048896
## 8393          0.00          0.00          0.000000000
## 8394          0.72         10.20          0.008048896
## 8395          0.00          0.00          0.008048896
## 8397          0.14          0.00          0.008048896
## 8398          0.00          0.00          0.000000000
## 8399          0.00          0.00          0.000000000
## 8400          0.83         13.30          0.008048896
## 8401          3.23          9.51          0.000000000
## 8402          0.00          0.00          0.000000000
## 8403          0.00          0.00          0.008048896
## 8404          0.00          0.00          0.000000000
## 8405          0.00          0.00          0.008048896
## 8407          0.00          0.00          0.008048896
## 8408          1.09         10.30          0.008048896
## 8410          0.82         10.50          0.008048896
## 8411          0.41          0.00          0.000000000
## 8413          0.88          9.80          0.008048896
## 8415          0.00          0.00          0.000000000
## 8416          0.00          0.00          0.008048896
## 8417          0.00          0.00          0.008048896
## 8418          1.01         15.20          0.000000000
```

```
## 8419                0.00               0.00            0.008048896
## 8420                0.31               5.20            0.008048896
## 8422                0.00               0.00            0.000000000
## 8424                0.00               0.00            0.000000000
## 8425                0.00               0.00            0.000000000
## 8426                0.00               0.00            0.000000000
## 8427                0.00               0.00            0.008048896
## 8428                0.00               0.00            0.000000000
## 8431                0.00               0.00            0.008048896
## 8432                0.00               0.00            0.008048896
## 8433                3.44              10.40            0.008048896
## 8434                0.00               0.00            0.000000000
## 8436                1.23              16.60            0.008048896
## 8438                0.30               0.00            0.008048896
## 8439                0.84              10.70            0.008048896
## 8440                3.00               7.90            0.008048896
## 8441                2.92               9.40            0.000000000
## 8443                0.00               0.00            0.008048896
## 8444                0.00               0.00            0.000000000
## 8445                2.54              21.30            0.000000000
## 8446                0.42              42.00            0.000000000
## 8447                1.94              12.30            0.008048896
## 8448                0.00               0.00            0.000000000
## 8449                0.50               0.00            0.008048896
## 8450                0.00               0.00            0.008048896
## 8453                0.00               0.00            0.000000000
## 8454                0.31               5.50            0.008048896
## 8455                2.15               0.21            0.008048896
## 8456                0.00               0.00            0.008048896
## 8457                0.00               0.00            0.008048896
## 8458                0.96              10.40            0.070000000
## 8459                0.00               0.00            0.000000000
## 8460                0.00               0.00            0.000000000
## 8461                0.00               0.00            0.000000000
## 8462                0.30               5.90            0.008048896
## 8463                0.00               0.00            0.000000000
## 8464                0.30               5.50            0.008048896
## 8465                1.15              44.30            0.000000000
## 8466                2.59               8.60            0.008048896
## 8468                0.00               0.00            0.000000000
## 8469                0.00               0.00            0.000000000
## 8470                0.21               4.80            0.000000000
## 8471                0.00               0.00            0.000000000
## 8473                0.00               0.00            0.000000000
## 8474                0.00               0.00            0.000000000
## 8475                0.00               0.00            0.000000000
## 8476                0.50               0.00            0.008048896
## 8477                0.34               4.50            0.000000000
## 8478                6.10               0.50            0.000000000
## 8480                0.00               0.00            0.008048896
## 8481                0.00               0.00            0.008048896
## 8482                0.00               0.00            0.000000000
## 8483                0.00               0.00            0.000000000
## 8484                1.03               9.80            0.008048896
```

```
## 8485               2.50          14.50       0.008048896
## 8486               0.50           0.00       0.008048896
## 8487               0.00           0.00       0.000000000
## 8488               0.00           0.00       0.000000000
## 8490               0.22           4.50       0.008048896
## 8491               0.00           0.00       0.000000000
## 8492               2.04          14.60       0.008048896
## 8495               0.00           0.00       0.000000000
## 8496               0.00           0.00       0.008048896
## 8497               0.30           4.90       0.000000000
## 8498               0.00           0.00       0.000000000
## 8499               1.02          10.40       0.008048896
## 8500               0.00           0.00       0.000000000
## 8501               0.00           0.00       0.008048896
## 8503               0.21           5.20       0.008048896
## 8504               0.37           5.30       0.000000000
## 8506               0.00           0.00       0.000000000
## 8507               0.40           0.00       0.000000000
## 8508               0.25           5.00       0.068000000
## 8509               0.00           0.00       0.008048896
## 8511               0.00           0.00       0.000000000
## 8512               0.00           0.00       0.000000000
## 8513               0.59          13.10       0.000000000
## 8514               0.28           5.50       0.090000000
## 8515               0.00           0.00       0.000000000
## 8516               0.00           0.00       0.000000000
## 8517               0.00           0.00       0.008048896
## 8518               0.79          11.39       0.000000000
## 8519               0.87           9.30       0.110000000
## 8520               0.00           0.00       0.000000000
## 8521               0.00           0.00       0.000000000
## 8522               0.00           0.00       0.008048896
## 8523               0.32           5.00       0.008048896
## 8525               5.43           0.00       0.008048896
## 8526               1.01          15.90       0.000000000
## 8528               0.00           0.00       0.000000000
## 8529               2.95           8.60       0.008048896
## 8530               0.00           0.00       0.000000000
## 8531               0.00           0.00       0.000000000
## 8532               0.00           0.00       0.000000000
## 8533               0.65          10.00       0.060000000
## 8534               0.00           0.00       0.000000000
## 8535               0.90           9.31       0.000000000
## 8536               0.00           0.00       0.000000000
## 8537               0.00           0.00       0.000000000
## 8538               0.00           0.00       0.000000000
## 8539               0.00           0.00       0.008048896
## 8541               0.00           0.00       0.000000000
## 8542               0.00           0.00       0.000000000
## 8543               0.00           0.00       0.008048896
## 8544               1.96           7.30       0.000000000
## 8545               0.00           0.00       0.000000000
## 8546               3.02           8.70       0.000000000
## 8549               1.25           0.00       0.008048896
```

```
## 8550             0.00         0.00      0.008048896
## 8551             0.00         0.00      0.000000000
## 8552             0.76        10.50      0.008048896
## 8553             0.00         0.00      0.000000000
## 8555             0.00         0.00      0.000000000
## 8556             0.00         0.00      0.008048896
## 8557             2.64        10.30      0.000000000
## 8558             0.91        10.10      0.008048896
## 8559             0.00         0.00      0.000000000
## 8564             0.00         0.00      0.000000000
## 8565             2.71         7.90      0.000000000
## 8566             0.70        12.80      0.008048896
## 8568             1.23        13.10      0.008048896
## 8571             0.86        11.60      0.008048896
## 8572             0.00         0.00      0.000000000
## 8573             0.00         0.00      0.008048896
## 8575             0.00         0.00      0.000000000
## 8576             0.00         0.00      0.000000000
## 8578             0.52        12.00      0.000000000
## 8579             0.00         0.00      0.008048896
## 8581             0.00         0.00      0.008048896
## 8582             0.00         0.00      0.008048896
## 8584             0.00         0.00      0.000000000
## 8585             4.37         9.20      0.118000000
## 8586             0.00         0.00      0.000000000
## 8587             0.32         4.90      0.008048896
## 8590             1.47         8.90      0.008048896
## 8591             0.00         0.00      0.000000000
## 8592             2.33         7.90      0.000000000
## 8594             0.31         6.00      0.000000000
## 8595             0.00         0.00      0.000000000
## 8596             0.00         0.00      0.008048896
## 8598             0.00         0.00      0.000000000
## 8600             0.00         0.00      0.008048896
## 8601             0.00         0.00      0.000000000
## 8602             1.49         9.30      0.008048896
## 8603             0.91        10.00      0.008048896
## 8604             2.94         8.80      0.008048896
## 8605             0.00         0.00      0.000000000
## 8606             0.80         9.37      0.000000000
## 8608             0.00         0.00      0.008048896
## 8609             0.41         5.00      0.008048896
## 8610             5.62         0.80      0.008048896
## 8611             0.51        14.00      0.000000000
## 8613             0.00         0.00      0.008048896
## 8614             0.00         0.00      0.000000000
## 8615             0.00         0.00      0.000000000
## 8616             0.00         0.00      0.000000000
## 8617             1.17        10.50      0.000000000
## 8618             0.00         0.00      0.000000000
## 8619             0.71         8.70      0.008048896
## 8620             1.00         0.00      0.008048896
## 8623             0.00         0.00      0.008048896
## 8624             0.00         0.00      0.000000000
```

```
## 8625          0.00          0.00          0.000000000
## 8628          0.00          0.00          0.008048896
## 8629          0.24          4.30          0.000000000
## 8630          0.00          0.00          0.008048896
## 8632          0.95         12.40          0.000000000
## 8633          0.00          0.00          0.000000000
## 8635          0.00          0.00          0.000000000
## 8636          0.00          0.00          0.008048896
## 8637          0.33          8.50          0.008048896
## 8639          0.00          0.00          0.008048896
## 8640          0.00          0.00          0.000000000
## 8642          0.00          0.00          0.008048896
## 8643          0.00          0.00          0.008048896
## 8644          0.00          0.00          0.000000000
## 8647          2.10          8.30          0.008048896
## 8648          0.00          0.00          0.000000000
## 8649          2.82          8.20          0.000000000
## 8650          0.23          6.20          0.000000000
## 8651          0.00          0.00          0.008048896
## 8652          0.00          0.00          0.000000000
## 8653          0.00          0.00          0.008048896
## 8655          0.00          0.00          0.000000000
## 8656          0.00          0.00          0.008048896
## 8657          0.00          0.00          0.008048896
## 8658          0.00          0.00          0.008048896
## 8660          0.00          0.00          0.008048896
## 8661          0.00          0.00          0.008048896
## 8662          3.58         12.85          0.000000000
## 8664          0.00          0.00          0.000000000
## 8665          0.00          0.00          0.008048896
## 8667          0.00          0.00          0.000000000
## 8669          2.30         33.00          0.000000000
## 8670          0.00          0.00          0.000000000
## 8673          0.00          0.00          0.000000000
## 8675          0.00          0.00          0.000000000
## 8676          0.25          4.60          0.000000000
## 8677          0.00          0.00          0.000000000
## 8679          1.66         12.60          0.000000000
## 8681          0.00          0.00          0.008048896
## 8682          0.00          0.00          0.000000000
## 8683          0.00          0.00          0.000000000
## 8684          3.00          8.20          0.008048896
## 8685          0.00          0.00          0.000000000
## 8686          0.30          4.90          0.008048896
## 8688          0.00          0.00          0.000000000
## 8689          0.00          0.00          0.000000000
## 8690          0.30          5.90          0.100000000
## 8691          0.00          0.00          0.008048896
## 8692          0.00          0.00          0.000000000
## 8693          0.91         12.20          0.000000000
## 8694          0.00          0.00          0.000000000
## 8695          0.00          0.00          0.000000000
## 8696          0.00          0.00          0.000000000
## 8698          0.80         10.83          0.000000000
```

```
## 8700              2.25         8.10       0.100000000
## 8705              0.00         0.00       0.008048896
## 8707              2.97         8.20       0.000000000
## 8708              0.18         0.00       0.008048896
## 8709              0.22         4.50       0.008048896
## 8710              0.75        13.80       0.008048896
## 8711              0.01         0.00       0.008048896
## 8712              0.00         0.00       0.008048896
## 8715              0.00         0.00       0.000000000
## 8716              0.00         0.00       0.000000000
## 8717              3.29         7.10       0.000000000
## 8718              0.00         0.00       0.000000000
## 8719              0.00         0.00       0.008048896
## 8720              0.00         0.00       0.000000000
## 8721              0.15         0.00       0.008048896
## 8723              0.00         0.00       0.000000000
## 8725              0.00         0.00       0.000000000
## 8727              0.21         5.20       0.008048896
## 8729              0.00         0.00       0.008048896
## 8730              0.00         0.00       0.000000000
## 8731              0.00         0.00       0.000000000
## 8733              0.00         0.00       0.000000000
## 8734              0.00         0.00       0.008048896
## 8738              0.00         0.00       0.000000000
## 8739              1.02        17.00       0.000000000
## 8740              0.00         0.00       0.008048896
## 8741              1.71         6.90       0.008048896
## 8743              0.00         0.00       0.008048896
## 8744              0.30         0.00       0.008048896
## 8745              0.00         0.00       0.000000000
## 8747              0.32         5.20       0.000000000
## 8749              0.00         0.00       0.000000000
## 8750              0.00         0.00       0.000000000
## 8751              0.68        12.30       0.008048896
## 8753              0.00         0.00       0.000000000
## 8754              0.00         0.00       0.000000000
## 8756              0.81        12.80       0.008048896
## 8757              0.00         0.00       0.000000000
## 8758              0.17         0.00       0.008048896
## 8763              0.00         0.00       0.000000000
## 8764              0.00         0.00       0.000000000
## 8766              0.00         0.00       0.008048896
## 8767              1.23        13.03       0.008048896
## 8768              0.77        10.00       0.000000000
## 8769              0.00         0.00       0.008048896
## 8771              0.00         0.00       0.008048896
## 8772              0.00         0.00       0.008048896
## 8773              0.00         0.00       0.000000000
## 8774              0.00         0.00       0.000000000
## 8776              0.00         0.00       0.000000000
## 8777              0.00         0.00       0.008048896
## 8778              0.64         8.90       0.008048896
## 8779              0.00         0.00       0.000000000
## 8780              2.43         8.60       0.000000000
```

```
## 8782          1.64           6.90          0.008048896
## 8783          0.00           0.00          0.000000000
## 8785          0.00           0.00          0.008048896
## 8786          2.92           8.20          0.000000000
## 8789          0.00           0.00          0.000000000
## 8791          0.22           5.60          0.008048896
## 8793          0.28           4.70          0.008048896
## 8794          0.00           0.00          0.000000000
## 8795          0.00           0.00          0.008048896
## 8796          0.66          13.60          0.008048896
## 8797          0.00           0.00          0.008048896
## 8798          0.00           0.00          0.000000000
## 8799          0.00           0.00          0.000000000
## 8800          0.00           0.00          0.000000000
## 8801          1.54           7.90          0.008048896
## 8802          0.00           0.00          0.008048896
## 8803          0.00           0.00          0.000000000
## 8804          0.19           0.00          0.008048896
## 8805          2.98          10.70          0.008048896
## 8806          0.00           0.00          0.008048896
## 8807          2.20           7.90          0.000000000
## 8808          0.42           8.40          0.008048896
## 8809          0.00           0.00          0.000000000
## 8810          0.00           0.00          0.008048896
## 8811          3.43           8.50          0.059000000
## 8814          0.00           0.00          0.008048896
## 8816          0.00           0.00          0.000000000
## 8817          0.00           0.00          0.000000000
## 8819          0.00           0.00          0.008048896
## 8820          0.00           0.00          0.000000000
## 8823          0.23           4.30          0.008048896
## 8825          0.00           0.00          0.000000000
## 8827          0.00           0.00          0.008048896
## 8829          0.00           0.00          0.000000000
## 8830          1.14           7.60          0.000000000
## 8831          0.00           0.00          0.000000000
## 8835          0.00           0.00          0.008048896
## 8836          0.35           5.30          0.093000000
## 8838          0.00           0.00          0.000000000
## 8839          1.50           8.00          0.008048896
## 8841          0.66           8.00          0.008048896
## 8844          0.87          14.70          0.008048896
## 8846          0.00           0.00          0.000000000
## 8847          0.21           4.70          0.008048896
## 8848          1.00          12.00          0.008048896
## 8850          3.00           9.00          0.008048896
## 8851          0.00           0.00          0.000000000
## 8853          0.00           0.00          0.008048896
## 8854          0.00           0.00          0.008048896
## 8855          0.00           0.00          0.008048896
## 8856          1.11           0.00          0.000000000
## 8858          0.70          22.00          0.008048896
## 8864          0.00           0.00          0.000000000
## 8865          0.00           0.00          0.000000000
```

```
## 8868                    0.00              0.00          0.000000000
## 8869                    0.00              0.00          0.008048896
## 8871                    0.75             10.82          0.008048896
## 8872                    0.00              0.00          0.000000000
## 8873                    0.62              9.40          0.008048896
## 8874                    0.00              0.00          0.000000000
## 8875                    0.13              0.00          0.008048896
## 8877                    0.00              0.00          0.000000000
## 8878                    0.00              0.00          0.000000000
## 8879                    0.00              0.00          0.000000000
## 8880                    0.00              0.00          0.008048896
## 8881                    0.00              0.00          0.008048896
## 8882                    2.36              7.80          0.130000000
## 8884                    0.00              0.00          0.000000000
## 8885                    0.00              0.00          0.000000000
## 8888                    2.68              7.80          0.000000000
## 8889                    0.40              5.40          0.008048896
## 8890                    1.89             12.80          0.008048896
## 8891                    0.00              0.00          0.008048896
## 8893                    0.71              9.20          0.008048896
## 8894                    0.00              0.00          0.000000000
## 8896                    0.00              0.00          0.008048896
## 8897                    0.20              0.00          0.008048896
## 8899                    0.00              0.00          0.008048896
## 8900                    2.70             15.90          0.000000000
## 8901                    0.00              0.00          0.008048896
## 8902                    0.00              0.00          0.000000000
## 8903                    1.13             11.00          0.008048896
## 8905                    0.00              0.00          0.000000000
## 8906                    0.00              0.00          0.000000000
## 8907                    0.00              0.00          0.008048896
## 8908                    3.04              9.20          0.008048896
## 8909                    0.00              0.00          0.000000000
## 8910                    0.00              0.00          0.000000000
## 8911                    0.00              0.00          0.000000000
## 8914                    2.16             19.00          0.210000000
## 8915                    0.00              0.00          0.000000000
## 8919                    0.29              4.70          0.008048896
## 8920                    0.00              0.00          0.000000000
## 8921                    2.99              8.30          0.000000000
## 8922                    0.29              5.50          0.008048896
## 8923                    0.21              4.50          0.008048896
## 8924                    0.00              0.00          0.000000000
## 8925                    0.00              0.00          0.000000000
## 8926                    0.00              0.00          0.008048896
## 8928                    0.00              0.00          0.008048896
## 8930                    0.91             11.33          0.008048896
## 8931                    0.30              0.00          0.008048896
## 8932                    0.00              0.00          0.008048896
## 8935                    0.74              5.70          0.050000000
## 8936                    0.00              0.00          0.000000000
## 8937                    0.00              0.00          0.008048896
## 8938                    0.19              0.00          0.008048896
## 8940                    0.00              0.00          0.000000000
```

```
## 8942                    0.00          0.00        0.008048896
## 8943                    0.00          0.00        0.000000000
## 8944                    0.00          0.00        0.000000000
## 8945                    0.00          0.00        0.000000000
## 8946                    0.00          0.00        0.000000000
## 8947                    0.29          5.40        0.008048896
## 8948                    0.40          4.90        0.090000000
## 8949                    0.00          0.00        0.000000000
## 8950                    0.00          0.00        0.000000000
## 8951                    0.00          0.00        0.000000000
## 8952                    0.00          0.00        0.000000000
## 8953                    0.97         10.40        0.008048896
## 8954                    0.00          0.00        0.000000000
## 8956                    0.00          0.00        0.008048896
## 8957                    0.00          0.00        0.000000000
## 8958                    0.00          0.00        0.008048896
## 8961                    0.24          4.50        0.008048896
## 8962                    0.00          0.00        0.008048896
## 8963                    0.28          5.00        0.000000000
## 8964                    0.24          4.30        0.000000000
## 8965                    3.46         31.50        0.008048896
## 8966                    4.06         21.20        0.008048896
## 8968                    0.09          0.00        0.008048896
## 8969                    0.00          0.00        0.000000000
## 8970                    0.00          0.00        0.008048896
## 8973                    0.00          0.00        0.000000000
## 8975                    0.00          0.00        0.000000000
## 8976                    0.00          0.00        0.000000000
## 8977                    0.00          0.00        0.008048896
## 8978                    0.18          4.20        0.000000000
## 8979                    0.00          0.00        0.000000000
## 8983                    0.54         11.69        0.008048896
## 8984                    4.27         10.00        0.000000000
## 8985                    0.00          0.00        0.000000000
## 8986                    0.00          0.00        0.008048896
## 8988                    0.00          0.00        0.000000000
## 8989                    0.27          4.90        0.008048896
## 8991                    1.50          8.70        0.008048896
## 8992                    0.00          0.00        0.000000000
## 8993                    0.20          0.00        0.008048896
## 8994                    0.00          0.00        0.008048896
## 8995                    2.81         10.35        0.000000000
## 8997                    0.73         14.30        0.000000000
## 8999                    0.00          0.00        0.000000000
## 9000                    0.25          4.80        0.000000000
## 9001                    0.00          0.00        0.000000000
## 9002                    0.00          0.00        0.008048896
## 9003                    0.00          0.00        0.008048896
## 9004                    0.00          0.00        0.000000000
## 9005                    0.82         12.10        0.000000000
## 9006                    0.00          0.00        0.000000000
## 9009                    1.73          7.00        0.008048896
## 9010                    2.46         20.20        0.210000000
## 9011                    4.06          9.14        0.000000000
```

```
## 9013              0.00            0.00         0.000000000
## 9014              0.00            0.00         0.000000000
## 9016              2.75           28.90         0.008048896
## 9017              2.50            7.70         0.100000000
## 9018              0.00            0.00         0.000000000
## 9019              0.24            5.40         0.008048896
## 9021              0.00            0.00         0.000000000
## 9022              0.00            0.00         0.000000000
## 9023              0.00            0.00         0.000000000
## 9024              0.00            0.00         0.008048896
## 9025              0.00            0.00         0.008048896
## 9026              0.22            5.70         0.000000000
## 9030              0.00            0.00         0.000000000
## 9032              0.00            0.00         0.000000000
## 9033              0.00            0.00         0.008048896
## 9034              0.00            0.00         0.008048896
## 9035              1.84           10.20         0.008048896
## 9036              0.00            0.00         0.000000000
## 9037              0.00            0.00         0.000000000
## 9038              0.00            0.00         0.008048896
## 9039              0.00            0.00         0.000000000
## 9040              0.76           13.20         0.000000000
## 9041              1.02           11.16         0.000000000
## 9043              0.00            0.00         0.000000000
## 9044              0.00            0.00         0.000000000
## 9045              0.59           12.50         0.000000000
## 9046              0.00            0.00         0.000000000
## 9047              0.00            0.00         0.000000000
## 9048              0.00            0.00         0.000000000
## 9049              0.01            0.00         0.008048896
## 9050              0.00            0.00         0.000000000
## 9051              0.00            0.00         0.000000000
## 9052              0.00            0.00         0.008048896
## 9053              0.22            5.40         0.008048896
## 9054              0.00            0.00         0.008048896
## 9055              1.54           12.50         0.000000000
## 9056              2.92           10.00         0.008048896
## 9057              0.00            0.00         0.000000000
## 9058              0.25            5.60         0.008048896
## 9059              0.00            0.00         0.000000000
## 9060              0.24            5.30         0.008048896
## 9062              1.75           11.80         0.008048896
## 9063              0.19            4.50         0.008048896
## 9064              0.00            0.00         0.000000000
## 9066              0.03            0.00         0.008048896
## 9069              0.78           11.99         0.008048896
## 9070              0.00            0.00         0.008048896
## 9072              0.00            0.00         0.008048896
## 9073              0.00            0.00         0.000000000
## 9074              0.00            0.00         0.000000000
## 9076              0.53            6.70         0.008048896
## 9077              0.19            4.50         0.008048896
## 9078              0.40            5.30         0.000000000
## 9081              0.00            0.00         0.008048896
```

```
## 9083          0.00          0.00          0.008048896
## 9084          0.00          0.00          0.000000000
## 9087          0.00          0.00          0.000000000
## 9088          0.00          0.00          0.000000000
## 9089          2.98          9.02          0.000000000
## 9091          1.51          8.50          0.008048896
## 9092          0.32          5.30          0.008048896
## 9093          0.00          0.00          0.008048896
## 9094          0.00          0.00          0.008048896
## 9095          0.24         63.00          0.000000000
## 9096          0.00          0.00          0.000000000
## 9097          0.00          0.00          0.008048896
## 9098          2.65          7.50          0.000000000
## 9099          0.00          0.00          0.008048896
## 9100          0.00          0.00          0.000000000
## 9103          1.00          9.00          0.008048896
## 9104          0.36          5.40          0.000000000
## 9106          0.00          0.00          0.000000000
## 9107          0.00          0.00          0.000000000
## 9108          0.00          0.00          0.000000000
## 9109          0.74         12.80          0.100000000
## 9110          0.00          0.00          0.008048896
## 9111          0.00          0.00          0.008048896
## 9112          1.12          8.30          0.100000000
## 9113          0.24          4.90          0.000000000
## 9115          0.32          5.98          0.008048896
## 9116          0.00          0.00          0.000000000
## 9117          0.00          0.00          0.000000000
## 9118          0.00          0.00          0.008048896
## 9119          2.05          6.40          0.008048896
## 9120          0.00          0.00          0.000000000
## 9122          0.00          0.00          0.000000000
## 9123          0.00          0.00          0.000000000
## 9125          0.00          0.00          0.008048896
## 9126          0.00          0.00          0.000000000
## 9127          0.54         10.90          0.008048896
## 9128          3.49         12.50          0.008048896
## 9129          0.00          0.00          0.000000000
## 9130          2.56          7.90          0.121000000
## 9131          0.91         11.20          0.008048896
## 9132          0.00          0.00          0.000000000
## 9134          0.00          0.00          0.008048896
## 9135          2.02          8.70          0.008048896
## 9136          0.00          0.00          0.000000000
## 9138          0.00          0.00          0.000000000
## 9139          0.34          5.20          0.008048896
## 9140          0.00          0.00          0.000000000
## 9141          0.00          0.00          0.008048896
## 9142          0.00          0.00          0.008048896
## 9143          0.00          0.00          0.000000000
## 9144          0.00          0.00          0.000000000
## 9145          0.00          0.00          0.008048896
## 9146          2.62          7.40          0.008048896
## 9147          0.20          0.00          0.008048896
```

```
## 9148            0.00          0.00        0.008048896
## 9149            0.28          4.90        0.008048896
## 9150            0.00          0.00        0.000000000
## 9151            0.00          0.00        0.008048896
## 9153            0.00          0.00        0.000000000
## 9154            0.00          0.00        0.008048896
## 9156            0.28          4.85        0.000000000
## 9157            0.31         28.30        0.008048896
## 9158            0.00          0.00        0.000000000
## 9159            3.69         10.60        0.008048896
## 9162            0.02          0.00        0.008048896
## 9164            0.05          0.00        0.008048896
## 9165            2.44          8.20        0.008048896
## 9166            0.73         10.80        0.008048896
## 9169            0.00          0.00        0.000000000
## 9170            0.00          0.00        0.000000000
## 9171            0.00          0.00        0.000000000
## 9172            0.00          0.00        0.000000000
## 9173            0.00          0.00        0.000000000
## 9174            0.00          0.00        0.000000000
## 9177            0.00          0.00        0.000000000
## 9178            0.00          0.00        0.000000000
## 9179            0.00          0.00        0.000000000
## 9182            0.18          4.50        0.000000000
## 9183            0.00          0.00        0.000000000
## 9184            1.06         11.70        0.008048896
## 9185            0.92          6.80        0.008048896
## 9186            0.00          0.00        0.008048896
## 9187            0.00          0.00        0.000000000
## 9188            0.00          0.00        0.008048896
## 9189            0.19          4.50        0.000000000
## 9190            0.25          4.90        0.008048896
## 9191            1.72         12.70        0.008048896
## 9192            0.00          0.00        0.000000000
## 9193            2.96          7.80        0.000000000
## 9194            1.73         22.80        0.000000000
## 9195            0.30          0.00        0.008048896
## 9197            0.00          0.00        0.000000000
## 9198            0.23          6.40        0.008048896
## 9199            0.00          0.00        0.000000000
## 9200            0.45         42.70        0.008048896
## 9203            0.68         10.90        0.008048896
## 9204            0.25          5.60        0.000000000
## 9205            0.00          0.00        0.000000000
## 9206            0.00          0.00        0.000000000
## 9207            2.47          7.80        0.000000000
## 9208            2.88          8.80        0.008048896
## 9209            2.98          8.10        0.000000000
## 9210            0.29          4.80        0.008048896
## 9211            0.00          0.00        0.000000000
## 9212            0.00          0.00        0.008048896
## 9213            3.41          9.40        0.000000000
## 9215            4.45          9.41        0.008048896
## 9217            2.40         21.00        0.000000000
```

```
## 9218                0.00            0.00         0.008048896
## 9219                0.00            0.00         0.000000000
## 9220                0.00            0.00         0.008048896
## 9221                0.24            4.90         0.100000000
## 9223                2.34            8.90         0.000000000
## 9224                0.00            0.00         0.008048896
## 9225                0.00            0.00         0.008048896
## 9226                0.00            0.00         0.008048896
## 9228                0.00            0.00         0.000000000
## 9229                1.01           24.60         0.008048896
## 9233                0.00            0.00         0.008048896
## 9234                0.00            0.00         0.000000000
## 9235                2.54            8.60         0.000000000
## 9236                0.00            0.00         0.000000000
## 9237                0.00            0.00         0.000000000
## 9238                0.82            9.60         0.008048896
## 9239                1.72           17.30         0.000000000
## 9241                0.00            0.00         0.008048896
## 9242                0.00            0.00         0.000000000
## 9247                1.01            7.50         0.008048896
## 9248                3.02           48.40         0.460000000
## 9250                0.00            0.00         0.008048896
## 9251                0.00            0.00         0.008048896
## 9252                0.00            0.00         0.000000000
## 9253                0.00            0.00         0.000000000
## 9254                0.00            0.00         0.000000000
## 9255                3.17            8.70         0.000000000
## 9259                0.75           11.00         0.008048896
## 9260                0.00            0.00         0.008048896
## 9261                3.25            9.50         0.008048896
## 9262                0.00            0.00         0.000000000
## 9264                0.28            5.20         0.000000000
## 9265                3.14            8.80         0.008048896
## 9266                0.00            0.00         0.000000000
## 9267                0.00            0.00         0.000000000
## 9268                0.30            5.30         0.008048896
## 9269                0.29            5.10         0.100000000
## 9271                0.00            0.00         0.008048896
## 9273                0.00            0.00         0.000000000
## 9274                0.26            5.10         0.000000000
## 9275                0.31            5.80         0.008048896
## 9276                0.00            0.00         0.008048896
## 9281                0.69            9.80         0.008048896
## 9282                0.00            0.00         0.000000000
## 9284                0.00            0.00         0.008048896
## 9287                0.00            0.00         0.000000000
## 9289                0.00            0.00         0.008048896
## 9290                1.14            9.40         0.110000000
## 9292                0.69           20.10         0.008048896
## 9293                2.59           20.00         0.008048896
## 9294                0.00            0.00         0.000000000
## 9295                0.00            0.00         0.008048896
## 9302                0.35            5.40         0.008048896
## 9304                0.00            0.00         0.000000000
```

```
## 9305             0.00            0.00          0.000000000
## 9306             0.00            0.00          0.000000000
## 9307             0.00            0.00          0.000000000
## 9309             0.00            0.00          0.008048896
## 9311             0.00            0.00          0.000000000
## 9312             2.40            7.50          0.140000000
## 9313             0.00            0.00          0.000000000
## 9315             0.22            5.30          0.008048896
## 9316             0.00            0.00          0.008048896
## 9317             0.37            5.90          0.000000000
## 9319             0.00            0.00          0.000000000
## 9321             3.04            8.20          0.008048896
## 9322             0.00            0.00          0.000000000
## 9324             0.00            0.00          0.008048896
## 9325             0.00            0.00          0.000000000
## 9326             0.00            0.00          0.008048896
## 9328             0.00            0.00          0.008048896
## 9329             0.00            0.00          0.000000000
## 9330             0.00            0.00          0.008048896
## 9331             0.00            0.00          0.000000000
## 9332             0.21            5.64          0.008048896
## 9333             0.00            0.00          0.008048896
## 9335             0.00            0.00          0.008048896
## 9337             1.66           13.50          0.000000000
## 9338             0.00            0.00          0.008048896
## 9339             0.98            8.20          0.008048896
## 9340             0.00            0.00          0.000000000
## 9341             0.00            0.00          0.000000000
## 9342             0.00            0.00          0.000000000
## 9343             2.95            9.00          0.008048896
## 9344             0.00            0.00          0.008048896
## 9345             0.00            0.00          0.000000000
## 9346             0.00            0.00          0.000000000
## 9347             0.00            0.00          0.000000000
## 9348             0.00            0.00          0.008048896
## 9349             2.75           10.10          0.008048896
## 9350             0.00            0.00          0.008048896
## 9351             0.93           10.78          0.000000000
## 9352             0.00            0.00          0.000000000
## 9353             0.22            4.50          0.000000000
## 9354             0.00            0.00          0.008048896
## 9355             0.87            9.80          0.008048896
## 9356             0.36            6.20          0.090000000
## 9357             0.00            0.00          0.000000000
## 9359             0.00            0.00          0.008048896
## 9361             0.65            0.00          0.008048896
## 9362             0.33            4.40          0.000000000
## 9363             5.27            0.40          0.000000000
## 9364             0.00            0.00          0.008048896
## 9365             2.30            7.60          0.000000000
## 9366             2.42            9.20          0.000000000
## 9367             0.00            0.00          0.008048896
## 9369             0.00            0.00          0.000000000
## 9370             0.00            0.00          0.000000000
```

```
## 9372                0.00            0.00         0.008048896
## 9373                0.98           10.15         0.000000000
## 9374                0.00            0.00         0.008048896
## 9375                0.00            0.00         0.000000000
## 9376                0.64            5.30         0.008048896
## 9377                0.33            5.60         0.008048896
## 9378                0.00            0.00         0.000000000
## 9379                0.00            0.00         0.000000000
## 9380                0.00            0.00         0.008048896
## 9381                0.00            0.00         0.000000000
## 9383                1.97           24.90         0.300000000
## 9384                0.00            0.00         0.000000000
## 9385                0.00            0.00         0.008048896
## 9386                0.00            0.00         0.000000000
## 9387                0.00            0.00         0.008048896
## 9388                0.87            9.50         0.008048896
## 9389                0.00            0.00         0.000000000
## 9390                0.55            7.10         0.022000000
## 9393                0.00            0.00         0.000000000
## 9394                0.00            0.00         0.000000000
## 9395                0.19            0.00         0.008048896
## 9396                0.00            0.00         0.008048896
## 9397                0.92            9.59         0.000000000
## 9398                0.23            4.70         0.000000000
## 9399                0.27            5.30         0.000000000
## 9400                0.00            0.00         0.008048896
## 9401                1.67            7.60         0.000000000
## 9403                0.50            7.00         0.008048896
## 9404                0.49           10.00         0.008048896
## 9406                0.00            0.00         0.008048896
## 9408                0.00            0.00         0.000000000
## 9409                0.44           62.30         0.008048896
## 9410                0.84           12.73         0.008048896
## 9411                0.00            0.00         0.008048896
## 9412                0.00            0.00         0.008048896
## 9414                0.91            9.80         0.008048896
## 9415                0.00            0.00         0.000000000
## 9416                1.05            9.50         0.008048896
## 9418                0.87           12.30         0.000000000
## 9420                0.00            0.00         0.000000000
## 9421                0.35            5.20         0.008048896
## 9422                2.77           10.10         0.000000000
## 9423                0.28            5.30         0.000000000
## 9425                0.40            5.50         0.000000000
## 9426                0.25            4.90         0.000000000
## 9427                0.00            0.00         0.000000000
## 9428                0.00            0.00         0.008048896
## 9430                2.80            8.30         0.000000000
## 9431                0.19            4.90         0.000000000
## 9432                0.24            4.70         0.000000000
## 9433                0.69            0.00         0.008048896
## 9435                0.36           10.40         0.008048896
## 9436                0.00            0.00         0.008048896
## 9437                0.00            0.00         0.008048896
```

```
## 9438              0.00          0.00       0.000000000
## 9439              0.00          0.00       0.000000000
## 9440              0.30          5.90       0.000000000
## 9441              0.00          0.00       0.008048896
## 9444              0.00          0.00       0.008048896
## 9445              0.40         40.10       0.000000000
## 9446              0.00          0.00       0.008048896
## 9447              0.00          0.00       0.000000000
## 9448              2.51         19.10       0.310000000
## 9449              0.22          5.70       0.000000000
## 9450              0.03          0.00       0.008048896
## 9451              0.00          0.00       0.000000000
## 9453              0.00          0.00       0.008048896
## 9454              1.83          7.30       0.008048896
## 9455              0.00          0.00       0.000000000
## 9456              0.25          5.10       0.008048896
## 9457              0.00          0.00       0.000000000
## 9458              0.41          6.30       0.008048896
## 9459              0.00          0.00       0.000000000
## 9460              0.00          0.00       0.000000000
## 9461              0.21          4.20       0.000000000
## 9463              0.40          9.90       0.008048896
## 9464              3.86          0.40       0.000000000
## 9465              0.00          0.00       0.000000000
## 9466              0.00          0.00       0.000000000
## 9467              4.38          9.27       0.008048896
## 9468              0.00          0.00       0.008048896
## 9469              1.11         10.00       0.008048896
## 9470              0.00          0.00       0.008048896
## 9472              0.00          0.00       0.000000000
## 9473              3.12          8.90       0.000000000
## 9475              0.38          4.80       0.008048896
## 9477              0.34          4.60       0.100000000
## 9478              0.00          0.00       0.000000000
## 9479              0.00          0.00       0.008048896
## 9482              0.46          9.80       0.008048896
## 9484              0.00          0.00       0.000000000
## 9486              0.00          0.00       0.000000000
## 9487              3.98          9.90       0.000000000
## 9488              0.00          0.00       0.008048896
## 9489              1.15          5.70       0.008048896
## 9490              0.00          0.00       0.000000000
## 9491              0.24          5.50       0.008048896
## 9493              1.55          6.60       0.008048896
## 9494              0.00          0.00       0.008048896
## 9495              0.00          0.00       0.008048896
## 9496              2.17          8.30       0.008048896
## 9497              0.00          0.00       0.000000000
## 9499              0.34          5.30       0.000000000
## 9501              1.92         32.10       0.400000000
## 9502              1.94          7.30       0.000000000
## 9504              0.21          5.60       0.008048896
## 9505              0.00          0.00       0.008048896
## 9507              0.00          0.00       0.008048896
```

```
## 9508                0.00            0.00          0.008048896
## 9510                0.86            8.10          0.008048896
## 9513                0.00            0.00          0.000000000
## 9515                0.00            0.00          0.000000000
## 9516                0.00            0.00          0.008048896
## 9517                0.00            0.00          0.008048896
## 9519                0.52           10.50          0.025000000
## 9520                0.00            0.00          0.000000000
## 9521                3.08            9.40          0.000000000
## 9522                0.27            5.10          0.070000000
## 9524                0.26            5.60          0.008048896
## 9526                0.00            0.00          0.000000000
## 9527                0.00            0.00          0.008048896
## 9528                0.00            0.00          0.000000000
## 9530                0.00            0.00          0.000000000
## 9532                0.00            0.00          0.000000000
## 9533                0.00            0.00          0.008048896
## 9534                0.27            5.90          0.000000000
## 9535                0.00            0.00          0.008048896
## 9536                0.00            0.00          0.008048896
## 9537                0.00            0.00          0.000000000
## 9539                0.25            4.80          0.000000000
## 9542                0.00            0.00          0.000000000
## 9544                0.00            0.00          0.000000000
## 9545                0.00            0.00          0.008048896
## 9546                0.00            0.00          0.000000000
## 9547                0.22            0.00          0.008048896
## 9551                0.00            0.00          0.000000000
## 9552                4.21            9.15          0.000000000
## 9553                0.22            4.30          0.000000000
## 9554                0.00            0.00          0.000000000
## 9555                0.00            0.00          0.000000000
## 9556                0.00            0.00          0.008048896
## 9557                0.00            0.00          0.008048896
## 9558                0.00            0.00          0.008048896
## 9559                1.45           11.30          0.200000000
## 9560                0.00            0.00          0.000000000
## 9562                0.00            0.00          0.000000000
## 9563                0.34            7.50          0.008048896
## 9564                0.00            0.00          0.000000000
## 9565                2.66            8.00          0.000000000
## 9566                0.00            0.00          0.008048896
## 9567                0.00            0.00          0.008048896
## 9568                0.00            0.00          0.000000000
## 9569                0.00            0.00          0.008048896
## 9570                0.00            0.00          0.000000000
## 9571                0.29            5.40          0.008048896
## 9572                0.89           31.70          0.008048896
## 9573                0.49            0.00          0.000000000
## 9574                1.98           18.50          0.008048896
## 9575                0.00            0.00          0.000000000
## 9576                2.12           17.00          0.000000000
## 9577                0.00            0.00          0.008048896
## 9578                0.62            9.90          0.008048896
```

```
## 9579            0.00            0.00        0.000000000
## 9580            0.23            4.70        0.095000000
## 9581            0.00            0.00        0.000000000
## 9582            0.00            0.00        0.000000000
## 9583            0.23            4.40        0.000000000
## 9584            0.00            0.00        0.000000000
## 9585            0.38            5.70        0.008048896
## 9586            0.01            0.00        0.008048896
## 9587            0.00            0.00        0.008048896
## 9588            0.00            0.00        0.000000000
## 9590            1.98           10.20        0.008048896
## 9591            0.00            0.00        0.008048896
## 9592            0.00            0.00        0.000000000
## 9594            0.00            0.00        0.000000000
## 9595            0.00            0.00        0.000000000
## 9596            0.35            5.30        0.000000000
## 9597            0.74           19.00        0.000000000
## 9598            0.00            0.00        0.008048896
## 9600            0.00            0.00        0.000000000
## 9601            0.00            0.00        0.000000000
## 9602            0.00            0.00        0.008048896
## 9603            0.00            0.00        0.008048896
## 9604            1.04           13.20        0.008048896
## 9605            0.00            0.00        0.000000000
## 9606            0.00            0.00        0.000000000
## 9607            0.00            0.00        0.000000000
## 9608            0.00            0.00        0.008048896
## 9609            0.00            0.00        0.000000000
## 9610            0.02            0.00        0.008048896
## 9611            0.74            7.70        0.008048896
## 9612            2.62            8.50        0.008048896
## 9613            0.31            5.80        0.008048896
## 9615            2.69            8.70        0.000000000
## 9616            2.62            7.90        0.008048896
## 9617            0.00            0.00        0.008048896
## 9618            0.67            8.90        0.008048896
## 9619            0.79           12.80        0.008048896
## 9621            0.00            0.00        0.000000000
## 9623            0.00            0.00        0.008048896
## 9624            1.55            9.00        0.008048896
## 9625            1.20           20.20        0.000000000
## 9627            0.39           10.50        0.008048896
## 9628            0.77           11.77        0.008048896
## 9629            0.00            0.00        0.000000000
## 9630            0.00            0.00        0.000000000
## 9631            0.00            0.00        0.008048896
## 9632            0.66           16.10        0.200000000
## 9633            0.50            0.00        0.008048896
## 9634            1.24           12.80        0.008048896
## 9636            0.00            0.00        0.000000000
## 9637            0.30            5.50        0.000000000
## 9638            0.20            4.40        0.000000000
## 9639            0.00            0.00        0.000000000
## 9640            0.66            7.90        0.008048896
```

```
## 9642                    0.00           0.00        0.000000000
## 9644                    0.34           5.90        0.000000000
## 9645                    1.06          10.80        0.008048896
## 9646                    0.00           0.00        0.008048896
## 9647                    0.00           0.00        0.008048896
## 9649                    0.00           0.00        0.000000000
## 9651                    0.22           4.90        0.000000000
## 9653                    0.00           0.00        0.000000000
## 9654                    0.00           0.00        0.000000000
## 9655                    0.00           0.00        0.000000000
## 9656                    0.95          10.21        0.000000000
## 9657                    0.71           9.90        0.008048896
## 9661                    0.00           0.00        0.000000000
## 9662                    0.00           0.00        0.008048896
## 9663                    1.91          16.00        0.000000000
## 9664                    0.00           0.00        0.000000000
## 9665                    0.00           0.00        0.008048896
## 9667                    0.00           0.00        0.000000000
## 9668                    0.00           0.00        0.000000000
## 9669                    0.33           5.70        0.000000000
## 9670                    0.00           0.00        0.008048896
## 9671                    0.00           0.00        0.000000000
## 9672                    0.00           0.00        0.000000000
## 9673                    0.00           0.00        0.008048896
## 9674                    0.00           0.00        0.000000000
## 9675                    0.00           0.00        0.008048896
## 9676                    0.25           4.80        0.000000000
## 9677                    0.00           0.00        0.000000000
## 9681                    0.36           5.40        0.000000000
## 9682                    0.00           0.00        0.000000000
## 9683                    2.59           7.60        0.129000000
## 9684                    0.80          15.00        0.000000000
## 9685                    3.15           8.78        0.000000000
## 9687                    0.00           0.00        0.008048896
## 9689                    0.00           0.00        0.008048896
## 9691                    0.00           0.00        0.000000000
## 9692                    0.00           0.00        0.000000000
## 9694                    0.00           0.00        0.000000000
## 9697                    0.00           0.00        0.000000000
## 9698                    0.30           5.70        0.100000000
## 9699                    0.00           0.00        0.000000000
## 9702                    0.00           0.00        0.000000000
## 9703                    0.00           0.00        0.008048896
## 9704                    0.00           0.00        0.000000000
## 9707                    0.29           0.00        0.008048896
## 9708                    0.23           4.70        0.008048896
## 9710                    0.00           0.00        0.000000000
## 9711                    2.23           9.50        0.000000000
## 9712                    0.00           0.00        0.008048896
## 9713                    0.00           0.00        0.000000000
## 9714                    1.19          10.80        0.008048896
## 9715                    0.00           0.00        0.000000000
## 9716                    0.58          19.10        0.000000000
## 9717                    2.58          10.10        0.008048896
```

```
## 9718          0.00          0.00          0.008048896
## 9719          0.80         23.20          0.000000000
## 9720          0.31          4.30          0.008048896
## 9721          2.95          8.20          0.008048896
## 9722          0.00          0.00          0.000000000
## 9723          0.00          0.00          0.008048896
## 9724          0.00          0.00          0.000000000
## 9726          0.00          0.00          0.008048896
## 9728          0.00          0.00          0.008048896
## 9730          1.06         10.60          0.008048896
## 9731          0.33          5.00          0.000000000
## 9732          0.94         16.50          0.000000000
## 9734          0.34          5.40          0.000000000
## 9735          0.00          0.00          0.008048896
## 9736          0.00          0.00          0.008048896
## 9737          0.00          0.00          0.000000000
## 9738          0.00          0.00          0.008048896
## 9739          0.00          0.00          0.000000000
## 9740          0.00          0.00          0.008048896
## 9743          0.00          0.00          0.000000000
## 9745          0.00          0.00          0.008048896
## 9746          0.89          6.90          0.090000000
## 9747          0.00          0.00          0.000000000
## 9749          0.00          0.00          0.000000000
## 9751          0.00          0.00          0.000000000
## 9752          1.35          9.00          0.008048896
## 9754          0.76         13.15          0.008048896
## 9755          0.00          0.00          0.008048896
## 9756          1.26         12.40          0.000000000
## 9757          0.00          0.00          0.008048896
## 9760          0.24          5.40          0.008048896
## 9761          0.00          0.00          0.008048896
## 9762          0.00          0.00          0.000000000
## 9763          0.00          0.00          0.008048896
## 9764          0.00          0.00          0.000000000
## 9768          0.26          0.00          0.100000000
## 9769          0.00          0.00          0.000000000
## 9771          0.00          0.00          0.008048896
## 9774          4.29         20.30          0.008048896
## 9775          0.00          0.00          0.008048896
## 9779          0.29          5.50          0.008048896
## 9780          0.00          0.00          0.000000000
## 9781          0.00          0.00          0.000000000
## 9783          3.91         11.70          0.008048896
## 9785          0.00          0.00          0.008048896
## 9786          1.01          9.00          0.008048896
## 9787          2.94          8.00          0.000000000
## 9788          1.95          0.00          0.008048896
## 9789          0.00          0.00          0.008048896
## 9790          0.98         10.60          0.008048896
## 9791          0.20          4.50          0.000000000
## 9792          0.00          0.00          0.000000000
## 9795          0.00          0.00          0.008048896
## 9796          0.00          0.00          0.000000000
```

```
## 9797             0.94            7.70        0.008048896
## 9798             0.00            0.00        0.000000000
## 9799             0.00            0.00        0.008048896
## 9800             0.00            0.00        0.000000000
## 9801             0.00            0.00        0.000000000
## 9802             0.00            0.00        0.000000000
## 9804             0.00            0.00        0.000000000
## 9805             0.83           12.98        0.008048896
## 9806             0.50            0.00        0.008048896
## 9807             0.00            0.00        0.000000000
## 9808             0.00            0.00        0.000000000
## 9809             0.00            0.00        0.000000000
## 9810             0.00            0.00        0.008048896
## 9811             0.00            0.00        0.000000000
## 9812             0.80            6.30        0.008048896
## 9813             6.07            0.40        0.008048896
## 9814             0.00            0.00        0.000000000
## 9815             1.38           24.30        0.000000000
## 9818             1.18            6.30        0.000000000
## 9819             0.20            4.50        0.000000000
## 9821             0.87           11.38        0.008048896
## 9822             0.00            0.00        0.000000000
## 9823             0.00            0.00        0.008048896
## 9824             0.00            0.00        0.000000000
## 9825             1.19           12.40        0.008048896
## 9826             1.04            9.50        0.008048896
## 9827             4.21            9.30        0.000000000
## 9829             0.00            0.00        0.008048896
## 9830             0.30            5.40        0.008048896
## 9831             0.00            0.00        0.008048896
## 9832             0.00            0.00        0.000000000
## 9833             0.00            0.00        0.008048896
## 9834             0.00            0.00        0.008048896
## 9836             0.00            0.00        0.000000000
## 9837             0.01            0.00        0.008048896
## 9838             0.00            0.00        0.000000000
## 9839             0.00            0.00        0.008048896
## 9840             0.00            0.00        0.008048896
## 9841             0.00            0.00        0.008048896
## 9843             0.00            0.00        0.000000000
## 9844             0.00            0.00        0.000000000
## 9845             0.30            5.70        0.000000000
## 9846             0.00            0.00        0.000000000
## 9848             1.52           11.50        0.008048896
## 9849             3.23            8.50        0.008048896
## 9850             0.10            0.00        0.008048896
## 9851             0.00            0.00        0.000000000
## 9852             0.00            0.00        0.000000000
## 9853             2.74            8.80        0.000000000
## 9854             4.17            0.40        0.000000000
## 9855             0.00            0.00        0.000000000
## 9856             0.00            0.00        0.008048896
## 9857             0.21            0.00        0.008048896
## 9860             0.00            0.00        0.000000000
```

```
## 9861          0.21           4.80          0.080000000
## 9863          0.00           0.00          0.008048896
## 9864          3.67           8.70          0.000000000
## 9867          0.00           0.00          0.008048896
## 9869          0.00           0.00          0.008048896
## 9870          0.00           0.00          0.008048896
## 9872          0.00           0.00          0.000000000
## 9874          1.74          41.10          0.260000000
## 9875          0.00           0.00          0.000000000
## 9876          0.00           0.00          0.000000000
## 9878          0.00           0.00          0.008048896
## 9879          0.24           4.50          0.000000000
## 9880          0.00           0.00          0.000000000
## 9881          0.00           0.00          0.000000000
## 9882          0.00           0.00          0.000000000
## 9884          0.00           0.00          0.008048896
## 9885          0.00           0.00          0.000000000
## 9887          0.00           0.00          0.008048896
## 9889          0.01           0.00          0.008048896
## 9890          0.00           0.00          0.000000000
## 9892          1.78          12.80          0.008048896
## 9893          0.00           0.00          0.000000000
## 9894          0.36           6.00          0.008048896
## 9895          0.50           8.20          0.008048896
## 9896          0.01           0.00          0.008048896
## 9897          0.00           0.00          0.008048896
## 9898          0.10           0.00          0.008048896
## 9899          0.00           0.00          0.008048896
## 9900          0.00           0.00          0.000000000
## 9901          0.00           0.00          0.000000000
## 9902          0.00           0.00          0.008048896
## 9903          0.00           0.00          0.008048896
## 9904          0.00           0.00          0.000000000
## 9905          0.00           0.00          0.008048896
## 9906          0.50           0.00          0.008048896
## 9907          0.00           0.00          0.000000000
## 9908          0.19           4.20          0.000000000
## 9910          0.00           0.00          0.008048896
## 9911          0.00           0.00          0.000000000
## 9912          3.83          10.78          0.008048896
## 9913          0.00           0.00          0.000000000
## 9915          0.30           0.00          0.008048896
## 9916          0.00           0.00          0.000000000
## 9917          0.00           0.00          0.000000000
## 9918          0.00           0.00          0.000000000
## 9919          0.00           0.00          0.000000000
## 9922          1.59           8.40          0.000000000
## 9923          0.00           0.00          0.008048896
## 9924          0.00           0.00          0.000000000
## 9925          0.21           4.55          0.000000000
## 9927          0.00           0.00          0.008048896
## 9928          2.88           9.40          0.008048896
## 9930          0.34           4.90          0.000000000
## 9931          0.33           5.20          0.084000000
```

```
## 9932              0.00            0.00        0.000000000
## 9933              0.85           13.70        0.008048896
## 9934              0.00            0.00        0.000000000
## 9935              0.00            0.00        0.008048896
## 9936              0.32            5.40        0.000000000
## 9937              0.00            0.00        0.008048896
## 9938              0.33            4.30        0.008048896
## 9939              1.07           10.20        0.000000000
## 9940              0.00            0.00        0.008048896
## 9942              0.00            0.00        0.000000000
## 9943              0.00            0.00        0.008048896
## 9944              2.50           12.10        0.008048896
## 9946              0.00            0.00        0.008048896
## 9947              2.94            8.60        0.008048896
## 9948              0.19            4.20        0.000000000
## 9949              1.13            7.20        0.008048896
## 9950              0.70           13.97        0.008048896
## 9951              0.40           60.70        0.000000000
## 9952              0.24            4.30        0.008048896
## 9953              0.00            0.00        0.008048896
## 9954              0.00            0.00        0.000000000
## 9955              2.88            9.70        0.008048896
## 9956              0.00            0.00        0.000000000
## 9957              0.19            4.20        0.000000000
## 9958              0.00            0.00        0.008048896
## 9959              0.54           27.60        0.008048896
## 9960              0.14            0.00        0.008048896
## 9961              1.17           17.80        0.008048896
## 9962              0.29            5.30        0.000000000
## 9963              0.30            5.60        0.000000000
## 9964              0.00            0.00        0.000000000
## 9965              1.21            7.90        0.008048896
## 9968              0.00            0.00        0.008048896
## 9969              0.00            0.00        0.000000000
## 9970              0.00            0.00        0.000000000
## 9972              1.89           10.00        0.008048896
## 9974              2.74            9.60        0.008048896
## 9976              1.29           23.20        0.300000000
## 9977              0.00            0.00        0.008048896
## 9978              0.78           12.65        0.000000000
## 9979              1.05           10.40        0.008048896
## 9980              3.44            9.80        0.008048896
## 9981              0.30            5.50        0.008048896
## 9982              3.17            8.80        0.008048896
## 9984              0.29            6.10        0.000000000
## 9985              3.05           17.00        0.008048896
## 9986              0.00            0.00        0.000000000
## 9987              1.08           12.50        0.008048896
## 9989              3.52            7.10        0.000000000
## 9990              0.00            0.00        0.008048896
## 9991              0.72            8.20        0.008048896
## 9993              0.00            0.00        0.000000000
## 9994              1.17           11.90        0.008048896
## 9995              0.00            0.00        0.008048896
```

```
## 9996       0.00       0.00       0.008048896
## 9997       0.00       0.00       0.000000000
## 9998       0.62       7.80       0.000000000
## 9999       0.00       0.00       0.008048896
## 10000      0.50       0.00       0.008048896
## 10001      0.00       0.00       0.000000000
## 10002      1.19       10.20      0.008048896
## 10003      1.34       6.30       0.008048896
## 10004      2.81       8.80       0.000000000
## 10005      0.00       0.00       0.000000000
## 10006      0.67       8.10       0.100000000
## 10007      0.00       0.00       0.000000000
## 10008      1.95       8.53       0.008048896
## 10009      0.00       0.00       0.008048896
## 10010      0.60       10.90      0.000000000
## 10012      0.00       0.00       0.008048896
## 10015      0.00       0.00       0.000000000
## 10016      0.87       9.60       0.008048896
## 10018      1.45       8.80       0.008048896
## 10019      0.00       0.00       0.000000000
## 10020      0.00       0.00       0.000000000
## 10021      1.03       6.60       0.008048896
## 10022      0.00       0.00       0.000000000
## 10023      0.90       12.70      0.000000000
## 10025      2.92       8.00       0.000000000
## 10027      0.91       12.60      0.000000000
## 10028      0.00       0.00       0.000000000
## 10029      0.00       0.00       0.000000000
## 10030      0.00       0.00       0.008048896
## 10031      1.85       8.40       0.008048896
## 10032      1.30       6.40       0.000000000
## 10033      0.00       0.00       0.000000000
## 10036      0.00       0.00       0.000000000
## 10039      0.00       0.00       0.008048896
## 10040      0.07       0.00       0.008048896
## 10041      0.00       0.00       0.008048896
## 10042      2.41       7.50       0.000000000
## 10043      0.00       0.00       0.000000000
## 10044      0.17       0.00       0.008048896
## 10045      0.00       0.00       0.008048896
## 10046      0.00       0.00       0.008048896
## 10047      0.00       0.00       0.000000000
## 10049      1.60       0.00       0.008048896
## 10050      0.00       0.00       0.000000000
## 10051      0.00       0.00       0.000000000
## 10052      0.00       0.00       0.008048896
## 10053      0.00       0.00       0.008048896
## 10056      0.08       0.00       0.008048896
## 10057      0.00       0.00       0.000000000
## 10059      0.00       0.00       0.008048896
## 10060      0.00       0.00       0.008048896
## 10061      0.00       0.00       0.000000000
## 10064      0.00       0.00       0.000000000
## 10065      2.50       8.10       0.008048896
```

```
## 10066            0.00           0.00        0.000000000
## 10067            0.63          13.00        0.000000000
## 10068            0.00           0.00        0.000000000
## 10070            0.00           0.00        0.000000000
## 10071            0.50           0.00        0.008048896
## 10072            0.22           5.50        0.000000000
## 10073            0.00           0.00        0.000000000
## 10074            0.50           0.00        0.008048896
## 10075            1.85          34.40        0.000000000
## 10076            0.00           0.00        0.000000000
## 10077            0.00           0.00        0.008048896
## 10079            0.97           8.50        0.008048896
## 10080            0.00           0.00        0.000000000
## 10082            2.85          10.00        0.000000000
## 10083            1.12           6.60        0.008048896
## 10084            0.00           0.00        0.000000000
## 10085            0.00           0.00        0.000000000
## 10087            0.47           6.10        0.008048896
## 10088            0.63          10.90        0.100000000
## 10089            0.00           0.00        0.000000000
## 10090            0.00           0.00        0.000000000
## 10091            0.00           0.00        0.008048896
## 10092            0.00           0.00        0.000000000
## 10093            0.00           0.00        0.008048896
## 10094            0.00           0.00        0.008048896
## 10095            1.01          12.90        0.008048896
## 10096            0.00           0.00        0.000000000
## 10097            0.00           0.00        0.008048896
## 10098            1.17          11.00        0.008048896
## 10100            0.00           0.00        0.008048896
## 10101            0.00           0.00        0.000000000
## 10102            0.22           5.00        0.000000000
## 10103            1.49           0.00        0.008048896
## 10105            0.21           4.00        0.008048896
## 10107            2.33           7.50        0.145000000
## 10108            0.00           0.00        0.000000000
## 10109            0.00           0.00        0.008048896
## 10111            1.99           8.89        0.000000000
## 10112            0.00           0.00        0.008048896
## 10113            0.87          12.92        0.000000000
## 10114            0.00           0.00        0.000000000
## 10115            0.00           0.00        0.008048896
## 10118            0.00           0.00        0.000000000
## 10120            0.00           0.00        0.000000000
## 10121            0.00           0.00        0.000000000
## 10122            0.42           6.50        0.008048896
## 10123            0.00           0.00        0.000000000
## 10124            0.20           4.50        0.008048896
## 10125            0.00           0.00        0.008048896
## 10126            0.00           0.00        0.000000000
## 10127            0.00           0.00        0.008048896
## 10128            0.00           0.00        0.000000000
## 10130            3.40           8.30        0.008048896
## 10131            2.64           7.10        0.008048896
```

```
## 10133                0.00            0.00        0.000000000
## 10134                0.00            0.00        0.000000000
## 10135                1.09           11.70        0.008048896
## 10136                0.00            0.00        0.000000000
## 10137                0.00            0.00        0.000000000
## 10138                0.00            0.00        0.000000000
## 10140                0.00            0.00        0.000000000
## 10141                0.13            0.00        0.008048896
## 10142                1.75            7.10        0.000000000
## 10143                0.00            0.00        0.000000000
## 10144                1.22            9.50        0.000000000
## 10145                0.22            4.90        0.000000000
## 10147                0.00            0.00        0.008048896
## 10150                0.00            0.00        0.008048896
## 10151                0.00            0.00        0.008048896
## 10152                0.00            0.00        0.008048896
## 10153                3.96           22.00        0.000000000
## 10154                3.03            8.20        0.000000000
## 10155                0.00            0.00        0.000000000
## 10156                0.00            0.00        0.008048896
## 10157                0.00            0.00        0.000000000
## 10158                0.00            0.00        0.008048896
## 10159                0.00            0.00        0.008048896
## 10160                0.06            0.00        0.008048896
## 10161                0.00            0.00        0.000000000
## 10162                0.00            0.00        0.008048896
## 10163                0.31            5.80        0.008048896
## 10164                0.00            0.00        0.000000000
## 10165                0.00            0.00        0.008048896
## 10166                0.00            0.00        0.000000000
## 10167                0.00            0.00        0.000000000
## 10168                0.00            0.00        0.000000000
## 10169                0.00            0.00        0.000000000
## 10170                0.00            0.00        0.000000000
## 10171                0.00            0.00        0.008048896
## 10173                0.00            0.00        0.000000000
## 10174                0.00            0.00        0.008048896
## 10175                0.00            0.00        0.008048896
## 10176                0.00            0.00        0.008048896
## 10177                2.42           16.60        0.008048896
## 10178                0.22            5.60        0.000000000
## 10181                0.00            0.00        0.000000000
## 10182                1.86            7.50        0.008048896
## 10184                0.00            0.00        0.000000000
## 10185                0.46            8.50        0.000000000
## 10186                2.83            9.00        0.000000000
## 10187                0.81            7.70        0.045000000
## 10189                1.84           35.30        0.008048896
## 10190                0.29            5.40        0.008048896
## 10192                2.73            8.00        0.008048896
## 10193                0.48            0.00        0.008048896
## 10194                1.40           10.50        0.008048896
## 10195                0.00            0.00        0.008048896
## 10196                0.00            0.00        0.008048896
```

```
## 10197             0.00             0.00        0.008048896
## 10198             0.36             4.90        0.008048896
## 10199             0.00             0.00        0.008048896
## 10201             0.00             0.00        0.008048896
## 10202             0.27             4.60        0.000000000
## 10203             0.00             0.00        0.000000000
## 10204             0.79            15.10        0.008048896
## 10205             0.80             8.50        0.008048896
## 10206             3.09             9.20        0.000000000
## 10207             0.00             0.00        0.008048896
## 10208             0.87             6.00        0.008048896
## 10209             0.00             0.00        0.000000000
## 10210             0.00             0.00        0.008048896
## 10211             0.00             0.00        0.008048896
## 10212             0.00             0.00        0.008048896
## 10213             0.00             0.00        0.008048896
## 10214             0.00             0.00        0.000000000
## 10215             0.00             0.00        0.000000000
## 10216             0.50            10.60        0.008048896
## 10218             0.11            33.90        0.008048896
## 10219             0.00             0.00        0.000000000
## 10221             0.00             0.00        0.000000000
## 10222             0.28             6.20        0.000000000
## 10223             0.00             0.00        0.000000000
## 10224             0.00             0.00        0.008048896
## 10225             1.94            12.20        0.008048896
## 10226             0.00             0.00        0.008048896
## 10227             0.00             0.00        0.000000000
## 10228             0.27             5.50        0.008048896
## 10229             0.00             0.00        0.000000000
## 10230             0.00             0.00        0.000000000
## 10233             0.87            12.57        0.000000000
## 10234             0.00             0.00        0.000000000
## 10235             1.33            10.20        0.008048896
## 10236             0.00             0.00        0.008048896
## 10237             0.00             0.00        0.000000000
## 10238             0.00             0.00        0.000000000
## 10239             0.00             0.00        0.000000000
## 10240             0.22             4.30        0.008048896
## 10241             0.00             0.00        0.000000000
## 10242             0.23             5.50        0.008048896
## 10244             2.64             9.80        0.000000000
## 10245             0.21             4.60        0.008048896
## 10246             0.50             0.00        0.008048896
## 10247             0.93            10.60        0.008048896
## 10248             0.00             0.00        0.008048896
## 10250             0.90            11.50        0.008048896
## 10251             0.00             0.00        0.000000000
## 10254             0.50             0.00        0.008048896
## 10256             0.00             0.00        0.000000000
## 10257             0.00             0.00        0.000000000
## 10258             0.00             0.00        0.000000000
## 10259             2.11            19.90        0.008048896
## 10260             0.19             0.00        0.008048896
```

```
## 10261              0.00         0.00       0.000000000
## 10262              0.00         0.00       0.000000000
## 10263              0.00         0.00       0.008048896
## 10264              0.00         0.00       0.000000000
## 10265              0.93        12.90       0.100000000
## 10268              0.00         0.00       0.000000000
## 10269              0.00         0.00       0.008048896
## 10270              0.00         0.00       0.000000000
## 10271              0.00         0.00       0.000000000
## 10273              0.00         0.00       0.008048896
## 10274              0.20         4.80       0.000000000
## 10276              0.21         4.50       0.008048896
## 10279              0.00         0.00       0.000000000
## 10280              0.00         0.00       0.000000000
## 10281              1.43         8.30       0.000000000
## 10282              0.00         0.00       0.000000000
## 10283              0.00         0.00       0.000000000
## 10284              1.56         9.20       0.008048896
## 10285              0.46         9.40       0.000000000
## 10286              0.00         0.00       0.000000000
## 10288              0.20         4.60       0.008048896
## 10289              0.88         0.00       0.008048896
## 10291              0.00         0.00       0.000000000
## 10293              2.46         9.30       0.008048896
## 10294              3.75         0.10       0.008048896
## 10296              2.96         8.30       0.008048896
## 10298              0.00         0.00       0.000000000
## 10299              0.00         0.00       0.008048896
## 10300              0.76        10.10       0.008048896
## 10302              0.00         0.00       0.000000000
## 10303              0.00         0.00       0.000000000
## 10304              0.00         0.00       0.000000000
## 10305              0.00         0.00       0.000000000
## 10308              0.00         0.00       0.008048896
## 10309              0.00         0.00       0.008048896
## 10310              0.92        13.30       0.000000000
## 10311              0.20         6.60       0.008048896
## 10312              0.50         0.00       0.008048896
## 10313              0.34         0.00       0.008048896
## 10314              0.00         0.00       0.008048896
## 10315              0.00         0.00       0.008048896
## 10316              2.71         9.50       0.008048896
## 10317              0.26         5.20       0.008048896
## 10318              0.28         5.40       0.008048896
## 10319              0.00         0.00       0.008048896
## 10320              0.00         0.00       0.008048896
## 10322              0.19         0.00       0.008048896
## 10323              0.00         0.00       0.008048896
## 10324              1.93         7.20       0.008048896
## 10325              0.00         0.00       0.000000000
## 10326              0.00         0.00       0.000000000
## 10327              0.00         0.00       0.008048896
## 10328              0.00         0.00       0.008048896
## 10330              0.00         0.00       0.000000000
```

```
## 10331          0.00          0.00          0.008048896
## 10332          0.31          5.40          0.000000000
## 10333          0.21          4.50          0.000000000
## 10334          0.00          0.00          0.000000000
## 10335          0.40          5.90          0.008048896
## 10337          0.00          0.00          0.008048896
## 10339          0.00          0.00          0.000000000
## 10340          3.39          9.10          0.000000000
## 10341          0.85         10.90          0.000000000
## 10343          0.00          0.00          0.008048896
## 10344          0.00          0.00          0.008048896
## 10345          0.00          0.00          0.008048896
## 10346          0.23          5.92          0.008048896
## 10347          1.51          7.40          0.008048896
## 10348          1.27          9.60          0.008048896
## 10349          1.00          7.00          0.008048896
## 10352          0.00          0.00          0.000000000
## 10353          0.00          0.00          0.000000000
## 10354          0.00          0.00          0.008048896
## 10355          0.00          0.00          0.000000000
## 10356          1.48         13.70          0.008048896
## 10358          0.00          0.00          0.000000000
## 10359          0.00          0.00          0.008048896
## 10360          0.50          0.00          0.008048896
## 10361          0.22          4.80          0.000000000
## 10362          0.00          0.00          0.000000000
## 10363          0.26          5.10          0.000000000
## 10364          1.02          9.70          0.008048896
## 10365          0.00          0.00          0.000000000
## 10366          0.25          4.20          0.000000000
## 10367          3.48         14.10          0.000000000
## 10368          0.00          0.00          0.000000000
## 10370          0.00          0.00          0.008048896
## 10371          0.94         12.00          0.008048896
## 10373          0.00          0.00          0.008048896
## 10375          0.00          0.00          0.000000000
## 10378          0.00          0.00          0.000000000
## 10379          0.25          4.00          0.000000000
## 10382          0.39          4.10          0.008048896
## 10386          0.00          0.00          0.008048896
## 10387          0.24          5.00          0.008048896
## 10388          0.80         11.67          0.000000000
## 10389          0.35          5.60          0.000000000
## 10390          0.00          0.00          0.000000000
## 10392          0.01          0.00          0.008048896
## 10393          0.00          0.00          0.000000000
## 10394          0.25          4.90          0.000000000
## 10395          0.00          0.00          0.000000000
## 10396          0.00          0.00          0.008048896
## 10397          0.73         42.40          0.000000000
## 10398          0.21          5.00          0.000000000
## 10400          0.00          0.00          0.000000000
## 10401          0.00          0.00          0.008048896
## 10402          0.00          0.00          0.000000000
```

```
## 10404          3.99          19.40          0.000000000
## 10405          0.80          13.40          0.008048896
## 10406          0.00           0.00          0.000000000
## 10407          0.00           0.00          0.000000000
## 10408          0.00           0.00          0.000000000
## 10410          1.07           7.30          0.066000000
## 10413          0.46           6.90          0.000000000
## 10416          0.00           0.00          0.000000000
## 10417          0.79          10.20          0.008048896
## 10419          0.00           0.00          0.000000000
## 10420          0.27           5.50          0.008048896
## 10421          1.11           7.80          0.008048896
## 10422          0.62           7.80          0.000000000
## 10423          0.45           6.30          0.000000000
## 10425          0.00           0.00          0.000000000
## 10426          0.25           4.80          0.008048896
## 10427          0.00           0.00          0.008048896
## 10428          0.30           5.60          0.000000000
## 10429          0.00           0.00          0.008048896
## 10430          0.00           0.00          0.000000000
## 10431          0.00           0.00          0.000000000
## 10432          2.62           7.90          0.060000000
## 10433          0.46           6.70          0.008048896
## 10434          0.00           0.00          0.000000000
## 10435          0.85          12.95          0.000000000
## 10436          0.01           0.00          0.008048896
## 10439          0.00           0.00          0.000000000
## 10440          0.00           0.00          0.008048896
## 10441          0.00           0.00          0.000000000
## 10442          0.35           4.70          0.000000000
## 10443          0.00           0.00          0.000000000
## 10445          0.38           5.90          0.008048896
## 10448          0.00           0.00          0.008048896
## 10450          0.58          12.65          0.008048896
## 10451          0.40           5.80          0.008048896
## 10453          0.05           0.00          0.008048896
## 10455          0.00           0.00          0.000000000
## 10457          0.00           0.00          0.008048896
## 10458          0.00           0.00          0.000000000
## 10459          0.00           0.00          0.008048896
## 10463          0.83          12.27          0.000000000
## 10464          0.19           4.40          0.000000000
## 10466          0.00           0.00          0.000000000
## 10467          0.00           0.00          0.000000000
## 10468          0.00           0.00          0.008048896
## 10470          0.00           0.00          0.000000000
## 10471          3.27           9.30          0.008048896
## 10472          0.19           4.40          0.008048896
## 10473          0.80          13.10          0.008048896
## 10474          0.00           0.00          0.000000000
## 10475          0.00           0.00          0.000000000
## 10476          0.00           0.00          0.008048896
## 10477          0.00           0.00          0.000000000
## 10478          0.00           0.00          0.000000000
```

```
## 10482             0.29              4.10           0.000000000
## 10483             0.00              0.00           0.008048896
## 10484             2.83              7.90           0.000000000
## 10485             0.00              0.00           0.000000000
## 10487             0.00              0.00           0.000000000
## 10489             0.00              0.00           0.000000000
## 10490             0.00              0.00           0.000000000
## 10491             0.00              0.00           0.000000000
## 10492             0.00              0.00           0.000000000
## 10493             1.08              2.00           0.008048896
## 10495             0.00              0.00           0.008048896
## 10496             0.00              0.00           0.000000000
## 10497             0.00              0.00           0.000000000
## 10498             0.00              0.00           0.008048896
## 10499             2.57              7.70           0.008048896
## 10500             0.00              0.00           0.008048896
## 10502             2.54              7.55           0.000000000
## 10503             1.01              6.90           0.000000000
## 10504             1.39              9.40           0.008048896
## 10505             0.26              4.90           0.000000000
## 10506             0.00              0.00           0.000000000
## 10507             0.00              0.00           0.000000000
## 10508             0.00              0.00           0.008048896
## 10509             1.90              8.90           0.000000000
## 10510             0.23              4.90           0.070000000
## 10511             0.00              0.00           0.000000000
## 10514             0.00              0.00           0.000000000
## 10515             0.31              4.80           0.008048896
## 10516             3.99             11.50           0.000000000
## 10517             0.00              0.00           0.008048896
## 10518             0.00              0.00           0.000000000
## 10519             2.98              9.20           0.008048896
## 10520             0.00              0.00           0.008048896
## 10521             0.00              0.00           0.008048896
## 10522             0.00              0.00           0.008048896
## 10523             0.00              0.00           0.008048896
## 10526             0.00              0.00           0.000000000
## 10527             2.03             15.90           0.008048896
## 10528             0.00              0.00           0.000000000
## 10530             0.00              0.00           0.008048896
## 10532             0.00              0.00           0.000000000
## 10533             0.00              0.00           0.008048896
## 10534             3.21              8.30           0.008048896
## 10537             0.00              0.00           0.000000000
## 10538             0.00              0.00           0.000000000
## 10539             0.00              0.00           0.008048896
## 10540             4.28              9.20           0.000000000
## 10541             0.00              0.00           0.000000000
## 10542             0.00              0.00           0.008048896
## 10543             0.00              0.00           0.008048896
## 10544             3.27             12.20           0.000000000
## 10545             0.00              0.00           0.008048896
## 10546             1.66             13.60           0.008048896
## 10547             0.00              0.00           0.008048896
```

```
## 10548            2.57            8.80           0.008048896
## 10549            2.35           26.20           0.000000000
## 10551            0.00            0.00           0.000000000
## 10552            3.00            8.80           0.008048896
## 10553            0.00            0.00           0.000000000
## 10555            0.00            0.00           0.008048896
## 10556            0.00            0.00           0.000000000
## 10557            0.73           15.40           0.008048896
## 10558            0.00            0.00           0.000000000
## 10560            0.20            0.00           0.008048896
## 10561            0.22            4.70           0.000000000
## 10562            0.00            0.00           0.008048896
## 10563            0.00            0.00           0.008048896
## 10564            0.00            0.00           0.000000000
## 10565            0.42           42.00           0.000000000
## 10566            0.60            9.20           0.000000000
## 10568            1.48            7.80           0.000000000
## 10569            1.21           13.81           0.008048896
## 10570            0.00            0.00           0.000000000
## 10573            0.00            0.00           0.000000000
## 10574            3.00            7.80           0.008048896
## 10575            0.00            0.00           0.000000000
## 10577            0.00            0.00           0.008048896
## 10579            2.28            7.50           0.000000000
## 10580            0.99            9.70           0.008048896
## 10581            0.00            0.00           0.000000000
## 10582            0.00            0.00           0.008048896
## 10583            1.14            9.30           0.008048896
## 10585            3.74            8.90           0.008048896
## 10586            3.66           14.00           0.000000000
## 10587            0.00            0.00           0.008048896
## 10588            0.27            4.90           0.008048896
## 10589            0.27            5.00           0.000000000
## 10590            0.00            0.00           0.000000000
## 10591            0.00            0.00           0.000000000
## 10594            3.03            8.20           0.000000000
## 10595            0.00            0.00           0.000000000
## 10596            0.00            0.00           0.008048896
## 10600            0.00            0.00           0.000000000
## 10601            1.35           12.20           0.008048896
## 10603            0.00            0.00           0.000000000
## 10604            0.00            0.00           0.000000000
## 10605            0.00            0.00           0.000000000
## 10607            0.22            4.50           0.008048896
## 10610            0.01            0.00           0.008048896
## 10611            0.00            0.00           0.008048896
## 10612            0.05            0.00           0.008048896
## 10613            0.00            0.00           0.008048896
## 10614            0.00            0.00           0.000000000
## 10615            0.00            0.00           0.000000000
## 10616            0.00            0.00           0.008048896
## 10618            0.00            0.00           0.000000000
## 10619            0.21            4.40           0.070000000
## 10620            0.00            0.00           0.000000000
```

```
## 10621              0.00            0.00          0.000000000
## 10622              0.25            5.30          0.000000000
## 10624              0.00            0.00          0.008048896
## 10625              0.00            0.00          0.000000000
## 10630              0.00            0.00          0.008048896
## 10631              0.00            0.00          0.000000000
## 10632              0.21            5.10          0.100000000
## 10633              0.00            0.00          0.008048896
## 10634              3.93           13.40          0.008048896
## 10635              0.00            0.00          0.000000000
## 10637              2.15            7.90          0.155000000
## 10638              0.00            0.00          0.008048896
## 10639              1.00           12.60          0.008048896
## 10641              0.00            0.00          0.000000000
## 10644              0.30            0.00          0.008048896
## 10645              0.00            0.00          0.000000000
## 10646              0.00            0.00          0.000000000
## 10647              0.00            0.00          0.000000000
## 10648              0.00            0.00          0.000000000
## 10649              0.00            0.00          0.000000000
## 10650              0.77           11.65          0.000000000
## 10651              0.50            9.80          0.008048896
## 10652              0.00            0.00          0.000000000
## 10653              0.00            0.00          0.008048896
## 10654              0.00            0.00          0.000000000
## 10655              0.00            0.00          0.000000000
## 10656              0.00            0.00          0.000000000
## 10657              0.00            0.00          0.008048896
## 10659              0.00            0.00          0.008048896
## 10660              0.22            4.70          0.008048896
## 10661              3.17           12.40          0.008048896
## 10662              0.25            4.80          0.000000000
## 10663              0.00            0.00          0.000000000
## 10664              0.00            0.00          0.008048896
## 10665              0.19            5.00          0.000000000
## 10666              0.00            0.00          0.008048896
## 10669              0.35            5.30          0.117000000
## 10670              5.54            0.40          0.000000000
## 10671              2.77            8.10          0.000000000
## 10672              0.00            0.00          0.008048896
## 10673              0.72           12.20          0.008048896
## 10674              0.00            0.00          0.008048896
## 10676              0.00            0.00          0.000000000
## 10677              0.00            0.00          0.008048896
## 10678              0.32            4.70          0.000000000
## 10679              0.46            0.00          0.008048896
## 10680              5.72            0.56          0.008048896
## 10681              0.00            0.00          0.008048896
## 10682              2.83            8.80          0.000000000
## 10683              0.00            0.00          0.000000000
## 10685              0.00            0.00          0.000000000
## 10686              0.00            0.00          0.000000000
## 10687              0.24            4.50          0.008048896
## 10688              0.00            0.00          0.000000000
```

```
## 10689          2.64          7.80          0.008048896
## 10690          0.00          0.00          0.008048896
## 10691          0.00          0.00          0.000000000
## 10692          0.00          0.00          0.008048896
## 10693          0.20          5.10          0.008048896
## 10694          0.00          0.00          0.000000000
## 10696          0.46          9.40          0.008048896
## 10697          2.90          8.30          0.008048896
## 10698          0.00          0.00          0.000000000
## 10700          0.00          0.00          0.000000000
## 10701          0.00          0.00          0.000000000
## 10702          0.00          0.00          0.008048896
## 10704          0.00          0.00          0.008048896
## 10706          0.00          0.00          0.008048896
## 10707          2.34          18.20         0.000000000
## 10709          0.99          8.40          0.008048896
## 10710          2.61          8.50          0.000000000
## 10711          0.00          0.00          0.000000000
## 10712          0.00          0.00          0.000000000
## 10714          0.00          0.00          0.000000000
## 10715          0.00          0.00          0.008048896
## 10716          0.00          0.00          0.000000000
## 10717          0.00          0.00          0.000000000
## 10718          0.00          0.00          0.000000000
## 10719          0.91          12.82         0.008048896
## 10721          4.10          8.62          0.000000000
## 10723          0.00          0.00          0.000000000
## 10724          0.29          5.20          0.000000000
## 10725          0.29          5.60          0.000000000
## 10726          0.00          0.00          0.000000000
## 10727          0.00          0.00          0.000000000
## 10728          0.00          0.00          0.008048896
## 10729          2.87          8.30          0.008048896
## 10730          0.00          0.00          0.008048896
## 10732          0.00          0.00          0.000000000
## 10733          0.00          0.00          0.000000000
## 10734          1.10          12.60         0.008048896
## 10735          0.00          0.00          0.008048896
## 10736          2.50          7.90          0.080000000
## 10737          0.00          0.00          0.008048896
## 10739          0.00          0.00          0.000000000
## 10744          0.00          0.00          0.008048896
## 10745          0.00          0.00          0.000000000
## 10746          0.00          0.00          0.000000000
## 10747          0.00          0.00          0.000000000
## 10748          0.94          9.35          0.000000000
## 10749          0.00          0.00          0.008048896
## 10750          1.92          7.30          0.008048896
## 10751          0.00          0.00          0.000000000
## 10752          1.07          7.00          0.000000000
## 10753          0.05          0.00          0.008048896
## 10754          0.51          5.00          0.070000000
## 10757          0.00          0.00          0.008048896
## 10758          0.00          0.00          0.000000000
```

```
## 10759          0.92          11.68          0.000000000
## 10760          3.50           9.00          0.008048896
## 10761          0.00           0.00          0.000000000
## 10764          0.00           0.00          0.000000000
## 10765          0.28           5.40          0.000000000
## 10767          1.00           0.00          0.008048896
## 10768          0.00           0.00          0.000000000
## 10769          0.00           0.00          0.000000000
## 10770          0.00           0.00          0.000000000
## 10771          0.00           0.00          0.000000000
## 10772          0.00           0.00          0.008048896
## 10773          0.20           4.30          0.008048896
## 10774          0.20           4.60          0.000000000
## 10776          0.24           4.10          0.000000000
## 10777          0.00           0.00          0.008048896
## 10778          0.00           0.00          0.000000000
## 10782          0.18           4.70          0.000000000
## 10783          0.87           0.00          0.000000000
## 10784          0.00           0.00          0.008048896
## 10785          0.00           0.00          0.000000000
## 10786          0.00           0.00          0.000000000
## 10787          2.23          14.30          0.008048896
## 10788          0.00           0.00          0.008048896
## 10790          0.00           0.00          0.008048896
## 10791          0.01           0.00          0.008048896
## 10792          3.13           7.60          0.008048896
## 10793          1.04          11.00          0.008048896
## 10795          0.00           0.00          0.008048896
## 10797          0.00           0.00          0.000000000
## 10798          0.80          12.40          0.008048896
## 10799          0.20           5.10          0.000000000
## 10800          0.84          12.48          0.008048896
## 10801          0.00           0.00          0.000000000
## 10802          0.52          12.00          0.000000000
## 10803          0.00           0.00          0.008048896
## 10804          0.00           0.00          0.000000000
## 10805          0.15           0.00          0.008048896
## 10806          0.00           0.00          0.000000000
## 10807          0.84          12.00          0.008048896
## 10809          0.32           0.00          0.008048896
## 10811          0.84           7.50          0.008048896
## 10813          0.21           4.80          0.008048896
## 10814          0.00           0.00          0.000000000
## 10815          1.05           8.63          0.008048896
## 10816          0.00           0.00          0.000000000
## 10817          0.00           0.00          0.008048896
## 10818          0.23           4.50          0.000000000
## 10819          0.32           5.00          0.072000000
## 10820          0.00           0.00          0.000000000
## 10821          2.96           8.59          0.000000000
## 10823          0.00           0.00          0.000000000
## 10824          0.00           0.00          0.000000000
## 10825          0.00           0.00          0.008048896
## 10826          0.00           0.00          0.000000000
```

```
## 10827              0.00            0.00        0.000000000
## 10828              0.00            0.00        0.000000000
## 10829              0.30            0.00        0.008048896
## 10831              0.26            5.00        0.000000000
## 10833              0.00            0.00        0.008048896
## 10835              0.00            0.00        0.008048896
## 10836              0.00            0.00        0.000000000
## 10837              0.00            0.00        0.008048896
## 10838              0.00            0.00        0.000000000
## 10839              0.00            0.00        0.000000000
## 10840              1.73           11.00        0.008048896
## 10842              0.90            6.80        0.008048896
## 10843              0.00            0.00        0.000000000
## 10844              0.44            7.90        0.008048896
## 10845              0.00            0.00        0.008048896
## 10846              0.00            0.00        0.000000000
## 10847              3.37           13.80        0.008048896
## 10848              0.04            0.00        0.008048896
## 10850              0.30            5.60        0.000000000
## 10851              0.00            0.00        0.008048896
## 10852              0.42            5.80        0.000000000
## 10853              0.72           11.40        0.000000000
## 10854              0.00            0.00        0.008048896
## 10855              0.00            0.00        0.008048896
## 10857              0.19            4.40        0.000000000
## 10858              0.91           12.50        0.008048896
## 10859              0.30            5.70        0.000000000
## 10860              1.47            8.80        0.008048896
## 10861              0.22            4.70        0.008048896
## 10862              0.73           12.20        0.083000000
## 10864              0.00            0.00        0.000000000
## 10865              0.00            0.00        0.008048896
## 10867              3.00            8.30        0.008048896
## 10868              1.79           20.90        0.008048896
## 10869              0.00            0.00        0.000000000
## 10870              0.00            0.00        0.000000000
## 10872              0.00            0.00        0.000000000
## 10875              0.79            8.30        0.090000000
## 10876              0.00            0.00        0.000000000
## 10877              0.00            0.00        0.000000000
## 10878              3.41           13.40        0.008048896
## 10879              0.00            0.00        0.000000000
## 10881              0.00            0.00        0.000000000
## 10884              0.00            0.00        0.008048896
## 10885              0.00            0.00        0.000000000
## 10886              2.91            9.10        0.100000000
## 10887              0.00            0.00        0.008048896
## 10888              1.99           25.20        0.500000000
## 10889              1.04           12.90        0.008048896
## 10890              0.00            0.00        0.008048896
## 10891              1.50            8.10        0.000000000
## 10892              0.86           16.70        0.008048896
## 10893              0.00            0.00        0.000000000
## 10895              0.00            0.00        0.008048896
```

```
## 10896              0.00          0.00        0.000000000
## 10897              0.00          0.00        0.000000000
## 10898              2.72          7.20        0.008048896
## 10899              0.27          0.00        0.008048896
## 10900              0.00          0.00        0.000000000
## 10902              0.00          0.00        0.008048896
## 10904              0.00          0.00        0.000000000
## 10905              0.25          5.50        0.000000000
## 10906              0.00          0.00        0.008048896
## 10907              0.00          0.00        0.000000000
## 10908              0.00          0.00        0.000000000
## 10909              0.00          0.00        0.000000000
## 10910              0.00          0.00        0.008048896
## 10911              0.00          0.00        0.008048896
## 10912              0.00          0.00        0.008048896
## 10913              0.00          0.00        0.000000000
## 10914              2.79          8.20        0.008048896
## 10916              0.18          5.00        0.000000000
## 10917              0.00          0.00        0.000000000
## 10918              2.75          8.96        0.008048896
## 10919              0.00          0.00        0.008048896
## 10920              2.65          9.60        0.000000000
## 10921              0.00          0.00        0.000000000
## 10922              0.83         12.64        0.008048896
## 10925              0.00          0.00        0.000000000
## 10927              0.34          5.20        0.008048896
## 10928              0.00          0.00        0.008048896
## 10929              0.00          0.00        0.000000000
## 10930              0.00          0.00        0.008048896
## 10932              0.00          0.00        0.008048896
## 10933              0.19          4.10        0.000000000
## 10934              0.00          0.00        0.000000000
## 10935              0.00          0.00        0.008048896
## 10936              0.98          0.00        0.008048896
## 10938              0.00          0.00        0.008048896
## 10939              0.00          0.00        0.000000000
## 10940              0.00          0.00        0.000000000
## 10942              0.00          0.00        0.000000000
## 10943              0.64         20.30        0.008048896
## 10944              0.00          0.00        0.000000000
## 10945              0.00          0.00        0.000000000
## 10946              0.00          0.00        0.008048896
## 10947              0.00          0.00        0.000000000
## 10948              0.00          0.00        0.008048896
## 10949              0.00          0.00        0.008048896
## 10950              0.00          0.00        0.000000000
## 10951              0.00          0.00        0.000000000
## 10953              0.00          0.00        0.000000000
## 10954              0.26          4.70        0.008048896
## 10955              0.00          0.00        0.008048896
## 10956              0.00          0.00        0.000000000
## 10957              0.00          0.00        0.000000000
## 10958              0.00          0.00        0.000000000
## 10959              0.00          0.00        0.000000000
```

```
## 10963          0.00       0.00      0.008048896
## 10964          0.00       0.00      0.000000000
## 10965          3.72      27.00      0.070000000
## 10966          0.00       0.00      0.000000000
## 10967          0.00       0.00      0.000000000
## 10968          0.00       0.00      0.008048896
## 10969          0.22       5.80      0.000000000
## 10970          0.72      11.50      0.008048896
## 10971          0.28       6.10      0.008048896
## 10972          0.00       0.00      0.008048896
## 10975          0.30       0.00      0.008048896
## 10976          0.00       0.00      0.000000000
## 10978          2.35      13.30      0.008048896
## 10979          0.00       0.00      0.000000000
## 10980          0.00       0.00      0.000000000
## 10982          0.32       5.00      0.008048896
## 10983          0.22       5.30      0.000000000
## 10984          0.00       0.00      0.008048896
## 10986          0.65       8.70      0.008048896
## 10987          0.22       4.20      0.008048896
## 10988          3.26      11.50      0.008048896
## 10989          0.00       0.00      0.000000000
## 10990          0.00       0.00      0.000000000
## 10993          0.00       0.00      0.008048896
## 10994          0.00       0.00      0.008048896
## 10995          0.00       0.00      0.008048896
## 10996          0.00       0.00      0.000000000
## 10999          0.10       0.00      0.008048896
## 11000          0.35       5.80      0.008048896
## 11001          0.00       0.00      0.000000000
## 11002          0.81      13.50      0.000000000
## 11004          0.00       0.00      0.000000000
## 11006          0.00       0.00      0.000000000
## 11007          0.00       0.00      0.008048896
## 11008          0.00       0.00      0.008048896
## 11009          2.78       7.90      0.000000000
## 11010          0.00       0.00      0.008048896
## 11011          0.00       0.00      0.000000000
## 11012          1.14       7.60      0.000000000
## 11013          0.00       0.00      0.000000000
## 11015          2.96       8.20      0.008048896
## 11017          0.00       0.00      0.000000000
## 11018          0.00       0.00      0.000000000
## 11019          0.00       0.00      0.008048896
## 11020          0.00       0.00      0.000000000
## 11021          0.00       0.00      0.000000000
## 11022          0.96      10.70      0.000000000
## 11024          0.00       0.00      0.000000000
## 11028          0.00       0.00      0.008048896
## 11029          0.00       0.00      0.008048896
## 11030          0.00       0.00      0.000000000
## 11032          0.00       0.00      0.008048896
## 11033          0.00       0.00      0.000000000
## 11034          0.00       0.00      0.000000000
```

```
## 11035            0.32            5.40            0.008048896
## 11036            1.98            8.30            0.000000000
## 11038            0.32            5.30            0.008048896
## 11039            0.00            0.00            0.000000000
## 11040            0.00            0.00            0.000000000
## 11041            0.00            0.00            0.008048896
## 11043            3.20            9.20            0.008048896
## 11045            0.03            0.00            0.008048896
## 11046            0.70           12.66            0.000000000
## 11048            0.00            0.00            0.008048896
## 11050            0.00            0.00            0.008048896
## 11051            1.70            7.90            0.008048896
## 11052            2.95            8.90            0.000000000
## 11053            0.00            0.00            0.008048896
## 11055            0.90           14.70            0.000000000
## 11056            0.00            0.00            0.008048896
## 11057            0.00            0.00            0.000000000
## 11058            0.00            0.00            0.008048896
## 11059            0.00            0.00            0.000000000
## 11060            0.00            0.00            0.000000000
## 11062            0.79           10.90            0.008048896
## 11063            3.28            9.20            0.008048896
## 11064            0.00            0.00            0.008048896
## 11066            0.00            0.00            0.000000000
## 11067            0.39           29.70            0.000000000
## 11068            0.00            0.00            0.000000000
## 11070            0.84           12.00            0.008048896
## 11071            0.00            0.00            0.008048896
## 11072            0.00            0.00            0.000000000
## 11073            0.00            0.00            0.008048896
## 11074            0.00            0.00            0.000000000
## 11076            0.00            0.00            0.008048896
## 11077            0.00            0.00            0.008048896
## 11078            0.27            5.00            0.008048896
## 11079            0.00            0.00            0.008048896
## 11080            0.00            0.00            0.000000000
## 11081            0.00            0.00            0.008048896
## 11083            0.00            0.00            0.008048896
## 11084            0.20            0.00            0.008048896
## 11085            0.00            0.00            0.000000000
## 11087            0.00            0.00            0.000000000
## 11089            0.20            4.50            0.008048896
## 11091            0.90           11.40            0.008048896
## 11092            0.00            0.00            0.008048896
## 11093            0.00            0.00            0.008048896
## 11094            0.00            0.00            0.000000000
## 11095            0.00            0.00            0.000000000
## 11096            0.00            0.00            0.008048896
## 11097            0.00            0.00            0.008048896
## 11098            0.00            0.00            0.000000000
## 11099            0.00            0.00            0.000000000
## 11100            0.96           11.29            0.008048896
## 11101            0.00            0.00            0.008048896
## 11103            1.81            7.00            0.008048896
```

```
## 11104               2.81           7.70         0.140000000
## 11105               0.00           0.00         0.000000000
## 11107               0.41           0.00         0.008048896
## 11108               2.04          52.70         0.000000000
## 11111               0.00           0.00         0.000000000
## 11113               0.00           0.00         0.000000000
## 11114               4.26          10.09         0.000000000
## 11115               0.25           5.10         0.008048896
## 11117               0.00           0.00         0.000000000
## 11119               0.00           0.00         0.000000000
## 11120               0.00           0.00         0.008048896
## 11121               0.00           0.00         0.000000000
## 11122               0.00           0.00         0.000000000
## 11123               0.98          10.60         0.008048896
## 11124               0.00           0.00         0.008048896
## 11125               0.68          11.40         0.008048896
## 11128               0.00           0.00         0.008048896
## 11129               0.00           0.00         0.000000000
## 11130               0.50           0.00         0.008048896
## 11131               1.10           6.50         0.008048896
## 11132               0.00           0.00         0.008048896
## 11133               0.00           0.00         0.000000000
## 11134               1.08           5.70         0.008048896
## 11135               3.00           7.60         0.000000000
## 11136               0.00           0.00         0.008048896
## 11137               2.73           8.70         0.000000000
## 11138               0.71          13.90         0.070000000
## 11140               3.18          12.30         0.000000000
## 11141               0.00           0.00         0.000000000
## 11144               0.00           0.00         0.000000000
## 11145               0.01           0.00         0.008048896
## 11146               0.00           0.00         0.008048896
## 11147               0.80          10.70         0.008048896
## 11148               3.08           9.70         0.000000000
## 11149               0.86          10.30         0.008048896
## 11150               0.00           0.00         0.000000000
## 11151               0.33           5.40         0.008048896
## 11153               2.98           8.70         0.000000000
## 11154               0.00           0.00         0.000000000
## 11155               0.00           0.00         0.000000000
## 11156               0.00           0.00         0.008048896
## 11157               0.00           0.00         0.000000000
## 11158               5.63           0.30         0.000000000
## 11159               0.00           0.00         0.000000000
## 11160               1.52          16.70         0.000000000
## 11161               0.27           5.30         0.100000000
## 11162               0.33           5.10         0.000000000
## 11163               0.00           0.00         0.000000000
## 11166               0.00           0.00         0.000000000
## 11167               0.21           5.03         0.000000000
## 11169               2.58          10.60         0.008048896
## 11171               3.12          10.60         0.000000000
## 11172               0.00           0.00         0.000000000
## 11173               0.00           0.00         0.008048896
```

```
## 11175           0.00           0.00      0.000000000
## 11176           2.95           8.10      0.000000000
## 11177           0.00           0.00      0.008048896
## 11178           0.00           0.00      0.000000000
## 11181           0.00           0.00      0.008048896
## 11182           0.00           0.00      0.000000000
## 11183           0.00           0.00      0.008048896
## 11184           0.72           6.50      0.068000000
## 11185           0.36           5.40      0.008048896
## 11186           0.52           7.60      0.008048896
## 11188           0.00           0.00      0.000000000
## 11189           0.29           4.90      0.008048896
## 11190           0.62           7.80      0.000000000
## 11191           0.00           0.00      0.000000000
## 11192           0.24           4.20      0.008048896
## 11195           0.00           0.00      0.000000000
## 11196           0.99          16.60      0.000000000
## 11197           2.24           9.60      0.008048896
## 11198           0.31           5.90      0.008048896
## 11200           0.48          13.30      0.008048896
## 11201           0.00           0.00      0.000000000
## 11202           3.33           8.40      0.000000000
## 11204           0.26           4.70      0.008048896
## 11206           0.00           0.00      0.008048896
## 11207           1.98          10.20      0.008048896
## 11208           0.00           0.00      0.008048896
## 11211           1.89          13.90      0.008048896
## 11212           0.00           0.00      0.000000000
## 11213           3.62           7.00      0.000000000
## 11214           0.00           0.00      0.008048896
## 11215           0.00           0.00      0.008048896
## 11216           1.09           0.00      0.008048896
## 11217           2.93           8.00      0.000000000
## 11218           0.00           0.00      0.000000000
## 11219           0.00           0.00      0.000000000
## 11220           0.00           0.00      0.000000000
## 11221           0.00           0.00      0.008048896
## 11222           0.00           0.00      0.000000000
## 11223           0.00           0.00      0.008048896
## 11225           0.22           5.30      0.000000000
## 11226           0.00           0.00      0.000000000
## 11227           0.00           0.00      0.000000000
## 11228           0.86           5.40      0.000000000
## 11229           1.46           9.00      0.008048896
## 11230           0.00           0.00      0.000000000
## 11231           1.34           8.30      0.008048896
## 11233           0.00           0.00      0.000000000
## 11235           0.41           5.10      0.008048896
## 11237           0.35           9.80      0.008048896
## 11238           2.51           8.30      0.008048896
## 11239           4.95           0.30      0.008048896
## 11241           0.00           0.00      0.008048896
## 11244           0.00           0.00      0.000000000
## 11245           0.23           4.40      0.000000000
```

```
## 11246            2.95           7.90        0.008048896
## 11247            6.64           0.10        0.000000000
## 11248            0.00           0.00        0.008048896
## 11249            0.24           5.80        0.000000000
## 11250            0.00           0.00        0.000000000
## 11251            1.14          10.10        0.008048896
## 11252            0.89          11.40        0.008048896
## 11253            0.00           0.00        0.008048896
## 11254            0.00           0.00        0.000000000
## 11257            0.00           0.00        0.000000000
## 11259            0.00           0.00        0.008048896
## 11260            0.00           0.00        0.008048896
## 11261            0.84          10.40        0.008048896
## 11262            0.00           0.00        0.008048896
## 11263            0.00           0.00        0.000000000
## 11265            0.00           0.00        0.000000000
## 11267            0.00           0.00        0.008048896
## 11269            0.00           0.00        0.000000000
## 11270            0.00           0.00        0.000000000
## 11271            0.00           0.00        0.008048896
## 11272            0.00           0.00        0.000000000
## 11273            0.00           0.00        0.000000000
## 11274            0.00           0.00        0.008048896
## 11275            0.24           4.20        0.008048896
## 11276            0.00           0.00        0.000000000
## 11278            0.01           0.00        0.008048896
## 11279            0.04           0.00        0.008048896
## 11282            1.73          24.40        0.000000000
## 11283            0.69           0.00        0.008048896
## 11284            0.00           0.00        0.000000000
## 11285            0.00           0.00        0.008048896
## 11286            0.20           4.30        0.008048896
## 11288            0.00           0.00        0.000000000
## 11289            0.00           0.00        0.000000000
## 11290            1.04          16.00        0.000000000
## 11292            1.53           8.30        0.090000000
## 11293            1.10           8.20        0.087000000
## 11295            0.00           0.00        0.000000000
## 11298            0.98          13.13        0.000000000
## 11299            2.62           9.20        0.008048896
## 11300            0.84          10.70        0.070000000
## 11301            0.00           0.00        0.008048896
## 11302            0.00           0.00        0.008048896
## 11304            0.00           0.00        0.000000000
## 11305            1.27           6.10        0.000000000
## 11306            0.00           0.00        0.008048896
## 11307            0.00           0.00        0.008048896
## 11308            0.00           0.00        0.000000000
## 11309            0.00           0.00        0.000000000
## 11310            2.36          10.80        0.000000000
## 11311            0.00           0.00        0.000000000
## 11315            0.00           0.00        0.008048896
## 11316            0.00           0.00        0.000000000
## 11317            0.00           0.00        0.000000000
```

```
## 11319              0.00          0.00        0.000000000
## 11321              0.30          0.00        0.008048896
## 11322              0.00          0.00        0.000000000
## 11324              3.80         10.00        0.008048896
## 11325              0.00          0.00        0.000000000
## 11326              0.00          0.00        0.008048896
## 11327              0.00          0.00        0.008048896
## 11328              0.00          0.00        0.000000000
## 11329              0.00          0.00        0.008048896
## 11331              4.68          9.10        0.008048896
## 11332              2.61          8.20        0.000000000
## 11333              2.54          7.90        0.000000000
## 11336              0.00          0.00        0.000000000
## 11337              0.00          0.00        0.000000000
## 11338              0.00          0.00        0.000000000
## 11339              0.00          0.00        0.008048896
## 11341              0.00          0.00        0.000000000
## 11344              0.84         18.00        0.008048896
## 11346              0.00          0.00        0.008048896
## 11348              0.00          0.00        0.000000000
## 11350              0.33          4.20        0.008048896
## 11352              0.00          0.00        0.000000000
## 11353              0.85         14.40        0.008048896
## 11354              0.00          0.00        0.008048896
## 11356              0.00          0.00        0.008048896
## 11357              1.72          9.10        0.008048896
## 11358              0.00          0.00        0.000000000
## 11359              0.40          8.50        0.008048896
## 11360              0.72          5.70        0.000000000
## 11361              0.00          0.00        0.000000000
## 11362              0.00          0.00        0.000000000
## 11364              3.19          9.20        0.008048896
## 11365              1.13         12.50        0.008048896
## 11366              2.07         14.70        0.008048896
## 11368              0.03          0.00        0.008048896
## 11370              0.00          0.00        0.000000000
## 11371              0.00          0.00        0.008048896
## 11372              0.27          4.90        0.000000000
## 11373              2.30         15.10        0.008048896
## 11375              0.00          0.00        0.000000000
## 11376              1.76          7.41        0.008048896
## 11377              0.00          0.00        0.008048896
## 11378              0.27          4.50        0.008048896
## 11379              0.00          0.00        0.000000000
## 11380              0.34          5.10        0.008048896
## 11381              0.22          5.80        0.008048896
## 11382              0.57          8.50        0.008048896
## 11383              0.34          5.20        0.008048896
## 11384              0.00          0.00        0.000000000
## 11385              0.00          0.00        0.000000000
## 11386              0.00          0.00        0.008048896
## 11388              0.00          0.00        0.008048896
## 11389              0.00          0.00        0.008048896
## 11391              0.00          0.00        0.000000000
```

```
## 11392          0.00          0.00          0.008048896
## 11395          2.82          8.70          0.008048896
## 11396          0.00          0.00          0.000000000
## 11397          0.00          0.00          0.008048896
## 11398          0.00          0.00          0.000000000
## 11399          0.00          0.00          0.000000000
## 11400          0.00          0.00          0.000000000
## 11401          0.00          0.00          0.000000000
## 11402          0.20          4.20          0.000000000
## 11403          0.00          0.00          0.000000000
## 11404          0.00          0.00          0.000000000
## 11407          0.00          0.00          0.000000000
## 11408          0.00          0.00          0.000000000
## 11411          1.02          12.90         0.000000000
## 11413          0.00          0.00          0.000000000
## 11414          0.50          0.00          0.008048896
## 11415          1.67          7.50          0.200000000
## 11416          1.93          9.40          0.000000000
## 11418          4.74          0.20          0.008048896
## 11422          0.00          0.00          0.008048896
## 11423          3.32          20.00         0.008048896
## 11424          0.00          0.00          0.000000000
## 11425          0.00          0.00          0.008048896
## 11426          0.00          0.00          0.008048896
## 11428          0.00          0.00          0.000000000
## 11429          0.95          6.30          0.008048896
## 11430          0.00          0.00          0.000000000
## 11431          0.72          6.60          0.000000000
## 11432          0.00          0.00          0.000000000
## 11434          1.68          12.20         0.008048896
## 11435          0.00          0.00          0.000000000
## 11436          4.31          9.40          0.008048896
## 11437          0.00          0.00          0.000000000
## 11438          0.00          0.00          0.008048896
## 11439          0.00          0.00          0.008048896
## 11441          0.00          0.00          0.008048896
## 11442          2.78          9.10          0.008048896
## 11443          0.31          6.70          0.008048896
## 11444          0.00          0.00          0.000000000
## 11447          0.00          0.00          0.000000000
## 11448          2.40          27.40         0.008048896
## 11449          0.00          0.00          0.000000000
## 11450          0.00          0.00          0.000000000
## 11451          0.00          0.00          0.008048896
## 11452          3.20          8.30          0.100000000
## 11453          2.93          19.90         0.000000000
## 11454          0.00          0.00          0.000000000
## 11455          0.36          4.40          0.008048896
## 11461          3.54          21.30         0.008048896
## 11462          0.23          4.70          0.008048896
## 11463          0.00          0.00          0.008048896
## 11464          0.00          0.00          0.000000000
## 11465          2.82          8.30          0.008048896
## 11466          0.86          9.00          0.008048896
```

```
## 11467          0.45          6.50          0.137000000
## 11468          0.00          0.00          0.008048896
## 11469          0.22          4.30          0.008048896
## 11471          0.00          0.00          0.008048896
## 11472          0.00          0.00          0.000000000
## 11474          0.86         15.40          0.008048896
## 11476          0.00          0.00          0.000000000
## 11477          0.00          0.00          0.000000000
## 11478          0.44          6.10          0.008048896
## 11479          0.00          0.00          0.000000000
## 11480          0.00          0.00          0.008048896
## 11481          0.00          0.00          0.000000000
## 11482          0.00          0.00          0.000000000
## 11484          0.00          0.00          0.000000000
## 11486          1.43          8.10          0.008048896
## 11487          0.27          5.30          0.000000000
## 11491          0.00          0.00          0.000000000
## 11493          0.00          0.00          0.008048896
## 11494          0.00          0.00          0.008048896
## 11495          0.00          0.00          0.008048896
## 11496          0.00          0.00          0.008048896
## 11497          0.00          0.00          0.008048896
## 11499          0.00          0.00          0.000000000
## 11500          2.97          8.30          0.008048896
## 11501          0.00          0.00          0.008048896
## 11502          0.00          0.00          0.000000000
## 11503          0.00          0.00          0.008048896
## 11504          0.00          0.00          0.000000000
## 11506          0.00          0.00          0.008048896
## 11507          0.00          0.00          0.008048896
## 11509          0.00          0.00          0.008048896
## 11510          0.00          0.00          0.000000000
## 11511          0.00          0.00          0.008048896
## 11512          0.23          4.94          0.008048896
## 11515          0.00          0.00          0.008048896
## 11517          0.00          0.00          0.008048896
## 11518          0.00          0.00          0.000000000
## 11519          0.73          9.20          0.008048896
## 11520          0.50         10.00          0.000000000
## 11521          0.00          0.00          0.000000000
## 11522          0.00          0.00          0.000000000
## 11523          0.42         40.00          0.000000000
## 11524          0.00          0.00          0.000000000
## 11525          2.00          8.90          0.008048896
## 11526          0.00          0.00          0.000000000
## 11527          3.49          8.20          0.000000000
## 11528          0.00          0.00          0.008048896
## 11529          1.15         11.80          0.008048896
## 11530          0.00          0.00          0.000000000
## 11531          0.53         11.07          0.008048896
## 11532          0.00          0.00          0.008048896
## 11533          0.14          0.00          0.008048896
## 11534          0.50          0.00          0.008048896
## 11537          0.47          5.70          0.008048896
```

```
## 11538               0.00          0.00        0.000000000
## 11539               0.00          0.00        0.008048896
## 11540               0.00          0.00        0.008048896
## 11542               0.20          4.50        0.000000000
## 11543               0.00          0.00        0.000000000
## 11544               0.50          0.00        0.008048896
## 11545               0.00          0.00        0.000000000
## 11546               0.00          0.00        0.008048896
## 11548               0.50          0.00        0.008048896
## 11549               0.72          9.62        0.008048896
## 11550               3.01          8.10        0.008048896
## 11551               0.00          0.00        0.008048896
## 11552               0.39          6.30        0.077000000
## 11553               0.00          0.00        0.000000000
## 11554               0.00          0.00        0.000000000
## 11555               3.86          7.30        0.000000000
## 11556               0.92          6.80        0.008048896
## 11557               0.00          0.00        0.000000000
## 11559               0.21          5.00        0.008048896
## 11560               0.00          0.00        0.000000000
## 11561               0.00          0.00        0.000000000
## 11562               0.00          0.00        0.008048896
## 11564               0.29          5.30        0.008048896
## 11565               0.00          0.00        0.000000000
## 11566               1.99         10.00        0.008048896
## 11567               0.24          5.30        0.008048896
## 11568               1.46          9.00        0.008048896
## 11570               0.00          0.00        0.000000000
## 11571               0.00          0.00        0.000000000
## 11572               0.00          0.00        0.000000000
## 11573               0.00          0.00        0.000000000
## 11574               1.47          0.00        0.008048896
## 11575               0.00          0.00        0.000000000
## 11579               3.04          8.10        0.008048896
## 11582               0.00          0.00        0.008048896
## 11585               0.57          7.40        0.008048896
## 11586               0.00          0.00        0.008048896
## 11587               0.34          6.10        0.000000000
## 11588               0.59          9.30        0.008048896
## 11589               0.00          0.00        0.008048896
## 11591               2.64          9.00        0.000000000
## 11592               0.00          0.00        0.000000000
## 11594               0.21          5.30        0.000000000
## 11595               0.80          5.20        0.008048896
## 11596               0.00          0.00        0.008048896
## 11597               0.00          0.00        0.008048896
## 11599               2.66          8.88        0.000000000
## 11600               0.00          0.00        0.000000000
## 11603               0.24          5.70        0.008048896
## 11604               0.00          0.00        0.008048896
## 11605               0.00          0.00        0.000000000
## 11606               0.00          0.00        0.000000000
## 11607               0.00          0.00        0.000000000
## 11609               0.00          0.00        0.008048896
```

```
## 11610              0.00              0.00         0.000000000
## 11611              0.23              4.90         0.008048896
## 11612              0.00              0.00         0.008048896
## 11613              0.00              0.00         0.008048896
## 11615              2.62              7.60         0.008048896
## 11617              1.39             13.50         0.000000000
## 11618              0.00              0.00         0.008048896
## 11622              0.71             22.50         0.000000000
## 11623              0.00              0.00         0.000000000
## 11625              1.37              6.80         0.008048896
## 11626              3.44              9.00         0.086000000
## 11627              0.00              0.00         0.000000000
## 11628              0.00              0.00         0.008048896
## 11629              0.39              5.10         0.000000000
## 11630              0.26              5.20         0.008048896
## 11631              0.00              0.00         0.008048896
## 11632              0.00              0.00         0.008048896
## 11633              0.00              0.00         0.008048896
## 11634              0.00              0.00         0.008048896
## 11635              4.48             15.94         0.008048896
## 11636              0.00              0.00         0.008048896
## 11637              0.00              0.00         0.000000000
## 11639              0.23              5.80         0.000000000
## 11640              0.00              0.00         0.000000000
## 11641              0.35              5.20         0.100000000
## 11642              0.00              0.00         0.008048896
## 11643              1.26             10.90         0.000000000
## 11645              0.00              0.00         0.000000000
## 11646              0.00              0.00         0.000000000
## 11647              0.32              5.20         0.000000000
## 11648              0.00              0.00         0.008048896
## 11650              0.45              4.50         0.008048896
## 11652              0.01              0.00         0.008048896
## 11653              2.35              7.50         0.000000000
## 11655              0.00              0.00         0.008048896
## 11657              0.58             12.90         0.008048896
## 11658              0.33              5.10         0.008048896
## 11659              0.00              0.00         0.008048896
## 11660              0.17              0.00         0.008048896
## 11661              0.00              0.00         0.008048896
## 11663              0.00              0.00         0.000000000
## 11664              0.00              0.00         0.000000000
## 11666              2.68              7.90         0.008048896
## 11668              0.00              0.00         0.000000000
## 11670              0.00              0.00         0.000000000
## 11671              0.00              0.00         0.000000000
## 11673              0.00              0.00         0.008048896
## 11674              0.27              4.90         0.000000000
## 11676              1.98             17.40         0.008048896
## 11677              0.20              4.50         0.000000000
## 11678              0.00              0.00         0.000000000
## 11680              0.40              5.90         0.008048896
## 11681              3.85              9.39         0.008048896
## 11682              0.00              0.00         0.000000000
```

```
## 11683      0.00      0.00      0.008048896
## 11684      0.21      4.54      0.000000000
## 11687      0.67     12.50      0.008048896
## 11688      0.00      0.00      0.000000000
## 11690      1.19     10.70      0.008048896
## 11691      0.00      0.00      0.008048896
## 11692      0.46      0.00      0.008048896
## 11694      0.00      0.00      0.008048896
## 11695      0.86     11.10      0.008048896
## 11696      1.57     12.20      0.008048896
## 11697      0.00      0.00      0.008048896
## 11698      0.00      0.00      0.000000000
## 11699      0.00      0.00      0.000000000
## 11700      0.45      0.00      0.008048896
## 11701      2.74      7.20      0.008048896
## 11704      2.48      8.10      0.008048896
## 11706      0.00      0.00      0.000000000
## 11707      1.07     15.00      0.008048896
## 11708      0.81     11.70      0.008048896
## 11709      0.00      0.00      0.008048896
## 11710      0.00      0.00      0.008048896
## 11712      0.00      0.00      0.008048896
## 11714      3.11      9.10      0.008048896
## 11716      0.00      0.00      0.000000000
## 11717      0.00      0.00      0.008048896
## 11718      0.37      5.10      0.000000000
## 11719      0.00      0.00      0.000000000
## 11720      0.00      0.00      0.000000000
## 11722      0.96     11.08      0.008048896
## 11723      0.00      0.00      0.008048896
## 11724      0.00      0.00      0.000000000
## 11725      0.00      0.00      0.008048896
## 11726      3.00      8.20      0.000000000
## 11727      0.00      0.00      0.008048896
## 11728      1.30     10.80      0.008048896
## 11730      0.22      4.80      0.008048896
## 11731      0.00      0.00      0.008048896
## 11732      0.00      0.00      0.000000000
## 11733      0.00      0.00      0.000000000
## 11734      0.00      0.00      0.000000000
## 11735      0.00      0.00      0.000000000
## 11737      0.00      0.00      0.000000000
## 11739      1.17     28.00      0.008048896
## 11740      3.10      8.70      0.000000000
## 11741      0.29      5.60      0.008048896
## 11742      0.00      0.00      0.000000000
## 11744      0.00      0.00      0.000000000
## 11745      0.00      0.00      0.008048896
## 11746      0.84     11.50      0.008048896
## 11747      0.00      0.00      0.000000000
## 11748      0.90     11.80      0.000000000
## 11749      0.00      0.00      0.000000000
## 11751      0.24      4.10      0.000000000
## 11752      0.00      0.00      0.008048896
```

338

```
## 11753                 0.00              0.00        0.000000000
## 11756                 0.00              0.00        0.000000000
## 11757                 0.00              0.00        0.000000000
## 11758                 0.00              0.00        0.000000000
## 11761                 1.59              8.90        0.008048896
## 11762                 0.00              0.00        0.000000000
## 11765                 0.00              0.00        0.008048896
## 11766                 0.00              0.00        0.000000000
## 11767                 0.00              0.00        0.008048896
## 11768                 0.00              0.00        0.008048896
## 11770                 2.92              8.10        0.008048896
## 11772                 0.00              0.00        0.000000000
## 11776                 1.01             11.60        0.008048896
## 11777                 0.00              0.00        0.000000000
## 11779                 0.00              0.00        0.000000000
## 11780                 0.27              4.70        0.000000000
## 11781                 0.00              0.00        0.000000000
## 11783                 1.98             22.70        0.008048896
## 11785                 0.20              5.20        0.000000000
## 11786                 0.30              0.00        0.008048896
## 11787                 0.00              0.00        0.000000000
## 11788                 0.36              5.50        0.000000000
## 11792                 0.00              0.00        0.008048896
## 11793                 0.00              0.00        0.000000000
## 11794                 0.71             12.98        0.000000000
## 11796                 0.00              0.00        0.008048896
## 11799                 0.00              0.00        0.000000000
## 11801                 0.00              0.00        0.000000000
## 11802                 0.20              4.30        0.008048896
## 11803                 0.00              0.00        0.008048896
## 11804                 0.00              0.00        0.000000000
## 11807                 0.00              0.00        0.000000000
## 11808                 0.81             12.80        0.008048896
## 11809                 0.00              0.00        0.000000000
## 11814                 0.20              0.00        0.008048896
## 11815                 0.00              0.00        0.000000000
## 11817                 1.03             11.40        0.000000000
## 11820                 0.00              0.00        0.008048896
## 11821                 0.24              4.00        0.000000000
## 11822                 1.00             10.20        0.008048896
## 11823                 1.09             10.40        0.008048896
## 11824                 0.00              0.00        0.000000000
## 11825                 2.36              9.20        0.008048896
## 11826                 0.00              0.00        0.000000000
## 11827                 0.00              0.00        0.000000000
## 11828                 0.93              9.40        0.008048896
## 11829                 0.00              0.00        0.008048896
## 11830                 0.08              0.00        0.008048896
## 11833                 0.46              9.22        0.008048896
## 11834                 0.00              0.00        0.008048896
## 11838                 0.00              0.00        0.000000000
## 11841                 0.00              0.00        0.008048896
## 11842                 0.00              0.00        0.008048896
## 11843                 1.29             17.50        0.130000000
```

```
## 11845              0.00           0.00      0.000000000
## 11846              0.00           0.00      0.000000000
## 11848              0.00           0.00      0.000000000
## 11850              0.00           0.00      0.000000000
## 11852              0.50           0.00      0.000000000
## 11853              0.00           0.00      0.008048896
## 11854              0.00           0.00      0.008048896
## 11855              0.71          10.30      0.008048896
## 11856              0.00           0.00      0.000000000
## 11857              0.37           5.40      0.008048896
## 11858              0.00           0.00      0.000000000
## 11859              0.23           5.00      0.000000000
## 11860              0.00           0.00      0.008048896
## 11863              0.19           4.80      0.000000000
## 11864              0.00           0.00      0.000000000
## 11865              0.77          12.00      0.008048896
## 11867              2.17           7.90      0.008048896
## 11868              0.82           2.00      0.000000000
## 11869              0.78          10.43      0.000000000
## 11870              0.42          40.30      0.008048896
## 11871              0.62           9.90      0.008048896
## 11872              0.00           0.00      0.000000000
## 11873              0.20           4.80      0.008048896
## 11874              0.00           0.00      0.000000000
## 11875              0.20           4.10      0.070000000
## 11877              0.95          11.00      0.000000000
## 11878              3.99           9.30      0.008048896
## 11879              0.00           0.00      0.008048896
## 11880              0.00           0.00      0.000000000
## 11882              0.21           4.50      0.054000000
## 11883              0.00           0.00      0.000000000
## 11885              0.00           0.00      0.000000000
## 11886              0.00           0.00      0.000000000
## 11887              0.00           0.00      0.000000000
## 11888              2.97           8.10      0.000000000
## 11889              0.00           0.00      0.000000000
## 11890              0.00           0.00      0.000000000
## 11892              1.29          10.65      0.008048896
## 11893              0.00           0.00      0.000000000
## 11894              0.34           5.30      0.008048896
## 11895              0.00           0.00      0.008048896
## 11896              3.04           9.90      0.008048896
## 11897              1.85          15.50      0.000000000
## 11898              0.04           0.00      0.008048896
## 11899              1.40           7.00      0.008048896
## 11900              0.00           0.00      0.000000000
## 11901              0.00           0.00      0.008048896
## 11902              0.00           0.00      0.008048896
## 11903              0.00           0.00      0.000000000
## 11904              0.00           0.00      0.008048896
## 11905              0.00           0.00      0.008048896
## 11906              0.00           0.00      0.008048896
## 11907              0.00           0.00      0.008048896
## 11909              0.20           4.58      0.008048896
```

```
## 11910             0.00           0.00        0.000000000
## 11911             0.00           0.00        0.000000000
## 11912             0.20           4.90        0.008048896
## 11913             0.46          10.80        0.008048896
## 11914             0.00           0.00        0.000000000
## 11916             0.00           0.00        0.000000000
## 11917             0.00           0.00        0.000000000
## 11919             2.67           9.22        0.008048896
## 11920             0.00           0.00        0.008048896
## 11921             1.98          16.80        0.008048896
## 11922             0.00           0.00        0.008048896
## 11924             0.33           5.10        0.008048896
## 11925             0.00           0.00        0.008048896
## 11927             0.00           0.00        0.000000000
## 11930             0.00           0.00        0.008048896
## 11931             0.34           5.00        0.008048896
## 11932             0.00           0.00        0.000000000
## 11933             2.72           8.10        0.008048896
## 11935             0.00           0.00        0.000000000
## 11936             0.00           0.00        0.000000000
## 11937             0.00           0.00        0.000000000
## 11938             0.00           0.00        0.000000000
## 11939             0.00           0.00        0.000000000
## 11941             0.42           0.00        0.008048896
## 11942             0.00           0.00        0.008048896
## 11943             0.00           0.00        0.008048896
## 11944             0.00           0.00        0.000000000
## 11947             0.00           0.00        0.008048896
## 11949             0.00           0.00        0.008048896
## 11950             3.84          18.10        0.008048896
## 11951             0.33           4.90        0.008048896
## 11954             0.65          19.90        0.008048896
## 11957             0.00           0.00        0.000000000
## 11958             0.00           0.00        0.000000000
## 11961             3.27           7.70        0.008048896
## 11963             0.33           5.40        0.000000000
## 11964             0.00           0.00        0.000000000
## 11965             0.00           0.00        0.008048896
## 11966             2.99           8.10        0.008048896
## 11967             0.00           0.00        0.000000000
## 11969             2.62           7.55        0.000000000
## 11971             0.46          10.50        0.000000000
## 11973             0.00           0.00        0.008048896
## 11974             0.00           0.00        0.000000000
## 11975             2.23           7.60        0.008048896
## 11976             0.36           4.90        0.000000000
## 11977             0.00           0.00        0.008048896
## 11978             0.00           0.00        0.008048896
## 11979             0.00           0.00        0.000000000
## 11983             0.21           4.70        0.000000000
## 11984             0.00           0.00        0.000000000
## 11985             0.00           0.00        0.000000000
## 11986             0.00           0.00        0.000000000
## 11987             0.00           0.00        0.000000000
```

```
## 11989                3.55             8.40        0.008048896
## 11990                0.00             0.00        0.008048896
## 11991                0.00             0.00        0.008048896
## 11992                0.00             0.00        0.008048896
## 11993                0.69            12.27        0.000000000
## 11994                1.86            11.47        0.008048896
## 11995                2.50             7.60        0.008048896
## 11996                0.00             0.00        0.000000000
## 11998                0.48             6.40        0.000000000
## 12001                0.66             9.00        0.101000000
## 12003                1.39            11.00        0.008048896
## 12005                0.00             0.00        0.000000000
## 12006                0.00             0.00        0.008048896
## 12007                0.00             0.00        0.000000000
## 12008                2.24             9.00        0.008048896
## 12011                0.00             0.00        0.000000000
## 12012                0.00             0.00        0.000000000
## 12013                0.00             0.00        0.008048896
## 12015                2.72             8.20        0.000000000
## 12017                2.90             8.50        0.008048896
## 12018                0.35             5.10        0.008048896
## 12020                0.00             0.00        0.000000000
## 12021                0.00             0.00        0.000000000
## 12022                2.92             8.20        0.050000000
## 12023                0.00             0.00        0.000000000
## 12026                0.90            13.60        0.000000000
## 12027                0.00             0.00        0.008048896
## 12028                0.50             0.00        0.000000000
## 12029                0.00             0.00        0.008048896
## 12030                0.00             0.00        0.008048896
## 12031                0.00             0.00        0.000000000
## 12032                0.00             0.00        0.008048896
## 12033                0.00             0.00        0.000000000
## 12034                3.10             8.90        0.008048896
## 12035                0.00             0.00        0.000000000
## 12036                0.39             4.90        0.000000000
## 12037                1.64            14.80        0.008048896
## 12038                0.35            41.10        0.008048896
## 12039                0.29             0.00        0.008048896
## 12040                0.00             0.00        0.000000000
## 12042                0.94            10.70        0.008048896
## 12043                0.00             0.00        0.008048896
## 12044                0.49             0.00        0.008048896
## 12045                2.82             9.10        0.008048896
## 12047                0.00             0.00        0.008048896
## 12049                0.00             0.00        0.008048896
## 12050                0.00             0.00        0.008048896
## 12051                0.00             0.00        0.008048896
## 12052                0.00             0.00        0.000000000
## 12053                0.00             0.00        0.000000000
## 12055                0.70             7.90        0.008048896
## 12056                0.00             0.00        0.008048896
## 12057                0.00             0.00        0.000000000
## 12058                0.00             0.00        0.000000000
```

```
## 12059             0.00         0.00      0.000000000
## 12060             0.50         0.00      0.008048896
## 12061             0.00         0.00      0.000000000
## 12062             0.60         7.50      0.008048896
## 12063             0.00         0.00      0.000000000
## 12064             0.00         0.00      0.008048896
## 12065             0.00         0.00      0.000000000
## 12066             0.27         5.00      0.000000000
## 12068             0.00         0.00      0.000000000
## 12069             0.00         0.00      0.000000000
## 12070             0.00         0.00      0.008048896
## 12074             0.50         0.00      0.008048896
## 12076             0.66        38.80      0.008048896
## 12078             0.00         0.00      0.000000000
## 12080             0.00         0.00      0.000000000
## 12081             0.00         0.00      0.008048896
## 12082             0.28         4.50      0.000000000
## 12083             0.15         0.00      0.008048896
## 12084             0.00         0.00      0.008048896
## 12087             0.50         0.00      0.008048896
## 12090             2.07        52.40      0.008048896
## 12091             0.00         0.00      0.008048896
## 12092             0.00         0.00      0.000000000
## 12093             0.00         0.00      0.000000000
## 12094             0.67        11.90      0.100000000
## 12095             0.00         0.00      0.000000000
## 12096             0.00         0.00      0.008048896
## 12097             0.00         0.00      0.008048896
## 12098             0.00         0.00      0.000000000
## 12099             0.00         0.00      0.000000000
## 12100             3.06         9.30      0.000000000
## 12101             0.00         0.00      0.008048896
## 12103             0.00         0.00      0.000000000
## 12104             0.00         0.00      0.000000000
## 12105             0.00         0.00      0.008048896
## 12106             0.00         0.00      0.000000000
## 12107             0.24         4.80      0.080000000
## 12108             0.32         5.60      0.000000000
## 12109             2.90         8.10      0.000000000
## 12111             1.03         9.50      0.000000000
## 12114             0.23         4.20      0.060000000
## 12117             0.00         0.00      0.000000000
## 12119             0.00         0.00      0.000000000
## 12120             1.16        12.40      0.008048896
## 12121             0.00         0.00      0.000000000
## 12122             3.19        30.50      0.240000000
## 12123             0.00         0.00      0.000000000
## 12124             0.00         0.00      0.000000000
## 12125             2.70         7.60      0.000000000
## 12127             0.00         0.00      0.000000000
## 12128             0.00         0.00      0.000000000
## 12130             0.46         8.80      0.008048896
## 12131             0.00         0.00      0.008048896
## 12132             0.00         0.00      0.000000000
```

```
## 12133                 0.00            0.00         0.000000000
## 12134                 2.55            9.00         0.000000000
## 12135                 0.00            0.00         0.008048896
## 12136                 0.00            0.00         0.000000000
## 12137                 0.00            0.00         0.000000000
## 12140                 0.19            4.70         0.000000000
## 12141                 0.00            0.00         0.000000000
## 12143                 0.00            0.00         0.000000000
## 12145                 0.22            4.50         0.000000000
## 12146                 0.00            0.00         0.008048896
## 12147                 0.00            0.00         0.000000000
## 12148                 0.00            0.00         0.000000000
## 12149                 3.06            8.40         0.000000000
## 12150                 0.00            0.00         0.000000000
## 12152                 0.00            0.00         0.008048896
## 12153                 0.00            0.00         0.000000000
## 12154                 2.35            7.80         0.008048896
## 12155                 3.02            8.60         0.000000000
## 12156                 0.19            4.30         0.000000000
## 12157                 0.00            0.00         0.000000000
## 12158                 0.00            0.00         0.008048896
## 12161                 0.00            0.00         0.008048896
## 12162                 0.25            5.20         0.000000000
## 12163                 0.00            0.00         0.000000000
## 12164                 0.00            0.00         0.008048896
## 12166                 0.00            0.00         0.008048896
## 12167                 0.00            0.00         0.000000000
## 12170                 1.07            9.70         0.008048896
## 12171                 0.02            0.00         0.008048896
##       fuel_cost_per_mmbtu cluster
## 1                 5.47000       5
## 2                 1.96300       5
## 4                 1.64200       2
## 6                 2.68700       5
## 7                 4.93000       5
## 8                 5.27000       5
## 10               14.18427       2
## 11               14.18427       5
## 13                1.50000       2
## 15               14.18427       2
## 17                1.74400       2
## 18               14.18427       5
## 19                1.02800       2
## 20                4.85600       6
## 21               14.18427       5
## 22                2.94400       5
## 23               14.18427       2
## 24               14.18427       5
## 25               14.18427       5
## 26                5.63200       5
## 27                5.05700       2
## 28               14.18427       5
## 29                2.01700       4
## 30                2.46100       2
```

```
## 31             2.13600        4
## 34             2.59800        4
## 35            14.18427        2
## 36             5.83500        4
## 38             2.94800        5
## 39             3.41400        5
## 40            14.18427        4
## 42             1.98200        4
## 43            14.18427        5
## 45             3.30200        5
## 47             2.07200        4
## 48             2.48400        5
## 50             1.66500        2
## 51             3.48700        5
## 52             4.48000        5
## 53            14.18427        5
## 54             4.32300        5
## 56             2.75000        5
## 57             1.45000        2
## 58             5.24900        5
## 59             2.04900        2
## 60             4.57500        5
## 61            12.55800        5
## 65             1.65700        2
## 67             3.63900        5
## 68             1.17200        4
## 69            22.05000        5
## 70             3.93300        5
## 72            14.18427        5
## 73             2.29700        5
## 75             9.43800        5
## 76             3.65300        5
## 77             7.82100        5
## 78            14.18427        4
## 79             3.62600        5
## 81             5.11600        5
## 83            14.18427        5
## 84             2.76800        5
## 85            14.18427        5
## 86             2.54000        2
## 87            14.18427        4
## 88            14.18427        6
## 89             2.08500        2
## 90             2.90600        5
## 92            14.18427        2
## 93             4.08500        5
## 94             2.06200        2
## 97             3.54300        5
## 98             2.71000        6
## 99             2.28100        5
## 102           14.18427        5
## 103            4.97400        5
## 104            6.32000        5
## 105            2.84900        5
```

```
## 107              14.18427        5
## 108               4.70100        5
## 109               1.07000        2
## 110              14.18427        1
## 111              14.18427        5
## 112               6.53900        5
## 113              14.18427        5
## 114               2.42600        2
## 116               0.90700        2
## 117               5.93400        5
## 118               1.74400        2
## 119              14.18427        2
## 122               3.07900        2
## 123               3.69000        5
## 124               2.43400        5
## 125              14.18427        5
## 126               2.20400        5
## 128              14.18427        5
## 129              14.18427        2
## 130               2.65700        4
## 132               2.69300        2
## 134               5.10800        5
## 135               4.26400        5
## 136              14.18427        5
## 137               5.64400        5
## 139              14.18427        1
## 140               1.81300        2
## 141              14.18427        5
## 142               3.89200        5
## 143              14.18427        5
## 144               2.97000        5
## 145              14.18427        2
## 147              14.18427        4
## 148              14.18427        5
## 149              14.18427        5
## 150               5.84200        5
## 151               2.02000        2
## 153               2.16500        2
## 154               5.84700        5
## 155               6.37000        5
## 156               3.29900        2
## 158               2.08800        4
## 160               2.75300        5
## 162               8.70500        5
## 163              14.18427        2
## 165               2.30300        2
## 166               4.49700        5
## 167               3.23100        5
## 168              14.18427        5
## 169               6.30200        5
## 170               2.14800        4
## 171              14.18427        5
## 173              14.18427        5
## 175              14.18427        5
```

```
## 176               15.16000        5
## 178                6.17200        5
## 179                9.02800        5
## 181               14.18427        5
## 182               14.18427        1
## 183                5.07100        5
## 184                2.25500        2
## 186                2.84000        5
## 187                3.45800        5
## 188                6.42300        5
## 189                1.73900        2
## 191                3.01600        5
## 192                2.29300        5
## 193                3.15900        6
## 194                2.08300        4
## 195               14.18427        5
## 196               14.18427        5
## 198                3.34000        5
## 200                2.79700        2
## 203               11.55200        5
## 204               14.18427        4
## 205                2.87800        4
## 206                3.41800        4
## 207               14.18427        5
## 208               14.18427        5
## 209                7.87300        5
## 210                4.47900        5
## 211                3.41000        5
## 212               14.18427        2
## 214                5.43500        5
## 215                0.93400        5
## 216                1.94600        2
## 217                2.91000        5
## 218                4.09100        6
## 220                2.59600        2
## 221               14.18427        5
## 222               14.18427        5
## 223                2.45300        4
## 225                2.88200        5
## 226                1.95000        4
## 228                3.45400        2
## 230               14.18427        6
## 231                2.58200        2
## 233                1.20900        2
## 235               14.18427        5
## 236                2.20700        5
## 238               14.18427        5
## 240               15.13200        5
## 241                4.32600        2
## 242                2.62300        5
## 243               14.18427        5
## 244               14.18427        5
## 248                1.19300        5
## 249               14.18427        5
```

```
## 250                 4.63100         5
## 252                 4.00700         5
## 253                20.03800         5
## 254                 2.09600         4
## 255                 2.02500         2
## 256                 7.71000         5
## 257                 1.44100         2
## 259                14.18427         5
## 260                 4.40200         2
## 261                 2.11300         5
## 262                14.18427         4
## 264                14.18427         5
## 265                14.18427         5
## 266                 2.24700         4
## 267                14.18427         5
## 268                 5.22500         5
## 269                 2.37100         2
## 270                 4.07800         5
## 271                 3.34400         2
## 272                14.18427         2
## 273                 4.20100         5
## 275                14.18427         3
## 276                 4.91300         5
## 278                 1.34400         2
## 279                 2.77500         5
## 280                14.18427         5
## 281                14.18427         5
## 282                 2.58100         5
## 287                14.18427         1
## 288                 2.28000         2
## 289                 2.51800         4
## 291                 2.28100         2
## 292                14.18427         5
## 294                 3.93400         2
## 295                14.18427         5
## 297                24.07000         5
## 298                 3.93500         6
## 300                14.18427         6
## 302                 2.27800         4
## 303                 4.13800         5
## 305                 2.28000         4
## 306                14.18427         5
## 308                 2.28700         5
## 310                14.18427         2
## 312                 0.57300         6
## 313                14.18427         5
## 316                 1.68800         2
## 317                 3.31200         2
## 318                 4.63900         5
## 320                 1.50100         2
## 321                 2.27100         4
## 322                14.18427         4
## 323                 2.88400         4
## 324                11.95000         5
```

```
## 326                  3.18100          5
## 330                  1.31900          4
## 332                 14.18427          5
## 333                  3.09600          4
## 334                  6.05400          5
## 335                  4.00900          2
## 336                  3.25800          5
## 337                  2.71800          5
## 339                  3.74900          5
## 340                  3.82000          5
## 341                  4.64400          5
## 343                  3.08400          5
## 344                  5.77600          5
## 346                 14.18427          5
## 347                  2.26100          2
## 348                  2.89500          5
## 349                  5.67200          5
## 350                  2.61100          5
## 351                  6.98600          5
## 352                  5.65200          5
## 353                 22.08600          5
## 354                 14.18427          4
## 355                 14.18427          5
## 356                 14.18427          2
## 358                  3.62000          2
## 359                 11.51000          5
## 360                  3.70800          2
## 361                  1.88100          2
## 363                 14.18427          2
## 364                 14.16000          5
## 366                  1.46100          2
## 368                  2.86000          5
## 369                 14.18427          5
## 370                  4.26800          5
## 371                 14.18427          5
## 374                  7.19800          5
## 375                  3.43800          6
## 376                 14.18427          5
## 377                  4.56500          5
## 378                  2.21100          2
## 380                  3.64400          5
## 381                  2.09100          4
## 382                  1.81600          4
## 383                 14.18427          4
## 385                  2.21400          5
## 386                  4.07100          5
## 388                  4.14400          5
## 389                  3.11900          5
## 390                  2.72100          2
## 391                  2.81100          2
## 392                  4.88200          5
## 393                 18.84600          5
## 395                  2.23000          2
## 396                  4.10100          5
```

```
## 397                   2.58600        2
## 398                  36.98600        5
## 399                   1.63500        2
## 400                   1.96600        2
## 403                  11.82900        5
## 404                  14.18427        4
## 405                  14.18427        5
## 407                  15.10900        5
## 409                   5.23800        5
## 411                   2.20700        2
## 414                   4.02900        5
## 416                   2.69000        5
## 417                  23.50200        5
## 418                  14.18427        5
## 419                   2.20700        2
## 425                   4.62100        2
## 426                  14.18427        5
## 427                   5.96300        5
## 428                   4.98000        5
## 429                   3.90800        5
## 430                   1.67300        2
## 431                  14.18427        5
## 432                   3.61100        5
## 433                  14.18427        6
## 434                  14.18427        4
## 436                   1.97400        4
## 437                   2.66300        2
## 438                  22.17700        5
## 439                  11.43800        5
## 441                  14.18427        5
## 442                  24.95300        5
## 443                   3.28500        2
## 445                  14.18427        2
## 449                  14.18427        1
## 450                   2.47600        2
## 453                  16.30800        5
## 454                   9.67500        5
## 455                  19.16500        5
## 458                   2.87900        6
## 460                   3.92900        5
## 461                   3.20500        2
## 462                   3.99800        2
## 463                  14.18427        5
## 465                  23.73200        5
## 466                   5.84500        5
## 467                   1.42000        4
## 469                   2.15200        4
## 470                   1.71400        2
## 471                   3.81400        5
## 473                   3.26100        5
## 474                  21.64300        5
## 475                   1.48600        5
## 476                  14.18427        5
## 479                   4.66600        5
```

```
## 481               2.28700       2
## 482              14.18427       4
## 484               4.19200       5
## 485             102.98600       5
## 486              15.82000       5
## 488               2.85600       2
## 489              15.28400       5
## 490               3.84700       2
## 492              10.40200       5
## 494               6.87700       5
## 496              14.18427       5
## 497               4.78000       5
## 498              11.64700       5
## 499               6.81500       5
## 500              14.18427       5
## 501               4.56400       5
## 503              14.18427       4
## 505               1.84200       2
## 506              14.18427       5
## 507               1.59300       2
## 508               5.15200       5
## 510              14.18427       2
## 511               1.84000       4
## 512              14.18427       5
## 513              14.18427       5
## 514               3.78100       5
## 516              14.18427       2
## 517              14.18427       5
## 518               1.41300       2
## 519               1.72100       2
## 520               4.11800       5
## 521               2.70900       5
## 522               3.80400       5
## 524               2.72400       4
## 525               5.26700       2
## 526               1.60100       4
## 527              14.18427       4
## 528               3.79700       5
## 529               5.61200       5
## 530              13.07600       5
## 531              14.18427       5
## 532               2.56100       5
## 533              14.18427       2
## 534              14.18427       5
## 535               3.19600       2
## 537               1.46500       2
## 538              14.18427       5
## 540              14.18427       2
## 541               4.27000       5
## 544               3.03900       4
## 545               1.73600       2
## 546               4.41900       2
## 548               0.88000       1
## 550              14.18427       2
```

```
## 551              14.18427        5
## 552              14.18427        1
## 553               3.73300        5
## 554              14.18427        2
## 555               1.78500        2
## 556              23.86300        5
## 557               1.39500        2
## 558               3.44700        5
## 560              10.97800        5
## 561               1.56700        2
## 562               3.28300        5
## 566               0.99700        2
## 567               4.62500        5
## 568              14.18427        5
## 569              14.18427        4
## 570               4.34600        5
## 571               3.72700        5
## 572               3.41400        5
## 573               4.67000        5
## 575               1.50400        2
## 578              15.91000        5
## 579              14.18427        5
## 581               5.41100        6
## 582               4.11600        5
## 583              14.18427        5
## 585               2.25300        2
## 586               1.84000        2
## 587              13.12500        5
## 589              14.18427        5
## 590               3.17000        5
## 591               2.13500        5
## 592               3.55500        6
## 593               4.93800        2
## 594               6.98900        5
## 595               2.79700        2
## 596               4.13100        5
## 598              14.18427        5
## 599              14.18427        3
## 600              14.18427        4
## 601              27.31100        5
## 602              14.18427        6
## 603              14.18427        5
## 604               2.13000        2
## 605              14.18427        1
## 606               2.28400        2
## 607              14.18427        5
## 608               3.11400        4
## 609              14.18427        6
## 610              14.18427        5
## 611               1.62400        2
## 612              14.18427        2
## 613               3.23000        4
## 614              14.18427        5
## 615              14.18427        2
```

```
## 616                   2.29900          2
## 620                   3.44200          5
## 621                  14.18427          5
## 622                   4.86500          5
## 625                   2.62000          2
## 626                  24.78100          5
## 627                   5.14900          5
## 629                   4.83500          5
## 630                   3.20500          5
## 631                  13.97700          5
## 635                  11.51000          5
## 636                   2.10800          4
## 637                   1.49800          5
## 638                  14.18427          5
## 639                   2.87200          5
## 642                  11.10300          5
## 644                  14.18427          2
## 645                   2.32300          2
## 646                  14.18427          5
## 647                  14.18427          5
## 649                   2.48000          5
## 650                   1.48600          2
## 651                  14.18427          5
## 655                  14.18427          2
## 656                   5.39200          5
## 657                  21.99600          5
## 658                  14.18427          6
## 659                   2.25500          2
## 660                  14.18427          5
## 661                  14.18427          4
## 663                   3.18300          5
## 664                   3.26000          5
## 665                   3.84400          2
## 666                   2.04900          5
## 667                   1.06600          4
## 668                  14.18427          2
## 669                   1.73600          5
## 670                   1.65900          2
## 671                  14.18427          5
## 672                  14.18427          2
## 673                  12.86700          5
## 674                   2.07400          2
## 675                  22.27400          5
## 676                   4.48900          2
## 677                  20.45300          5
## 678                  14.18427          5
## 680                   2.71000          5
## 682                  14.18427          5
## 683                   1.37400          2
## 684                   4.01900          2
## 685                   2.14600          2
## 686                   5.08100          5
## 687                  15.59600          5
## 688                   4.07600          5
```

```
## 689                9.63000        5
## 691                2.74000        5
## 692               14.18427        6
## 693                3.75900        2
## 695                3.89300        5
## 696               14.18427        5
## 697               14.18427        2
## 698               14.18427        5
## 699                6.18900        2
## 700                1.77800        5
## 701                1.93000        5
## 703                5.86800        4
## 704                3.26300        2
## 705                2.62200        5
## 707               14.18427        4
## 708                4.94000        6
## 709                2.51500        4
## 710                3.86400        5
## 712                3.76000        5
## 713                4.38300        5
## 714                1.92600        4
## 716               14.18427        5
## 717                5.71200        5
## 719               14.18427        5
## 720               14.18427        2
## 721                3.58700        5
## 722                5.56900        5
## 723               14.18427        5
## 724                2.63000        2
## 726               14.18427        5
## 727                8.86200        5
## 729               14.18427        5
## 731                4.20600        5
## 732               14.18427        5
## 733                5.43800        5
## 734               14.18427        6
## 735               11.42800        5
## 736               14.18427        5
## 739                4.25400        5
## 741                1.83000        5
## 742                2.02800        2
## 743                1.68700        2
## 744                4.33600        5
## 746               14.18427        5
## 747               14.18427        5
## 748               14.18427        5
## 749                3.30000        5
## 750               14.18427        2
## 751               14.18427        5
## 752               14.18427        5
## 754                1.31700        2
## 755               14.18427        2
## 756                1.88000        2
## 757                2.33900        4
```

```
## 758              2.69400          2
## 759             14.18427          2
## 760              3.33400          2
## 762              4.04300          5
## 763             14.18427          5
## 765             14.18427          5
## 766              2.53000          5
## 767              2.45800          5
## 768             14.18427          5
## 769              3.46700          5
## 771             14.18427          2
## 772              1.74300          2
## 773              1.42500          4
## 774              1.91300          2
## 775             14.18427          5
## 776             14.18427          5
## 777             14.18427          5
## 778              1.08700          5
## 779             14.18427          4
## 780              2.87100          5
## 781             14.18427          2
## 782             14.18427          5
## 784             14.18427          5
## 785             14.18427          5
## 786              0.94600          2
## 787             14.18427          5
## 788              3.08200          6
## 789             14.18427          5
## 791             22.93400          5
## 793              3.50700          5
## 794              0.97500          2
## 795              3.16600          5
## 798              2.20100          2
## 799              4.58800          6
## 800              4.86700          5
## 801             14.18427          5
## 802              2.14600          2
## 803             14.18427          2
## 805              2.03700          4
## 808             10.70200          5
## 809              2.70500          5
## 810             14.18427          5
## 811              2.26000          4
## 812             14.18427          5
## 813              2.70100          5
## 814              2.65000          6
## 815             14.18427          5
## 817              3.61400          2
## 818             14.18427          6
## 820              5.85100          5
## 821              3.61500          5
## 822             14.18427          5
## 823             14.18427          5
## 825             14.18427          5
```

```
## 826            2.57900      5
## 827            3.55200      2
## 828           14.18427      5
## 829            2.44700      2
## 830            2.07400      2
## 831            4.31100      5
## 832            4.16300      5
## 834           14.18427      4
## 835            4.33900      5
## 837           14.18427      5
## 838            4.99800      5
## 840            1.32600      2
## 841            2.88400      5
## 842            1.97200      2
## 843           14.18427      5
## 844           14.18427      5
## 845           14.18427      4
## 847            2.12700      2
## 848            1.71800      5
## 850            1.80100      4
## 851           14.18427      5
## 852            2.08900      2
## 853            3.17100      6
## 854            1.75800      2
## 857           14.18427      5
## 858            2.92800      2
## 859           14.18427      5
## 861            1.94800      2
## 863           14.18427      5
## 864            3.00800      2
## 865           14.18427      4
## 866            3.03500      5
## 867            2.08800      4
## 868            1.66200      5
## 869            1.44500      2
## 870            4.36500      5
## 871            5.07300      5
## 872           18.25000      5
## 873           14.18427      6
## 874            2.65000      5
## 875            2.74700      5
## 876            3.31300      2
## 877            2.48500      5
## 879           14.18427      4
## 880           14.18427      5
## 881            1.83300      5
## 882           14.18427      1
## 883            6.42200      5
## 884        85253.99000      7
## 885           14.18427      6
## 887           22.10000      5
## 888           14.18427      2
## 889           14.18427      5
## 890            3.00200      2
```

```
## 891                   2.53600            5
## 892                   1.83200            2
## 893                  32.89000            5
## 894                   2.39000            2
## 895                   3.40500            2
## 896                  14.18427            2
## 897                   4.26500            5
## 899                   3.98400            5
## 900                   2.55200            2
## 901                  14.18427            4
## 903                   2.22400            4
## 904                   3.84000            5
## 906                  22.88000            5
## 907                   2.65500            2
## 908                  14.18427            5
## 910                  14.18427            6
## 911                   4.13300            5
## 913                   2.32200            2
## 914                   2.07000            5
## 915                   2.38100            2
## 916                  20.11000            5
## 918                  14.18427            6
## 919                   4.61200            2
## 920                   2.19200            2
## 921                   3.21100            5
## 922                   4.19400            5
## 924                   2.00900            2
## 925                   3.23700            5
## 928                  14.18427            5
## 929                  14.18427            2
## 930                  15.78000            5
## 931                  14.18427            2
## 932                  14.18427            5
## 938                  21.43000            5
## 940                   4.83100            6
## 941                   1.79600            5
## 942                   2.24900            4
## 945                   2.20500            2
## 946                   2.83300            4
## 948                   1.99100            6
## 949                  14.18427            5
## 950                  14.18427            1
## 951                   3.63000            6
## 953                   1.94000            5
## 954                   1.75300            2
## 955                  14.18427            4
## 957                  14.18427            6
## 959                   2.19600            5
## 961                  14.18427            5
## 962                   4.24600            5
## 964                   2.25900            5
## 965                   3.99000            5
## 966                   1.85400            4
## 967                  14.18427            5
```

```
## 968            4.00800    2
## 969           14.18427    2
## 970           14.18427    5
## 971            5.40000    2
## 973            1.57400    5
## 974            2.04800    5
## 975            7.49000    5
## 976            2.35100    2
## 978            1.42000    2
## 980            4.26100    5
## 981            3.11000    5
## 983            1.15100    2
## 984            2.28700    4
## 985           14.18427    4
## 986            3.93000    5
## 988            1.46700    4
## 991            3.22400    2
## 992           14.18427    6
## 994           14.18427    2
## 995            3.22900    6
## 998           14.18427    5
## 999            5.18100    5
## 1002           3.71700    5
## 1003           1.49100    2
## 1004           1.45400    5
## 1005           3.36200    2
## 1006          13.52800    5
## 1007          14.18427    5
## 1008           2.19200    5
## 1009          14.18427    2
## 1010          14.18427    4
## 1011          14.18427    5
## 1012          14.18427    5
## 1013           2.21200    2
## 1014           3.52000    5
## 1015           2.01100    2
## 1016           1.94000    5
## 1017          14.18427    2
## 1019          14.18427    5
## 1022          14.18427    5
## 1023          15.31400    5
## 1026          14.18427    5
## 1027           3.96200    5
## 1028           3.09300    5
## 1030           4.46100    2
## 1031          14.18427    5
## 1033          14.18427    5
## 1034          14.18427    5
## 1035           3.11400    2
## 1037           2.15700    2
## 1040           6.63300    5
## 1041           2.01800    5
## 1042           7.71000    5
## 1043           3.43000    5
```

```
## 1044            14.18427        6
## 1045            14.18427        5
## 1048             3.25800        5
## 1049             1.22500        2
## 1050             4.63500        5
## 1051             5.01600        5
## 1052             2.55600        5
## 1053             1.49000        2
## 1054            14.18427        4
## 1057             5.46800        5
## 1058             1.95000        4
## 1059             2.76000        5
## 1060             2.33200        2
## 1061            14.18427        5
## 1062            14.18427        5
## 1063             1.44200        2
## 1064             2.15500        2
## 1065             1.50000        2
## 1066            14.18427        6
## 1067             2.21500        4
## 1069             3.05300        5
## 1070             3.93600        5
## 1071            10.60700        5
## 1074            14.18427        5
## 1076             5.16600        5
## 1079            14.18427        5
## 1081            14.18427        4
## 1082             0.41000        5
## 1083            14.18427        5
## 1084            14.18427        2
## 1085            14.18427        5
## 1086             2.48400        4
## 1087             1.97000        2
## 1088            14.18427        6
## 1089            14.18427        5
## 1090             2.05600        2
## 1091             3.16200        5
## 1093             3.73800        5
## 1094             4.53800        5
## 1095             4.48200        6
## 1096             1.81400        2
## 1098            21.40000        5
## 1101             1.32800        2
## 1103             4.00900        6
## 1104             1.74700        2
## 1106             2.15200        5
## 1109             2.03800        4
## 1112             4.09200        5
## 1113             3.23900        5
## 1114             4.18800        2
## 1117            13.67400        5
## 1118            14.18427        5
## 1119             1.40100        2
## 1120             4.67100        5
```

```
## 1122             3.25700        2
## 1123            24.89100        5
## 1124            14.18427        5
## 1125             3.50100        2
## 1126             3.51200        5
## 1128             6.61400        5
## 1129             4.22100        5
## 1130            13.84000        5
## 1132             1.18800        5
## 1133             1.33000        2
## 1134            14.18427        5
## 1136            14.18427        5
## 1138             1.05900        2
## 1139            14.18427        2
## 1140            13.97900        5
## 1141            14.18427        3
## 1142             1.93300        4
## 1144            10.36500        5
## 1145             8.69200        5
## 1146             3.63200        2
## 1147            14.18427        5
## 1150             3.81400        5
## 1151            14.18427        1
## 1152             3.51800        4
## 1153            14.18427        5
## 1154             3.78000        6
## 1156             3.00300        2
## 1157             4.83100        5
## 1160            14.18427        5
## 1161             2.78300        2
## 1162            14.65800        5
## 1163             2.69000        2
## 1164             3.84900        5
## 1165            11.56100        5
## 1166            14.18427        5
## 1167             3.31600        5
## 1168             3.88900        5
## 1169            10.22700        5
## 1170            14.18427        4
## 1171            14.18427        5
## 1172            14.18427        5
## 1173             1.42200        2
## 1174             4.79800        6
## 1175            14.18427        2
## 1176            14.18427        6
## 1178             2.67500        6
## 1180             1.88900        4
## 1181             7.22700        5
## 1182            10.08900        5
## 1184             4.48700        5
## 1185             1.32000        2
## 1186             1.93100        2
## 1187            14.18427        5
## 1188             2.93400        2
```

```
## 1190               2.10100      2
## 1191              14.09700      5
## 1192               1.76300      2
## 1193              14.18427      5
## 1194              14.18427      4
## 1195              14.18427      5
## 1198               2.75100      2
## 1200              14.18427      2
## 1201              24.45500      5
## 1202              14.18427      5
## 1203              14.18427      5
## 1204               2.64000      2
## 1205              14.18427      5
## 1206               5.05600      5
## 1207               2.34500      2
## 1208              14.18427      2
## 1209              14.18427      5
## 1210              22.75500      5
## 1212               9.99500      5
## 1213               4.09400      2
## 1214               1.63700      2
## 1215               9.37700      5
## 1216              16.16300      5
## 1217              14.18427      5
## 1218               1.50800      2
## 1219              14.18427      5
## 1222              14.18427      6
## 1223               3.17800      5
## 1224              14.18427      5
## 1225               2.74500      2
## 1226              14.18427      6
## 1228               3.80100      5
## 1229               1.50200      5
## 1230               3.79600      5
## 1232               3.88500      5
## 1233              14.18427      2
## 1234               6.78300      5
## 1235               4.21700      5
## 1236               4.32900      5
## 1237               1.62400      2
## 1239              20.62000      5
## 1240               2.11200      2
## 1241              14.18427      5
## 1242               6.62000      5
## 1243              14.18427      2
## 1246               3.74000      5
## 1247               1.57100      2
## 1248               2.11500      5
## 1250              11.58600      5
## 1251              14.18427      4
## 1255               1.86100      2
## 1256              14.18427      6
## 1258               2.63600      2
## 1260               5.54300      5
```

```
## 1261                3.87200         5
## 1262                3.60500         5
## 1263                8.84600         5
## 1264               14.18427         2
## 1266                1.82200         2
## 1267                3.42100         5
## 1268                4.18100         2
## 1271               14.18427         5
## 1272               14.18427         2
## 1273                1.70100         2
## 1274                2.08600         2
## 1275                1.95100         4
## 1276               23.65100         5
## 1277                9.45000         5
## 1278                2.57700         5
## 1279               14.18427         4
## 1280                2.64100         2
## 1282                3.78400         2
## 1283               18.90300         5
## 1284                1.74900         2
## 1285               14.18427         4
## 1289               14.18427         5
## 1290                3.50300         5
## 1292                1.68700         5
## 1293                4.40100         5
## 1295               23.65700         5
## 1296               14.18427         6
## 1297                5.05500         5
## 1298               14.18427         5
## 1300                3.60400         5
## 1301               14.18427         4
## 1302               14.18427         6
## 1303               15.75700         5
## 1304                3.26600         5
## 1308                0.42100         5
## 1309                2.27400         2
## 1310               14.18427         5
## 1311               14.18427         6
## 1314               23.74600         5
## 1315               14.18427         5
## 1316                8.77800         5
## 1317               14.18427         3
## 1321               10.19500         5
## 1322               14.18427         4
## 1323                2.96900         5
## 1324                2.90400         2
## 1325               14.18427         2
## 1326                4.08000         5
## 1327               14.18427         5
## 1328                3.19200         4
## 1329                2.06600         5
## 1330                2.06200         5
## 1332               15.13900         5
## 1333                1.72400         2
```

```
## 1335               14.18427          2
## 1336                1.72900          2
## 1337               14.18427          2
## 1338                4.18800          2
## 1339                1.74300          4
## 1340               14.18427          5
## 1341                2.92900          2
## 1342               14.18427          5
## 1343               14.18427          5
## 1345                3.02500          5
## 1346               14.18427          6
## 1347                3.05700          2
## 1348                2.20400          5
## 1349                3.42900          4
## 1350                3.19800          5
## 1351               67.78700          5
## 1352                2.93600          5
## 1353                1.79300          4
## 1354               14.18427          5
## 1355               14.18427          5
## 1357                5.10400          5
## 1358                1.93700          4
## 1359                4.43900          5
## 1360                1.09400          2
## 1361               14.18427          4
## 1362                3.19800          2
## 1363                1.88000          4
## 1364                3.16700          5
## 1365               11.50000          5
## 1366                1.45200          2
## 1367               14.18427          6
## 1368                4.59000          5
## 1370                4.23300          5
## 1371                3.41000          5
## 1372                4.63700          5
## 1373               14.18427          4
## 1374               14.18427          4
## 1376               14.18427          5
## 1377               14.18427          6
## 1379               14.18427          2
## 1380               14.18427          4
## 1381                3.53000          5
## 1383                2.38400          2
## 1384                3.39700          5
## 1385               14.18427          4
## 1386                3.69000          5
## 1387               14.18427          5
## 1388               14.18427          5
## 1389                3.57200          5
## 1390               14.18427          5
## 1391               14.18427          5
## 1392                3.22000          5
## 1394                5.00600          5
## 1396               14.18427          2
```

```
## 1398           14.18427      5
## 1400           14.18427      2
## 1401            2.84400      2
## 1402            1.93900      4
## 1403            2.57800      5
## 1404           14.18427      5
## 1405            4.65600      5
## 1406           31.63000      5
## 1407            1.88600      4
## 1408           14.18427      4
## 1409            2.55300      5
## 1411            2.87400      5
## 1413           14.18427      5
## 1414            1.74800      2
## 1415           14.18427      5
## 1416            4.51300      5
## 1417            2.42800      2
## 1418            2.40500      5
## 1419            7.80800      6
## 1420           14.18427      5
## 1421            8.03100      5
## 1422            4.76100      5
## 1423            4.74900      5
## 1424            3.66900      5
## 1425           14.18427      5
## 1426            3.38300      4
## 1427           14.18427      2
## 1429           14.18427      5
## 1430            0.97200      2
## 1431            1.91800      5
## 1432            1.70800      2
## 1433            2.35700      2
## 1434            4.20300      5
## 1435            2.58300      4
## 1437            2.61500      5
## 1438           21.27900      5
## 1439            2.10000      2
## 1440           14.18427      2
## 1441            6.27400      5
## 1442            1.16400      2
## 1443            4.12200      5
## 1446           14.18427      6
## 1447           14.18427      5
## 1449            1.89200      4
## 1450            1.98000      4
## 1452            2.77000      2
## 1453            2.66100      5
## 1454            2.65400      5
## 1455            3.89800      5
## 1457            1.93900      5
## 1458            1.94000      2
## 1459            2.25600      5
## 1460            1.75900      4
## 1461            1.40300      2
```

```
## 1462                1.04800         4
## 1463                1.49300         4
## 1464               14.18427         5
## 1465               14.18427         5
## 1466               14.18427         5
## 1467                2.76400         6
## 1468                3.87100         2
## 1469               14.18427         2
## 1470               10.08800         5
## 1471                2.78400         5
## 1472                2.14700         5
## 1473                4.43900         5
## 1475               14.18427         6
## 1477                1.58900         2
## 1478               14.18427         4
## 1479                5.80900         5
## 1481               14.18427         5
## 1482                2.87200         5
## 1483                5.68400         5
## 1484               14.18427         6
## 1486               14.18427         5
## 1488               14.18427         5
## 1489                2.70400         5
## 1490                1.71200         2
## 1491               14.18427         5
## 1492               14.18427         4
## 1493               10.77300         5
## 1494               14.18427         2
## 1495               14.18427         5
## 1496               14.18427         2
## 1497                1.84300         4
## 1498                3.46400         5
## 1499               14.18427         5
## 1500                4.91500         5
## 1501                2.89500         2
## 1502                1.20400         2
## 1504               14.18427         4
## 1505                2.78800         4
## 1507               14.18427         5
## 1508                4.87500         2
## 1509               11.27800         5
## 1510                2.77000         5
## 1512                2.84200         5
## 1513               14.18427         2
## 1514               17.86200         5
## 1516               14.18427         5
## 1517                6.10000         5
## 1518               14.18427         5
## 1519               14.18427         5
## 1520                3.17800         5
## 1521                4.34000         6
## 1522                5.06500         5
## 1524                3.99300         2
## 1526               14.18427         1
```

```
## 1529            4.32800       5
## 1530            3.44400       2
## 1531            3.01500       5
## 1532           14.18427       5
## 1533            8.74400       5
## 1534            4.48600       5
## 1535            4.66000       5
## 1536           14.18427       6
## 1537            4.26100       5
## 1539           14.18427       5
## 1540            4.72900       5
## 1541            4.64300       5
## 1543           14.18427       5
## 1545            2.48500       5
## 1546            0.87000       2
## 1548            1.85100       2
## 1549            4.26700       5
## 1550           14.18427       5
## 1551           14.18427       3
## 1552            2.22800       4
## 1553            2.13000       2
## 1554            2.99100       5
## 1556            3.39100       2
## 1557            4.40600       5
## 1558            4.45500       5
## 1561            4.61600       5
## 1562            2.80200       2
## 1563            2.94000       5
## 1564           16.24000       5
## 1565            3.96800       5
## 1566           14.18427       6
## 1567            2.97700       2
## 1568           14.18427       2
## 1569            1.48200       5
## 1570            8.14900       5
## 1571           14.18427       5
## 1572           14.18427       5
## 1573            1.31500       2
## 1574           14.18427       5
## 1575            3.89600       5
## 1576           14.18427       5
## 1579            1.83300       2
## 1581           14.18427       2
## 1582            2.40500       5
## 1584           14.18427       5
## 1585           14.18427       5
## 1586            1.39500       2
## 1587            3.53500       2
## 1588           14.18427       5
## 1589            2.39000       2
## 1590           14.27000       5
## 1591            6.30500       5
## 1594            2.69600       5
## 1595           12.70100       5
```

```
## 1596             2.36500      5
## 1598            14.18427      5
## 1599            14.18427      1
## 1600             4.19900      6
## 1601            14.18427      4
## 1602            14.18427      4
## 1604            14.18427      2
## 1605             5.27400      5
## 1607             1.22100      2
## 1608             3.20200      2
## 1610             4.05300      2
## 1611             3.19900      5
## 1613             4.07000      5
## 1614            14.18427      2
## 1615            14.18427      5
## 1616            14.18427      4
## 1617             2.59600      5
## 1618             1.91600      2
## 1619             3.79300      5
## 1621             4.50500      2
## 1622            14.18427      5
## 1623            14.18427      5
## 1625             4.14900      2
## 1626             2.30500      5
## 1629             2.05500      2
## 1630            14.18427      2
## 1631            14.18427      2
## 1632            14.18427      2
## 1633             3.51100      5
## 1634             3.53300      5
## 1635             2.32400      2
## 1638            14.18427      4
## 1639             2.44400      4
## 1640             1.54200      5
## 1641             2.26700      4
## 1642            22.67000      5
## 1645             1.28800      2
## 1646             1.43700      2
## 1647             4.67300      5
## 1648            14.18427      4
## 1649            14.18427      4
## 1650             5.00300      2
## 1651            14.18427      1
## 1652            14.18427      6
## 1655             3.68300      2
## 1656             4.19900      2
## 1657            14.18427      5
## 1658             3.24800      5
## 1659             2.76300      2
## 1660            14.18427      2
## 1663             1.95200      2
## 1664             2.97700      2
## 1671             4.23500      2
## 1672             3.47000      5
```

```
## 1673             2.57500         2
## 1674             2.56700         2
## 1675             1.77300         2
## 1676             3.00300         2
## 1677             1.62700         2
## 1681             2.46800         2
## 1682             2.48500         5
## 1683             2.10000         5
## 1685            14.18427         6
## 1687             5.13400         5
## 1689            14.18427         5
## 1690             2.69700         5
## 1692            14.18427         4
## 1693             2.66600         5
## 1695             4.38000         5
## 1697            10.21000         5
## 1698             7.91800         5
## 1701            14.18427         5
## 1702             5.55300         2
## 1704             2.44300         2
## 1705             1.83700         4
## 1707            19.61300         5
## 1708             3.12300         5
## 1710            14.18427         5
## 1711             1.30600         2
## 1712            14.18427         5
## 1713           157.38300         5
## 1714            14.18427         5
## 1715            14.18427         4
## 1717             4.63000         5
## 1718             1.96500         4
## 1719            14.18427         5
## 1720            15.64200         5
## 1721             4.85800         5
## 1722             6.85200         5
## 1723            14.18427         5
## 1726            14.18427         4
## 1727             3.56600         5
## 1728             2.44700         2
## 1730             3.03900         6
## 1731            17.51600         5
## 1732            14.18427         2
## 1733             2.29100         5
## 1734             3.49400         2
## 1735            14.18427         1
## 1736             3.02400         2
## 1739             4.02100         5
## 1741            14.18427         5
## 1742             3.90600         5
## 1743             1.70000         2
## 1744             4.01900         5
## 1745            14.18427         4
## 1746             3.73300         2
## 1747             2.38100         2
```

```
## 1748              2.17000        5
## 1749              2.27200        5
## 1750              2.57200        5
## 1751             14.18427        5
## 1752              4.23200        5
## 1753             14.18427        1
## 1755              2.67500        5
## 1756             14.18427        1
## 1759              2.63800        2
## 1760              2.71600        5
## 1761              2.88600        2
## 1762             14.18427        5
## 1764              4.26000        5
## 1765              3.01400        5
## 1766             14.18427        5
## 1767              5.72800        5
## 1768             14.18427        5
## 1771             11.57300        6
## 1772             14.18427        4
## 1773             14.18427        5
## 1774             14.18427        5
## 1776              2.26200        5
## 1777              2.25700        4
## 1778              3.67500        2
## 1780              3.29700        4
## 1781             14.18427        5
## 1782              1.90100        2
## 1783              4.27900        5
## 1784              3.86400        5
## 1785              3.85000        5
## 1786             10.03800        5
## 1788              1.76300        2
## 1789              7.08800        5
## 1792              3.39300        5
## 1793              3.52800        2
## 1794             14.18427        5
## 1795              0.93500        5
## 1796             14.18427        5
## 1798              4.71200        5
## 1800             14.18427        5
## 1805             14.18427        2
## 1806              5.37000        5
## 1807              2.94800        5
## 1808              4.64200        2
## 1809              4.69500        5
## 1810             14.18427        2
## 1811              5.62800        5
## 1812             14.18427        5
## 1814             14.18427        5
## 1815              2.02600        5
## 1816              2.69200        5
## 1817             14.18427        4
## 1820             14.18427        5
## 1822              1.38900        2
```

```
## 1826               3.92100      5
## 1827               5.37000      5
## 1828               3.21000      5
## 1829               3.27500      5
## 1833               2.22200      2
## 1834              14.18427      5
## 1835               5.87400      5
## 1836               6.93100      5
## 1837              22.82100      5
## 1838              14.18427      5
## 1839               2.56100      2
## 1840               4.18300      6
## 1841              14.18427      5
## 1842               3.84900      2
## 1845              14.18427      4
## 1846              14.18427      5
## 1849               2.11400      5
## 1850              14.18427      5
## 1851               6.51800      5
## 1853               3.78000      5
## 1854               2.83400      4
## 1855               5.96400      5
## 1856               1.49100      5
## 1858               1.85200      2
## 1860              14.18427      2
## 1861               4.14200      5
## 1862               2.82000      5
## 1863               4.96300      5
## 1867               2.84400      5
## 1868               1.85800      4
## 1870               2.71500      4
## 1871               6.41200      5
## 1872               7.26000      5
## 1873               2.78800      5
## 1874               4.94000      5
## 1875               3.50200      2
## 1876              14.18427      2
## 1877              14.18427      5
## 1880              11.37300      5
## 1881              14.18427      5
## 1882               3.80200      5
## 1883               3.67900      2
## 1884              14.18427      6
## 1885              14.18427      2
## 1886              14.18427      6
## 1888              14.18427      5
## 1890               6.02000      5
## 1893              14.18427      5
## 1895               2.33800      2
## 1897              14.18427      5
## 1898               3.11800      2
## 1899               3.14300      6
## 1900               7.37100      5
## 1901               3.17200      5
```

```
## 1903            14.18427        5
## 1904            17.67800        5
## 1906             3.93000        5
## 1907             3.19200        2
## 1908            14.18427        2
## 1909            14.18427        4
## 1910            10.86600        5
## 1911            14.18427        5
## 1912            17.90400        5
## 1913             2.99800        2
## 1915             4.53600        6
## 1916             7.57800        6
## 1917            14.18427        1
## 1919            14.18427        5
## 1922            14.18427        5
## 1924            14.18427        5
## 1926            14.18427        5
## 1927             3.27900        5
## 1928            14.18427        6
## 1929             3.55100        4
## 1930             3.36900        5
## 1931             4.72000        5
## 1932            14.18427        5
## 1933            14.18427        5
## 1934            14.18427        4
## 1935            14.18427        5
## 1936             2.57700        5
## 1937            16.92600        5
## 1938             3.46300        2
## 1939             3.89200        2
## 1940             1.10400        2
## 1941            14.18427        5
## 1943            14.18427        2
## 1944            14.18427        6
## 1945            38.06100        5
## 1946             4.27000        5
## 1947             2.62000        5
## 1948             3.22400        2
## 1950            14.18427        5
## 1951            14.18427        2
## 1953            14.18427        4
## 1954             6.09000        5
## 1955             3.33700        4
## 1957            14.18427        5
## 1958             4.59300        5
## 1959            14.18427        2
## 1960             4.44000        5
## 1961             2.24700        5
## 1963             2.96300        2
## 1964            14.18427        4
## 1966            14.18427        5
## 1967             2.87000        2
## 1968             7.98400        5
## 1969            72.85900        5
```

```
## 1970                3.44800           5
## 1971               10.35000           5
## 1972               14.18427           2
## 1973                2.47900           5
## 1975                2.30600           4
## 1976               14.18427           4
## 1977               14.18427           5
## 1978                5.31000           5
## 1979                5.23100           2
## 1980               14.18427           5
## 1982                2.30900           2
## 1983               14.18427           4
## 1985                3.38500           5
## 1986               14.18427           4
## 1987               24.44600           5
## 1989                3.45000           5
## 1990               14.18427           5
## 1991               11.56500           5
## 1992                2.03400           2
## 1993               14.18427           5
## 1995                7.07000           5
## 1996                1.90300           2
## 2000               14.18427           5
## 2002                2.23000           4
## 2004               14.18427           2
## 2006                1.52600           2
## 2007                3.14000           5
## 2008                2.27100           4
## 2009                8.56100           5
## 2011               16.33300           5
## 2012                3.73100           4
## 2014               14.18427           5
## 2015                5.10900           5
## 2016                3.72300           5
## 2018                5.20300           5
## 2019                2.21000           2
## 2020                6.20200           5
## 2021                1.55600           2
## 2022                3.25000           5
## 2023                4.23900           5
## 2024                1.51900           2
## 2025               14.18427           5
## 2026                0.97400           2
## 2027               14.18427           5
## 2029                2.76700           4
## 2030               14.18427           4
## 2033               14.18427           2
## 2036               14.18427           5
## 2038                4.76000           5
## 2039               14.18427           5
## 2040               14.18427           2
## 2041                4.25400           5
## 2043               14.18427           2
## 2045                2.77100           2
```

```
## 2046              2.84800       5
## 2048             14.18427       5
## 2051              5.58700       5
## 2052             15.73800       5
## 2053              1.86500       2
## 2055             14.18427       5
## 2056             14.18427       4
## 2057              2.34900       2
## 2058              3.48300       5
## 2059             14.18427       4
## 2061             14.18427       5
## 2062              2.31700       4
## 2063              3.86200       5
## 2064             14.18427       5
## 2065              1.44700       5
## 2066              3.96900       5
## 2067             18.23700       5
## 2068              2.13600       2
## 2069              1.54400       2
## 2070              1.77600       2
## 2071              4.26700       2
## 2072             14.18427       5
## 2073              2.31200       2
## 2074             14.18427       5
## 2076              4.87400       5
## 2077              2.77900       5
## 2078             14.18427       5
## 2080             14.18427       5
## 2083              3.27900       2
## 2084              1.84300       2
## 2085             14.18427       5
## 2086             14.18427       4
## 2087              2.47800       2
## 2088             14.18427       6
## 2089             14.83800       5
## 2091             14.18427       2
## 2092              0.89100       2
## 2093             14.18427       5
## 2095             14.18427       6
## 2096             14.18427       5
## 2098              1.77600       2
## 2099             14.18427       5
## 2100             10.08500       5
## 2101             14.18427       5
## 2105              2.56200       4
## 2106              3.93000       5
## 2109              2.23200       2
## 2111             14.18427       5
## 2112             14.18427       6
## 2114             22.85400       5
## 2115              3.56600       5
## 2116             14.18427       5
## 2117              4.24200       6
## 2119             14.18427       5
```

```
## 2121                 2.22500          4
## 2122                 1.41100          2
## 2123                14.18427          6
## 2125                 3.17100          4
## 2127                 4.68300          5
## 2128                14.18427          5
## 2129                 2.73500          4
## 2130                14.18427          5
## 2131                 2.22600          2
## 2132                14.18427          5
## 2133                14.18427          5
## 2135                14.18427          4
## 2136                 2.37300          5
## 2137                14.18427          1
## 2139                14.18427          5
## 2140                 2.35600          5
## 2141                14.18427          5
## 2143                 3.68600          4
## 2146                 0.70400          2
## 2147                14.18427          6
## 2148                14.18427          6
## 2149                 0.23800          5
## 2150                 3.91100          5
## 2151                 4.27300          5
## 2153                 2.13200          4
## 2154                 2.97100          5
## 2155                 1.35900          2
## 2159                15.27000          5
## 2160                14.18427          6
## 2162                14.18427          5
## 2163                 5.85000          5
## 2164                 2.09400          5
## 2165                 4.28600          5
## 2166                 2.29700          2
## 2167                 1.68700          4
## 2168                 2.81100          5
## 2169                14.18427          5
## 2170                 2.74800          2
## 2171                 9.74100          5
## 2172                 5.59600          5
## 2174                 2.03800          4
## 2175                17.71600          5
## 2176                14.18427          5
## 2177                 3.22000          5
## 2178                14.18427          5
## 2182                14.18427          5
## 2183                 1.87800          5
## 2184                 2.99500          5
## 2186                 6.89000          5
## 2187                 2.43100          2
## 2190                14.18427          4
## 2192                16.78500          5
## 2193                14.18427          5
## 2194                14.18427          5
```

```
## 2196            6.49500       5
## 2197            2.82200       5
## 2198           29.24000       5
## 2199            3.65000       2
## 2200            1.57100       2
## 2202           14.18427       6
## 2203           14.18427       2
## 2204            3.63600       5
## 2205            6.21300       2
## 2206          214.97300       5
## 2207            1.13100       2
## 2208            2.57100       4
## 2209            2.47800       2
## 2210            1.84500       2
## 2211           14.18427       5
## 2212           14.18427       5
## 2213           14.18427       6
## 2214           14.18427       2
## 2216            2.49900       2
## 2217           14.18427       5
## 2218            1.43400       2
## 2219            3.23800       5
## 2220           14.18427       1
## 2222            1.72100       5
## 2223            2.17700       5
## 2224            3.29500       5
## 2225           14.18427       4
## 2226            3.64700       5
## 2229           14.18427       5
## 2230            3.85400       5
## 2231            2.62500       5
## 2232           14.18427       4
## 2233            4.39800       5
## 2235            2.20100       4
## 2236           14.18427       2
## 2237            1.95300       4
## 2238            0.72700       2
## 2239            5.71000       5
## 2240            3.13400       2
## 2241            7.54500       5
## 2242            3.20600       2
## 2243           14.18427       5
## 2245            2.76700       5
## 2246            4.96700       5
## 2247           14.18427       5
## 2248           14.18427       5
## 2249            5.06700       5
## 2250           14.18427       5
## 2251           14.18427       5
## 2252           14.18427       2
## 2253            3.24000       5
## 2254            3.68400       5
## 2257           14.18427       5
## 2258            2.27400       2
```

```
## 2259           14.18427        5
## 2261           14.18427        6
## 2262            3.46000        5
## 2264            2.44600        2
## 2265           14.18427        5
## 2266            4.90300        5
## 2267            2.58700        2
## 2268           14.18427        4
## 2270            3.87900        5
## 2271            5.12600        5
## 2272            3.01700        5
## 2276            6.10900        5
## 2277           14.18427        5
## 2278            3.71300        4
## 2279            2.93000        5
## 2280           14.18427        6
## 2281           14.18427        5
## 2282            3.36400        5
## 2283           14.18427        5
## 2285            1.58900        4
## 2286            3.13800        2
## 2288            1.88100        4
## 2289            2.02000        5
## 2290            3.86300        5
## 2293           14.18427        2
## 2294            1.34000        5
## 2295            1.65400        2
## 2296           14.18427        4
## 2297            2.10600        5
## 2298            2.95300        4
## 2302           14.18427        5
## 2303           14.18427        5
## 2304            6.15500        5
## 2305           14.18427        6
## 2306           14.18427        4
## 2308           14.18427        5
## 2309            2.85900        4
## 2311           14.18427        5
## 2312           14.18427        4
## 2313            2.22800        5
## 2314           14.18427        5
## 2315           14.18427        2
## 2317            3.19800        5
## 2318           14.18427        5
## 2320           14.18427        4
## 2321            1.89900        4
## 2322            2.00200        5
## 2323           14.18427        5
## 2324           14.18427        2
## 2325           14.18427        4
## 2326            9.82400        5
## 2327            4.09400        5
## 2328           14.18427        4
## 2329            1.41900        4
```

```
## 2331                      1.33600               2
## 2332                      4.33800               5
## 2333                     14.18427               5
## 2334                      1.47700               2
## 2335                      2.70000               6
## 2337                     22.33100               5
## 2338                     14.18427               5
## 2339                      3.51800               5
## 2340                      2.32700               4
## 2342                      5.68100               5
## 2343                      3.03100               5
## 2346                     14.18427               5
## 2347                     14.18427               2
## 2348                      3.66300               5
## 2350                      4.51200               5
## 2351                      5.55800               5
## 2352                      4.67000               5
## 2353                      2.58700               2
## 2354                      5.85400               5
## 2355                      1.47000               2
## 2356                     13.07600               5
## 2357                      4.14000               5
## 2358                      1.91400               2
## 2361                     14.18427               4
## 2362                      5.31900               5
## 2363                     14.18427               5
## 2364                     14.18427               5
## 2365                      6.75900               5
## 2366                      3.30900               2
## 2368                     14.18427               5
## 2369                     14.18427               4
## 2370                      5.93000               5
## 2371                      4.45900               4
## 2372                      2.79000               5
## 2373                      2.73700               2
## 2374                     14.18427               5
## 2375                      4.58000               6
## 2376                      2.77500               5
## 2378                     14.18427               5
## 2379                      1.57300               5
## 2381                      4.52400               6
## 2383                     14.18427               5
## 2384                      9.96400               5
## 2387                      8.01100               5
## 2389                     14.18427               5
## 2390                      3.56000               5
## 2391                      3.33200               5
## 2392                     14.18427               6
## 2393                     10.16700               5
## 2394                      1.01600               2
## 2395                      3.01600               5
## 2396                      3.08800               5
## 2398                      2.27000               4
## 2400                     14.18427               5
```

```
## 2401          6.67000        5
## 2402          2.83900        4
## 2403          2.41900        4
## 2404          2.33900        2
## 2405          2.47500        4
## 2407          2.36600        4
## 2408          4.58800        5
## 2409         14.18427        2
## 2410         14.18427        5
## 2411          3.63300        5
## 2412         14.18427        5
## 2413          1.34000        2
## 2417         14.18427        5
## 2418          3.77200        5
## 2419         14.18427        5
## 2420          1.30900        2
## 2421          1.77100        4
## 2424         14.18427        6
## 2425          1.37000        4
## 2427         14.18427        5
## 2428         14.18427        5
## 2430          4.40000        2
## 2431          2.47300        5
## 2432         14.18427        5
## 2433          4.37000        6
## 2434         14.18427        5
## 2435          2.04400        2
## 2436          5.12300        6
## 2437          2.02000        4
## 2439          3.39700        5
## 2440          2.42900        5
## 2441          2.36400        5
## 2444          4.47300        5
## 2445          3.62100        5
## 2446          3.57600        5
## 2447          3.38000        4
## 2448         14.18427        1
## 2450         14.18427        4
## 2451         14.18427        5
## 2454          9.60300        5
## 2455         11.01100        5
## 2456          2.30700        6
## 2457          2.88600        5
## 2458         14.18427        5
## 2459          2.54400        5
## 2461          3.54800        5
## 2462         14.18427        5
## 2464          4.03800        2
## 2465          1.45600        2
## 2466          3.29300        5
## 2467          1.41900        2
## 2468          4.00100        5
## 2472          5.66300        5
## 2473         17.08900        5
```

```
## 2474            2.17900          2
## 2475           14.18427          2
## 2476            4.59000          6
## 2478            1.87000          5
## 2479            4.39600          2
## 2480           14.18427          5
## 2481           14.18427          4
## 2482           13.02900          5
## 2485           15.09600          5
## 2486           14.18427          5
## 2490            4.02700          5
## 2492           14.18427          5
## 2493            4.29900          5
## 2495            1.70700          4
## 2496            2.50200          2
## 2497            5.74200          5
## 2498           14.18427          5
## 2500            5.15600          5
## 2503           14.18427          5
## 2504           14.18427          2
## 2505            2.29900          2
## 2506            5.51000          5
## 2507            2.54900          2
## 2508            4.00800          4
## 2509            2.60200          2
## 2510            1.62400          2
## 2511            5.24900          5
## 2512            1.22800          2
## 2513           14.18427          2
## 2514            4.57000          5
## 2516            1.65000          4
## 2517            3.20600          5
## 2519            2.00100          4
## 2520            2.23700          1
## 2522            1.57500          2
## 2523            2.44200          2
## 2524            3.37700          2
## 2525            6.73000          5
## 2526           14.18427          6
## 2527            2.70600          4
## 2528           14.18427          5
## 2529           14.18427          5
## 2530            2.40800          5
## 2531           14.18427          6
## 2533            3.85200          5
## 2534            2.37800          2
## 2537            3.45400          5
## 2538            1.98700          2
## 2539            2.73400          5
## 2540            5.11600          5
## 2541            5.06400          5
## 2542            1.54100          2
## 2543            1.84500          2
## 2544            2.31200          2
```

```
## 2546                3.86000          5
## 2547               14.18427          2
## 2548                2.52500          5
## 2549               14.18427          5
## 2553               14.18427          5
## 2554                3.60000          6
## 2555                2.55700          5
## 2556                1.75600          2
## 2558               16.12400          5
## 2560               14.18427          1
## 2561                2.73500          5
## 2564               14.18427          4
## 2565                3.53800          2
## 2566                9.50000          5
## 2567                1.98100          2
## 2568                4.23200          2
## 2570                4.64200          5
## 2571                1.31800          5
## 2572                1.79700          4
## 2574                4.52500          5
## 2575                1.40500          4
## 2576                3.87200          5
## 2577                2.37300          2
## 2580                1.48300          2
## 2584               14.18427          5
## 2585                2.51100          2
## 2586               12.20500          5
## 2587                1.46600          4
## 2588                4.87500          2
## 2589               14.18427          2
## 2590               14.18427          5
## 2593                2.81400          2
## 2594                6.52000          5
## 2595                4.16400          5
## 2596               14.18427          5
## 2597               14.18427          2
## 2598                2.31400          5
## 2599               14.18427          5
## 2600                3.80400          2
## 2601                4.08000          2
## 2602               14.18427          5
## 2603                2.07500          4
## 2605               14.18427          2
## 2606               14.18427          4
## 2607                3.76300          5
## 2608               14.18427          5
## 2609                4.09600          5
## 2611                2.38200          4
## 2612               14.18427          6
## 2614               14.18427          5
## 2615               14.18427          4
## 2616               14.18427          4
## 2617                3.62700          5
## 2618               24.87300          5
```

```
## 2619                4.11200           2
## 2620               23.06800           5
## 2621                3.22900           5
## 2625                1.41300           2
## 2626               14.18427           2
## 2627               14.18427           5
## 2628               14.18427           3
## 2629               14.18427           5
## 2630                3.73800           2
## 2631               14.18427           5
## 2632                4.48800           5
## 2633                6.70500           5
## 2634                2.31800           4
## 2635                4.01600           5
## 2636               14.18427           4
## 2637                1.88300           4
## 2639                3.97700           5
## 2640                2.36400           2
## 2641               14.18427           1
## 2642               18.06300           5
## 2644               14.18427           5
## 2645                1.56900           2
## 2646               14.18427           6
## 2647               14.21300           5
## 2648               14.18427           2
## 2650                3.05700           2
## 2651               13.21200           5
## 2654                2.46700           2
## 2655                1.75400           4
## 2656               14.18427           6
## 2659               14.18427           5
## 2660               14.18427           1
## 2661                6.31500           6
## 2662                7.80000           5
## 2663                3.96600           5
## 2664                5.82000           5
## 2666                3.40800           5
## 2667                1.12800           2
## 2668               14.18427           5
## 2672                3.77200           5
## 2673               14.18427           5
## 2674                2.54100           5
## 2675                8.80000           5
## 2676                5.46200           5
## 2677               14.18427           5
## 2678                6.49800           5
## 2679               14.18427           5
## 2680                2.51600           5
## 2682                2.68100           2
## 2685                1.79700           2
## 2689               15.72800           5
## 2690               14.18427           5
## 2691                4.10800           6
## 2692                4.49200           2
```

```
## 2693            2.60800      4
## 2694           14.18427      5
## 2695           14.18427      5
## 2696            2.74600      2
## 2697            2.50700      5
## 2699           14.18427      5
## 2700           14.18427      4
## 2701            4.09800      5
## 2702            2.58500      5
## 2704            3.32200      2
## 2705            2.39000      5
## 2706            3.81700      2
## 2707            2.46000      5
## 2708            4.62300      5
## 2709           14.18427      3
## 2711            4.99900      5
## 2712            2.56900      5
## 2714           14.18427      5
## 2715           14.18427      5
## 2716           14.18427      2
## 2717            4.47000      5
## 2718           14.18427      5
## 2719            1.17900      2
## 2720           11.04200      5
## 2721            3.22100      5
## 2722            2.13700      2
## 2723            1.93700      5
## 2724            3.38800      2
## 2725            2.33800      4
## 2728            1.49700      5
## 2729           14.18427      1
## 2730            1.87700      4
## 2731            3.17900      5
## 2732            4.85300      6
## 2733            2.86500      5
## 2734            2.24900      2
## 2735           14.18427      5
## 2737           14.18427      5
## 2739            2.72900      2
## 2741           14.18427      5
## 2742            9.69200      5
## 2743            3.39300      2
## 2745            2.69200      4
## 2746           14.18427      4
## 2747           14.18427      4
## 2748            3.26600      2
## 2749            1.57300      2
## 2750            4.99900      5
## 2751           14.18427      2
## 2752           14.18427      2
## 2753            1.63000      5
## 2754            3.87300      5
## 2757            3.06600      5
## 2758            7.18800      5
```

```
## 2759             25.44000       5
## 2761             14.18427       2
## 2762              1.68700       2
## 2763              4.94300       5
## 2765              2.68400       5
## 2766              3.63700       5
## 2767             12.97400       5
## 2768              1.93900       2
## 2769              4.03000       5
## 2770              4.10000       2
## 2771             14.18427       5
## 2772             18.30000       5
## 2775              3.56000       4
## 2776              4.22800       5
## 2779             14.18427       5
## 2780              2.79600       5
## 2781             14.18427       3
## 2782             14.18427       2
## 2783              1.40800       2
## 2784              3.11800       4
## 2785              2.87700       5
## 2786              8.62100       5
## 2787             14.18427       5
## 2788              3.81900       5
## 2789             14.18427       5
## 2790             14.18427       5
## 2791             14.18427       5
## 2792              3.67600       5
## 2793              7.08900       5
## 2794              2.71200       4
## 2796              1.76500       2
## 2797              3.90600       5
## 2798              3.95000       5
## 2800              5.48000       5
## 2801              2.66600       4
## 2803              3.55800       2
## 2805             14.18427       5
## 2806             12.19600       5
## 2807              4.31000       5
## 2808             14.18427       5
## 2810             14.18427       2
## 2811             14.18427       5
## 2814             15.63700       5
## 2816              3.12800       5
## 2818              2.37800       4
## 2820             14.18427       5
## 2821              2.51200       5
## 2822             14.18427       6
## 2823              1.03500       2
## 2824             14.18427       6
## 2825              1.39900       2
## 2827              1.89800       5
## 2828              4.18000       5
## 2829              2.95300       5
```

```
## 2830             18.09500          5
## 2832             14.18427          6
## 2833             14.18427          2
## 2836             14.18427          5
## 2838             14.18427          5
## 2840              2.18200          4
## 2841             14.18427          5
## 2843             14.18427          2
## 2844              1.82500          2
## 2845              4.88900          5
## 2846              4.29300          5
## 2847             14.18427          5
## 2848             19.46100          5
## 2849             14.18427          2
## 2850              1.34700          2
## 2851              2.60000          5
## 2852              5.95300          5
## 2854             14.18427          5
## 2855              2.75300          5
## 2857              4.32400          5
## 2859              1.80300          2
## 2860              2.81100          5
## 2864              3.67100          5
## 2865             14.18427          5
## 2866              3.32100          5
## 2869              3.87700          5
## 2870              1.64700          2
## 2872              4.62200          5
## 2873              2.13000          2
## 2874              2.20600          5
## 2875              1.46600          2
## 2879             14.18427          6
## 2880             14.18427          4
## 2882              3.81500          5
## 2884              2.57100          2
## 2886             14.18427          5
## 2887              3.65600          5
## 2888             14.18427          5
## 2889              5.77000          5
## 2890              3.35800          5
## 2891              3.04400          5
## 2892             14.18427          4
## 2893              5.83900          5
## 2895              1.47400          5
## 2896             16.08600          5
## 2898              2.73900          2
## 2899              2.58000          2
## 2900             55.55800          5
## 2902             14.18427          5
## 2904             14.18427          5
## 2905              3.33300          5
## 2906              2.39300          5
## 2907             14.18427          5
## 2908              5.14200          5
```

```
## 2909               4.12500          2
## 2910               4.50500          6
## 2912              14.18427          5
## 2913              14.18427          4
## 2914              14.18427          6
## 2916              14.18427          5
## 2917              14.18427          5
## 2918               2.91700          5
## 2919               2.88500          2
## 2921               2.59600          5
## 2922              14.18427          5
## 2924              14.18427          4
## 2925              14.18427          5
## 2926               2.67700          2
## 2927               2.60300          2
## 2929               5.93300          5
## 2930              16.00000          5
## 2931               3.57000          5
## 2932              14.18427          5
## 2933              14.18427          5
## 2934              14.18427          5
## 2935              14.18427          5
## 2936               3.29800          5
## 2937               2.83700          5
## 2938               3.03400          5
## 2940              14.18427          1
## 2942              14.18427          5
## 2943              14.18427          5
## 2944              14.18427          4
## 2945              14.18427          5
## 2946               4.88000          2
## 2947               2.09600          4
## 2948              14.18427          5
## 2949              14.18427          5
## 2951               5.73000          6
## 2953               3.94100          5
## 2954               3.00000          5
## 2956              24.66600          5
## 2957              14.18427          2
## 2958               3.64800          2
## 2959              27.10800          5
## 2961               4.42000          5
## 2962               3.40300          5
## 2963               3.55000          2
## 2967              -0.07700          5
## 2968              14.18427          5
## 2970              24.47300          5
## 2971              14.18427          2
## 2972               4.28100          2
## 2973              14.18427          5
## 2974               2.36500          2
## 2975               2.63600          2
## 2976              14.18427          2
## 2980              14.18427          2
```

```
## 2982              4.18200        5
## 2983              4.89600        5
## 2984              4.62000        5
## 2986              4.33000        5
## 2987             14.18427        2
## 2988              4.39700        2
## 2990              4.48800        6
## 2991              1.54700        2
## 2992             14.18427        2
## 2993              3.95100        5
## 2994              8.72000        5
## 2996             14.18427        5
## 2998             11.23900        5
## 2999              4.47000        5
## 3001             14.18427        5
## 3003              3.65100        5
## 3004             17.56900        5
## 3007              2.19100        4
## 3008              4.17800        2
## 3011              4.24700        5
## 3014             14.18427        2
## 3015              3.28600        5
## 3016             14.18427        5
## 3017              3.87500        5
## 3020             14.18427        6
## 3021              3.09000        5
## 3022             14.18427        5
## 3023             14.18427        5
## 3025              3.11200        2
## 3026             10.54600        5
## 3028             14.18427        4
## 3029             14.18427        2
## 3030             10.96000        5
## 3031             14.18427        4
## 3032              2.59500        2
## 3034             14.18427        5
## 3035              2.53000        5
## 3038              4.15500        5
## 3039             14.18427        1
## 3041              3.28200        2
## 3042              2.14500        4
## 3043              3.31600        2
## 3044              1.83100        2
## 3047             14.18427        5
## 3049              2.72300        2
## 3054              4.93400        5
## 3055             10.24100        5
## 3056             14.18427        5
## 3057              3.16900        4
## 3060             10.12600        5
## 3061             14.18427        5
## 3062             14.18427        5
## 3063             14.18427        5
## 3064             19.92200        5
```

```
## 3065          14.18427        2
## 3067          14.18427        5
## 3068           3.67300        5
## 3070           2.02900        2
## 3071          14.18427        5
## 3073          16.59100        5
## 3074          14.18427        5
## 3076           2.86900        5
## 3077          14.18427        2
## 3078          14.18427        6
## 3079           5.34100        5
## 3080           4.29500        5
## 3083           5.10000        5
## 3084          14.18427        5
## 3085          14.18427        4
## 3089          21.50800        5
## 3090          14.18427        6
## 3091           3.16300        2
## 3092          14.18427        2
## 3093           3.08100        5
## 3094           2.42700        4
## 3095           1.92400        5
## 3096          14.18427        5
## 3097           1.49600        2
## 3098          10.79000        5
## 3100           5.86600        5
## 3101           1.20300        2
## 3102           4.56000        5
## 3103          14.63200        5
## 3105          12.86800        5
## 3106           2.05000        4
## 3109           3.16800        2
## 3112           2.93100        5
## 3113           2.55200        5
## 3114           2.07600        2
## 3115          21.03000        5
## 3116           3.39700        5
## 3117           2.80900        5
## 3118           1.90000        2
## 3119           2.47100        2
## 3120          14.18427        5
## 3121          14.18427        4
## 3122          14.18427        5
## 3124          10.57100        5
## 3125           1.94100        2
## 3127           3.78600        5
## 3128           1.33400        2
## 3129          14.18427        2
## 3132          13.02100        5
## 3133          14.18427        2
## 3134          14.18427        2
## 3135           5.79000        5
## 3137           3.48400        5
## 3141           2.32700        5
```

```
## 3142            14.18427        5
## 3145             1.69400        2
## 3146            14.18427        5
## 3147             1.63200        2
## 3148             1.05300        2
## 3149             1.57500        4
## 3151            14.18427        5
## 3152             3.89000        5
## 3156             2.89500        5
## 3159            14.18427        6
## 3160             2.07700        2
## 3161             6.77900        5
## 3163            14.18427        4
## 3164             6.64800        5
## 3165             1.72800        2
## 3166             4.06500        5
## 3168            14.18427        5
## 3170             2.46700        2
## 3171            14.18427        4
## 3172             4.62500        5
## 3173             4.03900        5
## 3174             1.21500        2
## 3175             2.19500        4
## 3176             3.26200        5
## 3177             1.26000        2
## 3178             1.61200        5
## 3179             2.03500        5
## 3180             4.81400        5
## 3182             3.07300        5
## 3183             4.05100        5
## 3184            27.41300        5
## 3186            14.18427        5
## 3188            20.12600        5
## 3189            14.18427        6
## 3190            14.18427        5
## 3191             3.31000        5
## 3192             3.87500        5
## 3193             2.26100        5
## 3195            14.18427        5
## 3196             3.74300        5
## 3197            14.18427        5
## 3198            14.18427        5
## 3199             1.87900        2
## 3201             2.51300        5
## 3202             1.74500        4
## 3204             1.55500        4
## 3205             5.21900        5
## 3207            29.90000        5
## 3208             2.54700        4
## 3209             2.56800        2
## 3210            14.18427        4
## 3211             4.39000        5
## 3212            14.18427        5
## 3213             3.85100        5
```

```
## 3214              2.78400         4
## 3215              1.75600         4
## 3216             14.32700         5
## 3217              5.06900         5
## 3219              1.23500         5
## 3220             14.18427         6
## 3221             14.18427         4
## 3222              1.44000         4
## 3223             10.90600         5
## 3224              1.64500         2
## 3225              4.03600         5
## 3226              2.37300         4
## 3227              6.82900         5
## 3229             14.18427         5
## 3230              3.04800         2
## 3233              2.98500         4
## 3234              3.02800         2
## 3235             14.18427         4
## 3236              4.49600         5
## 3237              2.32800         5
## 3238              1.89700         5
## 3240             11.47100         5
## 3241              3.77800         4
## 3243             14.18427         4
## 3244              8.66400         5
## 3245             14.18427         6
## 3247             14.18427         4
## 3249             14.18427         5
## 3250             14.73100         5
## 3251              1.49900         2
## 3253              2.27300         4
## 3254              1.28000         2
## 3255              7.76400         5
## 3256              4.66400         5
## 3257             22.33700         5
## 3259             14.18427         5
## 3260              4.88400         5
## 3261              3.38700         5
## 3262             14.18427         6
## 3263              2.52100         2
## 3264              2.02400         2
## 3267             14.18427         5
## 3268             14.18427         2
## 3269              4.06600         5
## 3270             11.83300         5
## 3271              2.71800         2
## 3272              3.90900         5
## 3273              2.56100         5
## 3274             14.18427         5
## 3275              3.86300         5
## 3276              2.74400         5
## 3277              1.11700         5
## 3279              4.45300         5
## 3281              2.50200         2
```

```
## 3282          24.01300      5
## 3283           1.95900      4
## 3284           4.46300      5
## 3287          16.03200      5
## 3288           2.53000      5
## 3289           5.19700      5
## 3290           4.37500      5
## 3291          14.18427      5
## 3292           1.60700      5
## 3295          14.18427      5
## 3296           2.61400      5
## 3297           1.93300      4
## 3298           2.65600      4
## 3299           1.70400      4
## 3300          14.18427      6
## 3301          14.18427      5
## 3302          14.18427      5
## 3303           4.78400      5
## 3304          14.18427      4
## 3305           2.62300      5
## 3306           2.19900      2
## 3307           2.40000      5
## 3308          14.18427      5
## 3310          14.18427      2
## 3311           7.00300      5
## 3313           3.27200      4
## 3315           9.00500      5
## 3316          14.18427      2
## 3317           2.58300      4
## 3318           3.74100      2
## 3319           3.76000      5
## 3320           2.50900      5
## 3321          14.18427      3
## 3322           3.78200      5
## 3324          14.18427      5
## 3325          14.18427      2
## 3327           3.34100      5
## 3328           3.48700      6
## 3329           1.06600      2
## 3330          14.18427      2
## 3331           2.08600      4
## 3332          14.18427      5
## 3333          14.18427      5
## 3335           2.33600      5
## 3336          14.18427      5
## 3339          14.18427      5
## 3340          14.18427      6
## 3341           3.32400      5
## 3342           2.20300      2
## 3343           2.40100      2
## 3344           5.60800      5
## 3345           5.77600      2
## 3347          23.34000      5
## 3348           1.96600      4
```

```
## 3349                  1.67300          2
## 3350                  4.52100          5
## 3351                 14.18427          5
## 3352                 14.18427          5
## 3353                 14.18427          5
## 3354                 14.18427          2
## 3355                 14.18427          4
## 3357                 14.18427          5
## 3358                  2.49000          4
## 3359                 14.18427          5
## 3360                  4.08700          2
## 3361                 14.18427          5
## 3362                 14.18427          5
## 3364                 14.18427          4
## 3365                  1.92000          2
## 3368                 14.61700          5
## 3369                  1.65200          2
## 3370                  5.74900          2
## 3371                  1.18400          4
## 3372                  6.47900          5
## 3373                 14.18427          5
## 3374                  1.72900          4
## 3375                  2.00400          2
## 3376                  3.65100          6
## 3377                 14.18427          2
## 3378                  3.08700          5
## 3379                 14.18427          1
## 3380                  3.55200          2
## 3381                 14.18427          5
## 3382                  4.40500          5
## 3383                 14.18427          4
## 3386                  1.76800          2
## 3387                  2.74900          5
## 3390                  1.80500          4
## 3391                  4.29600          5
## 3392                  2.98000          5
## 3394                  3.31400          4
## 3396                 14.18427          5
## 3397                  6.33000          5
## 3398                 14.18427          5
## 3400                  2.68000          2
## 3401                  3.94400          5
## 3402                  4.94500          5
## 3403                  8.26800          5
## 3404                  9.80000          5
## 3405                  2.25700          5
## 3407                  1.73000          2
## 3408                  7.17700          5
## 3409                 14.18427          4
## 3410                  2.83200          5
## 3411                 12.15000          5
## 3413                  1.82000          5
## 3414                 14.58800          5
## 3415                  2.33900          5
```

```
## 3416             5.98900       5
## 3417            14.18427       4
## 3418             1.76400       4
## 3419             3.43600       5
## 3420             1.33900       2
## 3423             1.80500       2
## 3424            14.18427       5
## 3425             5.81900       5
## 3426             5.95200       5
## 3428            14.18427       5
## 3430            14.18427       5
## 3431             0.75800       2
## 3433            14.18427       5
## 3434             4.29700       5
## 3436            14.18427       5
## 3439            14.18427       2
## 3440             4.24200       2
## 3441             4.34100       5
## 3442             2.11800       5
## 3443            14.18427       1
## 3444             4.67600       5
## 3445             3.25100       6
## 3446            14.18427       5
## 3448            14.18427       5
## 3449             1.84900       2
## 3450             4.85000       5
## 3451             6.94900       5
## 3452            14.18427       2
## 3455             7.05700       5
## 3456             3.63800       6
## 3457            15.76500       5
## 3458             5.06200       2
## 3459            14.18427       5
## 3460             2.15900       4
## 3463            14.18427       1
## 3464            14.18427       2
## 3465             3.30000       5
## 3467            18.71000       5
## 3468             4.46500       5
## 3469            14.18427       5
## 3470            16.98500       5
## 3471            14.18427       5
## 3473             3.37200       5
## 3475            14.18427       5
## 3477            14.18427       5
## 3479             4.14600       5
## 3480             3.53100       5
## 3481            14.18427       5
## 3482            14.18427       5
## 3484            14.18427       5
## 3485             2.80900       5
## 3487             2.90800       2
## 3488            14.18427       6
## 3489             4.23800       5
```

```
## 3490              3.11500         5
## 3491              2.60800         2
## 3492             14.18427         5
## 3493              3.01100         5
## 3495              2.64400         2
## 3496              4.19500         5
## 3498             14.18427         2
## 3499             14.18427         5
## 3500              6.12700         5
## 3501             14.18427         2
## 3503             14.18427         5
## 3504              2.65400         5
## 3505              7.15300         5
## 3506              4.16400         5
## 3507              1.73400         4
## 3508              2.98900         5
## 3509              3.87800         5
## 3510              4.44100         5
## 3511              5.13100         5
## 3512              2.01200         2
## 3513              4.30800         5
## 3514              1.67700         2
## 3516             14.18427         5
## 3517              1.79200         2
## 3518             14.18427         6
## 3519              0.97400         5
## 3520              3.64300         5
## 3521             14.18427         4
## 3522             14.18427         1
## 3523              4.88900         5
## 3524              2.37600         4
## 3526              3.63300         5
## 3528             14.18427         2
## 3531             14.18427         5
## 3532             14.18427         6
## 3533              2.73100         2
## 3534              3.89500         5
## 3535              4.08900         2
## 3536              5.69400         5
## 3537             14.18427         5
## 3538              2.79500         5
## 3539             14.18427         5
## 3541             14.18427         5
## 3542              1.30000         2
## 3543             14.18427         5
## 3544              2.32700         4
## 3545              1.74800         4
## 3546             14.18427         5
## 3547             14.18427         2
## 3549              3.44200         5
## 3550             14.36000         5
## 3552             14.18427         5
## 3553              2.83000         2
## 3554             14.18427         5
```

```
## 3555          14.18427     2
## 3556          14.18427     4
## 3559          14.18427     5
## 3560           2.69500     5
## 3561          14.18427     5
## 3562           3.02400     5
## 3563          10.93500     5
## 3564          14.18427     2
## 3567          14.18427     5
## 3569           2.28400     4
## 3571           6.97700     5
## 3572          14.18427     6
## 3574          10.53800     5
## 3576           2.69800     2
## 3577           2.64300     2
## 3578          14.18427     3
## 3580          14.18427     1
## 3582           1.66400     5
## 3583           4.03000     5
## 3586           3.45100     5
## 3588           9.57200     5
## 3589           1.53600     2
## 3590           3.61000     5
## 3591           1.07300     5
## 3594          14.18427     5
## 3596          14.18427     5
## 3597           3.51700     5
## 3599           2.93200     2
## 3601          14.18427     5
## 3602          14.18427     4
## 3603           1.37500     2
## 3604           4.56000     5
## 3605          14.18427     5
## 3606           3.71700     5
## 3607          14.18427     2
## 3608          14.18427     5
## 3611          14.18427     6
## 3612           1.79800     2
## 3614          14.18427     2
## 3615          14.18427     5
## 3616           2.07800     2
## 3617          14.18427     6
## 3620           2.99700     5
## 3621           2.35000     4
## 3623          14.18427     5
## 3624           4.06000     5
## 3627          14.18427     4
## 3629           4.13900     5
## 3630          14.18427     5
## 3631           3.42500     5
## 3632           2.59600     2
## 3633           5.94000     6
## 3634           6.11900     5
## 3635          14.18427     5
```

```
## 3637              3.82300        5
## 3638             14.18427        6
## 3639              1.80300        5
## 3640              5.31000        5
## 3641              1.41500        2
## 3642             14.18427        5
## 3643             14.18427        2
## 3644              4.18200        5
## 3645              5.58300        5
## 3648              2.12900        2
## 3649              2.76500        5
## 3650              1.67200        4
## 3651              2.21000        4
## 3652              2.53700        4
## 3653              9.85000        5
## 3655              2.39800        2
## 3657             14.18427        5
## 3659              2.97400        4
## 3660             14.18427        5
## 3661              5.69400        5
## 3662             23.76800        5
## 3663              2.18000        2
## 3664              2.44900        2
## 3665              2.32600        2
## 3666             14.18427        5
## 3667             17.92200        5
## 3669             14.18427        5
## 3670             14.18427        3
## 3671              2.87500        4
## 3673              3.92100        6
## 3675             17.43200        5
## 3676             14.18427        5
## 3677             14.18427        2
## 3678             14.18427        4
## 3680              4.69800        5
## 3681              3.48500        4
## 3682              3.73300        5
## 3683             14.18427        5
## 3684             14.18427        2
## 3685             14.18427        4
## 3686              5.14200        5
## 3688             14.18427        5
## 3689              2.38200        5
## 3692              0.84500        4
## 3694              2.78800        5
## 3695             12.76400        5
## 3696              3.52900        5
## 3697             20.74900        5
## 3698             14.18427        4
## 3699              3.11500        2
## 3700             14.18427        5
## 3701              2.84600        2
## 3703             14.18427        5
## 3704             14.80600        5
```

```
## 3707          22.43500        5
## 3710           4.21800        2
## 3711          11.34000        5
## 3712           4.92900        2
## 3713          14.18427        5
## 3714           3.35300        5
## 3715           3.73800        2
## 3716           1.97100        5
## 3717           2.06700        2
## 3718          14.18427        5
## 3719          14.18427        2
## 3721          14.18427        5
## 3722           3.43200        5
## 3723          14.18427        5
## 3724          14.18427        5
## 3725           4.22500        5
## 3726           5.32300        5
## 3727          19.85400        5
## 3728           3.63100        2
## 3729           1.35000        2
## 3730           5.05800        5
## 3731          14.18427        6
## 3733           1.77600        4
## 3737          14.18427        5
## 3738          14.18427        5
## 3739           8.18300        5
## 3740          14.18427        5
## 3741           5.62000        5
## 3745           1.39000        2
## 3746           1.40900        2
## 3747          14.18427        5
## 3748           5.61400        5
## 3749          24.14200        5
## 3752           5.28200        5
## 3755           7.67900        5
## 3756          14.18427        2
## 3758          14.18427        5
## 3759           3.38900        6
## 3760          20.92900        5
## 3761          14.18427        5
## 3762          14.18427        5
## 3763          14.18427        5
## 3765           4.70500        5
## 3766          16.15200        5
## 3768          21.83700        5
## 3769           3.57600        5
## 3772          14.18427        5
## 3773           2.14000        4
## 3774          14.18427        5
## 3777           6.54100        5
## 3778           9.07900        5
## 3780          14.18427        5
## 3781           3.86900        5
## 3784           4.15300        2
```

```
## 3786          14.18427        4
## 3787           3.24000        5
## 3789           2.23500        5
## 3790           2.29100        2
## 3791           2.05400        5
## 3792          14.18427        4
## 3793           2.44000        2
## 3794           6.76200        5
## 3795           1.43000        4
## 3796          14.18427        5
## 3797           1.98700        4
## 3798           4.65100        5
## 3799          14.18427        5
## 3800           3.31900        2
## 3802           3.38300        2
## 3803          14.18427        5
## 3804          14.18427        4
## 3806          14.18427        2
## 3807          14.18427        5
## 3808          14.18427        2
## 3809           5.82300        5
## 3810           2.69400        2
## 3811           4.67400        5
## 3812           6.69900        5
## 3814           2.86700        2
## 3815          14.18427        2
## 3816           3.25100        2
## 3817           2.03300        5
## 3818           9.34600        5
## 3822           4.59300        5
## 3823           3.11600        5
## 3824           3.43000        4
## 3826         234.32800        5
## 3827          14.18427        1
## 3828           1.92800        4
## 3829           2.38200        5
## 3830          14.18427        6
## 3831          14.18427        2
## 3832           1.13900        2
## 3835           4.01500        4
## 3836          14.18427        2
## 3837           2.73900        2
## 3838           2.99200        5
## 3839          14.18427        5
## 3840           6.04800        5
## 3841           4.20200        2
## 3842           9.77000        5
## 3843           4.72300        5
## 3844           2.22000        2
## 3847           3.38300        2
## 3848           4.15300        2
## 3849           2.19700        4
## 3850           2.83700        5
## 3851           8.28000        5
```

```
## 3852              2.03100          2
## 3853              3.41800          5
## 3855              5.75500          5
## 3856              1.94800          2
## 3857              3.47200          5
## 3858              2.36800          4
## 3859             14.18427          6
## 3860             14.18427          5
## 3861             14.18300          5
## 3862             14.18427          1
## 3864              1.18300          2
## 3865             14.18427          2
## 3866             14.18427          2
## 3867             14.18427          2
## 3871              2.56400          2
## 3872              1.69700          5
## 3874              2.10200          2
## 3875             14.18427          5
## 3876             14.18427          6
## 3877              1.14500          2
## 3878              5.73000          5
## 3880             22.11700          5
## 3881              9.07200          5
## 3882              1.83900          4
## 3883              3.67000          6
## 3884              2.41400          4
## 3885              2.12800          1
## 3886             23.19200          5
## 3890              4.64700          5
## 3892              3.21700          5
## 3893             14.18427          5
## 3894             17.53800          5
## 3895              2.65100          2
## 3898              5.65500          5
## 3899             14.73200          5
## 3900              2.42800          5
## 3901              3.42000          2
## 3904             14.18427          5
## 3906             14.18427          4
## 3908              3.19400          5
## 3910              3.27800          2
## 3914              3.60900          5
## 3915             14.18427          5
## 3916             14.18427          5
## 3917             14.18427          4
## 3919             14.18427          5
## 3920              3.46100          5
## 3921             14.18427          1
## 3924              4.78000          5
## 3925              3.81600          2
## 3926              7.33500          5
## 3928             13.28000          5
## 3929              3.64000          5
## 3930              2.64200          5
```

```
## 3931          14.18427        5
## 3932           2.31500        6
## 3934          14.18427        2
## 3936           5.97000        5
## 3937           3.07400        4
## 3938           3.21700        2
## 3939           1.88400        5
## 3941           4.34100        5
## 3943           1.93900        2
## 3944           3.21400        5
## 3945          14.18427        6
## 3946          14.18427        5
## 3948          14.18427        4
## 3949          14.18427        5
## 3951           1.62900        4
## 3952           4.80800        5
## 3953          14.18427        5
## 3954          11.97500        5
## 3955           5.77300        5
## 3956           3.94200        5
## 3957           2.56400        5
## 3958           1.83700        4
## 3959           2.25800        4
## 3960          14.18427        5
## 3962           3.34500        2
## 3964          14.18427        2
## 3967          14.06500        5
## 3973           4.10300        6
## 3974          14.18427        5
## 3980          14.18427        4
## 3981           4.78700        5
## 3982          14.18427        5
## 3983           2.44100        5
## 3984           4.92000        5
## 3987          14.18427        2
## 3988           4.93100        5
## 3989          14.18427        5
## 3991          14.18427        4
## 3993           3.60500        4
## 3995           1.96500        4
## 3997           4.83500        5
## 3998           3.10800        5
## 3999          14.18427        5
## 4000          14.18427        5
## 4002           2.14000        6
## 4003          37.34600        5
## 4004          14.18427        2
## 4006          14.18427        5
## 4007           6.10600        2
## 4008           2.04100        2
## 4009           1.88200        2
## 4010           5.59500        5
## 4012          14.18427        5
## 4014           4.68400        5
```

```
## 4016             14.18427          5
## 4017             13.88100          5
## 4019              4.57000          5
## 4020              3.07500          2
## 4021             16.23300          5
## 4023             14.18427          5
## 4024             14.18427          5
## 4025              2.44000          5
## 4026             14.18427          5
## 4028             26.78100          5
## 4029              4.35700          5
## 4030              5.68500          5
## 4031             14.18427          5
## 4033              2.96200          5
## 4036             14.18427          2
## 4037              2.17200          2
## 4038              3.31100          5
## 4039              2.41300          5
## 4040             11.83600          5
## 4041              3.75200          2
## 4043              2.06800          4
## 4044              5.14100          5
## 4046              2.25400          2
## 4047              4.13300          5
## 4048             14.18427          1
## 4050              2.43800          5
## 4051              8.39500          5
## 4052              1.69400          2
## 4053              2.73800          2
## 4054            923.35100          5
## 4055              2.27100          2
## 4056             14.18427          4
## 4057              2.50800          5
## 4058             12.45900          5
## 4060             14.18427          5
## 4062              3.37500          4
## 4063              6.05300          6
## 4064             14.18427          6
## 4065             14.18427          5
## 4066             14.18427          4
## 4067             14.18427          5
## 4068              3.35900          5
## 4070             20.00000          5
## 4071             14.18427          5
## 4072              2.38500          2
## 4073             14.18427          5
## 4076              1.42200          2
## 4077              1.52000          2
## 4079              7.34700          5
## 4080              3.69600          2
## 4082              2.16500          2
## 4083              2.18100          4
## 4084              1.33100          2
## 4085              7.12100          5
```

```
## 4086                 1.99400         2
## 4087                 2.25700         4
## 4088                14.18427         5
## 4089                14.18427         4
## 4090                14.18427         6
## 4091                14.18427         6
## 4092                 1.42900         2
## 4093                 5.90300         2
## 4094                14.18427         2
## 4095                 3.53300         5
## 4096                 1.77900         5
## 4098                 6.33800         2
## 4099                14.18427         5
## 4101                 2.34800         4
## 4102                 3.58900         5
## 4103                14.18427         5
## 4104                 4.23400         5
## 4105                14.45800         5
## 4106                 3.51700         2
## 4107                 4.15400         5
## 4108                14.18427         5
## 4109                 1.71800         2
## 4111                14.18427         5
## 4112                 4.08000         6
## 4113                14.18427         5
## 4115                35.91200         5
## 4116                14.18427         5
## 4117                 2.50500         2
## 4118                14.18427         6
## 4119                 3.62400         5
## 4120                14.18427         4
## 4121                 3.06600         5
## 4123                14.18427         2
## 4124                 3.14600         5
## 4125                15.10600         5
## 4127                14.18427         1
## 4128                 3.53400         5
## 4129                 3.15500         5
## 4131                14.18427         2
## 4132                14.18427         5
## 4133                14.18427         5
## 4134                 1.86400         2
## 4135                11.79300         5
## 4136                 0.99200         2
## 4138                 3.03200         5
## 4139                14.18427         5
## 4140                14.18427         2
## 4142                 3.11100         4
## 4144                 3.26500         2
## 4145                 2.92100         5
## 4146                 2.61500         5
## 4147                 3.23600         5
## 4150                 1.04800         2
## 4151                22.65800         5
```

```
## 4152            14.18427          5
## 4153             2.02900          5
## 4154             4.64900          5
## 4155             2.99400          2
## 4157             6.13100          5
## 4158            14.18427          5
## 4159             3.33300          5
## 4160             7.26000          5
## 4161             2.92200          5
## 4162             5.11100          5
## 4163            14.18427          6
## 4165            14.18427          5
## 4166            14.18427          2
## 4168             2.42500          5
## 4170            14.18427          5
## 4173            14.18427          2
## 4174            14.18427          5
## 4175            14.18427          5
## 4177             3.96500          5
## 4178             2.19900          2
## 4180            14.18427          6
## 4182            14.18427          1
## 4183             4.81000          5
## 4184            14.18427          5
## 4185             3.44300          5
## 4186             3.51500          5
## 4187             2.10500          5
## 4188            14.18427          6
## 4189            22.27000          5
## 4190             3.79000          2
## 4191            17.43200          5
## 4192            14.18427          1
## 4194             2.09800          2
## 4195             3.13300          2
## 4196             3.71900          5
## 4197             4.12400          5
## 4198             4.01600          2
## 4200             4.60800          5
## 4202            24.68100          5
## 4203             2.11000          2
## 4204            14.18427          5
## 4205             2.13000          4
## 4207            14.18427          2
## 4208            14.18427          5
## 4209            22.85000          5
## 4211             3.00500          4
## 4212             2.24000          5
## 4213             3.35300          2
## 4214             1.63500          4
## 4215            14.18427          1
## 4216             2.64800          2
## 4217            14.18427          2
## 4219            14.86600          5
## 4220             1.78600          4
```

```
## 4221              1.98200         4
## 4223             14.18427         5
## 4224             14.18427         5
## 4225              3.78000         5
## 4226              4.96700         5
## 4227             16.73600         5
## 4228             14.18427         5
## 4229              1.84600         2
## 4230              7.79500         5
## 4231              7.51000         5
## 4232              2.95600         2
## 4233             14.18427         4
## 4234              1.97000         4
## 4235              2.38000         2
## 4238             14.18427         5
## 4239             14.18427         5
## 4240              2.59600         5
## 4241             14.18427         6
## 4242              5.02000         5
## 4243             14.18427         5
## 4244              4.55800         5
## 4245             14.18427         2
## 4246             14.18427         5
## 4247             14.18427         4
## 4250              4.74500         5
## 4251              3.06200         5
## 4252              5.49900         5
## 4253             14.18427         5
## 4255              4.02700         2
## 4256              8.48100         5
## 4258             14.18427         5
## 4259              2.90100         5
## 4260              2.99100         5
## 4261             20.02100         5
## 4262              2.85000         5
## 4264              1.50700         2
## 4265             14.18427         5
## 4268             14.18427         5
## 4269             14.18427         3
## 4270             14.18427         4
## 4271             20.81800         5
## 4272             14.18427         5
## 4274              6.50000         5
## 4276             14.18427         1
## 4278             14.18427         5
## 4279              2.49000         4
## 4280              2.20200         2
## 4281              1.91600         2
## 4282              4.35000         5
## 4283              2.75900         2
## 4284              2.42900         2
## 4285              5.01000         5
## 4286              2.95600         6
## 4287             14.18427         2
```

```
## 4290                 3.59400        5
## 4292                 6.55700        5
## 4293                 2.41500        5
## 4295                 0.81200        2
## 4296                14.18427        4
## 4297                14.18427        5
## 4298                14.18427        5
## 4299                 2.98300        5
## 4300                 1.78700        5
## 4301                 3.49000        6
## 4303                 4.81100        5
## 4304                 3.78200        5
## 4305                 4.28000        5
## 4307                14.18427        6
## 4308                14.18427        5
## 4309                14.18427        5
## 4310                 2.09700        2
## 4311                14.18427        2
## 4312                14.18427        5
## 4313                14.18427        5
## 4314                 3.18100        5
## 4315                 6.39000        6
## 4316                 4.46800        5
## 4318                 4.01300        5
## 4319                 7.01900        5
## 4320                14.18427        5
## 4321                14.18427        4
## 4322                 2.13900        2
## 4325                 1.46400        2
## 4327                 8.00100        5
## 4328                 9.14500        5
## 4330                 2.00800        2
## 4332                14.18427        5
## 4333                14.18427        6
## 4336                 5.44600        5
## 4337                14.18427        5
## 4341                 3.53900        5
## 4344                14.18427        5
## 4345                 3.51600        4
## 4346                 4.52700        5
## 4347                 3.36200        5
## 4348                 1.41900        2
## 4349                14.18427        4
## 4350                 4.22800        5
## 4351                 2.98400        5
## 4354                10.97800        5
## 4355                 3.02700        2
## 4357                14.18427        6
## 4358                14.18427        5
## 4359                 3.67300        5
## 4361                 2.05800        2
## 4362                14.18427        2
## 4363                14.18427        5
## 4364                 3.03500        5
```

```
## 4366                2.10300          4
## 4367                4.94600          5
## 4368               12.98000          5
## 4370                4.30400          5
## 4371                2.05900          5
## 4373                3.20300          5
## 4374                1.78300          2
## 4376               18.81400          5
## 4377                4.18000          6
## 4380               14.18427          5
## 4382               14.18427          4
## 4383               14.18427          6
## 4384               14.18427          5
## 4385                3.45800          2
## 4386                2.07000          5
## 4388                3.88200          2
## 4389                3.77000          5
## 4391               25.05800          5
## 4392               14.18427          5
## 4394               14.18427          5
## 4396                1.84300          2
## 4399               14.18427          5
## 4400               14.18427          5
## 4401                2.73600          2
## 4402                4.94100          5
## 4403                1.48100          2
## 4404                2.20200          5
## 4405                2.47600          2
## 4406               14.18427          5
## 4407               14.18427          5
## 4408                3.71400          5
## 4409               14.18427          4
## 4411                3.27800          5
## 4413                2.99200          5
## 4414                4.44100          5
## 4415               14.18427          5
## 4416                3.41200          5
## 4417               14.18427          5
## 4418                2.75900          5
## 4419               14.18427          2
## 4420                3.48200          2
## 4421                2.11300          2
## 4422                1.47900          5
## 4423                3.53600          5
## 4425                1.55600          2
## 4426               14.18427          5
## 4427               14.18427          6
## 4428               14.18427          6
## 4429                3.74700          5
## 4430                1.67600          2
## 4431               10.01700          5
## 4432               14.76100          5
## 4433                4.52700          5
## 4434                1.97700          2
```

```
## 4435          14.18427     4
## 4436           3.67600     5
## 4437           5.66100     2
## 4438          14.18427     2
## 4442           7.66500     5
## 4443          14.18427     4
## 4445          14.18427     5
## 4446           2.63700     5
## 4447          14.18427     5
## 4448           2.58700     5
## 4449           2.09900     2
## 4451           6.10300     5
## 4453          17.77600     5
## 4455           6.08400     5
## 4456           2.40400     4
## 4457           3.27900     2
## 4458           2.11900     4
## 4459          14.18427     2
## 4460          14.18427     4
## 4461           2.09500     4
## 4462          14.18427     2
## 4463           1.88300     5
## 4464          14.18427     5
## 4467           1.64000     2
## 4468          14.18427     5
## 4469          14.18427     5
## 4471          14.18427     5
## 4472           3.15300     4
## 4473          11.70700     5
## 4475          14.18427     5
## 4477          14.18427     2
## 4480           2.16800     5
## 4482          14.18427     5
## 4483           4.16000     2
## 4484           4.81700     5
## 4485           2.10100     5
## 4488          14.18427     2
## 4489          14.18427     5
## 4490           2.07000     4
## 4491           7.93300     5
## 4492          14.18427     5
## 4493           2.56000     5
## 4494           1.89800     4
## 4495           2.11200     2
## 4498           2.09300     5
## 4499          14.18427     4
## 4500           3.13600     5
## 4502           7.94800     5
## 4503          14.18427     6
## 4504          14.18427     5
## 4505          14.18427     6
## 4508          14.18427     5
## 4509          11.34800     5
## 4510           1.85100     2
```

```
## 4511          14.18427          2
## 4512          14.18427          4
## 4513           3.10900          5
## 4514          14.18427          5
## 4516           4.13300          5
## 4517           4.17800          5
## 4518          14.18427          5
## 4519           3.28400          5
## 4520           2.48800          2
## 4521          14.18427          5
## 4522          14.18427          5
## 4524           1.53800          2
## 4525           1.86500          5
## 4526           6.46900          5
## 4527           2.01900          4
## 4529           1.88100          4
## 4530          14.18427          2
## 4531          14.18427          5
## 4532           2.93300          5
## 4533          14.18427          2
## 4534           6.43700          5
## 4535           3.32200          4
## 4536          14.18427          2
## 4537           2.34100          2
## 4538           3.87400          5
## 4539           4.96700          5
## 4541          10.67900          5
## 4542          14.18427          5
## 4543           5.06400          6
## 4545           3.91100          2
## 4546          14.18427          5
## 4548           3.30900          5
## 4549           8.52900          5
## 4550           1.78600          2
## 4552           3.40000          5
## 4555          14.18427          6
## 4556           1.71900          2
## 4558           4.27000          5
## 4560           2.36800          2
## 4561           2.12300          4
## 4562          14.18427          5
## 4564          14.18427          6
## 4565           4.42700          5
## 4566           1.58700          4
## 4567           1.95600          4
## 4568           3.18000          5
## 4569           3.30100          5
## 4572           5.82300          5
## 4574           1.95500          2
## 4575           3.47100          5
## 4577           2.80500          5
## 4578          14.18427          6
## 4580           4.48500          5
## 4581           2.31900          2
```

```
## 4582              14.18427      1
## 4583              14.18427      5
## 4584              14.18427      5
## 4585               3.13000      5
## 4586              14.18427      5
## 4587              14.18427      6
## 4589              14.18427      4
## 4590              14.18427      5
## 4592              14.18427      5
## 4593               4.03200      5
## 4594               3.07200      5
## 4596              17.51000      5
## 4598              14.18427      5
## 4599               5.31200      5
## 4601              14.18427      5
## 4602               2.98500      5
## 4603              14.18427      2
## 4604               2.30200      2
## 4605              14.18427      6
## 4606               4.87000      5
## 4607               4.18600      5
## 4608              14.18427      2
## 4609               2.78800      5
## 4611              15.77100      5
## 4612               2.50100      5
## 4614              14.18427      5
## 4615              14.18427      5
## 4616               5.00100      5
## 4617              14.18427      5
## 4618               3.02500      5
## 4619               3.09200      5
## 4620              14.18427      2
## 4621               1.88600      5
## 4622              14.18427      2
## 4624              14.18427      5
## 4625               5.15800      5
## 4626               3.23000      5
## 4627              14.18427      5
## 4628              14.18427      5
## 4629               3.46800      5
## 4630              14.18427      2
## 4632              14.18427      5
## 4634              14.18427      5
## 4635               4.36300      5
## 4636               2.28000      2
## 4637              14.18427      2
## 4639               2.04000      5
## 4640              14.18427      2
## 4641               3.79800      5
## 4642               2.63800      5
## 4643              14.18427      5
## 4645               1.93500      2
## 4646              14.18427      4
## 4647              14.18427      4
```

```
## 4648          14.18427          5
## 4649          14.18427          5
## 4650           4.47100          5
## 4651          14.18427          2
## 4652           6.50700          5
## 4653           1.99700          2
## 4654           8.36300          5
## 4656           4.12300          5
## 4657          14.18427          5
## 4658           3.58100          5
## 4659           2.75000          2
## 4661           1.87000          5
## 4662           4.82900          5
## 4664          14.18427          5
## 4665           1.15900          5
## 4668          14.18427          6
## 4669           3.56500          5
## 4670           4.05400          5
## 4674           5.10500          2
## 4675          15.71900          5
## 4676          22.31400          5
## 4677          15.26900          5
## 4678          14.18427          5
## 4679           1.91100          2
## 4683           2.32400          4
## 4685          14.18427          5
## 4686           4.19100          2
## 4688           3.33400          2
## 4689           4.68200          2
## 4690           3.67900          5
## 4691          14.18427          5
## 4694           2.58400          5
## 4696           0.72200          2
## 4697           2.59400          2
## 4698           3.49400          2
## 4699          14.18427          2
## 4700           4.48500          5
## 4702           1.91400          2
## 4704          14.18427          6
## 4708          14.18427          5
## 4709          24.41400          5
## 4710          10.01000          5
## 4711          14.18427          5
## 4712           1.89600          4
## 4714           4.39800          5
## 4715           4.99900          5
## 4716           1.53600          4
## 4718           1.63000          2
## 4719          14.18427          5
## 4720           3.24900          5
## 4721           3.62900          2
## 4722           2.89200          5
## 4723          14.18427          5
## 4724           1.88700          4
```

```
## 4725              4.46100       5
## 4728              5.57000       6
## 4730              3.04600       2
## 4731              1.88100       2
## 4732              3.57100       5
## 4733              5.35900       5
## 4734             14.18427       5
## 4735             14.18427       5
## 4736             13.60000       5
## 4737             14.18427       5
## 4738             14.18427       5
## 4739              1.92700       5
## 4740             14.18427       6
## 4741             14.18427       5
## 4742             14.18427       1
## 4744             14.18427       2
## 4746              2.01800       5
## 4747             14.80000       5
## 4748             14.18427       2
## 4749              3.65300       5
## 4750              2.46300       2
## 4751              2.11400       5
## 4752             14.18427       5
## 4753              3.72300       5
## 4754              1.87700       4
## 4755             12.21500       5
## 4757             14.18427       5
## 4759              2.38500       4
## 4760              2.97600       2
## 4761             14.18427       6
## 4762             14.18427       2
## 4763              5.97500       5
## 4765              2.13800       2
## 4766              3.24100       2
## 4767              1.78900       4
## 4769              8.05600       5
## 4770              3.74900       5
## 4771             14.18427       6
## 4772              4.82500       5
## 4773              3.55700       5
## 4774              2.72600       4
## 4776              6.30700       5
## 4778             14.18427       5
## 4779              6.30900       5
## 4780              4.69500       5
## 4781              4.49700       6
## 4783              6.15800       5
## 4784              1.64400       2
## 4786              2.98000       2
## 4787             14.18427       1
## 4788             14.18427       5
## 4789              3.85100       5
## 4790              1.96800       2
## 4791             14.18427       2
```

```
## 4793          14.18427      5
## 4794           3.33100      5
## 4795           3.31000      5
## 4796           2.80100      4
## 4797           3.32000      5
## 4798          14.18427      5
## 4799          14.18427      2
## 4800          14.18427      5
## 4801           4.48700      5
## 4804          14.18427      5
## 4805          14.18427      5
## 4806           2.18200      5
## 4807          14.18427      5
## 4808           2.21100      5
## 4809           4.67000      5
## 4810          14.18427      2
## 4812          14.18427      5
## 4813           1.38800      2
## 4814           3.79900      2
## 4815          14.18427      5
## 4816           2.36300      2
## 4817           2.75800      4
## 4820          14.18427      2
## 4821           2.89100      5
## 4822           2.48200      5
## 4823           2.35800      4
## 4824          14.18427      5
## 4826           3.06000      5
## 4827          14.18427      5
## 4828           3.71000      5
## 4829          14.18427      2
## 4830          15.89600      5
## 4831           2.29100      5
## 4832           7.20100      5
## 4833          14.18427      5
## 4834           3.95300      5
## 4835          14.18427      5
## 4836          14.18427      4
## 4837           3.77000      4
## 4838          14.18427      5
## 4839          21.99400      5
## 4841          14.18427      2
## 4844           1.90500      2
## 4845           2.08500      4
## 4846          14.18427      6
## 4848           3.44200      5
## 4851          14.18427      5
## 4852           6.30600      5
## 4853           2.88800      5
## 4854          14.18427      5
## 4855           4.41000      5
## 4856           3.99300      2
## 4857           5.60400      5
## 4858          14.18427      5
```

```
## 4860             4.32000        5
## 4861            11.87600        5
## 4862            14.18427        5
## 4864            14.18427        5
## 4865            14.18427        5
## 4866             2.65100        5
## 4867            14.18427        5
## 4868             1.76100        5
## 4869             1.12700        2
## 4871             4.20300        5
## 4873            14.18427        2
## 4875            14.18427        1
## 4876             4.19100        5
## 4878            14.18427        5
## 4880             9.45200        5
## 4881            14.18427        5
## 4882             1.90600        5
## 4884             2.33500        4
## 4885             1.19700        5
## 4886             0.75800        2
## 4888             2.84000        5
## 4889             3.25200        5
## 4890             3.07700        6
## 4891             4.07000        5
## 4892            14.18427        4
## 4893             3.19300        2
## 4894            14.18427        5
## 4896            14.18427        5
## 4897            14.18427        5
## 4898             1.78800        4
## 4901             2.31300        5
## 4903             4.76000        5
## 4905            14.18427        5
## 4906             2.64600        5
## 4907            14.18427        2
## 4908            14.18427        5
## 4909            14.18427        5
## 4911             2.91300        5
## 4915            14.18427        4
## 4916             3.38800        4
## 4918            14.18427        2
## 4922            14.18427        2
## 4924             1.12300        2
## 4925            14.18427        5
## 4926             0.92900        2
## 4927            14.18427        2
## 4931            14.18427        5
## 4932             1.76800        2
## 4934            16.16000        5
## 4935             3.35700        2
## 4936            14.18427        5
## 4937            14.18427        5
## 4939             1.94400        2
## 4941             4.24000        5
```

```
## 4942            17.50300            5
## 4943             4.07100            5
## 4944             2.57800            5
## 4945             2.37400            5
## 4946            14.18427            5
## 4947             4.31500            5
## 4948             3.62600            5
## 4950            14.18427            6
## 4952            14.18427            6
## 4953            14.18427            5
## 4954            14.18427            5
## 4955            14.18427            2
## 4956             4.33300            5
## 4957            14.82100            5
## 4958             4.23600            5
## 4959             2.47300            5
## 4960            14.18427            4
## 4961             2.78700            2
## 4962            14.18427            4
## 4964            14.18427            6
## 4969            14.18427            5
## 4970             4.12900            5
## 4971             7.05400            5
## 4972             2.11500            2
## 4974             2.13800            4
## 4976             1.04100            2
## 4977             2.28300            5
## 4980             5.12200            5
## 4983             6.20800            5
## 4984            18.00000            5
## 4985            14.18427            5
## 4986             2.78500            4
## 4987             3.79500            5
## 4989             4.12500            5
## 4991             1.70400            5
## 4992             3.31100            5
## 4994            14.18427            5
## 4996             1.46800            2
## 4997             3.66700            6
## 4999             4.49900            5
## 5000             2.73800            4
## 5001            14.18427            5
## 5002            14.18427            5
## 5003            14.18427            5
## 5004            27.37100            5
## 5005            24.00000            5
## 5006            14.56600            5
## 5007             5.54400            5
## 5009             1.64200            2
## 5010             2.05000            4
## 5011             4.37900            5
## 5013            22.88500            5
## 5014             1.82300            2
## 5015             4.38200            5
```

```
## 5016             3.12900      2
## 5019             2.93500      5
## 5020             2.95800      5
## 5021            14.18427      2
## 5022            11.17400      5
## 5024            14.18427      4
## 5026             2.89500      2
## 5029             2.87800      2
## 5030             3.62100      2
## 5031            14.18427      3
## 5033            14.18427      5
## 5034             1.92900      4
## 5035             3.00300      2
## 5036             3.07000      5
## 5037             1.83600      2
## 5038             0.66700      4
## 5039             2.86000      5
## 5043            14.18427      5
## 5044             2.47600      5
## 5045             3.61400      5
## 5046             1.88500      4
## 5047            14.18427      5
## 5048             4.72300      5
## 5050            14.18427      2
## 5053             2.93200      5
## 5055             4.86200      5
## 5057             1.47400      2
## 5058             3.28600      5
## 5059            14.18427      5
## 5060             2.36900      4
## 5061             1.39900      2
## 5064             4.63500      5
## 5065            14.18427      2
## 5066             4.87800      5
## 5067            15.53800      5
## 5069             4.36200      5
## 5071             5.21900      5
## 5074             7.01600      5
## 5075             4.22800      3
## 5076             2.61900      2
## 5077             2.70800      5
## 5078            14.18427      5
## 5082            14.18427      6
## 5084             1.63000      5
## 5085             2.25600      5
## 5086             4.98800      5
## 5087            14.18427      2
## 5089            14.18427      5
## 5091             2.33400      2
## 5092            14.18427      6
## 5094            14.18427      5
## 5097            14.18427      5
## 5101             2.97000      5
## 5102             0.73700      2
```

```
## 5103            14.18427       4
## 5104            14.18427       5
## 5106             3.14000       5
## 5108            11.79200       5
## 5109             2.18400       2
## 5110             2.31800       4
## 5111             2.66400       5
## 5112            15.63000       5
## 5113             2.25600       4
## 5115             2.68400       4
## 5117            14.18427       2
## 5118             3.83700       5
## 5119            14.18427       5
## 5120            14.18427       5
## 5121            14.18427       4
## 5122             3.48800       5
## 5123             2.79600       4
## 5124            14.18427       5
## 5125             2.11800       2
## 5126            14.18427       5
## 5128            11.98500       5
## 5130            14.18427       2
## 5131             2.82700       5
## 5132            14.18427       5
## 5133            14.18427       4
## 5134             2.27000       5
## 5135             1.22600       2
## 5136            14.18427       4
## 5137            14.18427       5
## 5138            12.60000       5
## 5139            14.18427       5
## 5140            14.18427       5
## 5141            14.18427       2
## 5143             3.18600       5
## 5144            15.05300       5
## 5145             2.04300       5
## 5146             3.39700       4
## 5147             4.74700       5
## 5148            10.83200       5
## 5149             4.60500       6
## 5150            25.03100       5
## 5151             1.89300       5
## 5153            10.35100       5
## 5154             1.40100       2
## 5155             3.36100       2
## 5156            14.18427       6
## 5157            14.18427       2
## 5158            14.18427       4
## 5159             1.12300       2
## 5160             3.27300       2
## 5161             4.86000       5
## 5164            18.39000       5
## 5166            14.18427       5
## 5168             3.13600       5
```

```
## 5169             14.18427        4
## 5170              3.81900        2
## 5171              3.28900        2
## 5172             14.18427        6
## 5173             14.18427        5
## 5174              3.74000        2
## 5175              1.67600        5
## 5176             14.18427        5
## 5177             13.75400        5
## 5179             14.18427        5
## 5180              1.09900        5
## 5185              1.98800        2
## 5186             14.18427        2
## 5187             14.18427        5
## 5188              4.85700        5
## 5189             14.18427        5
## 5190             14.18427        5
## 5191              1.54300        2
## 5192              3.31700        2
## 5193             22.01500        5
## 5194              4.08600        2
## 5195             14.18427        6
## 5196             14.18427        5
## 5197              2.59000        5
## 5198              3.08800        5
## 5200             14.18427        4
## 5201              2.20300        2
## 5202             14.18427        2
## 5203              0.72200        2
## 5206              1.95600        4
## 5207              5.24400        5
## 5208             14.18427        5
## 5209              3.06600        2
## 5210              7.46300        5
## 5213              4.13500        5
## 5214             14.18427        5
## 5215             14.18427        2
## 5218              4.71600        5
## 5219              2.96600        5
## 5220              0.92600        5
## 5223              1.70000        4
## 5225              1.43200        2
## 5226              3.23900        4
## 5227             14.18427        2
## 5228              8.52500        5
## 5229             14.18427        5
## 5230             10.68500        5
## 5232              2.01200        4
## 5233             14.18427        5
## 5234              3.25300        5
## 5236              2.95600        5
## 5237              7.78200        2
## 5238              1.82100        5
## 5239             14.18427        2
```

```
## 5240          14.18427        6
## 5241           3.72100        5
## 5242           3.68900        2
## 5243          14.18427        4
## 5244           4.41300        5
## 5246           1.54300        2
## 5247           3.56100        2
## 5248           1.56000        2
## 5249           3.72600        5
## 5250          14.18427        5
## 5251           3.00800        5
## 5254           2.41000        5
## 5255           3.01400        2
## 5256           3.18800        6
## 5258           2.40900        2
## 5260           6.98400        5
## 5261          14.18427        5
## 5263           4.36300        5
## 5264           1.83200        4
## 5265           2.27700        5
## 5266           2.10300        5
## 5267           2.42800        5
## 5268          14.18427        4
## 5269           4.14100        5
## 5270           4.98000        5
## 5272          24.13500        5
## 5274          14.18427        5
## 5275          14.18427        2
## 5276           1.87100        4
## 5277           1.80700        2
## 5278          14.26200        5
## 5279          14.18427        2
## 5280           5.20900        5
## 5281          14.18427        3
## 5284          15.21100        5
## 5285          10.43800        5
## 5286           4.91200        5
## 5287           1.93900        5
## 5288          21.71000        5
## 5289           2.41900        4
## 5290          14.18427        6
## 5292           5.32500        5
## 5294          14.18427        4
## 5295           2.76500        5
## 5296           1.54300        2
## 5297          14.18427        6
## 5298           3.03100        2
## 5299           4.08100        5
## 5301           2.74400        5
## 5302          14.18427        5
## 5303           1.79100        2
## 5304          14.18427        2
## 5307           0.94900        5
## 5308           4.20800        5
```

```
## 5309               1.59700        2
## 5310               4.63600        2
## 5313               3.10100        5
## 5315               1.87400        2
## 5316               2.29000        2
## 5317               2.74400        6
## 5319              22.85700        5
## 5320               2.14100        3
## 5321               3.06200        5
## 5322               3.32000        5
## 5323              20.86700        5
## 5325               3.69900        5
## 5326              14.18427        2
## 5327               3.04900        5
## 5328              14.18427        5
## 5329               2.13500        5
## 5333              14.18427        5
## 5334               2.29500        4
## 5336              14.18427        5
## 5337               1.85800        4
## 5338               4.63400        5
## 5339               4.34800        2
## 5341              14.18427        5
## 5343              14.18427        5
## 5345               3.88600        5
## 5346               6.76800        5
## 5347              14.18427        5
## 5348               8.27900        5
## 5349              22.63300        5
## 5350               3.86600        4
## 5351              14.18427        5
## 5352               6.90000        5
## 5355               1.86700        2
## 5356               2.51900        5
## 5358               3.17000        5
## 5359               2.50300        5
## 5360               3.63900        2
## 5361               3.28600        5
## 5362              14.18427        2
## 5363               5.69000        5
## 5365               2.21600        2
## 5366               7.38500        5
## 5368               2.66300        2
## 5370               3.01400        2
## 5371               3.85400        4
## 5372              12.63300        5
## 5374               3.21700        5
## 5375               3.54300        5
## 5377              15.60000        5
## 5378              14.18427        4
## 5379             494.32700        5
## 5380               2.98600        2
## 5381               1.88500        4
## 5382              11.43000        5
```

```
## 5383              3.46800       5
## 5384              1.87600       2
## 5386              3.10200       2
## 5387              4.48500       5
## 5389             14.18427       5
## 5390              3.13700       5
## 5391             14.18427       5
## 5392              2.89400       5
## 5393              5.77400       5
## 5394              3.33300       4
## 5395              4.32100       5
## 5396              3.76100       2
## 5397              4.78600       6
## 5398             14.18427       4
## 5399              2.81000       5
## 5400              9.46900       5
## 5402             29.09000       5
## 5403             14.18427       2
## 5404             14.18427       2
## 5405             14.18427       5
## 5407             14.18427       5
## 5411              4.17000       2
## 5416             14.18427       5
## 5417             14.18427       6
## 5418             14.18427       5
## 5420              3.55900       5
## 5421              2.02400       2
## 5422             14.18427       2
## 5423            164.56300       5
## 5424             14.18427       5
## 5425              4.97100       5
## 5428             14.18427       5
## 5429              4.46600       5
## 5430             14.18427       2
## 5431             14.18427       6
## 5433             25.97500       5
## 5434              2.54200       1
## 5435              9.48200       5
## 5437             14.18427       6
## 5438             14.18427       5
## 5440              1.34200       5
## 5441             52.92900       5
## 5442              5.82400       5
## 5443              5.27100       5
## 5444             14.18427       1
## 5445              1.32900       2
## 5446             17.23500       5
## 5447              3.22000       5
## 5448              2.11600       2
## 5451              3.73300       5
## 5452              2.04400       2
## 5453              4.25400       5
## 5454              3.42600       2
## 5455              3.08900       5
```

```
## 5459             3.07700      5
## 5460            23.50600      5
## 5461             2.85700      5
## 5463            14.18427      5
## 5464             3.13900      2
## 5465             3.68800      5
## 5466            14.18427      5
## 5467             3.15800      4
## 5468             3.60700      5
## 5469             2.28000      6
## 5470             1.97200      2
## 5471             1.48000      2
## 5473             3.70200      5
## 5475             2.84100      2
## 5476            14.18427      2
## 5478             2.74800      2
## 5480             2.39800      2
## 5483            16.03500      5
## 5484             1.51200      2
## 5485            14.18427      5
## 5486             2.77700      2
## 5488             9.35000      5
## 5489            14.18427      5
## 5490             1.86800      2
## 5491            14.18427      6
## 5492            14.18427      5
## 5493             2.89300      5
## 5495            14.18427      5
## 5496             1.14000      2
## 5497             2.30300      5
## 5498             3.20900      5
## 5499             2.58300      5
## 5500             3.38900      2
## 5501             2.68700      5
## 5503            14.18427      5
## 5504             4.27200      5
## 5505            14.18427      2
## 5506             2.98300      5
## 5508             7.88100      5
## 5509             5.95300      5
## 5510             7.19000      5
## 5511            14.18427      5
## 5512           105.58000      5
## 5513             3.93000      5
## 5515             2.57700      2
## 5517            14.18427      5
## 5518            14.18427      1
## 5519            14.18427      5
## 5520             3.52400      5
## 5521             2.97000      4
## 5525             2.19400      2
## 5526            14.18427      4
## 5527             2.53300      2
## 5528             2.08900      5
```

```
## 5529            7.93600        5
## 5530           14.18427        5
## 5531            1.20100        5
## 5532           14.18427        5
## 5534            3.19900        5
## 5535            4.10600        2
## 5537           14.18427        6
## 5538            3.79600        6
## 5539            1.25000        2
## 5540           14.18427        6
## 5541           14.18427        5
## 5542            2.18800        4
## 5543            3.20100        2
## 5544            2.73700        2
## 5545            4.71000        5
## 5546            1.76000        4
## 5547           18.30400        5
## 5548           14.18427        2
## 5549            3.10300        4
## 5550           14.18427        5
## 5551            1.80800        4
## 5552           14.18427        5
## 5553           12.58600        5
## 5554            5.62800        5
## 5555           14.18427        5
## 5556           14.18427        5
## 5557            5.30700        4
## 5559            2.16100        4
## 5561           14.18427        4
## 5563            2.25000        5
## 5565           14.18427        4
## 5566           14.18427        5
## 5567           14.18427        5
## 5568            1.92000        5
## 5569           14.18427        2
## 5572           14.18427        5
## 5573            5.43500        5
## 5574            3.96100        5
## 5575            4.29700        5
## 5576            4.59600        5
## 5578            5.25200        5
## 5579           14.18427        2
## 5580            3.84700        5
## 5581            3.37300        5
## 5583           14.18427        6
## 5584           14.18427        5
## 5585           14.18427        5
## 5587           14.18427        5
## 5588            5.45900        5
## 5591            2.03500        2
## 5592           14.18427        4
## 5593           14.18427        5
## 5594            1.74400        2
## 5596            2.25400        4
```

```
## 5597              2.93700          5
## 5598              6.28300          5
## 5599              6.37400          5
## 5602              6.01700          5
## 5603              3.44600          5
## 5605              1.89700          2
## 5606              2.17400          2
## 5607              2.79600          2
## 5610             14.18427          1
## 5611              1.98100          2
## 5612              3.18000          5
## 5613             14.18427          5
## 5614              2.24100          5
## 5615              5.24400          5
## 5616              3.39800          5
## 5617             14.18427          5
## 5618              2.39800          5
## 5619              5.31800          5
## 5620             17.06600          5
## 5621             14.18427          6
## 5623             14.18427          5
## 5624              1.74900          2
## 5625              2.67400          5
## 5626             14.18427          5
## 5627             14.18427          2
## 5628              3.45100          5
## 5629              4.07200          4
## 5630             14.18427          1
## 5631             14.18427          2
## 5633              2.80700          2
## 5634              4.81600          5
## 5635             14.18427          2
## 5636              2.85000          5
## 5637             14.18427          5
## 5640              3.46800          5
## 5641              5.83200          5
## 5642              3.99500          5
## 5643              2.90800          5
## 5644              1.72900          4
## 5645             14.18427          2
## 5646             14.18427          5
## 5647              3.48500          5
## 5648              4.54700          5
## 5649              6.43000          5
## 5650              3.46400          4
## 5651              4.18100          5
## 5652              2.06300          4
## 5653              4.69200          5
## 5654              3.13500          5
## 5655             14.18427          5
## 5656              3.03000          5
## 5657             22.12400          5
## 5658              3.33000          5
## 5660              5.99700          5
```

```
## 5664              14.18427        2
## 5665               3.93700        5
## 5670              14.18427        4
## 5671              14.18427        1
## 5672              14.18427        5
## 5673              14.18427        4
## 5674              14.18427        1
## 5675              14.18427        5
## 5676               8.65300        5
## 5677               4.19300        5
## 5678              14.18427        5
## 5679               6.20400        5
## 5680              14.18427        5
## 5682               4.16000        5
## 5684               2.94700        6
## 5685              14.18427        5
## 5686              14.18427        4
## 5687              14.18427        5
## 5689              16.68000        5
## 5690               5.09700        5
## 5691              14.18427        2
## 5692              14.18427        2
## 5693               5.78900        5
## 5698              14.18427        5
## 5699               2.27100        2
## 5700               3.83100        5
## 5701               3.93200        2
## 5702              19.36900        5
## 5703               1.85000        2
## 5704              39.70100        5
## 5705               1.78600        5
## 5707               5.91000        5
## 5709              14.18427        5
## 5710               2.56500        2
## 5711               4.55300        5
## 5713               1.67700        5
## 5715               2.91600        5
## 5716              14.18427        5
## 5718              14.18427        2
## 5719               2.05100        4
## 5720               3.01200        5
## 5721              14.18427        2
## 5722               3.51200        2
## 5723               1.58400        2
## 5724              14.18427        5
## 5726               2.29000        5
## 5727              67.55300        5
## 5728               2.03800        6
## 5730              14.18427        5
## 5731               3.37000        6
## 5732               2.12000        4
## 5734              16.28700        5
## 5735               5.42000        5
## 5736              14.18427        2
```

```
## 5737             8.22700        5
## 5738             5.68000        5
## 5739            14.18427        5
## 5740             5.81700        5
## 5741            14.18427        5
## 5742             4.87100        5
## 5743             3.76400        5
## 5744            14.18427        5
## 5746             1.49500        2
## 5747             3.16000        5
## 5748            14.18427        5
## 5749             1.97200        2
## 5750            14.18427        2
## 5752             2.47400        5
## 5753            14.18427        2
## 5754            14.18427        1
## 5756            14.18427        6
## 5757            14.18427        6
## 5758             2.57300        5
## 5759             2.28600        5
## 5760             2.51500        2
## 5764             4.59300        5
## 5765            11.85400        5
## 5767             3.58200        5
## 5768             4.78600        5
## 5769             2.12200        2
## 5771             1.75700        4
## 5772             2.55300        2
## 5773             3.71400        5
## 5774            14.18427        5
## 5775            14.18427        5
## 5776             3.36100        2
## 5777             4.16600        5
## 5779             3.67900        6
## 5781             0.92600        2
## 5782             1.42600        2
## 5783             2.80000        4
## 5784            21.79900        5
## 5786             5.45400        5
## 5787             7.44000        5
## 5788            14.18427        5
## 5791             4.25000        5
## 5793            16.10900        5
## 5794             2.84500        5
## 5795             5.90600        5
## 5796             3.59100        5
## 5797             5.12800        5
## 5798             3.38000        5
## 5800             1.20200        2
## 5801             4.23000        2
## 5803            14.18427        5
## 5804             2.13000        4
## 5805             1.95100        2
## 5807            14.18427        5
```

```
## 5808            14.18427        4
## 5809            10.36000        5
## 5811             1.82400        2
## 5812             8.13000        5
## 5813            14.18427        2
## 5814            14.18427        5
## 5818            14.18400        5
## 5819             2.60400        6
## 5820             6.33600        5
## 5821             1.87200        4
## 5823            14.18427        6
## 5825             2.95800        2
## 5827            14.18427        2
## 5828            14.18427        5
## 5829            14.18427        5
## 5832            14.18427        5
## 5833             2.17400        4
## 5834            14.18427        5
## 5835            14.18427        5
## 5836             2.48600        2
## 5837            14.18427        5
## 5838             2.67000        2
## 5841             4.32800        2
## 5842             5.02800        6
## 5843            14.18427        2
## 5844             3.52400        2
## 5846            14.18427        2
## 5847            12.10300        5
## 5848            14.18427        5
## 5849             1.78000        5
## 5850             1.60700        2
## 5852            12.10900        5
## 5853             2.92800        5
## 5856             3.06200        5
## 5858             1.59800        4
## 5859            14.18427        2
## 5860             4.56000        5
## 5861             2.06700        4
## 5862            14.18427        5
## 5863            16.02700        5
## 5864            14.18427        4
## 5865             3.16000        5
## 5866            14.18427        5
## 5867             8.28000        5
## 5869            14.35600        5
## 5870             2.17900        4
## 5873             1.89600        5
## 5874            14.18427        5
## 5877             6.39000        5
## 5878             3.18200        5
## 5879             2.87900        5
## 5882            14.18427        2
## 5883             6.60100        5
## 5885             1.56100        2
```

```
## 5889            21.61800        5
## 5890             9.22900        5
## 5894            14.18427        5
## 5895            14.18427        5
## 5896            14.18427        4
## 5898             5.83600        5
## 5899             1.67700        2
## 5900            14.18427        5
## 5901             5.90600        2
## 5902             2.34400        4
## 5903            14.18427        5
## 5904             1.91300        5
## 5905            12.01400        5
## 5906             5.09000        5
## 5907            14.18427        6
## 5908             2.51300        5
## 5909             4.03300        4
## 5911             2.01800        2
## 5912             1.72300        2
## 5913            14.18427        2
## 5914             3.33100        5
## 5915             3.62800        2
## 5917             1.87200        4
## 5919             4.00900        5
## 5921             5.17400        5
## 5922             5.17200        5
## 5924            14.18427        5
## 5926            15.42800        5
## 5927             1.51900        2
## 5928            14.18427        1
## 5929             6.49500        5
## 5932             1.63000        2
## 5933            14.18427        5
## 5934             4.27800        2
## 5935             3.19400        4
## 5936             3.64500        2
## 5937             1.54400        2
## 5938             4.79800        6
## 5939             2.18000        5
## 5941             2.29000        4
## 5943            14.18427        6
## 5944            14.18427        5
## 5945             2.24400        5
## 5946            14.18427        4
## 5947            14.18427        5
## 5948            14.18427        5
## 5949             2.83000        5
## 5951             3.80000        6
## 5952            12.08200        5
## 5953            13.89500        5
## 5954             5.47500        5
## 5956             2.00100        2
## 5957             1.97300        5
## 5958             1.58000        2
```

```
## 5959              4.95300        5
## 5960              3.34600        5
## 5961             12.89900        5
## 5962             14.18427        5
## 5963             14.18427        5
## 5964              5.55900        5
## 5965             14.18427        5
## 5966             18.23900        5
## 5968             14.18427        5
## 5970              4.84500        5
## 5971             14.18427        5
## 5972              2.16000        5
## 5973              3.28100        5
## 5974             14.18427        2
## 5976              2.33400        4
## 5978             22.70700        5
## 5979              3.11300        5
## 5980             14.18427        6
## 5981              1.73900        2
## 5982              4.86400        5
## 5983              3.53700        2
## 5984             14.18427        5
## 5985             10.94000        5
## 5986              1.98900        2
## 5991              2.48400        2
## 5992              2.81300        4
## 5994              3.24800        5
## 5995             14.18427        5
## 5997             14.18427        5
## 5998             14.18427        6
## 6000              2.69400        2
## 6002              4.41300        5
## 6003              1.51500        4
## 6005             14.18427        4
## 6006              5.09400        2
## 6008             14.18427        5
## 6009              2.50400        5
## 6010             14.18427        5
## 6012              1.27300        5
## 6013             14.18427        5
## 6014              2.36000        5
## 6015              8.56900        5
## 6017             20.71000        5
## 6018              2.57600        5
## 6019              4.13800        5
## 6020              2.44200        4
## 6022             20.28200        5
## 6023             14.18427        6
## 6024             14.18427        5
## 6026              2.37900        6
## 6027              3.41100        5
## 6028              4.83000        5
## 6029             14.18427        5
## 6031             14.18427        4
```

```
## 6033            1.84500        4
## 6035           14.18427        5
## 6036            3.76700        5
## 6037           10.03800        5
## 6039            2.28500        4
## 6042           14.18427        6
## 6043           14.18427        5
## 6044            2.68000        4
## 6045            3.76400        2
## 6047            3.10800        5
## 6048           14.18427        4
## 6049           14.18427        5
## 6050            2.71500        5
## 6051            1.76600        2
## 6055           14.18427        6
## 6058           14.18427        4
## 6059            1.35000        2
## 6060            3.80200        2
## 6061           14.18427        6
## 6062           14.18427        5
## 6063           14.18427        5
## 6064           14.18427        5
## 6065           14.18427        3
## 6066           13.80000        5
## 6068            2.84900        2
## 6070            2.14200        2
## 6071            2.32500        4
## 6072           14.18427        6
## 6074            1.87500        4
## 6075            2.58200        5
## 6076           14.18427        5
## 6077            3.31400        5
## 6078           22.91400        5
## 6081            1.26700        2
## 6083           14.18427        4
## 6084           14.18427        5
## 6085            5.83500        5
## 6086           14.18427        5
## 6087            2.04600        2
## 6088            2.90800        2
## 6089            5.16500        5
## 6090           14.18427        5
## 6091           11.75000        5
## 6092            4.43200        5
## 6093            4.99600        5
## 6094            2.15500        2
## 6095           14.18427        6
## 6096           14.18427        2
## 6097            1.95300        2
## 6099            2.74700        2
## 6101            1.52600        5
## 6103            2.78100        2
## 6105            3.49500        5
## 6106            4.20400        2
```

```
## 6107               4.21500        5
## 6108               6.60000        5
## 6109              14.18427        5
## 6110              14.18427        4
## 6112               9.20700        5
## 6113               2.79700        2
## 6114               4.30400        5
## 6116              14.18427        2
## 6117              14.18427        4
## 6118              14.18427        5
## 6119              14.18427        4
## 6120              14.18427        5
## 6122               4.48700        5
## 6123              15.15200        5
## 6124              14.18427        5
## 6126              14.18427        5
## 6127               2.47000        4
## 6128               3.17500        5
## 6129               4.72900        5
## 6130               1.69500        2
## 6133               3.65100        5
## 6134               5.67200        5
## 6135              14.18427        5
## 6136              14.18427        4
## 6138               8.38500        5
## 6139               6.95300        5
## 6141               1.47700        2
## 6142              10.39700        5
## 6143              14.18427        1
## 6144              15.82600        5
## 6145              14.18427        6
## 6147               2.59000        4
## 6148               3.75600        5
## 6149               2.07800        4
## 6150              14.18427        5
## 6151               5.14600        5
## 6153               1.54800        2
## 6154              14.18427        6
## 6155              14.18427        5
## 6157              14.18427        5
## 6158              14.18427        4
## 6159              14.18427        5
## 6161               2.99600        5
## 6163              14.18427        5
## 6164               2.21100        4
## 6165               2.52600        5
## 6167              11.55200        5
## 6168               3.00600        5
## 6169              17.51000        5
## 6170               1.84200        5
## 6171               5.09000        5
## 6172               5.86200        5
## 6173              14.18427        5
## 6174               2.87700        5
```

```
## 6175               1.82800        6
## 6176             382.58000        5
## 6177               0.09600        5
## 6180               3.72100        5
## 6181              14.18427        5
## 6182              14.18427        6
## 6184              14.18427        5
## 6186               1.73600        4
## 6187               3.48400        4
## 6188               2.64100        5
## 6189               3.75700        2
## 6190               3.12800        2
## 6191              14.18427        6
## 6192              14.18427        5
## 6196               5.68900        5
## 6197              14.18427        1
## 6198               1.96200        2
## 6199              10.74000        5
## 6201               2.25500        4
## 6202              14.18427        2
## 6203              14.18427        5
## 6204               4.83000        5
## 6205              14.18427        5
## 6206               4.24500        6
## 6207              14.18427        5
## 6208               1.47700        2
## 6209              14.18427        6
## 6210               4.87200        5
## 6211               0.99300        2
## 6212              14.18427        1
## 6214               3.81200        5
## 6215               3.06900        5
## 6216               4.72200        5
## 6219              14.18427        6
## 6221               1.80200        2
## 6222               3.55100        5
## 6223              14.18427        2
## 6224              14.18427        2
## 6225               3.13500        5
## 6226               3.97400        2
## 6227               5.16200        5
## 6228              14.18427        5
## 6229              14.18427        5
## 6230               4.83600        5
## 6231              14.18427        5
## 6232               3.58100        5
## 6233               1.94300        4
## 6234              13.34900        5
## 6235               2.79100        2
## 6236               4.03900        2
## 6237              14.66200        5
## 6238              14.18427        5
## 6239               1.85600        4
## 6240               1.08500        4
```

```
## 6242            14.18427      6
## 6244            14.57300      5
## 6245            14.18427      5
## 6246             1.63800      2
## 6247             5.37000      5
## 6248             2.73700      4
## 6250             2.47600      2
## 6252            13.16100      5
## 6255             2.64900      5
## 6256             4.81000      5
## 6258            14.18427      5
## 6259             1.87900      2
## 6260             1.95800      2
## 6262             3.12200      5
## 6264             4.23200      5
## 6265            14.18427      5
## 6267             1.87900      2
## 6268            11.87100      5
## 6269            14.18427      5
## 6271            23.29000      5
## 6272            16.54700      5
## 6273             2.31500      2
## 6275            14.18427      6
## 6276             2.39300      5
## 6277             2.32500      5
## 6278            26.13200      5
## 6279             3.43900      5
## 6281            14.18427      1
## 6282            14.18427      2
## 6283             7.88300      5
## 6284             3.18000      5
## 6286            14.18427      4
## 6287            14.18427      5
## 6288             4.28100      5
## 6293             1.56100      2
## 6294             2.70600      5
## 6295             4.25100      5
## 6296            14.18427      5
## 6298             4.65600      5
## 6299            14.18427      5
## 6303             2.01300      2
## 6304             1.67200      2
## 6305             4.70300      5
## 6306            14.18427      5
## 6307             3.22600      5
## 6308            25.44000      5
## 6309             1.44200      2
## 6310            10.03000      5
## 6311             1.87600      4
## 6312             1.96400      5
## 6315             2.00800      4
## 6317             3.15400      2
## 6318            14.18427      5
## 6319             3.37000      2
```

```
## 6320             14.18427        2
## 6321             14.18427        2
## 6323              3.18700        2
## 6324              3.17400        2
## 6325             16.98700        5
## 6326             10.58700        5
## 6327              2.92500        5
## 6328             14.18427        5
## 6331              7.15500        5
## 6332             14.18427        5
## 6333             14.18427        2
## 6334              3.53300        2
## 6335              4.12700        5
## 6336             15.32800        5
## 6337             14.18427        5
## 6338              5.16700        5
## 6339             14.18427        2
## 6340             14.18427        5
## 6344              4.42300        5
## 6345              2.36200        2
## 6347              1.28700        2
## 6348             14.18427        4
## 6351             14.18427        3
## 6352             14.18427        5
## 6353             14.18427        4
## 6354              3.37500        2
## 6355              3.03200        5
## 6357             21.82300        5
## 6359             14.18427        5
## 6360              4.66500        2
## 6362             14.18427        5
## 6363              4.14200        2
## 6365             14.18427        2
## 6366              2.84900        2
## 6368              6.10500        5
## 6369             14.18427        2
## 6370              1.27800        5
## 6371              2.77600        5
## 6372              4.59000        6
## 6376              3.60600        2
## 6377              1.86300        2
## 6378              4.30200        5
## 6381              2.78500        4
## 6382              4.39500        5
## 6383              6.61000        5
## 6384              5.65200        5
## 6385             14.18427        5
## 6388             12.09300        5
## 6390              2.48500        4
## 6391              3.95500        2
## 6392             14.18427        2
## 6393              4.51800        5
## 6394              2.07100        4
## 6395             14.18427        5
```

```
## 6396                 2.71100          2
## 6397                14.18427          5
## 6398                 2.74100          4
## 6399                 1.63200          2
## 6400                 4.46400          5
## 6402                14.18427          5
## 6404                 1.35600          5
## 6405                 3.10300          4
## 6406                 1.94100          2
## 6408                 4.78800          5
## 6409                14.18427          4
## 6410                 4.68300          5
## 6411                 4.28800          6
## 6412                14.18427          6
## 6413                 3.69600          5
## 6414                14.18427          5
## 6415                 3.16500          5
## 6416                 4.91400          5
## 6417                14.18427          2
## 6418                 1.56500          2
## 6419                14.18427          1
## 6420                 2.16200          4
## 6421                 3.17600          2
## 6422                 5.94700          5
## 6423                14.40900          5
## 6424                 4.29300          2
## 6425                14.18427          5
## 6426                 1.86900          2
## 6427                 3.57400          5
## 6428                 1.65200          2
## 6429                 1.97000          2
## 6430                 7.29400          5
## 6431                14.18427          5
## 6432                14.18427          2
## 6433                 4.44500          5
## 6434                 3.01300          2
## 6435                 2.50900          2
## 6436                 4.58300          5
## 6438                 3.19300          2
## 6441                 3.56200          5
## 6442                 4.64000          2
## 6444                14.18427          2
## 6445                 1.54800          2
## 6447                14.18427          5
## 6448                14.18427          5
## 6449                29.44000          5
## 6451                 1.57700          5
## 6452                14.18427          2
## 6453                 1.76900          2
## 6454                 3.92100          5
## 6455                 2.33400          5
## 6456                 1.26700          2
## 6457                14.18427          5
## 6458                 2.90400          4
```

```
## 6459              2.08500        5
## 6461              2.53200        2
## 6462             14.18427        1
## 6463             14.18427        5
## 6464              4.30400        5
## 6465              2.51200        4
## 6467             14.18427        5
## 6468              1.74600        2
## 6469              2.95700        5
## 6470              3.21400        5
## 6472              4.62000        5
## 6473             14.18427        2
## 6474              3.12900        4
## 6475              2.25500        4
## 6477             14.18427        6
## 6479              4.74000        5
## 6480              5.74800        5
## 6481             14.18427        5
## 6482             14.18427        2
## 6483              1.98600        2
## 6484             14.18427        6
## 6485              6.70100        5
## 6486              2.39300        2
## 6489              2.23300        2
## 6492             10.53000        5
## 6493              1.75700        2
## 6494              3.28700        2
## 6497             14.18427        4
## 6499              2.51500        4
## 6500              2.33800        5
## 6502            299.08500        5
## 6503              3.98200        5
## 6504              2.03900        2
## 6506             14.18427        6
## 6508              2.30400        4
## 6509              4.01200        5
## 6510             14.18427        4
## 6512             14.18427        5
## 6514              2.29800        2
## 6516             14.18427        5
## 6517             14.18427        4
## 6519             14.18427        6
## 6520              3.48900        5
## 6521             14.18427        4
## 6522              2.21100        2
## 6524              4.83200        5
## 6525             21.05400        5
## 6526             14.18427        5
## 6527              1.95500        4
## 6528             14.18427        5
## 6529              4.26300        5
## 6530             14.18427        5
## 6531             14.18427        5
## 6532             11.74300        5
```

```
## 6533              1.74600       4
## 6534              3.46900       6
## 6535             14.18427       2
## 6537              3.70600       2
## 6538              3.96100       5
## 6539              2.69600       5
## 6540              2.86400       2
## 6541             14.18427       5
## 6542              1.68300       2
## 6543             14.18427       5
## 6544              6.26300       5
## 6545             14.18427       5
## 6546              2.92800       2
## 6547              1.88900       5
## 6549              4.13500       5
## 6550              6.49500       5
## 6551              2.86500       5
## 6552              1.41000       5
## 6553             14.18427       6
## 6554              1.93700       2
## 6555              1.61900       2
## 6557              4.40200       6
## 6558              2.07800       4
## 6560              3.32800       4
## 6561              2.01800       2
## 6563              1.62900       2
## 6565             14.18427       5
## 6566             14.18427       5
## 6567             14.18427       5
## 6568              2.78000       5
## 6570             14.18427       5
## 6572              4.74000       5
## 6573              3.71600       2
## 6574              1.17600       2
## 6576             14.18427       5
## 6577              2.86000       5
## 6578              1.10200       2
## 6580              4.60500       5
## 6581             14.18427       5
## 6582              1.40200       2
## 6583             12.29900       5
## 6584             14.18427       5
## 6586             14.18427       5
## 6587              3.74800       5
## 6588              5.07000       2
## 6589              4.60300       5
## 6592             24.98000       5
## 6593             14.18427       5
## 6595             14.18427       5
## 6597             14.18427       5
## 6599             14.18427       5
## 6601             14.18427       4
## 6602              2.57400       4
## 6605              1.24100       2
```

```
## 6607               11.62800        5
## 6611               14.18427        6
## 6612                2.01700        4
## 6613               14.18427        5
## 6614                1.63800        2
## 6617               14.18427        5
## 6618               14.18427        5
## 6619                1.60800        2
## 6621                2.17900        4
## 6622                2.03700        4
## 6623               14.18427        5
## 6624                3.38500        5
## 6625                3.03000        2
## 6626                4.25400        5
## 6627               54.17500        5
## 6628               14.18427        4
## 6629                5.88100        5
## 6630                2.64900        2
## 6632               14.18427        5
## 6633                7.15200        5
## 6634                2.64700        2
## 6636               14.18427        5
## 6637               14.18427        5
## 6639               14.18427        6
## 6640                3.90600        2
## 6641               25.11000        5
## 6642                3.22900        2
## 6643                4.86100        5
## 6645               14.18427        5
## 6648               23.88300        5
## 6649               14.18427        5
## 6650               14.18427        5
## 6652                3.28700        4
## 6653               14.18427        6
## 6654               14.18427        4
## 6655               14.18427        5
## 6656                4.25600        5
## 6658                3.22300        2
## 6659               14.18427        5
## 6661                1.58600        4
## 6662               14.18427        6
## 6663               14.18427        5
## 6665               14.18427        1
## 6667                1.91900        6
## 6668                2.65200        5
## 6670                2.06800        2
## 6671                1.34900        2
## 6672               14.18427        5
## 6673               14.18427        5
## 6674               14.18427        5
## 6675               14.18427        6
## 6677               14.18427        5
## 6678               14.18427        2
## 6679                1.97800        2
```

```
## 6680               4.50100           5
## 6681              16.40000           5
## 6684               2.49900           2
## 6686               3.60000           5
## 6687              14.18427           5
## 6688               4.81400           2
## 6689              14.18427           5
## 6690              14.18427           6
## 6691               2.22700           2
## 6693               3.59400           5
## 6694              14.18427           4
## 6695               2.35600           4
## 6696              14.18427           4
## 6697               1.83900           5
## 6698              10.16100           5
## 6700              14.18427           5
## 6702              14.18427           6
## 6704               2.70000           5
## 6705               1.06100           2
## 6708              14.18427           5
## 6709              14.18427           3
## 6710               4.26400           5
## 6711              13.35000           5
## 6712              14.18427           5
## 6713               4.55800           5
## 6714              14.18427           2
## 6715               3.09100           2
## 6717               5.42600           5
## 6718               3.09200           5
## 6720               3.12300           2
## 6722               1.78600           2
## 6723              14.18427           4
## 6725               5.10300           5
## 6727              14.18427           6
## 6728               3.40600           4
## 6729               5.33800           5
## 6730               3.16600           4
## 6731               3.33500           2
## 6732               3.24800           5
## 6733               2.78000           5
## 6734               5.14000           5
## 6735               2.19600           2
## 6737              14.18427           2
## 6738               2.34000           4
## 6739               1.84300           2
## 6741               2.68200           5
## 6743              12.20200           5
## 6744               2.20000           5
## 6747              14.18427           2
## 6749               4.21700           5
## 6751               3.07800           4
## 6752              25.00300           5
## 6754              14.18427           5
## 6755               3.29600           4
```

```
## 6756             6.26400          5
## 6757             2.38000          6
## 6758            14.18427          5
## 6759             2.34100          5
## 6761             5.86000          5
## 6762             3.40600          4
## 6763             2.83600          5
## 6764             3.79400          5
## 6766             2.27000          4
## 6767             4.97700          2
## 6768             1.46500          2
## 6771            14.18427          2
## 6772             6.38300          5
## 6773             2.31600          2
## 6774             1.92500          5
## 6775            14.18427          5
## 6776             2.54800          1
## 6779             4.70800          5
## 6780             3.81700          5
## 6781            14.18427          2
## 6782             2.36000          4
## 6783             3.85300          5
## 6784            14.18427          4
## 6785            14.18427          5
## 6786            20.87400          5
## 6787             4.03000          5
## 6788             3.43900          5
## 6791            10.63000          5
## 6792             2.85600          5
## 6793            15.57100          5
## 6794             2.22100          2
## 6795             2.55100          2
## 6797            14.18427          4
## 6798            11.20800          5
## 6799             3.66700          5
## 6800             4.33800          5
## 6801            13.60600          5
## 6802            11.92100          5
## 6803             3.53800          6
## 6806             5.09600          5
## 6807             4.49300          5
## 6809             2.42600          5
## 6810             2.01700          2
## 6811             2.71600          4
## 6812             3.50200          5
## 6813             3.20300          2
## 6815             1.36700          2
## 6816            14.18427          5
## 6817             4.84900          5
## 6818            14.18427          1
## 6819            38.60400          5
## 6820             1.66800          2
## 6821             3.18100          6
## 6822             0.98800          2
```

```
## 6823                 2.10700           4
## 6825                 3.68200           2
## 6826                14.18427           5
## 6827                 1.33000           5
## 6828                 1.85000           2
## 6830                14.18427           1
## 6831                14.18427           4
## 6832                14.18427           5
## 6833                14.18427           2
## 6834                 3.45700           5
## 6835                14.18427           5
## 6837                 5.78300           5
## 6838                 3.30900           5
## 6839                 3.49200           5
## 6840                 2.88000           2
## 6842                 1.19200           4
## 6843                 1.35900           2
## 6844                 3.25700           5
## 6845                 3.45900           5
## 6847                 4.73300           5
## 6849                14.18427           1
## 6850                 1.53100           2
## 6851                14.18427           5
## 6852                14.18427           5
## 6853                14.18427           4
## 6854                 3.52600           5
## 6855                 6.95400           5
## 6856                 3.96500           2
## 6858                14.18427           5
## 6859                 2.33100           6
## 6860                 2.62900           2
## 6861                 1.18700           2
## 6862                 2.39100           5
## 6864                14.18427           5
## 6865                 4.79100           5
## 6866                 4.69900           5
## 6867                14.18427           5
## 6868                 4.52400           5
## 6869                 6.46600           5
## 6870                14.18427           4
## 6872                14.18427           5
## 6873                14.18427           4
## 6874                14.18427           5
## 6875                 1.61500           2
## 6877                 4.55500           5
## 6878                14.18427           2
## 6879                14.18427           5
## 6881                14.18427           4
## 6882                 8.86900           5
## 6883                14.18427           4
## 6884                14.18427           5
## 6885                 7.22700           5
## 6886                14.18427           5
## 6888                14.18427           5
```

```
## 6889           14.18427      5
## 6890            6.20800      5
## 6891           18.60900      5
## 6892           15.25100      5
## 6893            2.53700      4
## 6894           14.18427      1
## 6895            2.19500      2
## 6896            2.02500      2
## 6899           14.18427      2
## 6901            2.16700      4
## 6903            2.53300      1
## 6908            2.31000      5
## 6909            1.64500      5
## 6910           14.18427      5
## 6911           14.18427      5
## 6912           14.18427      5
## 6913            4.83300      5
## 6914            2.20300      2
## 6915           14.18427      1
## 6916           23.25000      5
## 6917            3.92300      5
## 6918           14.18427      5
## 6919            4.61500      5
## 6921           14.18427      5
## 6923            2.34600      5
## 6924            2.52600      2
## 6925            2.50800      2
## 6926            5.44300      5
## 6927            4.31100      5
## 6928           14.18427      4
## 6929            4.19800      5
## 6930           14.18427      5
## 6931            9.30000      5
## 6932           17.13000      5
## 6933           22.76100      5
## 6934            1.38400      2
## 6935           14.18427      5
## 6938            1.46300      5
## 6939            2.42300      5
## 6941           24.07500      5
## 6942            1.98100      5
## 6943           14.18427      5
## 6945            2.56900      4
## 6946           14.18427      5
## 6947           26.61000      5
## 6948           14.18427      6
## 6949           14.18427      5
## 6950            1.41400      2
## 6952           14.18427      5
## 6955            3.87400      2
## 6956            2.18600      4
## 6958            2.53800      5
## 6959            2.97400      4
## 6960           14.18427      5
```

```
## 6962             1.02800        2
## 6963             6.61200        5
## 6965             1.96000        2
## 6966             5.52500        5
## 6969            14.18427        2
## 6970             2.04200        4
## 6971             2.33500        4
## 6973            14.18427        2
## 6974            23.88900        5
## 6978            14.18427        5
## 6979             2.00600        4
## 6980             7.38800        5
## 6981             3.45000        4
## 6982             4.22300        2
## 6983            14.18427        5
## 6984             1.45400        2
## 6985             2.19000        2
## 6986             6.18000        5
## 6987            14.18427        5
## 6988            14.18427        2
## 6989             3.88100        2
## 6990             6.04000        5
## 6991            14.18427        5
## 6992            10.33700        5
## 6996            14.18427        5
## 6997             3.33100        4
## 6999            14.18427        5
## 7000             2.08000        2
## 7001            14.18427        2
## 7002            25.00000        5
## 7003             1.97300        5
## 7004             2.55400        4
## 7005            11.43200        5
## 7006             2.76200        2
## 7007             3.16700        4
## 7009            14.18427        6
## 7010             3.51500        5
## 7011            14.18427        2
## 7012             2.50800        4
## 7013             3.49900        5
## 7014            12.36500        5
## 7015             1.55100        2
## 7016            14.18427        5
## 7017             1.26300        2
## 7018            14.18427        5
## 7021            14.18427        5
## 7022             1.00900        5
## 7023             3.19200        5
## 7025             3.10200        4
## 7026             4.33200        5
## 7027             4.53300        5
## 7028             2.22000        5
## 7029             2.98400        2
## 7030            14.18427        3
```

```
## 7031          14.18427      5
## 7032          14.18427      5
## 7034          18.15700      5
## 7036           2.04800      5
## 7037          14.18427      6
## 7038          22.87400      5
## 7039           3.63000      5
## 7040          13.49700      5
## 7043        1176.94500      5
## 7044          10.02800      5
## 7045          11.33100      6
## 7046           1.79500      2
## 7048           1.54000      2
## 7049           2.34800      2
## 7050           4.17900      5
## 7051           6.99000      5
## 7054           2.78900      4
## 7055           3.46800      2
## 7056          14.18427      2
## 7057           2.95900      4
## 7058           4.12200      6
## 7059           6.92300      5
## 7060           3.92900      5
## 7061           4.06500      2
## 7063           1.83100      2
## 7065           4.21800      5
## 7067           2.26500      2
## 7068           2.15500      4
## 7069           1.43500      2
## 7070          11.02100      5
## 7071           2.71400      5
## 7072           2.38000      5
## 7074           1.60300      2
## 7075          14.18427      2
## 7076           6.85700      5
## 7077           4.79000      5
## 7078          14.18427      5
## 7079          21.97800      5
## 7080           1.94900      2
## 7083           2.29700      2
## 7086           3.82900      5
## 7087          17.40400      5
## 7088          14.18427      1
## 7089           2.38800      4
## 7090           4.92600      2
## 7091          14.18427      1
## 7093          14.18427      4
## 7094           4.46400      5
## 7095          14.18427      1
## 7098          14.18427      5
## 7099          14.18427      2
## 7101          14.18427      4
## 7104          14.18427      5
## 7105           6.21000      5
```

```
## 7106              14.18427         5
## 7107               0.42100         5
## 7108               2.67800         5
## 7110               8.52600         5
## 7111              14.18427         5
## 7112              14.18427         2
## 7115               9.73900         5
## 7116               3.70800         2
## 7118              46.63700         5
## 7119               4.36600         5
## 7120               4.31200         5
## 7121               3.95600         2
## 7122              14.18427         6
## 7123               4.90100         5
## 7125               1.72200         2
## 7126              24.27200         5
## 7128               4.28900         5
## 7129               1.78600         2
## 7130               1.99400         2
## 7131               1.91500         4
## 7133               2.32700         4
## 7134               1.62600         5
## 7135               1.45900         2
## 7137              14.18427         5
## 7139               2.69500         5
## 7140               3.59000         4
## 7141              14.18427         5
## 7142               4.71700         5
## 7143               1.62900         2
## 7144               1.50400         2
## 7145              14.18427         5
## 7146              14.18427         5
## 7147               3.12000         2
## 7150              14.18427         5
## 7152               4.71400         5
## 7153               3.00600         4
## 7154              24.58400         5
## 7155               7.86500         2
## 7156              22.06600         5
## 7157              14.18427         4
## 7159               4.07700         5
## 7161               1.99800         4
## 7163               1.90000         2
## 7164               4.31200         5
## 7166               5.53900         5
## 7167               4.90000         5
## 7168               5.76100         5
## 7170               1.18300         2
## 7171               3.93900         5
## 7173               2.25800         5
## 7175              14.18427         5
## 7176              14.18427         2
## 7178               4.22300         5
## 7179               2.87300         4
```

```
## 7180             4.88200        5
## 7181             2.53300        5
## 7182             9.38600        5
## 7184             1.72400        4
## 7186             8.55300        5
## 7187             3.22900        5
## 7188             3.81500        5
## 7189             4.42900        5
## 7191             2.40100        2
## 7192            14.18427        5
## 7193             2.05300        2
## 7194            14.18427        6
## 7196             3.90700        2
## 7197             4.16800        5
## 7199             4.43900        5
## 7200            14.18427        6
## 7203            14.18427        5
## 7204             5.72400        5
## 7206            14.18427        5
## 7207             9.04000        5
## 7209            14.18427        5
## 7211            14.18427        5
## 7212            14.18427        6
## 7213            14.18427        5
## 7215            14.18427        5
## 7219             2.19600        2
## 7220            14.18427        5
## 7221            14.18427        5
## 7224            14.18427        5
## 7225            14.18427        5
## 7226             5.19200        5
## 7227             1.17600        2
## 7228             7.75700        5
## 7230             3.89500        5
## 7231             3.30800        5
## 7232             4.86300        5
## 7233            14.18427        2
## 7235             4.14900        5
## 7236             5.26600        5
## 7237             3.76300        5
## 7239            14.18427        5
## 7240            14.18427        5
## 7242             3.74100        4
## 7243             5.89300        5
## 7244             1.60900        2
## 7245             1.55800        2
## 7246            14.18427        5
## 7247             1.41100        2
## 7249            14.18427        4
## 7250             2.55500        4
## 7253             1.18900        2
## 7256             5.01600        5
## 7257             1.55900        4
## 7258         41765.89400        7
```

```
## 7259             14.18427      5
## 7260              2.29700      4
## 7263             14.18427      6
## 7264             14.18427      4
## 7265              2.15500      4
## 7266              4.27000      5
## 7269              6.12400      5
## 7270              2.97600      6
## 7271              4.07200      5
## 7272             14.18427      5
## 7273              4.93700      5
## 7274              1.77000      2
## 7277              4.10600      5
## 7278             14.18427      5
## 7279             14.18427      2
## 7280             14.18427      5
## 7282             14.18427      5
## 7283             14.18427      5
## 7284             14.18427      4
## 7285              4.67000      5
## 7287              2.25600      2
## 7288              2.62300      6
## 7289              1.72700      2
## 7292              2.08400      4
## 7293             14.18427      5
## 7294              4.28500      5
## 7295             14.18427      1
## 7297              1.36900      2
## 7300              4.11600      5
## 7302             14.18427      5
## 7303              4.26000      5
## 7305              2.23800      4
## 7306              2.44300      4
## 7307              1.75900      4
## 7308              3.35700      5
## 7309              5.29200      2
## 7310              3.46000      2
## 7311             14.18427      5
## 7312              4.45400      5
## 7314             14.95900      5
## 7316             14.18427      5
## 7318             14.18427      2
## 7319             21.00000      5
## 7322             20.13300      5
## 7324             14.18427      2
## 7326              1.66100      5
## 7329              4.16100      2
## 7330             14.18427      1
## 7332              3.12100      4
## 7333             14.18427      6
## 7334              6.44800      5
## 7335              2.68700      5
## 7336              2.04700      4
## 7337              3.44300      5
```

```
## 7338            14.18427        5
## 7339            23.43500        5
## 7340             3.19500        4
## 7341             0.93300        5
## 7342            14.18427        5
## 7343            14.18427        5
## 7346             2.98300        5
## 7347             3.25200        2
## 7348             3.39300        4
## 7350            14.18427        2
## 7351             8.34000        5
## 7352            14.18427        5
## 7353            14.18427        5
## 7354             2.57700        4
## 7355             6.04000        5
## 7358             1.41900        2
## 7359             4.29200        5
## 7360             2.21100        2
## 7361             9.98200        5
## 7363             1.47400        2
## 7365             2.23700        4
## 7366            14.18427        6
## 7367            14.04800        5
## 7368            14.18427        5
## 7369             4.04100        2
## 7370             6.64000        5
## 7372             3.84700        5
## 7375            20.97500        5
## 7376             1.58400        2
## 7377            14.18427        2
## 7380            14.18427        5
## 7381             1.56800        2
## 7382             1.80000        5
## 7383             2.10800        5
## 7384            14.18427        5
## 7387            14.18427        2
## 7388             3.04200        2
## 7389             4.44900        5
## 7390             3.36600        5
## 7391            11.74000        5
## 7392            12.03800        5
## 7393             4.98000        5
## 7394             2.81400        6
## 7395            14.18427        6
## 7396            14.18427        5
## 7397             3.35000        5
## 7398             2.13100        5
## 7399             1.95000        4
## 7400            14.18427        5
## 7402            14.18427        5
## 7403            14.18427        6
## 7404             2.94900        5
## 7405             5.26600        5
## 7406            14.18427        4
```

```
## 7408            12.84000        5
## 7409            16.68700        5
## 7410             2.81200        2
## 7411             3.45700        5
## 7412            14.18427        1
## 7413            18.69800        5
## 7414             2.42100        4
## 7416            14.18427        5
## 7417             3.51400        5
## 7418             3.57800        5
## 7419            14.18427        5
## 7420            14.18427        5
## 7425             2.03000        4
## 7426            14.18427        5
## 7430             3.53200        2
## 7431             2.22700        2
## 7433             5.25100        5
## 7434             2.05700        5
## 7435             2.15000        5
## 7436            14.18427        6
## 7437             2.60600        2
## 7438            14.18427        6
## 7439            14.18427        5
## 7441             4.33000        5
## 7442             2.10400        5
## 7443             0.19600        5
## 7445            10.18000        5
## 7446             2.33100        2
## 7447            14.18427        5
## 7448            14.18427        6
## 7451             2.91400        5
## 7452            14.18427        4
## 7453             2.75900        2
## 7454             2.45700        2
## 7455            14.18427        5
## 7456             1.64700        5
## 7458             1.39500        2
## 7459            14.18427        5
## 7462            14.18427        4
## 7464            14.18427        1
## 7465            14.18427        5
## 7466            14.18427        5
## 7467            14.18427        5
## 7469             1.96600        2
## 7470             3.07100        5
## 7471             7.21600        5
## 7474            14.18427        4
## 7475             2.03600        5
## 7477             2.64800        4
## 7478            14.18427        2
## 7480            14.18427        2
## 7481             4.27600        5
## 7484            14.18427        5
## 7485            14.18427        5
```

```
## 7486          14.18427      2
## 7487          14.87000      5
## 7488           1.40500      2
## 7489           1.50800      4
## 7490          22.80600      5
## 7491           4.38200      5
## 7492          14.18427      6
## 7493          14.18427      2
## 7494          14.18427      5
## 7495           3.02800      2
## 7496          15.85200      5
## 7497           1.37100      2
## 7498           2.58000      4
## 7499          14.18427      2
## 7500           2.70400      5
## 7503           3.62800      5
## 7504          14.18427      5
## 7505          14.18427      5
## 7506           2.42100      2
## 7507           3.04700      5
## 7509          14.18427      5
## 7510          14.18427      5
## 7511           1.73600      2
## 7513          14.18427      2
## 7514           2.96200      5
## 7515          14.18427      1
## 7516          14.18427      5
## 7517           3.10200      2
## 7518          14.18427      5
## 7519           4.79000      5
## 7520           2.80000      2
## 7521          14.18427      5
## 7522          14.18427      5
## 7523          14.18427      5
## 7524           1.86600      2
## 7525          13.04700      5
## 7526           1.44900      2
## 7527           4.03100      4
## 7530           4.86800      5
## 7532           2.72500      4
## 7533           2.57100      4
## 7534          14.18427      5
## 7536           2.84600      5
## 7537           4.80300      5
## 7539           1.67900      4
## 7541          14.18427      5
## 7542           9.30000      5
## 7543          14.18427      5
## 7544           4.54100      5
## 7545          21.38100      5
## 7546           2.42700      2
## 7547           5.29500      5
## 7548           1.76400      2
## 7549          14.18427      5
```

```
## 7550             2.22600      4
## 7551            13.92800      5
## 7552             4.77700      5
## 7556             1.69300      4
## 7557            14.18427      5
## 7558            14.18427      6
## 7559            14.18427      2
## 7560             1.76700      2
## 7561             7.93300      5
## 7562             1.80500      4
## 7563            14.18427      5
## 7565            14.18427      5
## 7566            14.18427      5
## 7567            14.18427      5
## 7568             2.10200      5
## 7570             2.59300      2
## 7571             1.45900      2
## 7572             2.71700      2
## 7573             4.09000      5
## 7575             3.31500      5
## 7576            14.09000      5
## 7577            11.99300      5
## 7578            14.18427      5
## 7579             4.95900      5
## 7580            15.15000      5
## 7581            14.18427      2
## 7582            14.18427      1
## 7583             2.44300      5
## 7584             3.33900      2
## 7587             3.88800      5
## 7588            14.18427      2
## 7589             6.49300      5
## 7590             2.82100      2
## 7593             3.20200      5
## 7594             2.58500      2
## 7595            14.18427      5
## 7596            14.18427      5
## 7597            10.82100      5
## 7598             4.16100      4
## 7599             5.91200      5
## 7601            14.18427      5
## 7602             4.31900      5
## 7606            14.18427      5
## 7607             1.84100      4
## 7608             2.04500      2
## 7609            14.18427      5
## 7610             2.32400      2
## 7613            14.18427      5
## 7614             2.04100      4
## 7615             5.83000      5
## 7617            14.18427      5
## 7618             2.08000      2
## 7619            14.18427      1
## 7620             1.98800      5
```

```
## 7621          14.18427        2
## 7623           8.82200        5
## 7624           3.05100        2
## 7625          14.18427        5
## 7627           4.74500        5
## 7629          14.18427        5
## 7630           4.16300        5
## 7631          14.18427        5
## 7632           3.65500        6
## 7633           3.71800        5
## 7634           2.62000        5
## 7636          14.18427        2
## 7638           2.87500        5
## 7639          14.18427        5
## 7640          14.18427        5
## 7641          14.18427        2
## 7642           3.10600        5
## 7643           2.81000        5
## 7645           3.36700        5
## 7646          28.29000        5
## 7648          14.18427        5
## 7649          14.18427        5
## 7650          14.18427        5
## 7652           4.59800        6
## 7654          14.18427        5
## 7656          14.18427        2
## 7657           8.37100        5
## 7658           4.76500        5
## 7660          12.64500        5
## 7661          14.18427        5
## 7662          14.18427        3
## 7663          14.18427        2
## 7665           2.02100        4
## 7666           2.83600        5
## 7667          14.18427        5
## 7668          14.18427        2
## 7669           0.53200        4
## 7670          22.46300        5
## 7671          14.18427        2
## 7672           2.60900        2
## 7675           1.94100        2
## 7676           4.30800        5
## 7677           3.55800        5
## 7678           5.43900        5
## 7680           1.56700        2
## 7681           1.68000        6
## 7682          23.31900        5
## 7683           2.57400        5
## 7685           1.20700        2
## 7687           2.45500        4
## 7688           2.32900        2
## 7689          14.18427        5
## 7691           2.03500        2
## 7692          14.18427        5
```

```
## 7693                1.46900         2
## 7694                1.84300         2
## 7695                4.67700         5
## 7698                3.61700         5
## 7699                5.89800         5
## 7700                2.35400         4
## 7701                3.24400         2
## 7702                7.82100         5
## 7704               14.18427         5
## 7706                2.28300         4
## 7708                1.45400         5
## 7711                2.94100         5
## 7712                3.09300         2
## 7713                4.11700         5
## 7714               14.18427         2
## 7715                1.79900         2
## 7717               14.18427         5
## 7718                3.06500         5
## 7719                2.60800         5
## 7720                4.62300         5
## 7721                7.27900         5
## 7722                2.05300         2
## 7723                1.77100         2
## 7725                2.75600         5
## 7726               22.07000         5
## 7727                8.70600         5
## 7728                2.55600         2
## 7729                5.55600         5
## 7731                3.42600         5
## 7732               14.18427         2
## 7733                2.93000         2
## 7734                2.38900         4
## 7735               14.18427         5
## 7737                4.74500         5
## 7738               14.18427         4
## 7739                2.89200         2
## 7740               12.41700         5
## 7741                1.19800         2
## 7742                4.08200         5
## 7743               14.55500         5
## 7745               14.18427         6
## 7746                2.53000         5
## 7748                4.19300         5
## 7749               14.18427         1
## 7750                5.61900         5
## 7753                2.36100         4
## 7755                3.44400         5
## 7756                1.98100         2
## 7757               14.18427         5
## 7759                2.75400         5
## 7760                1.98800         4
## 7761               14.18427         5
## 7762               14.18427         1
## 7763                4.47800         5
```

```
## 7764                2.17700        2
## 7765               14.18427        5
## 7766                5.15300        5
## 7767                3.36300        5
## 7768                1.74800        4
## 7769               16.87900        5
## 7771               14.18427        1
## 7772                4.41000        2
## 7774                1.38700        2
## 7775                2.11300        2
## 7776                2.67600        2
## 7777                3.82500        5
## 7779               14.18427        5
## 7782                2.13700        2
## 7783                5.83800        5
## 7784               14.18427        4
## 7785                8.63000        5
## 7786               14.18427        4
## 7787                2.02500        4
## 7788                2.08300        2
## 7789                4.07500        2
## 7790               14.18427        5
## 7791                2.51000        5
## 7793                7.50000        5
## 7794                2.99300        5
## 7795                2.14100        2
## 7797                4.89000        5
## 7798                3.03300        5
## 7799               14.45000        5
## 7800                9.19300        6
## 7801                4.54200        5
## 7802                5.37400        5
## 7803               14.18427        5
## 7804                1.77700        2
## 7807               14.18427        5
## 7808                4.33600        5
## 7809                2.20200        2
## 7810                3.05100        5
## 7812                2.32900        5
## 7813                5.95300        6
## 7815               14.18427        5
## 7816               14.18427        2
## 7819               14.18427        2
## 7820                2.43300        4
## 7822                2.90300        6
## 7823                2.37100        5
## 7824                3.29000        2
## 7825               14.18427        5
## 7826               14.18427        5
## 7827                5.58500        6
## 7828               14.18427        4
## 7830                2.34100        2
## 7831                4.64600        2
## 7832               15.97000        5
```

```
## 7833               9.88800          5
## 7834              14.18427          5
## 7835               2.02100          2
## 7837               2.30600          2
## 7840              14.18427          1
## 7841               1.73500          2
## 7845              14.18427          2
## 7846              14.18427          5
## 7849               2.72300          2
## 7851               1.83100          4
## 7852               3.30700          4
## 7853               1.03700          2
## 7854              13.97100          5
## 7855               3.25000          5
## 7856               2.03100          5
## 7857               2.09900          5
## 7858               2.19800          5
## 7859               2.12200          5
## 7860              14.18427          4
## 7861               8.52300          5
## 7862              27.09900          5
## 7863              14.18427          5
## 7866               2.14500          5
## 7867               2.38200          4
## 7868               5.84600          5
## 7869               1.10100          2
## 7870              16.80900          5
## 7871               6.08600          5
## 7872               2.63400          2
## 7873              14.18427          5
## 7874               1.81300          2
## 7877              14.18427          1
## 7878              12.31800          5
## 7879              14.18427          2
## 7880               2.58000          4
## 7881              14.18427          2
## 7882              14.18427          5
## 7884               1.61900          2
## 7885               2.07800          4
## 7886              14.18427          6
## 7887               2.13300          4
## 7888              14.18427          5
## 7890               4.22700          5
## 7891              14.18427          5
## 7892               3.81600          4
## 7893               1.55600          2
## 7894               1.33400          2
## 7895              14.18427          5
## 7896               2.77300          5
## 7897               3.20100          2
## 7901               2.71200          5
## 7902              14.18427          5
## 7905              14.18427          5
## 7906              14.18427          5
```

```
## 7908          2.06000      4
## 7910          0.97000      2
## 7911          1.89000      5
## 7913          3.58900      5
## 7914          4.11800      5
## 7916          3.62600      5
## 7917          2.74900      5
## 7918         58.01900      5
## 7919          2.79800      5
## 7920         14.18427      5
## 7921          3.95700      5
## 7922         14.18427      5
## 7923         14.18427      4
## 7924          3.53600      5
## 7925          5.39800      5
## 7926          5.07100      5
## 7927          2.86700      5
## 7929          3.60900      5
## 7930          3.91000      2
## 7931          9.56700      5
## 7932          2.75900      5
## 7934         17.38800      5
## 7935          3.14700      5
## 7936          3.06100      5
## 7937          1.65300      5
## 7938          2.49700      2
## 7939         14.18427      5
## 7942          1.84900      2
## 7943          1.43300      2
## 7946          4.30600      2
## 7947         15.48700      5
## 7948          6.48000      6
## 7950          3.44100      2
## 7951          2.83000      5
## 7953          4.45900      5
## 7955         14.18427      2
## 7956          3.27200      2
## 7957         14.18427      5
## 7958          3.81700      5
## 7959         14.31800      5
## 7960          3.34700      5
## 7961         14.18427      2
## 7962          2.00700      4
## 7963          1.17000      2
## 7964          6.56700      5
## 7965          1.77500      2
## 7967          3.62500      5
## 7968          3.62200      4
## 7969         14.18427      5
## 7971         14.18427      5
## 7972         14.18427      5
## 7973         14.18427      5
## 7974         14.18427      5
## 7977          4.13600      2
```

```
## 7978              1.64100       4
## 7979             14.18427       5
## 7980              3.91000       5
## 7981              4.11400       2
## 7982              2.09200       4
## 7984              4.22000       5
## 7985             14.18427       5
## 7988             14.18427       5
## 7990              2.82700       5
## 7992             14.18427       5
## 7994              2.03900       2
## 7995             14.18427       5
## 7996              5.25100       5
## 7997              2.80400       5
## 7999             14.18427       5
## 8002             14.18427       1
## 8003              3.33900       2
## 8004              5.65400       5
## 8005              2.68700       5
## 8006              1.66500       5
## 8009             14.18427       5
## 8010             11.63000       5
## 8011              1.24000       4
## 8012             14.18427       5
## 8013              5.35000       5
## 8014              2.22200       2
## 8015              2.99400       5
## 8016             14.18427       2
## 8017              3.07300       5
## 8018             14.18427       5
## 8019              1.46600       2
## 8020              4.27700       5
## 8021             14.18427       5
## 8022              2.48500       5
## 8023             14.18427       5
## 8024             14.18427       5
## 8025              1.61700       2
## 8027              3.30500       2
## 8028              4.91000       5
## 8029              2.52700       4
## 8030             14.18427       5
## 8031              3.92400       5
## 8032              3.78100       2
## 8033              8.94000       5
## 8034             14.18427       4
## 8035             14.18427       5
## 8037              3.80500       5
## 8038              2.28300       2
## 8039              1.90000       2
## 8040              2.44100       4
## 8041             14.18427       4
## 8042              3.30100       5
## 8043              2.15400       2
## 8044             14.18427       5
```

```
## 8045             23.23700         5
## 8046             14.18427         4
## 8047             25.38000         5
## 8048              4.31100         5
## 8049              3.28900         5
## 8051             14.18427         5
## 8054              5.09300         5
## 8055              5.65300         5
## 8056              4.36900         5
## 8057              2.62900         5
## 8058             14.18427         5
## 8062              1.88800         5
## 8063              2.72200         4
## 8065              6.32500         5
## 8066             14.18427         5
## 8068             14.18427         5
## 8069              4.21100         5
## 8070             17.13100         5
## 8072              2.67600         5
## 8073              3.59900         5
## 8074              1.70700         4
## 8075             20.51100         5
## 8076              1.33200         2
## 8077              2.74600         2
## 8080              7.20400         5
## 8081             14.18427         2
## 8083              4.60200         5
## 8087             14.18427         5
## 8088              1.97400         2
## 8089              3.40200         5
## 8091              2.62200         2
## 8093             14.18427         5
## 8094              1.18300         2
## 8095              2.35500         4
## 8096             14.18427         5
## 8097             14.18427         1
## 8098             15.63000         5
## 8099             14.18427         5
## 8101              3.07700         5
## 8102              3.77300         5
## 8103              2.71000         2
## 8105              3.65200         4
## 8106             14.18427         1
## 8107             14.18427         5
## 8109             14.18427         4
## 8110             16.01900         5
## 8111              3.17300         5
## 8112              4.38100         5
## 8113             14.18427         5
## 8115             14.18427         5
## 8117             14.18427         5
## 8118              2.98700         4
## 8119             14.18427         5
## 8120              5.07500         5
```

```
## 8121            25.00600       5
## 8122             4.32200       5
## 8123             5.01700       5
## 8124            14.18427       1
## 8125            14.18427       3
## 8126            14.18427       5
## 8127             3.73100       2
## 8128             2.56900       5
## 8129            14.18427       6
## 8130             1.45300       2
## 8131             3.80400       5
## 8132             1.77300       2
## 8134            14.18427       5
## 8135             3.57500       5
## 8137             2.25800       4
## 8139             1.64600       4
## 8141             2.08200       2
## 8142            14.18427       2
## 8143            15.61100       5
## 8144             1.08200       2
## 8146             1.84600       2
## 8147            14.18427       5
## 8148             3.69800       2
## 8150            93.19000       5
## 8152             3.12400       5
## 8154            14.18427       5
## 8155            14.18427       5
## 8156            14.18427       4
## 8158             4.84000       5
## 8159             4.90400       5
## 8160             3.21200       2
## 8162             1.78700       2
## 8163             3.71700       5
## 8164            15.54000       5
## 8166             4.81400       5
## 8167            14.18427       4
## 8169             1.94000       2
## 8170             4.56100       5
## 8171            14.18427       5
## 8173             3.05000       5
## 8174            14.18427       4
## 8175             6.53700       2
## 8176             0.98600       2
## 8177            14.18427       4
## 8178             5.27800       5
## 8179            14.18427       6
## 8180             4.41600       5
## 8181            14.18427       5
## 8182            14.18427       2
## 8183            14.18427       5
## 8184             7.27500       5
## 8185             4.23800       5
## 8186            14.18427       5
## 8187            14.18427       5
```

```
## 8188            14.18427        2
## 8189            14.18427        5
## 8191            14.18427        5
## 8192            14.18427        5
## 8193            14.18427        4
## 8195            15.12200        5
## 8196             2.97000        4
## 8197             3.65600        5
## 8199            14.18427        2
## 8200             8.25000        5
## 8201             4.60900        5
## 8202             2.60900        2
## 8204             7.28300        5
## 8205             8.70200        5
## 8206             2.95500        2
## 8207             8.97100        5
## 8210            14.18427        5
## 8212            20.67600        5
## 8213            14.18427        4
## 8215            14.18427        5
## 8216             8.20100        5
## 8218             2.68700        5
## 8219             4.58400        5
## 8220             2.89000        6
## 8221            14.18427        2
## 8222             1.60800        2
## 8224            14.18427        5
## 8225             4.63300        5
## 8226             1.66500        5
## 8227             2.09300        5
## 8231             3.83800        5
## 8232            14.18427        5
## 8233             2.27400        2
## 8234             1.45000        2
## 8235             2.51900        5
## 8236             6.11100        5
## 8238             3.13800        5
## 8240             5.12800        5
## 8241            14.18427        5
## 8243             1.05300        2
## 8245            14.18427        4
## 8246             5.41600        5
## 8247            14.18427        2
## 8248             2.93600        5
## 8249            14.18427        4
## 8251            14.18427        2
## 8252            14.18427        5
## 8253            14.18427        5
## 8255             3.04200        5
## 8258            14.18427        5
## 8259            14.18427        5
## 8260            14.18427        5
## 8261             2.69600        5
## 8262             2.04500        2
```

```
## 8263          13.93600        5
## 8264          14.18427        5
## 8265           3.92200        2
## 8266          14.18427        4
## 8268           2.60000        4
## 8270           2.20200        2
## 8272           1.98200        4
## 8273           2.01200        4
## 8274          11.46000        5
## 8275           2.79200        2
## 8276           3.66800        5
## 8277          14.18427        4
## 8279           5.58000        5
## 8280           1.67300        2
## 8281          14.18427        3
## 8282           4.28900        5
## 8287          14.18427        1
## 8290           2.96000        2
## 8291          13.89700        5
## 8292           1.95800        2
## 8294          14.18427        5
## 8295           4.53300        5
## 8297          14.18427        5
## 8298           3.80500        5
## 8299           5.03800        2
## 8300           4.53300        5
## 8301           2.64300        5
## 8302          23.83300        5
## 8303           3.73000        5
## 8304          16.24500        5
## 8305           1.99500        5
## 8307           4.49100        5
## 8308          15.82000        5
## 8310          14.18427        5
## 8311           2.03200        5
## 8312          14.18427        1
## 8313           5.56800        5
## 8314           5.61900        5
## 8315           2.57900        5
## 8317          14.18427        6
## 8320           1.94300        2
## 8322          45.18500        5
## 8323          14.18427        6
## 8327          14.18427        5
## 8328          14.18427        5
## 8329           1.89100        5
## 8330           8.17000        5
## 8332           7.87100        5
## 8333           3.97000        5
## 8335           4.61100        5
## 8338          21.71300        5
## 8340          14.18427        5
## 8341          14.18427        5
## 8342          14.18427        5
```

```
## 8343            4.80600      5
## 8344            3.44200      2
## 8345           14.18427      5
## 8347            6.50300      5
## 8348           14.18427      5
## 8349            2.44500      2
## 8351           14.18427      5
## 8353           14.18427      2
## 8355           14.18427      5
## 8356           14.18427      5
## 8357           14.18427      6
## 8360           14.18427      5
## 8361            4.86400      5
## 8362           14.18427      5
## 8363           14.18427      5
## 8364            2.69300      2
## 8365            4.17400      5
## 8366            6.50100      5
## 8367           14.18427      5
## 8368           14.18427      5
## 8369            2.25300      4
## 8370           14.18427      4
## 8372            5.27000      6
## 8373           14.18427      5
## 8374           14.18427      5
## 8375           10.05900      5
## 8377           14.18427      5
## 8378           14.18427      5
## 8381           14.18427      5
## 8382           14.18427      5
## 8383            3.49100      5
## 8384            2.40900      5
## 8385           14.18427      4
## 8386           14.18427      5
## 8387            4.59000      5
## 8388            2.13600      2
## 8389            2.32700      2
## 8392            4.05300      5
## 8393            4.65000      5
## 8394           14.18427      2
## 8395            6.35500      5
## 8397           14.18427      5
## 8398            2.36200      5
## 8399            4.62300      6
## 8400           14.18427      2
## 8401            1.93300      4
## 8402           14.18427      5
## 8403           14.18427      5
## 8404            3.29600      5
## 8405            4.18400      5
## 8407           14.18427      6
## 8408            5.13900      2
## 8410            1.90800      2
## 8411           23.55200      5
```

```
## 8413              5.27600     2
## 8415              4.27100     5
## 8416              4.88900     6
## 8417             14.18427     6
## 8418              1.73900     2
## 8419             14.18427     5
## 8420              1.84600     2
## 8422              2.43200     5
## 8424             14.18427     5
## 8425              2.70700     5
## 8426             14.18427     5
## 8427              4.91200     5
## 8428             46.34500     5
## 8431              5.11600     5
## 8432              4.14000     5
## 8433              2.04100     4
## 8434             14.18427     5
## 8436              3.87800     2
## 8438             14.18427     5
## 8439             14.18427     2
## 8440              2.36100     4
## 8441              1.81100     4
## 8443              3.45400     5
## 8444             14.18427     5
## 8445              1.37600     4
## 8446             14.18427     1
## 8447              2.43700     4
## 8448             22.75000     5
## 8449             24.37900     5
## 8450              3.90200     5
## 8453              2.95000     5
## 8454              1.08400     2
## 8455             14.18427     4
## 8456             14.18427     5
## 8457             14.18427     5
## 8458              3.03400     2
## 8459              3.19700     5
## 8460              2.87400     5
## 8461              0.32100     5
## 8462              2.51800     2
## 8463              2.79500     5
## 8464              2.39700     2
## 8465             14.18427     1
## 8466              2.30600     4
## 8468              3.51300     5
## 8469              2.84900     5
## 8470             14.18427     2
## 8471             44.68500     5
## 8473              3.04100     5
## 8474             14.18427     5
## 8475              6.67600     5
## 8476             22.85300     5
## 8477              2.26300     2
## 8478             14.18427     4
```

```
## 8480            14.18427     5
## 8481            14.18427     5
## 8482            14.18427     5
## 8483            14.18427     5
## 8484             2.55900     2
## 8485            14.18427     4
## 8486            14.18427     5
## 8487             2.61800     5
## 8488             1.67100     5
## 8490             2.61200     2
## 8491            22.91700     5
## 8492            14.18427     4
## 8495             0.22800     5
## 8496             3.30900     5
## 8497             1.65200     2
## 8498            14.18427     5
## 8499             5.65700     2
## 8500             2.89400     5
## 8501             5.69800     5
## 8503             1.75400     2
## 8504             2.61700     2
## 8506             1.57000     5
## 8507            14.18427     5
## 8508             1.45100     2
## 8509             3.56000     5
## 8511             1.90400     5
## 8512             3.36100     5
## 8513             1.78000     2
## 8514             2.31700     2
## 8515             3.01600     5
## 8516             4.96100     5
## 8517            14.18427     5
## 8518             2.62900     2
## 8519             3.19800     2
## 8520             3.39000     5
## 8521             3.24800     5
## 8522            14.18427     5
## 8523            14.18427     2
## 8525            14.18427     4
## 8526            14.18427     2
## 8528            14.18427     5
## 8529             2.99000     4
## 8530             2.51900     5
## 8531             2.18900     5
## 8532            14.18427     5
## 8533             2.15300     2
## 8534             1.01000     5
## 8535             2.64700     2
## 8536            14.18427     6
## 8537             5.96500     5
## 8538             3.86200     5
## 8539            14.18427     5
## 8541            14.18427     5
## 8542             3.96600     5
```

```
## 8543            14.18427        5
## 8544            14.18427        4
## 8545             2.55700        5
## 8546             2.10300        4
## 8549             8.53000        5
## 8550             4.50400        5
## 8551            14.18427        5
## 8552             4.70800        2
## 8553             5.75700        5
## 8555            14.18427        5
## 8556             9.51300        5
## 8557             2.33400        4
## 8558             2.92400        2
## 8559            14.18427        5
## 8564             7.97100        5
## 8565             2.23400        4
## 8566             2.78000        2
## 8568             2.87700        2
## 8571             5.12500        2
## 8572             2.92300        5
## 8573             9.18000        5
## 8575             4.62700        5
## 8576             3.19400        5
## 8578             2.29900        2
## 8579            14.18427        5
## 8581             4.35000        5
## 8582            14.18427        5
## 8584             3.93400        5
## 8585             1.89800        4
## 8586             2.78700        6
## 8587             0.93600        2
## 8590             3.18500        2
## 8591             2.98600        5
## 8592            14.18427        4
## 8594             2.07200        2
## 8595            14.18427        5
## 8596             7.46400        5
## 8598             2.79600        5
## 8600            14.18427        5
## 8601             0.65400        5
## 8602            14.18427        2
## 8603             4.56200        2
## 8604             2.27000        4
## 8605            14.18427        5
## 8606             3.33800        2
## 8608            14.18427        5
## 8609             1.33200        2
## 8610             2.14100        4
## 8611            14.18427        2
## 8613             7.15100        5
## 8614             5.02100        5
## 8615             5.25700        5
## 8616            21.68000        5
## 8617             3.52300        2
```

```
## 8618              4.00400         5
## 8619             14.18427         2
## 8620             14.18427         5
## 8623             14.18427         5
## 8624              3.04000         5
## 8625              5.07000         5
## 8628             14.18427         5
## 8629              1.02600         2
## 8630              6.78800         5
## 8632              2.41400         2
## 8633             14.18427         5
## 8635              1.37700         5
## 8636              6.30200         5
## 8637             14.18427         2
## 8639             14.18427         5
## 8640              3.77600         5
## 8642             14.18427         5
## 8643              4.27000         5
## 8644              3.97100         5
## 8647              3.38600         4
## 8648              5.64300         5
## 8649              2.05300         4
## 8650              2.38600         2
## 8651              5.12300         5
## 8652              2.08500         5
## 8653             14.18427         5
## 8655              5.65200         5
## 8656              4.52500         6
## 8657             14.18427         5
## 8658             14.18427         5
## 8660              3.58600         5
## 8661             14.18427         5
## 8662             14.18427         4
## 8664              2.68800         6
## 8665             14.18427         5
## 8667              2.93400         5
## 8669             14.18427         1
## 8670              3.44200         5
## 8673             14.18427         5
## 8675             14.18427         5
## 8676              1.25800         2
## 8677              3.43500         5
## 8679              3.54300         2
## 8681             14.18427         5
## 8682              2.52000         5
## 8683             14.18427         5
## 8684              2.16600         4
## 8685             14.18427         5
## 8686              1.48500         2
## 8688             14.18427         5
## 8689             15.65100         5
## 8690              1.48000         2
## 8691              6.06000         6
## 8692             20.93300         5
```

```
## 8693              1.82600      2
## 8694              4.82100      5
## 8695              1.81800      5
## 8696             10.47200      5
## 8698              2.83200      2
## 8700             14.18427      4
## 8705              3.44300      5
## 8707              2.67900      4
## 8708             14.18427      5
## 8709              1.72200      2
## 8710             14.18427      2
## 8711             29.31900      5
## 8712              6.12300      5
## 8715              2.32600      5
## 8716              2.57000      5
## 8717              1.91300      4
## 8718             22.80100      5
## 8719              6.11400      6
## 8720              4.12900      5
## 8721             14.18427      5
## 8723              8.06000      5
## 8725             14.18427      6
## 8727             14.18427      2
## 8729              3.75800      5
## 8730              6.84000      5
## 8731              2.71000      5
## 8733             14.18427      5
## 8734             14.18427      5
## 8738             14.18427      5
## 8739             14.18427      2
## 8740              3.79100      5
## 8741              1.71800      2
## 8743              5.85400      5
## 8744             14.18427      5
## 8745             14.18427      6
## 8747              1.00200      2
## 8749              2.68100      5
## 8750              3.29900      5
## 8751              4.04200      2
## 8753             14.18427      5
## 8754             14.18427      5
## 8756             14.18427      2
## 8757              9.98200      5
## 8758             14.18427      5
## 8763              4.27800      5
## 8764             14.18427      5
## 8766              6.31500      5
## 8767              2.54100      2
## 8768              2.27600      2
## 8769              7.50200      5
## 8771             14.18427      6
## 8772             14.18427      5
## 8773             14.18427      5
## 8774              4.08900      6
```

```
## 8776           14.18427        5
## 8777           11.20600        5
## 8778            1.15600        2
## 8779            3.47000        5
## 8780            2.87800        4
## 8782           14.18427        2
## 8783            2.63200        5
## 8785            8.23000        6
## 8786            2.15200        4
## 8789            4.05800        5
## 8791           14.18427        2
## 8793            0.89300        2
## 8794            2.03700        5
## 8795            7.22300        5
## 8796           14.18427        2
## 8797           14.18427        5
## 8798            1.91800        5
## 8799          376.11500        5
## 8800            2.71600        5
## 8801            3.39900        2
## 8802            2.67000        5
## 8803            6.85200        5
## 8804           18.95900        5
## 8805            1.94900        4
## 8806            6.40500        5
## 8807            1.98200        4
## 8808            4.08400        2
## 8809            3.17700        6
## 8810            6.53600        5
## 8811            2.15100        4
## 8814           14.18427        5
## 8816            4.80000        5
## 8817            4.73000        5
## 8819           14.18427        5
## 8820            2.98500        5
## 8823            1.61200        2
## 8825           14.18427        5
## 8827           14.18427        5
## 8829           14.18427        5
## 8830           14.18427        2
## 8831            2.37400        5
## 8835            8.17000        5
## 8836            0.85200        2
## 8838            3.01700        5
## 8839            3.32900        2
## 8841            1.96900        2
## 8844            2.14900        2
## 8846            5.63300        5
## 8847           14.18427        2
## 8848            3.22500        2
## 8850            2.72700        4
## 8851            2.48600        5
## 8853            3.71900        5
## 8854           22.93600        5
```

```
## 8855             4.39000        6
## 8856             7.34400        5
## 8858            14.18427        2
## 8864             5.61400        5
## 8865            14.18427        5
## 8868             2.71400        5
## 8869            14.18427        5
## 8871             3.90100        2
## 8872             2.86000        6
## 8873             2.51700        2
## 8874            23.68300        5
## 8875            14.18427        5
## 8877             2.29200        5
## 8878            14.18427        5
## 8879            27.15500        5
## 8880             3.78900        5
## 8881             4.66500        5
## 8882             2.66100        4
## 8884             3.83500        5
## 8885             3.16300        5
## 8888            14.18427        4
## 8889            14.18427        2
## 8890             3.15100        4
## 8891             5.66300        5
## 8893            14.18427        2
## 8894             1.82800        5
## 8896             4.97700        5
## 8897            18.27700        5
## 8899            14.18427        5
## 8900            14.18427        4
## 8901             4.46700        5
## 8902             3.68600        5
## 8903             6.57500        2
## 8905            14.18427        5
## 8906            23.54100        5
## 8907             8.03400        5
## 8908            14.18427        4
## 8909            14.18427        5
## 8910            79.52100        5
## 8911             2.70100        5
## 8914             1.95300        3
## 8915            14.18427        5
## 8919            14.18427        2
## 8920             2.66000        6
## 8921             2.30500        4
## 8922             2.47100        2
## 8923             1.78300        2
## 8924            14.18427        5
## 8925             4.15200        5
## 8926             8.13200        5
## 8928             5.08000        5
## 8930             3.46500        2
## 8931            19.43800        5
## 8932            14.18427        5
```

```
## 8935              2.96900     2
## 8936             14.18427     5
## 8937             14.18427     5
## 8938              9.30800     5
## 8940              5.42900     5
## 8942              6.06900     5
## 8943             14.18427     5
## 8944              3.20400     5
## 8945              1.79300     5
## 8946             14.18427     6
## 8947              1.47200     2
## 8948              1.23500     2
## 8949             18.78500     5
## 8950              4.82500     5
## 8951             26.34800     5
## 8952             14.18427     5
## 8953              6.33400     2
## 8954             14.18427     5
## 8956              5.09300     5
## 8957             14.18427     5
## 8958              4.68200     5
## 8961              2.33200     2
## 8962             14.18427     5
## 8963              2.22300     2
## 8964             14.18427     2
## 8965             14.18427     1
## 8966              1.25700     4
## 8968             14.18427     5
## 8969             14.18427     5
## 8970              3.37800     5
## 8973              4.46000     5
## 8975              2.56400     5
## 8976              3.76600     5
## 8977             32.88000     5
## 8978              1.01900     2
## 8979              3.01000     5
## 8983              2.31900     2
## 8984             14.18427     4
## 8985              3.18300     5
## 8986              7.53400     5
## 8988             14.18427     5
## 8989              1.84300     2
## 8991              3.78300     2
## 8992              2.42100     5
## 8993             14.18427     5
## 8994              4.84900     5
## 8995             14.18427     4
## 8997              2.83200     2
## 8999              3.87000     5
## 9000             14.18427     2
## 9001             14.18427     5
## 9002             14.18427     5
## 9003              3.96500     5
## 9004              2.83700     5
```

```
## 9005                  3.38200            2
## 9006                 14.18427            5
## 9009                  2.97700            2
## 9010                 14.18427            3
## 9011                  1.63000            4
## 9013                  2.34900            5
## 9014                 14.18427            5
## 9016                  1.74600            1
## 9017                 14.18427            4
## 9018                 16.85100            5
## 9019                 14.18427            2
## 9021                 14.18427            5
## 9022                 14.18427            5
## 9023                  3.68200            5
## 9024                  4.86200            5
## 9025                 14.18427            5
## 9026                  1.98500            2
## 9030                 14.18427            5
## 9032                  2.44000            5
## 9033                  5.02000            5
## 9034                  8.72800            5
## 9035                  2.51100            4
## 9036                  2.21900            5
## 9037                  4.03500            5
## 9038                  8.74800            5
## 9039                  2.78000            5
## 9040                  2.39900            2
## 9041                  2.68400            2
## 9043                  2.11200            5
## 9044                 14.18427            6
## 9045                  3.43100            2
## 9046                 14.18427            5
## 9047                 14.18427            6
## 9048                  3.75500            5
## 9049                 52.50200            5
## 9050                  4.65000            5
## 9051                 14.18427            6
## 9052                  4.60500            5
## 9053                  1.41200            2
## 9054                  5.57200            5
## 9055                  2.86100            2
## 9056                  2.16000            4
## 9057                  2.39700            5
## 9058                 14.18427            2
## 9059                 21.88700            5
## 9060                 14.18427            2
## 9062                  3.12400            2
## 9063                  1.58700            2
## 9064                  3.69000            5
## 9066                 14.18427            5
## 9069                  3.40600            2
## 9070                 14.18427            6
## 9072                  4.69100            5
## 9073                 14.34500            5
```

```
## 9074           14.18427      6
## 9076            2.16000      2
## 9077            2.44100      2
## 9078           14.18427      2
## 9081            3.98600      5
## 9083            9.77000      5
## 9084            8.47100      5
## 9087            2.52000      5
## 9088            2.82500      5
## 9089           14.18427      4
## 9091            4.01500      2
## 9092            2.27000      2
## 9093            6.60000      5
## 9094           14.18427      5
## 9095           14.18427      1
## 9096            3.16400      5
## 9097           14.18427      5
## 9098            2.36200      4
## 9099          212.28200      5
## 9100            4.11600      5
## 9103            2.82000      2
## 9104            2.91400      2
## 9106           14.46000      5
## 9107           14.18427      5
## 9108           14.18427      5
## 9109            3.05400      2
## 9110           14.18427      6
## 9111           14.18427      5
## 9112           14.18427      2
## 9113            1.32500      2
## 9115            2.11200      2
## 9116            6.89500      5
## 9117            2.96000      5
## 9118            4.01000      5
## 9119            1.26500      4
## 9120           14.18427      5
## 9122            4.74600      5
## 9123           14.18427      6
## 9125            5.11000      5
## 9126            5.63800      5
## 9127           14.18427      2
## 9128           14.18427      4
## 9129            3.68000      5
## 9130           14.18427      4
## 9131            2.45400      2
## 9132            2.59700      5
## 9134           14.18427      5
## 9135           14.18427      4
## 9136            7.69600      5
## 9138           14.18427      5
## 9139            1.67900      2
## 9140            3.80200      5
## 9141            3.95000      5
## 9142            5.31400      5
```

```
## 9143           14.18427        5
## 9144           14.18427        5
## 9145           14.18427        5
## 9146            2.10900        4
## 9147           14.18427        5
## 9148           14.18427        5
## 9149            1.38800        2
## 9150           14.18427        5
## 9151           14.18427        6
## 9153           14.18427        5
## 9154           14.18427        5
## 9156            1.94600        2
## 9157           14.18427        1
## 9158           14.69600        5
## 9159            2.06500        4
## 9162           18.01000        5
## 9164           15.87800        5
## 9165            1.85200        4
## 9166            4.04600        2
## 9169           14.18427        5
## 9170            4.44700        5
## 9171            3.76500        5
## 9172            2.06200        5
## 9173            2.87000        5
## 9174            3.01800        5
## 9177            3.78600        5
## 9178           49.39900        5
## 9179            1.89700        5
## 9182            1.81200        2
## 9183            1.88500        5
## 9184            3.99200        2
## 9185           14.18427        2
## 9186           14.18427        6
## 9187           14.18427        5
## 9188            6.86300        6
## 9189            2.03800        2
## 9190            1.19200        2
## 9191            2.68400        2
## 9192            2.97600        5
## 9193            1.96300        4
## 9194            1.77500        4
## 9195           14.18427        5
## 9197            2.41200        6
## 9198            2.50200        2
## 9199            3.78000        5
## 9200           14.18427        1
## 9203           14.18427        2
## 9204           14.18427        2
## 9205            6.59200        5
## 9206           20.35300        5
## 9207            2.41100        4
## 9208            2.01900        4
## 9209            2.00100        4
## 9210            1.54300        2
```

```
## 9211          14.18427          5
## 9212           7.55700          5
## 9213           1.58200          4
## 9215           2.50800          4
## 9217          14.18427          4
## 9218          14.18427          5
## 9219          14.18427          5
## 9220          14.18427          5
## 9221           1.64000          2
## 9223           2.38300          4
## 9224           5.04000          5
## 9225          14.18427          6
## 9226          14.18427          5
## 9228           3.70600          5
## 9229          14.18427          1
## 9233          11.36200          5
## 9234          14.18427          5
## 9235          14.18427          4
## 9236          14.18427          5
## 9237          14.18427          5
## 9238           4.94300          2
## 9239           2.38300          4
## 9241           5.38800          5
## 9242           5.85200          5
## 9247           3.31400          2
## 9248          14.18427          3
## 9250          14.18427          5
## 9251           6.60800          5
## 9252           6.75800          5
## 9253           1.81000          5
## 9254          14.63600          5
## 9255           2.42000          4
## 9259           4.93400          2
## 9260           3.82300          5
## 9261           2.73400          4
## 9262          14.18427          6
## 9264           1.52400          2
## 9265          14.18427          4
## 9266           3.08400          5
## 9267          14.18427          5
## 9268           2.33400          2
## 9269           1.75100          2
## 9271          14.18427          5
## 9273           3.64500          5
## 9274           2.00700          2
## 9275           1.95400          2
## 9276          14.18427          5
## 9281           2.92000          2
## 9282           4.26300          5
## 9284          14.18427          5
## 9287          14.18427          5
## 9289          14.18427          5
## 9290           3.48100          2
## 9292           3.40900          2
```

```
## 9293              14.18427      4
## 9294               3.31500      5
## 9295              14.18427      5
## 9302               1.27600      2
## 9304              14.18427      6
## 9305              14.18427      5
## 9306               3.22800      5
## 9307              14.18427      5
## 9309               4.77200      5
## 9311               6.67100      5
## 9312              14.18427      4
## 9313               3.03200      5
## 9315               2.16900      2
## 9316              14.18427      5
## 9317               1.50000      2
## 9319              15.11700      5
## 9321               2.53400      4
## 9322               4.96100      5
## 9324               4.47600      5
## 9325               3.72600      5
## 9326               7.77000      5
## 9328               4.84700      5
## 9329               2.96600      5
## 9330               4.38900      5
## 9331               4.97800      5
## 9332               1.27200      2
## 9333              14.18427      5
## 9335               3.70000      5
## 9337               3.68400      2
## 9338               9.69500      5
## 9339              14.18427      2
## 9340               3.36300      5
## 9341              14.18427      5
## 9342               4.09100      5
## 9343               2.48900      4
## 9344              14.18427      5
## 9345               3.22600      5
## 9346              14.18427      5
## 9347              14.18427      6
## 9348              14.18427      5
## 9349               2.51400      4
## 9350               4.91400      5
## 9351               2.48300      2
## 9352              14.18427      5
## 9353              14.18427      2
## 9354               4.87000      5
## 9355              14.18427      2
## 9356               1.52700      2
## 9357               1.78400      5
## 9359               5.11800      5
## 9361              14.00000      5
## 9362               2.17500      2
## 9363               1.96200      4
## 9364               7.76200      5
```

```
## 9365            14.18427        4
## 9366             2.13900        4
## 9367            12.59400        5
## 9369             6.33200        5
## 9370             3.30400        5
## 9372             5.75300        5
## 9373             2.93000        2
## 9374            11.14100        5
## 9375            14.37700        5
## 9376            14.18427        2
## 9377             1.10100        2
## 9378             2.56700        5
## 9379             3.13900        5
## 9380             4.63300        5
## 9381             4.04000        5
## 9383            14.18427        3
## 9384             3.17500        5
## 9385             3.79100        5
## 9386            14.18427        6
## 9387             3.64000        5
## 9388             3.98700        2
## 9389            11.34200        5
## 9390             2.25600        2
## 9393             3.26900        5
## 9394             4.07600        5
## 9395            14.18427        5
## 9396            14.18427        5
## 9397             2.82200        2
## 9398             2.29400        2
## 9399            14.18427        2
## 9400             3.27700        5
## 9401             2.30300        2
## 9403            14.18427        2
## 9404             2.46100        2
## 9406            14.18427        6
## 9408             3.50500        5
## 9409            14.18427        1
## 9410             3.82400        2
## 9411             3.52000        5
## 9412            14.18427        5
## 9414             3.39600        2
## 9415             2.71500        5
## 9416             4.59700        2
## 9418             2.81200        2
## 9420            14.18427        5
## 9421             1.69000        2
## 9422             2.28000        4
## 9423             1.64900        2
## 9425             2.38400        2
## 9426             2.64700        2
## 9427            12.69800        5
## 9428            14.18427        5
## 9430            14.18427        4
## 9431            14.18427        2
```

```
## 9432             2.20000        2
## 9433            14.18427        5
## 9435            14.18427        2
## 9436             8.06700        5
## 9437            10.68200        5
## 9438            14.18427        5
## 9439             3.34700        5
## 9440             2.10900        2
## 9441             4.09400        5
## 9444             4.24400        5
## 9445             2.47900        1
## 9446             4.99400        5
## 9447             2.78800        5
## 9448            14.18427        3
## 9449             2.00100        2
## 9450            12.53400        5
## 9451             5.67400        5
## 9453             5.13600        5
## 9454            14.18427        4
## 9455             3.38600        5
## 9456            14.18427        2
## 9457             5.14800        5
## 9458             1.44000        2
## 9459            16.10000        5
## 9460             2.39600        5
## 9461             1.97000        2
## 9463            14.18427        2
## 9464             3.31600        4
## 9465            15.49500        5
## 9466             2.59000        5
## 9467             1.45800        4
## 9468            14.18427        5
## 9469             2.89600        2
## 9470             4.61800        5
## 9472             3.61700        5
## 9473             1.93900        4
## 9475             1.54900        2
## 9477             1.77500        2
## 9478             3.07800        5
## 9479             3.96000        5
## 9482             2.35000        2
## 9484             3.29000        5
## 9486             5.06200        5
## 9487             2.39500        4
## 9488             3.00800        5
## 9489             2.44500        2
## 9490             3.67200        5
## 9491             2.10500        2
## 9493             4.42400        2
## 9494             4.29000        5
## 9495             4.22800        5
## 9496            14.18427        4
## 9497             1.55800        5
## 9499             1.41100        2
```

```
## 9501          14.18427      3
## 9502           3.04500      4
## 9504           2.85300      2
## 9505          14.18427      5
## 9507           7.18000      5
## 9508          14.18427      5
## 9510          14.18427      2
## 9513           3.05000      5
## 9515           6.92000      6
## 9516           4.99800      5
## 9517          14.18427      5
## 9519          14.18427      2
## 9520           2.79500      5
## 9521           1.98400      4
## 9522           1.38600      2
## 9524           2.39200      2
## 9526           3.28500      5
## 9527           8.85300      5
## 9528           3.66800      5
## 9530           6.26000      5
## 9532          14.18427      6
## 9533          11.01800      5
## 9534           2.41100      2
## 9535          14.18427      5
## 9536          14.18427      5
## 9537           4.43000      5
## 9539           2.01000      2
## 9542          14.18427      5
## 9544           7.98600      5
## 9545           4.57800      5
## 9546           3.41500      5
## 9547          14.18427      5
## 9551          14.18427      5
## 9552           1.49100      4
## 9553           1.34800      2
## 9554          17.43900      5
## 9555           3.67900      5
## 9556          14.18427      6
## 9557           4.97800      5
## 9558           3.89000      5
## 9559          14.18427      2
## 9560           3.11900      5
## 9562           3.76200      5
## 9563           2.83400      2
## 9564          14.18427      5
## 9565          14.18427      4
## 9566          14.18427      5
## 9567           3.35300      5
## 9568           3.57100      5
## 9569          14.18427      5
## 9570           0.55900      5
## 9571           2.18200      2
## 9572          14.18427      1
## 9573           9.88600      5
```

```
## 9574           14.18427      4
## 9575           14.18427      5
## 9576            2.52100      4
## 9577           10.21300      5
## 9578            2.14300      2
## 9579            3.26300      5
## 9580            2.86600      2
## 9581            1.87700      5
## 9582            4.27900      5
## 9583            1.59100      2
## 9584            2.79300      5
## 9585            2.99200      2
## 9586           20.80400      5
## 9587            3.93300      5
## 9588            1.58200      5
## 9590            3.23100      4
## 9591            4.82900      5
## 9592           14.18427      5
## 9594           14.18427      5
## 9595           14.18427      5
## 9596           14.18427      2
## 9597            3.59400      2
## 9598           14.18427      5
## 9600            4.64900      5
## 9601           12.20800      5
## 9602            6.32200      5
## 9603            9.03000      5
## 9604            3.55200      2
## 9605           14.18427      5
## 9606           14.18427      5
## 9607            2.49500      5
## 9608           14.18427      5
## 9609           14.18427      5
## 9610            6.78000      5
## 9611           14.18427      2
## 9612            2.52400      4
## 9613            1.80700      2
## 9615            1.84100      4
## 9616            2.16300      4
## 9617           14.18427      5
## 9618            3.70600      2
## 9619            5.99000      2
## 9621           14.18427      6
## 9623            4.74400      5
## 9624            2.79700      2
## 9625           14.18427      2
## 9627            1.61500      2
## 9628            2.39800      2
## 9629           14.18427      6
## 9630           11.48000      5
## 9631            7.00500      5
## 9632            3.16700      2
## 9633           14.18427      5
## 9634            4.38000      2
```

```
## 9636          2.86100         5
## 9637          2.24600         2
## 9638         14.18427         2
## 9639         14.18427         5
## 9640         14.18427         2
## 9642         14.18427         6
## 9644          2.03600         2
## 9645          4.88100         2
## 9646          3.75600         5
## 9647         14.18427         5
## 9649         14.18427         5
## 9651         14.18427         2
## 9653          2.45800         5
## 9654         14.18427         5
## 9655         14.18427         5
## 9656         14.18427         2
## 9657          3.05900         2
## 9661          3.97500         5
## 9662          4.45300         5
## 9663         14.18427         4
## 9664          2.62800         5
## 9665          6.24600         5
## 9667          1.73100         5
## 9668         14.18427         6
## 9669          0.83700         2
## 9670          7.17600         5
## 9671          3.22800         5
## 9672         21.19000         5
## 9673         14.18427         5
## 9674          2.18700         5
## 9675         14.18427         5
## 9676          1.34300         2
## 9677          5.60100         5
## 9681          1.51400         2
## 9682         23.74100         5
## 9683          2.67400         4
## 9684         14.18427         2
## 9685          2.34000         4
## 9687          4.28400         5
## 9689          9.62100         5
## 9691         14.85700         5
## 9692          3.29100         5
## 9694          2.66700         5
## 9697          1.34500         5
## 9698          1.52800         2
## 9699         14.18427         5
## 9702          1.63500         5
## 9703        665.92400         5
## 9704         14.18427         5
## 9707         16.51200         5
## 9708          1.95500         2
## 9710         14.18427         5
## 9711          3.64800         4
## 9712          4.59900         5
```

```
## 9713          7.88700          5
## 9714          2.39100          2
## 9715         14.18427          5
## 9716          1.51100          2
## 9717          2.51600          4
## 9718          4.68500          5
## 9719          2.34900          2
## 9720          2.23700          2
## 9721         14.18427          4
## 9722          3.57400          5
## 9723         14.18427          5
## 9724         -6.31000          5
## 9726          5.50000          5
## 9728          3.00000          5
## 9730          5.44600          2
## 9731          0.97000          2
## 9732          3.17500          2
## 9734          1.11100          2
## 9735          5.59900          5
## 9736          9.95800          5
## 9737         14.18427          6
## 9738         12.34000          5
## 9739          2.54400          5
## 9740         14.18427          5
## 9743         15.65900          5
## 9745          4.34200          5
## 9746         14.18427          2
## 9747          5.40100          6
## 9749         14.18427          6
## 9751          4.77000          6
## 9752          4.63400          2
## 9754          3.36800          2
## 9755         14.18427          5
## 9756          2.53900          2
## 9757          3.96700          5
## 9760          2.79000          2
## 9761         31.28200          5
## 9762          2.68600          5
## 9763          3.85500          5
## 9764         18.10300          5
## 9768          2.30100          2
## 9769         25.01200          5
## 9771          3.87000          5
## 9774         14.18427          4
## 9775          5.43700          5
## 9779          1.06600          2
## 9780         14.18427          5
## 9781          2.77100          5
## 9783          2.49000          4
## 9785         14.18427          5
## 9786          6.96400          2
## 9787         14.18427          4
## 9788         14.18427          5
## 9789         14.18427          5
```

```
## 9790          2.20000          2
## 9791          1.94400          2
## 9792          6.65600          5
## 9795          4.59400          5
## 9796          3.30300          5
## 9797          2.51400          2
## 9798         14.83700          5
## 9799          7.53500          5
## 9800          2.15800          5
## 9801          3.27300          5
## 9802         14.18427          5
## 9804         14.18427          6
## 9805          2.33600          2
## 9806         14.18427          5
## 9807          5.25000          5
## 9808         14.18427          5
## 9809          3.27900          5
## 9810          6.84600          5
## 9811          2.99700          5
## 9812         14.18427          2
## 9813          2.32400          4
## 9814          2.55100          5
## 9815         14.18427          1
## 9818          3.96000          2
## 9819          2.21900          2
## 9821          4.11900          2
## 9822         14.18427          5
## 9823         14.18427          5
## 9824          1.81700          5
## 9825          2.54600          2
## 9826          2.28700          2
## 9827          1.16700          4
## 9829          4.03100          5
## 9830          1.75800          2
## 9831         14.18427          5
## 9832         14.18427          5
## 9833          3.13900          5
## 9834         14.18427          5
## 9836         14.18427          6
## 9837         16.18700          5
## 9838         14.18427          5
## 9839         14.18427          5
## 9840          3.76500          5
## 9841         14.18427          5
## 9843          1.78000          5
## 9844          3.46300          5
## 9845         14.18427          2
## 9846          6.41200          5
## 9848          6.71000          2
## 9849          2.92400          4
## 9850         14.18427          5
## 9851          3.77800          5
## 9852          2.13400          5
## 9853          2.57300          4
```

```
## 9854              2.03200         4
## 9855             14.18427         5
## 9856             11.55700         5
## 9857             12.03300         5
## 9860             14.18427         5
## 9861              2.30500         2
## 9863             14.18427         5
## 9864             14.18427         4
## 9867              6.55100         5
## 9869             14.18427         5
## 9870              6.34100         5
## 9872             14.18427         5
## 9874             14.18427         3
## 9875              3.76100         5
## 9876              3.03300         5
## 9878              3.82000         5
## 9879              2.42000         2
## 9880              2.35000         5
## 9881              2.37100         5
## 9882             14.18427         5
## 9884              8.21300         5
## 9885              3.00800         5
## 9887              2.93400         5
## 9889             14.18427         5
## 9890              2.74200         5
## 9892              2.51600         4
## 9893             18.48700         5
## 9894             14.18427         2
## 9895              3.32900         2
## 9896              7.98000         5
## 9897             14.18427         5
## 9898             14.18427         5
## 9899             14.18427         5
## 9900              3.71300         5
## 9901              3.00900         5
## 9902              8.41100         5
## 9903             14.18427         5
## 9904             14.18427         6
## 9905             14.18427         5
## 9906             20.65700         5
## 9907              3.08500         5
## 9908             14.18427         2
## 9910             14.18427         5
## 9911             14.18427         5
## 9912              1.98400         4
## 9913              3.82200         5
## 9915             14.18427         5
## 9916              4.37000         5
## 9917              1.14600         6
## 9918              2.91000         5
## 9919              2.89000         5
## 9922              3.47900         2
## 9923             14.18427         5
## 9924              3.16600         5
```

```
## 9925                   1.53700          2
## 9927                  14.18427          5
## 9928                   2.91400          4
## 9930                   2.63800          2
## 9931                   1.67800          2
## 9932                  14.18427          6
## 9933                   5.50600          2
## 9934                  14.18427          6
## 9935                  11.14800          5
## 9936                   1.49800          2
## 9937                  14.18427          5
## 9938                   1.77600          2
## 9939                   3.01900          2
## 9940                  14.18427          6
## 9942                   2.46800          5
## 9943                   6.64900          5
## 9944                  14.18427          4
## 9946                  14.18427          5
## 9947                   3.28500          4
## 9948                   1.77700          2
## 9949                   4.16300          2
## 9950                   1.65700          2
## 9951                  14.18427          1
## 9952                   0.79400          2
## 9953                   6.31500          5
## 9954                   2.42300          5
## 9955                   2.92100          4
## 9956                   6.04900          5
## 9957                   1.69900          2
## 9958                  14.18427          6
## 9959                   1.85400          1
## 9960                  14.18427          5
## 9961                   4.57000          2
## 9962                   1.82900          2
## 9963                   1.84600          2
## 9964                  14.18427          6
## 9965                   2.65800          2
## 9968                  14.18427          5
## 9969                   5.14500          6
## 9970                   2.85300          5
## 9972                  14.18427          4
## 9974                   3.40000          4
## 9976                  14.18427          3
## 9977                   3.78500          5
## 9978                   2.44200          2
## 9979                   3.21200          2
## 9980                   1.96300          4
## 9981                   1.11900          2
## 9982                   1.99100          4
## 9984                   1.98800          2
## 9985                  14.18427          4
## 9986                  14.18427          5
## 9987                   5.07700          2
## 9989                   3.02900          4
```

```
## 9990               14.18427        5
## 9991                3.02700        2
## 9993               14.18427        5
## 9994                3.90100        2
## 9995               14.18427        5
## 9996                4.65800        5
## 9997               60.30400        5
## 9998               14.18427        2
## 9999               12.09000        5
## 10000              14.18427        5
## 10001              14.18427        5
## 10002              14.18427        2
## 10003               4.65500        2
## 10004               2.43400        4
## 10005               3.05100        5
## 10006              14.18427        2
## 10007              14.18427        5
## 10008               3.40400        4
## 10009               6.59900        5
## 10010              14.18427        2
## 10012               6.27800        5
## 10015               2.43000        5
## 10016               5.98400        2
## 10018               3.89500        2
## 10019              14.18427        5
## 10020               4.58100        6
## 10021               4.66800        2
## 10022               3.26200        5
## 10023              14.18427        2
## 10025               2.40100        4
## 10027               2.52600        2
## 10028               4.93100        5
## 10029              14.18427        5
## 10030               5.05600        5
## 10031              14.18427        4
## 10032               3.99600        2
## 10033               5.14300        5
## 10036               2.65000        5
## 10039               4.12300        5
## 10040              14.18427        5
## 10041              14.18427        5
## 10042              14.18427        4
## 10043              14.18427        5
## 10044              14.18427        5
## 10045               4.90400        5
## 10046               5.60700        5
## 10047              14.18427        5
## 10049              14.18427        5
## 10050               3.21000        5
## 10051              14.18427        5
## 10052               4.17800        5
## 10053               5.07500        6
## 10056              14.18427        5
## 10057               3.29900        5
```

```
## 10059          14.18427          6
## 10060           5.26000          5
## 10061           2.80000          5
## 10064           3.20300          5
## 10065           1.88400          4
## 10066           3.03000          5
## 10067           1.70000          2
## 10068          14.18427          5
## 10070           2.42400          5
## 10071          14.18427          5
## 10072          14.18427          2
## 10073           2.78400          5
## 10074          26.10000          5
## 10075          14.18427          1
## 10076          24.30900          5
## 10077           4.41400          5
## 10079           3.27100          2
## 10080           5.68200          5
## 10082           2.15900          4
## 10083          14.18427          2
## 10084          14.18427          5
## 10085          14.18427          5
## 10087          14.18427          2
## 10088           1.61500          2
## 10089           3.24200          5
## 10090           3.82900          5
## 10091           8.17900          5
## 10092           1.87400          5
## 10093          14.18427          5
## 10094          14.18427          6
## 10095           4.09300          2
## 10096          14.18427          5
## 10097           6.79300          5
## 10098           4.32000          2
## 10100           3.34700          5
## 10101           1.75800          5
## 10102          14.18427          2
## 10103          14.18427          5
## 10105          14.18427          2
## 10107          14.18427          4
## 10108           4.17400          5
## 10109          14.18427          5
## 10111          14.18427          4
## 10112          14.18427          6
## 10113           2.49800          2
## 10114          14.18427          5
## 10115           5.52800          5
## 10118           1.29400          5
## 10120           2.61300          5
## 10121           2.11600          5
## 10122           2.73200          2
## 10123          14.18427          5
## 10124           1.49700          2
## 10125           4.57000          5
```

```
## 10126              3.38800          5
## 10127              9.14800          5
## 10128              2.97200          5
## 10130             14.18427          4
## 10131             14.18427          4
## 10133             14.18427          5
## 10134              2.54400          5
## 10135              3.10700          2
## 10136              2.14800          5
## 10137              8.71300          5
## 10138             14.18427          5
## 10140             14.18427          5
## 10141             14.18427          5
## 10142              2.89500          2
## 10143             14.18427          5
## 10144              3.42100          2
## 10145              2.41000          2
## 10147              5.56700          6
## 10150              7.98300          5
## 10151             14.18427          5
## 10152              5.53100          6
## 10153             14.18427          4
## 10154              1.75100          4
## 10155             14.18427          5
## 10156             22.98100          5
## 10157              2.93000          5
## 10158             14.18427          5
## 10159              5.93600          5
## 10160             17.08300          5
## 10161              5.44700          5
## 10162              4.97800          5
## 10163              2.23300          2
## 10164             14.18427          6
## 10165             14.18427          5
## 10166              4.74900          5
## 10167              6.88500          5
## 10168             14.18427          5
## 10169             14.18427          5
## 10170              2.81100          5
## 10171              3.25900          5
## 10173              3.20300          5
## 10174             14.18427          6
## 10175              9.78800          5
## 10176             14.18427          5
## 10177              4.68000          4
## 10178              1.72800          2
## 10181              2.82400          5
## 10182              3.73000          4
## 10184              6.27900          5
## 10185              2.04600          2
## 10186              2.10400          4
## 10187             14.18427          2
## 10189             14.18427          1
## 10190             14.18427          2
```

```
## 10192            3.40400       4
## 10193           17.30100       5
## 10194            5.75500       2
## 10195           12.02700       5
## 10196           14.18427       5
## 10197            3.49500       5
## 10198            1.63800       2
## 10199            3.60400       5
## 10201            5.18900       5
## 10202            0.99500       2
## 10203           14.18427       5
## 10204           14.18427       2
## 10205            2.94700       2
## 10206            1.99400       4
## 10207           14.18427       5
## 10208            1.56000       2
## 10209            6.40700       5
## 10210           14.18427       5
## 10211           14.18427       5
## 10212           14.18427       5
## 10213           13.65200       5
## 10214           14.18427       5
## 10215           14.18427       6
## 10216            3.62200       2
## 10218            1.99000       1
## 10219            3.70100       5
## 10221           14.18427       5
## 10222           14.18427       2
## 10223            2.44400       5
## 10224           11.95000       5
## 10225            2.17000       4
## 10226            8.25000       5
## 10227           14.18427       5
## 10228            2.67500       2
## 10229           14.18427       5
## 10230            1.63000       5
## 10233            3.16800       2
## 10234           14.18427       5
## 10235            3.00100       2
## 10236            4.11900       5
## 10237            4.53600       5
## 10238            2.92200       5
## 10239           14.18427       5
## 10240            1.58900       2
## 10241            2.76300       5
## 10242            1.48400       2
## 10244            2.55000       4
## 10245            1.98900       2
## 10246           23.49000       5
## 10247            3.26400       2
## 10248            4.01000       5
## 10250            4.59700       2
## 10251            4.80100       5
## 10254           14.18427       5
```

```
## 10256             4.61000          5
## 10257             4.28700          5
## 10258            14.18427          5
## 10259            14.18427          4
## 10260            14.18427          5
## 10261             2.83200          5
## 10262             3.17000          5
## 10263            14.18427          5
## 10264             5.11300          5
## 10265            14.18427          2
## 10268            14.18427          5
## 10269             7.96900          5
## 10270            18.63800          5
## 10271             7.05800          5
## 10273             6.64800          5
## 10274             1.59900          2
## 10276             2.18300          2
## 10279            14.18427          6
## 10280            14.18427          5
## 10281             4.22900          2
## 10282             2.43200          5
## 10283             2.28000          5
## 10284             3.64500          2
## 10285             1.69200          2
## 10286            14.18427          5
## 10288             1.96800          2
## 10289            15.75400          5
## 10291             5.47000          6
## 10293             4.45900          4
## 10294             3.65700          4
## 10296             2.17300          4
## 10298             3.80000          5
## 10299             7.66700          5
## 10300             3.88500          2
## 10302             2.96200          5
## 10303            15.47700          5
## 10304             3.88900          5
## 10305            17.50800          5
## 10308             8.29000          5
## 10309            14.18427          5
## 10310             3.06200          2
## 10311             1.70900          2
## 10312            14.18427          5
## 10313            14.18427          5
## 10314             5.19100          5
## 10315            27.55800          5
## 10316             1.94000          4
## 10317             2.38300          2
## 10318             1.59400          2
## 10319             3.96000          5
## 10320            14.18427          5
## 10322            14.18427          5
## 10323            11.34300          6
## 10324             2.97200          4
```

```
## 10325          14.18427         5
## 10326          14.18427         5
## 10327          14.18427         5
## 10328           6.43500         5
## 10330           3.36800         5
## 10331           5.68200         5
## 10332           1.74300         2
## 10333           1.02900         2
## 10334           2.17800         5
## 10335           2.28100         2
## 10337          14.18427         5
## 10339           5.67400         5
## 10340           2.20000         4
## 10341           3.19500         2
## 10343          14.18427         5
## 10344          14.18427         5
## 10345          11.04400         5
## 10346           1.79500         2
## 10347           3.01200         2
## 10348           4.28400         2
## 10349          14.18427         2
## 10352           2.67000         5
## 10353           3.43000         5
## 10354          14.18427         5
## 10355          14.18427         5
## 10356           2.68400         2
## 10358           3.47600         5
## 10359           7.51900         5
## 10360          15.83900         5
## 10361          14.18427         2
## 10362          14.18427         5
## 10363           1.62300         2
## 10364           4.24200         2
## 10365           4.19000         5
## 10366          14.18427         2
## 10367           1.65600         4
## 10368           1.87700         5
## 10370           3.39600         5
## 10371          14.18427         2
## 10373           3.99600         5
## 10375          14.18427         6
## 10378          14.18427         5
## 10379          14.18427         2
## 10382           1.37900         2
## 10386          14.18427         5
## 10387           1.65600         2
## 10388           2.59500         2
## 10389           1.02700         2
## 10390           2.91400         5
## 10392          10.55500         5
## 10393           1.63600         5
## 10394           2.05600         2
## 10395           2.06200         5
## 10396           5.70400         5
```

```
## 10397            14.18427         1
## 10398             2.35500         2
## 10400             2.90000         5
## 10401             5.65200         6
## 10402             2.08900         5
## 10404             1.67400         4
## 10405             4.26800         2
## 10406             1.90800         5
## 10407            12.10800         5
## 10408             3.13700         5
## 10410            14.18427         2
## 10413             2.24400         2
## 10416             4.04400         5
## 10417             2.75100         2
## 10419             3.97200         5
## 10420             1.08600         2
## 10421             2.49900         2
## 10422            14.18427         2
## 10423             1.71600         2
## 10425            14.18427         5
## 10426            14.18427         2
## 10427            14.18427         5
## 10428             2.06500         2
## 10429            14.18427         5
## 10430            14.18427         5
## 10431             3.29900         5
## 10432             2.45000         4
## 10433             3.08600         2
## 10434            14.18427         5
## 10435             2.44100         2
## 10436            10.47800         5
## 10439            10.09200         5
## 10440             9.82900         5
## 10441            14.18427         6
## 10442             1.67700         2
## 10443            22.25600         5
## 10445             2.55600         2
## 10448             4.39800         5
## 10450             2.64200         2
## 10451             2.71200         2
## 10453            14.18427         5
## 10455             4.79000         5
## 10457             4.29900         5
## 10458             4.33600         5
## 10459             6.47600         5
## 10463             2.18100         2
## 10464             1.95000         2
## 10466             4.48000         5
## 10467            26.00000         5
## 10468             3.94400         5
## 10470            14.18427         6
## 10471             2.23700         4
## 10472             2.88600         2
## 10473             3.81700         2
```

```
## 10474          14.18427        5
## 10475          14.18427        5
## 10476           4.57200        5
## 10477           6.36000        5
## 10478          17.72000        5
## 10482           1.95000        2
## 10483          14.18427        5
## 10484          14.18427        4
## 10485           4.39000        5
## 10487           3.29200        5
## 10489           3.57200        5
## 10490          14.18427        5
## 10491           7.06800        5
## 10492           2.12900        5
## 10493           1.99000        2
## 10495          14.18427        5
## 10496           3.14000        5
## 10497           3.20100        5
## 10498           9.52900        5
## 10499           2.09700        4
## 10500           3.93300        5
## 10502          14.18427        4
## 10503          14.18427        2
## 10504           3.83500        2
## 10505           2.19300        2
## 10506           1.93600        5
## 10507           2.53800        5
## 10508          14.18427        5
## 10509          14.18427        4
## 10510           1.82400        2
## 10511           4.00700        5
## 10514          14.18427        5
## 10515           1.53900        2
## 10516          14.18427        4
## 10517          14.18427        5
## 10518           3.46200        5
## 10519           1.57100        4
## 10520          14.18427        5
## 10521          14.18427        5
## 10522          14.18427        5
## 10523          14.18427        5
## 10526           2.47800        5
## 10527           2.21000        4
## 10528          14.18427        5
## 10530           6.32400        5
## 10532          14.18427        5
## 10533           3.89000        5
## 10534           1.31700        4
## 10537           4.25500        5
## 10538           3.39500        5
## 10539           6.12800        5
## 10540           2.15900        4
## 10541           3.29200        5
## 10542           8.72800        5
```

```
## 10543        14.18427        5
## 10544         2.09900        4
## 10545         4.49200        5
## 10546         3.70700        2
## 10547         4.30500        5
## 10548         3.61100        4
## 10549         2.96000        1
## 10551        11.99700        5
## 10552         1.70700        4
## 10553        14.18427        5
## 10555         4.59500        5
## 10556        14.18427        5
## 10557         5.08300        2
## 10558         3.42800        5
## 10560        14.18427        5
## 10561        14.18427        2
## 10562         4.14300        5
## 10563         8.20000        5
## 10564         4.79500        5
## 10565        14.18427        1
## 10566         1.98100        2
## 10568         3.30800        2
## 10569         3.15200        2
## 10570         4.21800        5
## 10573        14.18427        5
## 10574        14.18427        4
## 10575         4.63100        5
## 10577        14.18427        5
## 10579        14.18427        4
## 10580         2.22300        2
## 10581         3.19500        5
## 10582         3.42000        5
## 10583        14.18427        2
## 10585         2.96000        4
## 10586         1.62100        4
## 10587        14.18427        5
## 10588         2.25100        2
## 10589         2.01700        2
## 10590         2.19200        5
## 10591         2.23800        5
## 10594         1.91600        4
## 10595        14.18427        6
## 10596         7.06900        5
## 10600         1.84500        5
## 10601         4.17400        2
## 10603        14.18427        5
## 10604         2.58000        5
## 10605         6.72500        5
## 10607         2.01700        2
## 10610        14.18427        5
## 10611         5.08500        5
## 10612        15.85800        5
## 10613        14.18427        6
## 10614         1.58300        5
```

```
## 10615             1.28200            5
## 10616             4.60000            5
## 10618             3.66600            5
## 10619             2.33100            2
## 10620             5.20900            5
## 10621             2.57700            5
## 10622             1.54700            2
## 10624            14.18427            5
## 10625             3.28800            5
## 10630            14.18427            5
## 10631             5.99100            5
## 10632             1.76600            2
## 10633             4.92300            5
## 10634             3.33700            4
## 10635             2.65000            5
## 10637             2.72200            4
## 10638             9.25600            5
## 10639            14.18427            2
## 10641            14.18427            6
## 10644            14.18427            5
## 10645             3.14000            5
## 10646             5.09000            5
## 10647             3.00600            5
## 10648             3.26000            5
## 10649             3.26000            5
## 10650             2.21200            2
## 10651             1.67300            2
## 10652             3.65000            5
## 10653             9.67000            5
## 10654             4.29000            6
## 10655            14.18427            5
## 10656             7.57200            5
## 10657             4.54000            5
## 10659             8.02000            5
## 10660             3.03500            2
## 10661             2.56900            4
## 10662             1.45400            2
## 10663             2.90600            5
## 10664             4.82300            5
## 10665             1.52400            2
## 10666            14.18427            5
## 10669             0.96000            2
## 10670             1.78000            4
## 10671            14.18427            4
## 10672             4.36200            5
## 10673             4.38500            2
## 10674            14.18427            5
## 10676            14.18427            5
## 10677             4.60800            5
## 10678             1.92100            2
## 10679            15.73600            5
## 10680             2.39400            4
## 10681             4.55100            5
## 10682             1.94300            4
```

```
## 10683                 3.10600           6
## 10685                11.12900           5
## 10686                14.74000           5
## 10687                14.18427           2
## 10688                14.18427           5
## 10689                 2.86200           4
## 10690                 8.51300           5
## 10691                14.18427           5
## 10692                 4.19100           5
## 10693                14.18427           2
## 10694                14.18427           5
## 10696                 2.57800           2
## 10697                 1.57300           4
## 10698                 2.77000           5
## 10700                 3.32000           5
## 10701                15.59900           5
## 10702                 4.18900           5
## 10704                 7.04700           5
## 10706                14.18427           5
## 10707                14.18427           4
## 10709                14.18427           2
## 10710                 2.89200           4
## 10711                 1.58000           5
## 10712                14.18427           5
## 10714                14.18427           5
## 10715                14.18427           5
## 10716                14.18427           5
## 10717                 2.81800           5
## 10718                 2.90000           5
## 10719                 4.97700           2
## 10721                 1.98900           4
## 10723                14.18427           5
## 10724                14.18427           2
## 10725                 2.49200           2
## 10726                 3.24900           5
## 10727                 9.05500           5
## 10728                14.18427           5
## 10729                 1.92300           4
## 10730                14.18427           5
## 10732                 1.20300           5
## 10733                 1.70800           6
## 10734                 4.87900           2
## 10735                 4.72600           5
## 10736                 2.77900           4
## 10737                14.18427           5
## 10739                14.18427           6
## 10744                11.93900           5
## 10745                 1.81400           5
## 10746                22.62000           5
## 10747                 3.74400           5
## 10748                 2.68800           2
## 10749                14.18427           5
## 10750                14.18427           4
## 10751                 2.90100           5
```

```
## 10752          14.18427          2
## 10753          17.98600          5
## 10754           1.70300          2
## 10757          14.18427          5
## 10758           3.07000          5
## 10759           2.36700          2
## 10760          14.18427          4
## 10761          18.98900          5
## 10764          14.18427          5
## 10765           1.12500          2
## 10767          14.18427          5
## 10768          14.18427          5
## 10769           2.08200          5
## 10770          14.18427          5
## 10771          14.18427          5
## 10772           4.18200          5
## 10773          14.18427          2
## 10774           2.20700          2
## 10776           1.53200          2
## 10777          14.18427          6
## 10778           4.81100          5
## 10782           2.12900          2
## 10783          14.18427          5
## 10784           4.76700          6
## 10785           3.26000          5
## 10786           2.69000          5
## 10787          14.18427          4
## 10788          14.18427          6
## 10790          14.18427          5
## 10791          14.18427          5
## 10792           1.97500          4
## 10793           2.79800          2
## 10795          14.18427          6
## 10797          14.18427          6
## 10798           4.35300          2
## 10799           1.83500          2
## 10800           4.43600          2
## 10801          14.18427          5
## 10802           2.01800          2
## 10803          14.18427          5
## 10804           2.90000          5
## 10805          14.18427          5
## 10806          14.18427          5
## 10807          14.18427          2
## 10809          13.97600          5
## 10811          14.18427          2
## 10813          14.18427          2
## 10814           2.32400          5
## 10815           2.23200          2
## 10816          16.39000          5
## 10817           8.26700          5
## 10818          14.18427          2
## 10819           1.49700          2
## 10820           3.17000          6
```

```
## 10821              2.14300         4
## 10823              3.28800         5
## 10824              5.88100         5
## 10825             14.18427         6
## 10826             14.18427         5
## 10827              3.47400         5
## 10828             14.18427         5
## 10829             17.00000         5
## 10831             14.18427         2
## 10833             10.92600         5
## 10835             14.18427         5
## 10836              3.81400         5
## 10837             14.18427         5
## 10838             14.18427         5
## 10839              3.33400         5
## 10840             14.18427         2
## 10842             14.18427         2
## 10843             14.18427         5
## 10844              1.67900         2
## 10845             14.18427         5
## 10846              3.25300         5
## 10847             14.18427         4
## 10848             21.31600         5
## 10850              1.49500         2
## 10851              3.23600         5
## 10852              1.52000         2
## 10853              3.00300         2
## 10854             12.05400         5
## 10855             14.18427         5
## 10857              2.17700         2
## 10858              1.95400         2
## 10859              1.69800         2
## 10860              2.46500         2
## 10861              2.04000         2
## 10862              2.56500         2
## 10864              2.57300         5
## 10865             14.18427         5
## 10867              2.69300         4
## 10868             14.18427         4
## 10869             14.18427         5
## 10870             48.72600         5
## 10872              2.95900         5
## 10875             14.18427         2
## 10876              2.25500         5
## 10877             14.18427         6
## 10878              2.79100         4
## 10879              3.73400         5
## 10881              3.97400         5
## 10884             14.18427         5
## 10885              1.77100         5
## 10886             14.18427         4
## 10887             14.18427         5
## 10888             14.18427         3
## 10889              3.39200         2
```

```
## 10890              14.18427          5
## 10891               2.31000          2
## 10892              14.18427          2
## 10893               2.95400          5
## 10895              14.18427          5
## 10896               4.04200          5
## 10897               3.58100          5
## 10898               4.09300          4
## 10899              14.18427          5
## 10900               2.00500          5
## 10902               4.88900          5
## 10904               6.35000          5
## 10905               2.27400          2
## 10906               4.53200          5
## 10907              14.18427          5
## 10908              14.18427          5
## 10909               2.96000          5
## 10910              14.18427          5
## 10911               3.52700          5
## 10912              14.18427          5
## 10913               4.24100          6
## 10914              14.18427          4
## 10916               2.13700          2
## 10917               3.14100          5
## 10918               2.70600          4
## 10919              14.18427          5
## 10920               2.06200          4
## 10921             393.80300          5
## 10922               3.15500          2
## 10925               9.35400          5
## 10927               1.96600          2
## 10928               4.36700          5
## 10929               5.41000          5
## 10930              14.18427          5
## 10932               5.89400          5
## 10933              14.18427          2
## 10934               3.10100          5
## 10935              14.18427          5
## 10936              11.38700          5
## 10938              14.18427          5
## 10939              24.70900          5
## 10940              14.18427          5
## 10942              83.48400          5
## 10943               1.94000          2
## 10944               1.99900          5
## 10945               8.66300          5
## 10946              14.18427          5
## 10947              14.18427          5
## 10948               4.57600          6
## 10949               8.31000          5
## 10950               1.67700          5
## 10951              14.18427          5
## 10953              14.77600          5
## 10954               1.43800          2
```

```
## 10955          14.18427       5
## 10956          14.18427       5
## 10957          13.64800       5
## 10958           3.48500       5
## 10959           3.14800       5
## 10963           6.33100       5
## 10964           1.87000       5
## 10965          14.18427       4
## 10966           4.57600       6
## 10967          14.18427       6
## 10968           6.02600       5
## 10969           2.12300       2
## 10970           4.93500       2
## 10971           1.23500       2
## 10972           3.46000       5
## 10975          14.44600       5
## 10976          14.18427       5
## 10978           3.15200       4
## 10979           2.36100       6
## 10980           3.39600       5
## 10982           1.56900       2
## 10983           1.53800       2
## 10984          63.23300       5
## 10986          14.18427       2
## 10987           1.25800       2
## 10988           1.67800       4
## 10989           4.54700       5
## 10990           2.09000       5
## 10993           4.76100       5
## 10994          14.18427       5
## 10995           4.52600       5
## 10996           2.64400       5
## 10999          14.18427       5
## 11000           1.20100       2
## 11001           4.01100       5
## 11002           3.02400       2
## 11004           2.27500       5
## 11006          14.18427       5
## 11007           4.26900       5
## 11008          14.18427       5
## 11009           2.28100       4
## 11010           6.29900       5
## 11011           2.56400       5
## 11012          14.18427       2
## 11013          17.32000       5
## 11015           2.33200       4
## 11017           1.68800       5
## 11018           3.39900       5
## 11019          14.18427       5
## 11020          24.35600       5
## 11021          14.18427       5
## 11022           2.82500       2
## 11024          14.18427       5
## 11028           8.29200       5
```

```
## 11029           14.18427        5
## 11030            4.39300        5
## 11032           14.98200        5
## 11033            4.70900        5
## 11034            3.94900        5
## 11035            1.64800        2
## 11036           14.18427        4
## 11038           14.18427        2
## 11039           14.15900        5
## 11040            2.97700        5
## 11041            6.47700        5
## 11043           14.18427        4
## 11045           12.87100        5
## 11046            2.99500        2
## 11048            7.86000        5
## 11050           14.18427        5
## 11051            3.25300        2
## 11052            1.77300        4
## 11053            5.86000        5
## 11055           14.18427        2
## 11056           14.18427        5
## 11057           18.73400        5
## 11058           11.03600        5
## 11059            2.65200        5
## 11060           14.18427        5
## 11062            2.80400        2
## 11063            2.43500        4
## 11064            6.54300        5
## 11066           14.18427        5
## 11067           14.18427        1
## 11068            3.27200        5
## 11070            3.91500        2
## 11071           14.18427        5
## 11072         2748.76000        5
## 11073            6.12600        5
## 11074           22.65200        5
## 11076           16.41100        5
## 11077            4.16000        5
## 11078           14.18427        2
## 11079           14.18427        5
## 11080            2.58000        5
## 11081            3.78300        5
## 11083           14.18427        5
## 11084           29.21200        5
## 11085           14.18427        5
## 11087            3.65000        5
## 11089           14.18427        2
## 11091            3.74600        2
## 11092            6.10600        5
## 11093           14.18427        5
## 11094           14.18427        6
## 11095            3.91400        5
## 11096            4.66400        5
## 11097            4.55700        5
```

```
## 11098             14.92400        5
## 11099              8.48400        5
## 11100              3.12200        2
## 11101              7.10800        5
## 11103             14.18427        4
## 11104             14.18427        4
## 11105             14.18427        6
## 11107              9.59600        5
## 11108             14.18427        1
## 11111              2.91800        6
## 11113              4.33300        5
## 11114             14.18427        4
## 11115              1.98900        2
## 11117             14.18427        5
## 11119              3.85300        5
## 11120              9.19900        5
## 11121             14.18427        5
## 11122              3.25400        5
## 11123              2.12900        2
## 11124              4.74100        5
## 11125              4.59900        2
## 11128             14.18427        5
## 11129              2.83600        5
## 11130             21.88800        5
## 11131              3.36400        2
## 11132              3.98700        5
## 11133             14.18427        5
## 11134              4.83000        2
## 11135              1.87800        4
## 11136              4.27000        5
## 11137              2.79000        4
## 11138              3.25000        2
## 11140              2.46600        4
## 11141             16.38200        5
## 11144              2.85100        5
## 11145             17.72100        5
## 11146              4.55100        5
## 11147              2.97000        2
## 11148              1.97400        4
## 11149             14.18427        2
## 11150             14.18427        5
## 11151              1.10500        2
## 11153              1.91700        4
## 11154              2.89700        5
## 11155              3.79000        5
## 11156              3.21200        5
## 11157             14.18427        5
## 11158              1.30400        4
## 11159              2.27500        5
## 11160              3.02100        2
## 11161             14.18427        2
## 11162             14.18427        2
## 11163              2.72600        5
## 11166             14.18427        5
```

```
## 11167             1.70200      2
## 11169            14.18427      4
## 11171             2.04300      4
## 11172            10.53800      5
## 11173             7.72700      5
## 11175             3.08100      5
## 11176             2.53400      4
## 11177             4.10000      5
## 11178             3.26000      6
## 11181            10.09000      5
## 11182             3.20000      5
## 11183            14.18427      5
## 11184            14.18427      2
## 11185             0.82600      2
## 11186             3.19800      2
## 11188             3.28600      5
## 11189             1.79900      2
## 11190            14.18427      2
## 11191             2.96100      5
## 11192             2.47500      2
## 11195            11.05600      5
## 11196             1.76100      2
## 11197             3.46300      4
## 11198             1.64700      2
## 11200            14.18427      2
## 11201            14.18427      5
## 11202             3.37800      4
## 11204             0.89100      2
## 11206            14.18427      6
## 11207             6.57600      4
## 11208            14.18427      5
## 11211             2.66000      4
## 11212             2.99400      5
## 11213             2.19200      4
## 11214             4.16500      5
## 11215            14.18427      5
## 11216            10.11000      5
## 11217             2.26200      4
## 11218            22.15700      5
## 11219             4.54000      5
## 11220             2.85000      5
## 11221            14.18427      5
## 11222             1.90000      5
## 11223            10.31200      5
## 11225             2.78800      2
## 11226            15.36200      5
## 11227            14.18427      6
## 11228            14.18427      2
## 11229            14.18427      2
## 11230             5.14000      5
## 11231             2.63800      2
## 11233             0.65000      5
## 11235             2.08100      2
## 11237             2.32500      2
```

```
## 11238             2.11200       4
## 11239             1.82600       4
## 11241            14.18427       5
## 11244             2.23600       5
## 11245             2.24700       2
## 11246            14.18427       4
## 11247             2.03700       4
## 11248            14.18427       5
## 11249             2.34000       2
## 11250             1.92500       5
## 11251             2.93200       2
## 11252            14.18427       2
## 11253             2.96500       5
## 11254             1.79900       5
## 11257             2.98600       5
## 11259             3.75100       5
## 11260            15.45800       5
## 11261             2.60800       2
## 11262             4.21300       5
## 11263             3.24300       5
## 11265             3.92000       5
## 11267            14.18427       5
## 11269             2.86600       5
## 11270             3.51000       5
## 11271             4.44600       5
## 11272            11.36300       5
## 11273             2.87100       5
## 11274            14.18427       5
## 11275             1.13600       2
## 11276             2.30900       5
## 11278            14.18427       5
## 11279            21.26800       5
## 11282            14.18427       1
## 11283            14.18427       5
## 11284            14.18427       5
## 11285            14.18427       6
## 11286             1.73300       2
## 11288            14.18427       5
## 11289             3.27200       5
## 11290             1.78000       2
## 11292             3.77400       2
## 11293             3.42300       2
## 11295             6.36900       5
## 11298             2.83600       2
## 11299             2.42300       4
## 11300             2.43400       2
## 11301            15.66000       5
## 11302            14.18427       5
## 11304            14.18427       6
## 11305             2.08700       2
## 11306             4.22100       5
## 11307             9.95300       5
## 11308            27.75700       5
## 11309            14.18427       5
```

```
## 11310              1.91800       4
## 11311             14.18427       6
## 11315              3.60100       5
## 11316             14.18427       5
## 11317             14.18427       5
## 11319              2.71900       5
## 11321             14.18427       5
## 11322              5.10000       6
## 11324             14.18427       4
## 11325              1.99700       5
## 11326              4.68800       5
## 11327             14.42300       5
## 11328              3.09100       5
## 11329              3.64700       5
## 11331             14.18427       4
## 11332              1.90000       4
## 11333             14.18427       4
## 11336              4.38000       5
## 11337              3.44900       5
## 11338              3.20900       5
## 11339              5.03500       5
## 11341              3.32800       5
## 11344             14.18427       2
## 11346              5.55700       5
## 11348              2.92600       5
## 11350              1.27500       2
## 11352              2.26500       5
## 11353              4.35800       2
## 11354              4.83000       6
## 11356              4.59500       5
## 11357             14.18427       2
## 11358              2.58600       5
## 11359              2.50300       2
## 11360             14.18427       2
## 11361             14.18427       5
## 11362              3.02900       5
## 11364              1.53600       4
## 11365              3.09100       2
## 11366             14.18427       4
## 11368              9.09700       5
## 11370              2.92000       5
## 11371              3.73900       5
## 11372              1.45200       2
## 11373              2.06000       4
## 11375              4.00700       5
## 11376              2.57000       2
## 11377              3.71700       5
## 11378              0.86900       2
## 11379             14.18427       5
## 11380              1.26100       2
## 11381              2.67600       2
## 11382              2.58000       2
## 11383              1.61700       2
## 11384             14.18427       6
```

```
## 11385             3.31700        6
## 11386            14.18427        5
## 11388            22.30800        5
## 11389            14.18427        5
## 11391             4.24600        5
## 11392            14.18427        5
## 11395             2.10200        4
## 11396             7.50500        5
## 11397            14.18427        5
## 11398             2.80800        5
## 11399             6.03000        5
## 11400             2.99800        5
## 11401             3.58800        5
## 11402            14.18427        2
## 11403             2.48600        5
## 11404             3.76500        5
## 11407             4.06500        5
## 11408            14.18427        5
## 11411             2.07900        2
## 11413            43.57000        5
## 11414            22.19300        5
## 11415            14.18427        2
## 11416             2.27100        4
## 11418             1.46900        4
## 11422             4.98000        5
## 11423            14.18427        4
## 11424             3.47400        5
## 11425             7.08100        5
## 11426             3.62400        5
## 11428            14.18427        5
## 11429            14.18427        2
## 11430            14.18427        5
## 11431             2.42500        2
## 11432            14.18427        5
## 11434             4.03600        2
## 11435            11.01200        5
## 11436             1.83100        4
## 11437            14.18427        5
## 11438            14.18427        5
## 11439             3.80000        6
## 11441             7.26000        5
## 11442             1.84600        4
## 11443             2.14200        2
## 11444             2.74300        5
## 11447             4.03000        5
## 11448             3.21000        1
## 11449             4.16200        5
## 11450            12.63500        5
## 11451            14.18427        5
## 11452             2.44300        4
## 11453             1.45300        4
## 11454             4.63300        5
## 11455             1.42700        2
## 11461            14.18427        4
```

```
## 11462          14.18427        2
## 11463           4.82500        5
## 11464           2.26400        5
## 11465          14.18427        4
## 11466          14.18427        2
## 11467           0.92500        2
## 11468           4.32000        5
## 11469          14.18427        2
## 11471          12.38400        5
## 11472          14.18427        6
## 11474           2.16300        2
## 11476           3.48400        6
## 11477           3.09500        5
## 11478           1.85100        2
## 11479           6.50000        5
## 11480          14.18427        5
## 11481          14.18427        5
## 11482           2.38200        5
## 11484          14.18427        5
## 11486           2.21700        2
## 11487          14.18427        2
## 11491          25.44000        5
## 11493           3.51300        5
## 11494           5.20700        5
## 11495           4.57600        5
## 11496           4.03900        5
## 11497           3.29000        5
## 11499          13.36100        5
## 11500          14.18427        4
## 11501          10.11400        5
## 11502          14.18427        5
## 11503           5.83000        5
## 11504           4.14100        5
## 11506           3.79800        5
## 11507           4.44100        5
## 11509          14.18427        5
## 11510          14.18427        5
## 11511          14.18427        6
## 11512          14.18427        2
## 11515           5.07400        5
## 11517          14.18427        5
## 11518          14.18427        5
## 11519           4.24200        2
## 11520           2.69100        2
## 11521          14.18427        5
## 11522          11.57500        5
## 11523          14.18427        1
## 11524           3.61900        5
## 11525           3.41500        4
## 11526           3.01800        5
## 11527           2.09300        4
## 11528          14.18427        5
## 11529           2.31100        2
## 11530           3.85400        5
```

```
## 11531              2.80500        2
## 11532             14.18427        5
## 11533             14.18427        5
## 11534             26.85000        5
## 11537              1.96900        2
## 11538             14.18427        5
## 11539             14.18427        5
## 11540              4.94700        5
## 11542             14.18427        2
## 11543              1.92000        5
## 11544             15.41800        5
## 11545             14.18427        5
## 11546              7.24500        5
## 11548             21.99100        5
## 11549              2.70600        2
## 11550              1.86700        4
## 11551             14.18427        5
## 11552              1.76000        2
## 11553             13.04100        5
## 11554              4.59700        5
## 11555             14.18427        4
## 11556             14.18427        2
## 11557              3.25300        5
## 11559              2.64100        2
## 11560             14.18427        6
## 11561              3.40000        5
## 11562              4.19900        5
## 11564              1.49200        2
## 11565              2.66300        5
## 11566              2.94600        4
## 11567             14.18427        2
## 11568              3.94000        2
## 11570             14.18427        6
## 11571             14.18427        5
## 11572              2.88000        5
## 11573             24.67800        5
## 11574              7.20600        5
## 11575             18.04700        5
## 11579              2.90000        4
## 11582              3.41700        5
## 11585              2.37600        2
## 11586             12.19800        5
## 11587             14.18427        2
## 11588             14.18427        2
## 11589              4.70100        5
## 11591              1.71900        4
## 11592              3.56000        5
## 11594              2.48100        2
## 11595              2.04500        2
## 11596             14.18427        5
## 11597              3.69200        5
## 11599             14.18427        4
## 11600             14.18427        5
## 11603             14.18427        2
```

```
## 11604           5.29900          5
## 11605           3.16300          5
## 11606           3.23800          5
## 11607           1.03400          5
## 11609          14.18427          5
## 11610           3.69900          5
## 11611           1.64800          2
## 11612           5.74900          5
## 11613          14.18427          5
## 11615           2.23100          4
## 11617           2.12500          2
## 11618          14.18427          5
## 11622           1.51000          2
## 11623          14.75800          5
## 11625           4.26800          2
## 11626           1.81400          4
## 11627          14.18427          5
## 11628          10.96300          5
## 11629           2.39900          2
## 11630           2.44000          2
## 11631           3.36000          5
## 11632          14.18427          5
## 11633          10.79300          5
## 11634          14.18427          5
## 11635           1.92800          4
## 11636           4.11900          5
## 11637           3.45000          5
## 11639           2.86600          2
## 11640           2.88500          5
## 11641           1.39600          2
## 11642          14.18427          5
## 11643           4.06000          2
## 11645           3.03100          5
## 11646           2.31500          6
## 11647           1.88300          2
## 11648           4.54700          5
## 11650           2.11500          2
## 11652          25.92500          5
## 11653           4.05700          4
## 11655           5.05000          5
## 11657           4.68400          2
## 11658           1.24600          2
## 11659          14.18427          5
## 11660          14.18427          5
## 11661          35.62600          5
## 11663           4.23200          5
## 11664          14.18427          5
## 11666           3.52400          4
## 11668           7.20400          5
## 11670           3.09200          5
## 11671           6.66000          5
## 11673          14.18427          5
## 11674           1.47600          2
## 11676          14.18427          4
```

```
## 11677             2.06600          2
## 11678             3.91300          5
## 11680             2.53900          2
## 11681             2.59400          4
## 11682             3.32200          5
## 11683            10.11000          5
## 11684             1.99500          2
## 11687            14.18427          2
## 11688            13.97100          5
## 11690             3.94900          2
## 11691             3.77600          5
## 11692            14.18427          5
## 11694             5.25800          5
## 11695             2.78600          2
## 11696            14.18427          2
## 11697            14.18427          5
## 11698             2.86000          5
## 11699            14.18427          5
## 11700            20.20000          5
## 11701            14.18427          4
## 11704             1.81300          4
## 11706            10.64300          5
## 11707             1.20500          2
## 11708             2.68000          2
## 11709             5.64600          5
## 11710             5.52300          5
## 11712            14.18427          5
## 11714             2.76500          4
## 11716             5.95900          6
## 11717            14.18427          5
## 11718            14.18427          2
## 11719            20.25900          5
## 11720            14.18427          5
## 11722             2.66400          2
## 11723            14.18427          5
## 11724             3.29200          5
## 11725             3.84000          5
## 11726             2.35200          4
## 11727            14.18427          5
## 11728             4.68100          2
## 11730             2.18700          2
## 11731             8.19400          5
## 11732            14.18427          6
## 11733             7.19700          6
## 11734            14.18427          5
## 11735             4.54600          5
## 11737             2.61300          5
## 11739            14.18427          1
## 11740            14.18427          4
## 11741             3.02200          2
## 11742             4.25000          5
## 11744             2.52100          5
## 11745             4.48500          5
## 11746             3.16000          2
```

```
## 11747                1.61900           5
## 11748               14.18427           2
## 11749                3.09000           5
## 11751                1.59300           2
## 11752                4.45900           5
## 11753                5.73000           6
## 11756               14.18427           5
## 11757                3.31600           5
## 11758               14.18427           5
## 11761                3.83000           2
## 11762                3.43000           5
## 11765                7.54000           5
## 11766                4.75500           5
## 11767                5.11000           5
## 11768               14.18427           5
## 11770                1.93100           4
## 11772                3.02800           5
## 11776                3.74400           2
## 11777                3.49400           5
## 11779               32.65000           5
## 11780               14.18427           2
## 11781               11.35000           5
## 11783                2.16700           4
## 11785                1.70000           2
## 11786               15.96700           5
## 11787               14.18427           5
## 11788                2.24800           2
## 11792                4.59600           5
## 11793               12.53700           5
## 11794                2.48900           2
## 11796               14.18427           5
## 11799               14.18427           6
## 11801               14.18427           5
## 11802                1.70700           2
## 11803               14.18427           5
## 11804               22.06000           5
## 11807               14.18427           5
## 11808                4.32400           2
## 11809               14.18427           6
## 11814                9.66000           5
## 11815                3.02400           5
## 11817               14.18427           2
## 11820                7.68400           5
## 11821               14.18427           2
## 11822                2.48600           2
## 11823                3.02100           2
## 11824                2.72200           5
## 11825                1.93700           4
## 11826               21.31000           5
## 11827                4.58200           5
## 11828                4.03300           2
## 11829                4.95800           5
## 11830               14.18427           5
## 11833                2.14800           2
```

```
## 11834              4.64000          5
## 11838              3.50500          5
## 11841             14.18427          5
## 11842              8.65000          6
## 11843             14.18427          2
## 11845              3.59000          5
## 11846             14.18427          5
## 11848              6.75600          5
## 11850              2.59600          5
## 11852             14.18427          5
## 11853             14.18427          5
## 11854              9.78700          5
## 11855             14.18427          2
## 11856             14.18427          5
## 11857              0.93900          2
## 11858              4.21900          5
## 11859              1.54500          2
## 11860             14.18427          5
## 11863              1.58000          2
## 11864              2.17400          5
## 11865              2.72400          2
## 11867              3.20800          4
## 11868              2.92400          2
## 11869              2.64500          2
## 11870             14.18427          1
## 11871              2.04500          2
## 11872              2.95900          5
## 11873              1.68800          2
## 11874             14.18427          5
## 11875              1.09000          2
## 11877              1.23300          2
## 11878             14.18427          4
## 11879              4.21000          5
## 11880             14.18427          5
## 11882             14.18427          2
## 11883             18.14100          5
## 11885              3.88700          5
## 11886              2.65700          5
## 11887             14.18427          5
## 11888              2.14500          4
## 11889              3.32700          5
## 11890             14.18427          5
## 11892              2.56200          2
## 11893              3.70900          5
## 11894              1.46400          2
## 11895              4.74300          5
## 11896              2.15200          4
## 11897              2.70900          4
## 11898             15.83300          5
## 11899              3.12800          2
## 11900             14.18427          5
## 11901              5.53200          5
## 11902              4.28300          5
## 11903             14.18427          6
```

```
## 11904          14.18427     5
## 11905          14.18427     5
## 11906           4.50600     5
## 11907          11.09200     5
## 11909          14.18427     2
## 11910          14.18427     5
## 11911           3.03900     6
## 11912           2.16000     2
## 11913           2.08200     2
## 11914          14.18427     5
## 11916           3.33300     6
## 11917          16.91000     5
## 11919           1.74400     4
## 11920           7.68200     5
## 11921           2.70000     4
## 11922           4.50700     5
## 11924           1.19600     2
## 11925           9.97000     5
## 11927           3.82500     5
## 11930          26.07100     5
## 11931           1.08500     2
## 11932           2.99200     6
## 11933          14.18427     4
## 11935          14.18427     5
## 11936          14.18427     5
## 11937          14.18427     5
## 11938           3.30200     5
## 11939          14.42000     5
## 11941          14.10400     5
## 11942          15.60500     5
## 11943           9.47200     5
## 11944          23.76000     5
## 11947           4.59000     5
## 11949          14.57000     5
## 11950          14.18427     4
## 11951          14.18427     2
## 11954           2.45700     2
## 11957           1.62900     5
## 11958          14.18427     6
## 11961           1.83700     4
## 11963          14.18427     2
## 11964           5.48700     5
## 11965          14.18427     5
## 11966           2.66900     4
## 11967           2.43500     5
## 11969          14.18427     4
## 11971           3.91800     2
## 11973          11.13600     5
## 11974           4.44100     6
## 11975           2.11000     4
## 11976          14.18427     2
## 11977          14.18427     5
## 11978           9.34400     5
## 11979          13.08200     5
```

```
## 11983              1.87200        2
## 11984              3.39800        5
## 11985             14.18427        5
## 11986              2.33600        5
## 11987              3.38400        5
## 11989              2.24400        4
## 11990             14.18427        5
## 11991             14.18427        5
## 11992             14.18427        5
## 11993              2.63400        2
## 11994              4.39600        4
## 11995             14.18427        4
## 11996              3.01600        5
## 11998             14.18427        2
## 12001             14.18427        2
## 12003              4.07000        2
## 12005              2.96900        5
## 12006             14.18427        5
## 12007             12.98900        5
## 12008             14.18427        4
## 12011              3.11000        5
## 12012             14.18427        5
## 12013             14.18427        5
## 12015              1.98300        4
## 12017              1.84800        4
## 12018              1.05200        2
## 12020              2.62600        5
## 12021             14.18427        5
## 12022              2.70000        4
## 12023             14.18427        5
## 12026             14.18427        2
## 12027              4.11200        5
## 12028             14.18427        5
## 12029              6.99200        5
## 12030             14.18427        5
## 12031              5.99500        5
## 12032             11.17700        5
## 12033              5.02000        5
## 12034              1.72700        4
## 12035              2.70000        5
## 12036              1.44000        2
## 12037             14.18427        2
## 12038             14.18427        1
## 12039             11.54200        5
## 12040             14.18427        5
## 12042              3.38000        2
## 12043             13.68100        5
## 12044             22.72500        5
## 12045              2.04200        4
## 12047              3.71900        5
## 12049             14.18427        6
## 12050              6.55400        5
## 12051              3.86000        5
## 12052              2.42500        5
```

```
## 12053              13.70800        5
## 12055               2.88600        2
## 12056               9.30000        5
## 12057               2.97100        5
## 12058               2.38300        5
## 12059               3.07000        5
## 12060              19.32800        5
## 12061               1.80800        5
## 12062               3.16600        2
## 12063               3.17100        5
## 12064               4.94000        5
## 12065              14.18427        5
## 12066               2.39400        2
## 12068              14.18427        5
## 12069               5.73000        6
## 12070              10.08600        5
## 12074              14.18427        5
## 12076               2.67200        1
## 12078              14.18427        6
## 12080               2.46600        5
## 12081              14.18427        6
## 12082              14.18427        2
## 12083              14.18427        5
## 12084              14.18427        5
## 12087              17.69300        5
## 12090              14.18427        1
## 12091               5.08300        5
## 12092              14.18427        5
## 12093               5.07700        5
## 12094               3.93500        2
## 12095              14.18427        5
## 12096               5.09400        5
## 12097               5.54500        5
## 12098              14.18427        6
## 12099               5.96900        5
## 12100               1.77000        4
## 12101               2.95200        5
## 12103               1.51400        5
## 12104               2.00200        5
## 12105               4.43300        5
## 12106              14.51400        5
## 12107               2.03900        2
## 12108               1.39900        2
## 12109               1.76600        4
## 12111               1.43800        2
## 12114               1.29700        2
## 12117              14.18427        5
## 12119               7.67700        5
## 12120               4.75000        2
## 12121               3.27600        5
## 12122              14.18427        3
## 12123              14.18427        5
## 12124               2.00400        5
## 12125               2.75500        4
```

```
## 12127           5.30500       5
## 12128          14.18427       6
## 12130           1.72000       2
## 12131          14.18427       5
## 12132           2.59600       5
## 12133           3.95600       5
## 12134           3.43300       4
## 12135           7.72900       6
## 12136           2.24500       5
## 12137           3.97400       5
## 12140          14.18427       2
## 12141          14.18427       5
## 12143           5.99100       5
## 12145          14.18427       2
## 12146           3.24000       5
## 12147           3.00700       5
## 12148           6.68000       5
## 12149           1.80300       4
## 12150          14.18427       5
## 12152          14.18427       5
## 12153           3.92500       5
## 12154          14.18427       4
## 12155           2.70000       4
## 12156           2.11000       2
## 12157           3.06400       5
## 12158          14.18427       5
## 12161          10.29000       5
## 12162          14.18427       2
## 12163           2.08700       5
## 12164           3.89200       5
## 12166           8.98300       5
## 12167          14.18427       5
## 12170          14.18427       2
## 12171          19.95900       5
```