

HW4

Mitch Oshima

February 3, 2016

1.) After reading in the csv dataframe “treedata,” I used an intercept only model to analyze the species cover data, “cover” from the dataframe. I then made a regression model using all of the variables in the dataframe.

```
library(car)
```

```
## Warning: package 'car' was built under R version 3.1.3
```

```
treedata = read.csv(url("http://dmcglinn.github.io/quant_methods/data/treedata.csv"), header = TRUE)
expMod1 = lm(treedata$cover ~ 1)
expMod1
```

```
##
## Call:
## lm(formula = treedata$cover ~ 1)
##
## Coefficients:
## (Intercept)
##          4.006
```

```
Anova(expMod1, type = 3)
```

```
## Anova Table (Type III tests)
##
## Response: treedata$cover
##          Sum Sq   Df F value    Pr(>F)
## (Intercept) 143968    1  32500 < 2.2e-16 ***
## Residuals   39736 8970
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
summary(expMod1)
```

```
##
## Call:
## lm(formula = treedata$cover ~ 1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.006 -2.006 -0.006  1.994  5.994
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  4.00602    0.02222   180.3  <2e-16 ***
## ---
```

```
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.105 on 8970 degrees of freedom
```

```
expMod2 = lm(cover ~ ., data = treedata)
expMod2
```

```
##
## Call:
## lm(formula = cover ~ ., data = treedata)
##
## Coefficients:
##              (Intercept)              plotIDATBN-01-0303
##              3.634e+00              1.214e+00
##              plotIDATBN-01-0304              plotIDATBN-01-0305
##              1.088e+00              8.150e-01
##              plotIDATBN-01-0306              plotIDATBN-01-0307
##              1.740e+00              3.103e-01
##              plotIDATBN-01-0308              plotIDATBN-01-0309
##              7.469e-01              2.478e+00
##              plotIDATBN-01-0311              plotIDATBN-01-0312
##              1.346e+00              -9.750e-02
##              plotIDATBN-01-0313              plotIDATBN-01-0314
##              4.374e-01              -2.356e-01
##              plotIDATBN-01-0315              plotIDATBN-01-0317
##              3.829e-01              -1.448e+00
##              plotIDATBN-01-0318              plotIDATBN-01-0319
##              -1.433e+00              1.558e+00
##              plotIDATBN-01-0320              plotIDATBN-01-0321
##              1.305e+00              1.679e+00
##              plotIDATBN-01-0322              plotIDATBN-01-0323
##              -1.311e+00              4.231e-01
##              plotIDATBN-01-0324              plotIDATBN-01-0401
##              1.016e-01              6.891e-01
##              plotIDATBN-01-0402              plotIDATBN-01-0403
##              -3.389e-01              -2.745e+00
##              plotIDATBN-01-0404              plotIDATBN-01-0405
##              -2.800e+00              3.676e-01
##              plotIDATBN-01-0406              plotIDATBN-01-0407
##              4.018e+00              1.103e+00
##              plotIDATBN-01-0408              plotIDATBN-01-0409
##              -2.819e+00              -2.753e+00
##              plotIDATBN-01-0410              plotIDATBN-01-0411
##              2.873e+00              2.659e+00
##              plotIDATBN-01-0412              plotIDATBN-01-0413
##              -2.485e+00              3.216e-01
##              plotIDATBN-01-0414              plotIDATBN-01-0415
##              -2.551e+00              7.633e-01
##              plotIDATBN-01-0501              plotIDATBN-01-0503
##              6.999e-01              -2.133e-01
##              plotIDATBN-01-0504              plotIDATBN-01-0505
##              1.767e+00              1.690e+00
##              plotIDATBN-01-0506              plotIDATBN-01-0507
##              1.954e+00              -2.674e+00
```

##	plotIDATBN-01-0508	plotIDATBN-01-0512
##	4.578e+00	-4.512e-01
##	plotIDATBN-01-0513	plotIDATBN-01-0514
##	7.786e-01	3.841e-01
##	plotIDATBN-01-0515	plotIDATBN-01-0516
##	3.478e-01	1.113e+00
##	plotIDATBN-01-0518	plotIDATBN-01-0519
##	1.305e+00	8.685e-01
##	plotIDATBN-01-0521	plotIDATBN-01-0522
##	-4.562e-01	-2.577e+00
##	plotIDATBN-01-0523	plotIDATBN-01-0525
##	-2.672e+00	3.244e-02
##	plotIDATBN-01-0526	plotIDATBN-01-0528
##	1.266e+00	2.053e+00
##	plotIDATBN-01-0529	plotIDATBN-01-0530
##	1.317e+00	1.201e+00
##	plotIDATBN-01-0532	plotIDATBN-01-0533
##	1.294e+00	1.589e+00
##	plotIDATBN-01-0534	plotIDATBN-01-0536
##	-2.618e+00	-1.745e+00
##	plotIDATBN-01-0541	plotIDATBN-01-0544
##	-2.800e+00	1.373e+00
##	plotIDATBN-01-0545	plotIDATBN-01-0546
##	1.018e+00	4.830e-01
##	plotIDATBN-01-0547	plotIDATBN-01-0548
##	-1.879e+00	-1.879e+00
##	plotIDATBN-01-0549	plotIDATBN-01-0550
##	2.336e-01	-1.892e-01
##	plotIDATBN-01-0551	plotIDATBN-01-0555
##	5.358e-01	-1.047e-02
##	plotIDATBN-01-0557	plotIDATBN-01-0558
##	-9.737e-02	7.771e-01
##	plotIDATBN-01-0559	plotIDATBN-01-0561
##	2.712e-01	1.060e-01
##	plotIDATBP-01-0001	plotIDATBP-01-0004
##	3.374e+00	-7.343e-02
##	plotIDATBP-01-0005	plotIDATBP-01-0006
##	-6.257e-01	4.578e+00
##	plotIDATBP-01-0007	plotIDATBP-01-0008
##	8.743e-01	5.887e-01
##	plotIDATBP-01-0010	plotIDATBP-01-0011
##	1.785e+00	3.175e-01
##	plotIDATBP-01-0012	plotIDATBP-01-0013
##	3.874e-01	-1.622e+00
##	plotIDATBP-01-0015	plotIDATBP-01-0017
##	-1.512e-01	3.341e-01
##	plotIDATBP-01-0018	plotIDDELL-02-0042
##	-6.562e-01	1.395e-02
##	plotIDDELL-02-0043	plotIDDELL-02-0045
##	-2.067e-01	-6.087e-01
##	plotIDDELL-02-0052	plotIDDELL-02-0054
##	3.324e-01	-1.173e+00
##	plotIDDELL-02-0055	plotIDDELL-02-0057
##	-3.683e-02	-5.025e-01

##	plotIDDELL-02-0100	plotIDDELL-02-0101
##	7.157e-01	-8.051e-01
##	plotIDDELL-02-0105	plotIDDELL-02-0106
##	-1.061e+00	-6.134e-01
##	plotIDDELL-02-0108	plotIDDELL-02-0109
##	-1.039e+00	-2.945e-01
##	plotIDDELL-02-0110	plotIDDELL-02-0114
##	-1.180e+00	1.282e-01
##	plotIDDELL-02-0115	plotIDDELL-02-0116
##	1.299e-01	1.284e-01
##	plotIDDELL-02-0127	plotIDDELL-02-0129
##	2.252e-01	-1.307e-01
##	plotIDDELL-02-0133	plotIDDELL-02-0142
##	-4.402e-01	9.703e-01
##	plotIDDELL-03-0002	plotIDDELL-03-0003
##	-1.704e+00	-9.819e-01
##	plotIDDELL-03-0006	plotIDDELL-03-0007
##	-1.526e+00	2.919e-01
##	plotIDDELL-03-0008	plotIDDELL-03-0010
##	-1.649e-01	1.188e-01
##	plotIDDELL-03-0021	plotIDDELL-03-0025
##	-1.474e+00	7.098e-01
##	plotIDDELL-03-0028	plotIDDELL-03-0029
##	-2.374e-01	8.429e-01
##	plotIDDELL-03-0114	plotIDDLAP-01-0011
##	3.061e-01	-1.416e-03
##	plotIDDLAP-01-0012	plotIDDLAP-01-0013
##	-3.683e-01	-1.961e-01
##	plotIDDLAP-01-0014	plotIDDLAP-01-0015
##	-5.296e-02	-4.189e-01
##	plotIDDSLM-01-0002	plotIDDSLM-01-0003
##	-2.428e-01	4.802e-01
##	plotIDDSLM-01-0004	plotIDDSLM-01-0005
##	6.205e-01	-7.379e-03
##	plotIDDSLM-01-0006	plotIDDSLM-01-0007
##	8.361e-01	6.593e-01
##	plotIDDSLM-01-0008	plotIDDSLM-01-0009
##	2.554e-01	-8.160e-01
##	plotIDDSLM-01-0010	plotIDDSLM-01-0011
##	5.887e-01	5.887e-01
##	plotIDDSLM-01-0012	plotIDDSLM-01-0013
##	7.193e-01	3.361e-01
##	plotIDDSLM-01-0024	plotIDDSLM-01-0025
##	3.361e-01	-3.160e-01
##	plotIDDSLM-01-0027	plotIDDSLM-01-0028
##	9.220e-01	-3.449e-01
##	plotIDDSLM-01-0029	plotIDDSLM-01-0037
##	1.255e+00	2.117e-01
##	plotIDDSLM-01-0080	plotIDDSLM-01-0081
##	3.260e-01	2.554e-01
##	plotIDDSLM-01-0082	plotIDDSLM-01-0083
##	-3.160e-01	3.668e-01
##	plotIDDSLM-01-0084	plotIDDSLM-01-0085
##	1.509e-01	-2.807e-01

##	plotIDDSLM-01-0086	plotIDDSLM-01-0087
##	5.861e-01	-1.324e-01
##	plotIDDSLM-01-0088	plotIDDSLM-01-0089
##	1.176e-01	5.262e-02
##	plotIDDSLM-01-0090	plotIDDSLM-01-0115
##	6.999e-01	2.205e-01
##	plotIDDSLM-01-0134	plotIDDSLM-01-0135
##	5.861e-01	1.326e+00
##	plotIDDSLM-01-0136	plotIDDSLM-01-0137
##	1.374e-01	8.606e-02
##	plotIDDSLM-01-0138	plotIDDSLM-01-0139
##	5.887e-01	3.260e-01
##	plotIDDSLM-01-0140	plotIDDSLM-01-0143
##	6.999e-01	-7.796e-02
##	plotIDDSLM-01-0185	plotIDDSLM-01-0253
##	-6.601e-02	9.220e-01
##	plotIDDSLM-01-0302	plotIDDSLM-01-0303
##	8.606e-02	-5.660e-01
##	plotIDDSLM-01-0304	plotIDDSLM-01-0305
##	4.205e-01	5.887e-01
##	plotIDDSLM-01-0306	plotIDDSLM-01-0307
##	-7.785e-01	3.856e-01
##	plotIDDSLM-01-0308	plotIDDSLM-01-0309
##	5.262e-02	9.220e-01
##	plotIDDSLM-01-0310	plotIDDSLM-01-0311
##	4.205e-01	5.262e-02
##	plotIDDSLM-01-0313	plotIDDSLM-01-0314
##	5.861e-01	1.089e-01
##	plotIDDSLM-01-0320	plotIDDSLM-01-0321
##	9.051e-01	1.840e-01
##	plotIDDSLM-01-0322	plotIDDSLM-01-0323
##	-1.795e-01	8.226e-01
##	plotIDDSLM-01-0324	plotIDDSLM-01-0325
##	9.220e-01	-3.160e-01
##	plotIDDSLM-01-0326	plotIDDSLM-01-0328
##	-1.639e-01	-2.807e-01
##	plotIDDSLM-01-0329	plotIDDSLM-01-0330
##	-1.903e-01	-4.139e-01
##	plotIDDSLM-01-0340	plotIDDSLM-01-0341
##	6.176e-01	3.676e-01
##	plotIDDSLM-01-0342	plotIDDSLM-01-0343
##	5.726e-01	3.361e-01
##	plotIDDSLM-01-0345	plotIDDSLM-01-0346
##	5.861e-01	2.554e-01
##	plotIDDSLM-01-0347	plotIDFRID-01-0001
##	2.554e-01	-3.688e-02
##	plotIDFRID-01-0002	plotIDFRID-01-0003
##	-5.302e-01	1.255e+00
##	plotIDFRID-01-0004	plotIDFRID-01-0005
##	3.647e-01	2.898e-01
##	plotIDFRID-01-0006	plotIDFRID-01-0007
##	-9.357e-01	-4.476e-01
##	plotIDFRID-01-0008	plotIDFRID-01-0009
##	-2.871e-01	2.487e-01

##	plotIDFRID-01-0010	plotIDFRID-01-0011
##	3.420e-01	1.578e+00
##	plotIDFRID-01-0013	plotIDFRID-01-0015
##	1.514e-01	5.110e-01
##	plotIDFRID-02-0014	plotIDFRID-08-0012
##	8.476e-01	3.713e-01
##	plotIDFRID-0T-0001	plotIDFRID-0T-0002
##	1.298e+00	4.361e-01
##	plotIDFRID-0T-0003	plotIDFRID-0T-0004
##	8.812e-01	3.861e+00
##	plotIDFRID-0T-0005	plotIDFRID-0T-0006
##	7.566e-01	2.522e+00
##	plotIDFRID-0T-0007	plotIDFRID-0T-0008
##	9.548e-01	1.917e+00
##	plotIDFRID-0T-0009	plotIDFRID-0T-0010
##	1.062e+00	1.354e+00
##	plotIDFRID-0T-0011	plotIDFRID-0T-0012
##	1.111e+00	3.922e+00
##	plotIDFRID-0T-0013	plotIDFRID-0T-0014
##	3.589e+00	2.589e+00
##	plotIDFRID-0T-0015	plotIDFRID-0T-0016
##	2.922e+00	3.589e+00
##	plotIDFRID-0T-0017	plotIDFRID-0T-0018
##	3.922e+00	3.147e+00
##	plotIDFRID-0T-0019	plotIDFRID-0T-0020
##	2.073e+00	1.091e+00
##	plotIDFRID-0T-0021	plotIDFRID-0T-0022
##	5.936e-01	1.304e+00
##	plotIDFRID-0T-0023	plotIDFRID-0T-0024
##	1.017e+00	9.214e-01
##	plotIDFRID-0T-0025	plotIDFRID-0T-0026
##	6.885e-01	2.707e+00
##	plotIDFRID-0T-0027	plotIDFRID-0T-0028
##	8.801e-01	1.082e+00
##	plotIDFRID-0T-0029	plotIDFRID-0T-0030
##	1.443e+00	7.282e-01
##	plotIDFRID-0T-0031	plotIDFRID-0T-0032
##	-4.907e-01	1.681e+00
##	plotIDFRID-0T-0033	plotIDFRID-0T-0034
##	1.588e+00	1.265e+00
##	plotIDFRID-0T-0035	plotIDFRID-0T-0036
##	1.532e+00	1.937e+00
##	plotIDFRID-0T-0037	plotIDFRID-0T-0038
##	4.472e-01	1.742e+00
##	plotIDFRID-0T-0039	plotIDMILL-01-0024
##	3.943e-01	7.669e-01
##	plotIDMILL-03-0020	plotIDMILL-04-0005
##	8.636e-01	2.493e+00
##	plotIDMILL-07-0024	plotIDMILL-07-0052
##	1.587e+00	6.626e-01
##	plotIDMILL-10-0019	plotIDMILL-11-0017
##	7.172e-01	3.797e-01
##	plotIDMILL-12-0007	plotIDMILL-17-0010
##	2.418e-01	2.788e-02

##	plotIDMILL-17-0012	plotIDMILL-17-0015
##	4.915e-01	1.549e+00
##	plotIDMILL-17-0039	plotIDMILL-18-0021
##	1.462e+00	8.660e-02
##	plotIDMILL-20-0010	plotIDMILL-20-0044
##	3.797e-02	4.605e-01
##	plotIDMILL-20-0067	plotIDMILL-24-0016
##	-1.243e-01	9.110e-01
##	plotIDMILL-24-0059	plotIDMILL-25-0044
##	-3.440e-01	9.910e-01
##	plotIDMILL-27-0033	plotIDMILL-27-0041
##	2.954e-01	1.297e+00
##	plotIDMILL-27-0061	plotIDMILL-27-0065
##	1.032e+00	9.791e-02
##	plotIDMILL-27-0110	plotIDMILL-27-0202
##	6.382e-01	1.171e+00
##	plotIDPITT-01-0001	plotIDPITT-01-0002
##	1.540e-01	4.472e-01
##	plotIDPITT-01-0003	plotIDPITT-01-0005
##	-3.460e-01	3.253e-01
##	plotIDPITT-01-0006	plotIDPITT-01-0007
##	1.366e-01	-6.468e-01
##	plotIDPITT-01-0008	plotIDPITT-01-0009
##	-1.024e+00	8.790e-01
##	plotIDPITT-01-0010	plotIDPITT-01-0011
##	-4.951e-01	-8.164e-01
##	plotIDPITT-01-0012	plotIDPITT-01-0014
##	-7.373e-01	4.946e-01
##	plotIDPITT-01-0015	plotIDPITT-01-0016
##	-4.332e-01	-3.275e-01
##	plotIDPITT-01-0017	plotIDPITT-01-0018
##	-7.672e-01	-1.954e-01
##	plotIDPITT-01-0019	plotIDPITT-01-0020
##	-4.362e-01	-3.907e-01
##	plotIDPITT-01-0021	plotIDPITT-01-0022
##	7.673e-01	1.155e+00
##	plotIDPITT-01-0023	plotIDPITT-01-0024
##	3.153e-01	-2.333e-01
##	plotIDPITT-01-0025	plotIDPITT-01-0026
##	-5.694e-01	1.181e+00
##	plotIDPITT-01-0027	plotIDPITT-01-0028
##	3.463e-01	-8.310e-02
##	plotIDPITT-01-0029	plotIDPITT-01-0030
##	-3.915e-01	-1.996e-01
##	plotIDPITT-01-0031	plotIDPITT-01-0032
##	8.055e-01	-5.618e-01
##	plotIDPITT-01-0033	plotIDPITT-01-0034
##	-1.727e-01	1.615e+00
##	plotIDPITT-01-0035	plotIDPITT-01-0036
##	1.167e+00	-5.977e-01
##	plotIDPITT-01-0037	plotIDPITT-01-0038
##	3.220e-01	-6.458e-01
##	plotIDPITT-01-0039	plotIDPITT-01-0040
##	7.300e-01	-2.945e-01

##	plotIDPITT-01-0041	plotIDPITT-01-0042
##	3.462e-01	2.801e-01
##	plotIDPITT-01-0043	plotIDPITT-01-0044
##	-2.401e-01	1.559e+00
##	plotIDPITT-01-0045	plotIDUFRL-01-0001
##	4.805e-01	-7.713e-02
##	plotIDUFRL-01-0002	plotIDUFRL-01-0003
##	5.470e-01	-5.805e-02
##	plotIDUFRL-01-0004	plotIDUFRL-01-0005
##	2.932e-01	9.254e-01
##	plotIDUFRL-01-0006	plotIDUFRL-01-0007
##	3.300e-01	4.630e-01
##	plotIDUFRL-01-0008	plotIDUFRL-01-0009
##	5.000e-01	-2.446e-01
##	plotIDUFRL-01-0010	plotIDUFRL-01-0011
##	-1.055e+00	1.305e+00
##	plotIDUFRL-01-0012	plotIDUFRL-01-0013
##	7.399e-01	-6.075e-01
##	plotIDUFRL-01-0014	plotIDUFRL-01-0015
##	4.318e-01	-4.184e-01
##	plotIDUFRL-01-0016	plotIDUFRL-01-0017
##	-1.932e-01	3.269e-02
##	plotIDUFRL-01-0018	plotIDUFRL-01-0019
##	-4.318e-01	-7.579e-01
##	plotIDUFRL-01-0020	plotIDUFRL-01-0021
##	1.223e+00	-4.115e-01
##	plotIDUFRL-01-0022	plotIDUFRL-01-0023
##	8.272e-01	-9.290e-02
##	plotIDUFRL-01-0024	plotIDUFRL-01-0025
##	-6.793e-01	5.073e-01
##	plotIDUFRL-01-0026	plotIDUFRL-01-0027
##	-1.760e-01	-5.089e-01
##	plotIDUFRL-01-0028	plotIDUFRL-01-0029
##	-2.295e-01	3.188e-01
##	plotIDUFRL-01-0030	plotIDUFRL-01-0031
##	6.565e-01	2.999e-01
##	plotIDUFRL-01-0032	plotIDUFRL-01-0033
##	-1.354e+00	-2.598e-01
##	plotIDUFRL-01-0034	plotIDUFRL-01-0035
##	8.933e-01	4.659e-01
##	plotIDUFRL-01-0036	plotIDUFRL-01-0037
##	-2.128e-01	-1.066e+00
##	plotIDUFRL-01-0038	plotIDUFRL-01-0039
##	-1.386e+00	-1.294e+00
##	plotIDUFRL-01-0040	plotIDUFRL-01-0041
##	-3.978e-01	8.572e-02
##	plotIDUFRL-01-0042	plotIDUFRL-01-0043
##	-7.214e-01	-7.710e-01
##	plotIDUFRL-01-0044	plotIDUFRL-01-0045
##	-2.521e-01	4.217e-02
##	plotIDUFRL-01-0046	plotIDUFRL-01-0047
##	1.536e-01	-2.675e-01
##	plotIDUFRL-01-0048	plotIDUFRL-01-0049
##	-4.714e-01	9.488e-01

##	plotIDUFRL-01-0050	plotIDUFRL-01-0051
##	9.451e-02	1.174e+00
##	plotIDUFRL-01-0052	plotIDUFRL-01-0053
##	6.130e-01	7.496e-01
##	plotIDUFRL-01-0054	plotIDUFRL-01-0055
##	1.066e-01	8.722e-01
##	plotIDUFRL-01-0056	plotIDUFRL-01-0057
##	-3.345e-01	3.581e-01
##	plotIDUFRL-01-0058	plotIDUFRL-01-0059
##	2.191e-01	3.028e-01
##	plotIDUFRL-01-0060	plotIDUFRL-01-0061
##	6.852e-01	2.671e-01
##	plotIDUFRL-01-0062	plotIDUFRL-01-0063
##	6.063e-01	1.277e+00
##	plotIDUFRL-01-0064	plotIDUFRL-01-0065
##	8.757e-01	3.334e-01
##	plotIDUFRL-01-0066	plotIDUFRL-01-0067
##	1.721e+00	4.806e-01
##	plotIDUFRL-01-0068	plotIDUFRL-01-0069
##	-4.921e-01	2.982e-01
##	plotIDUFRL-01-0070	plotIDUFRL-01-0071
##	-6.131e-01	6.369e-01
##	plotIDUFRL-01-0072	plotIDUFRL-01-0073
##	3.586e-01	3.615e-01
##	plotIDUFRL-01-0074	plotIDUFRL-01-0075
##	-2.670e-01	-3.061e-01
##	plotIDUFRL-01-0076	plotIDUFRL-01-0077
##	6.431e-01	8.577e-01
##	plotIDUFRL-01-0078	plotIDUFRL-01-0079
##	-1.796e-01	-1.093e-01
##	plotIDUFRL-01-0080	plotIDUFRL-01-0081
##	3.634e-01	7.253e-02
##	plotIDUFRL-01-0082	plotIDUFRL-01-0083
##	9.555e-02	8.020e-01
##	plotIDUFRL-01-0084	plotIDUFRL-01-0085
##	1.021e-01	1.029e+00
##	plotIDUFRL-01-0086	plotIDUFRL-01-0087
##	8.523e-01	-2.322e-01
##	plotIDUFRL-01-0088	plotIDUFRL-01-0089
##	-3.475e-01	3.539e-02
##	plotIDUFRL-01-0090	plotIDUFRL-01-0091
##	1.561e-01	7.027e-02
##	plotIDUFRL-01-0092	plotIDUFRL-01-0093
##	-3.196e-02	-5.199e-02
##	plotIDUFRL-01-0094	plotIDUFRL-01-0101
##	-8.335e-01	-1.007e+00
##	plotIDUFRL-01-0102	plotIDUFRL-01-0103
##	-1.979e-01	-8.903e-01
##	plotIDUFRL-01-0104	plotIDUFRL-01-0105
##	-1.102e+00	1.551e+00
##	plotIDUFRL-01-0106	plotIDUFRL-01-0154
##	5.473e-01	8.548e-02
##	plotIDUFRL-01-0155	plotIDUFRL-01-0156
##	3.392e-01	2.744e-01

##	plotIDUFRL-01-0160	plotIDUFRL-01-0161
##	1.021e+00	9.961e-01
##	plotIDUFRL-01-0162	plotIDUFRL-01-0163
##	8.005e-01	-5.591e-01
##	plotIDUFRL-01-0164	plotIDUFRL-01-0165
##	3.169e-01	2.160e+00
##	plotIDUFRL-01-0166	plotIDUFRL-01-0167
##	1.047e+00	3.532e+00
##	plotIDUFRL-01-0168	plotIDUFRL-01-0169
##	2.919e+00	1.178e+00
##	plotIDUFRL-02-0001	plotIDUFRL-02-0002
##	-2.669e-01	5.479e-02
##	plotIDUFRL-02-0003	plotIDUFRL-02-0004
##	-2.788e-01	-6.908e-01
##	plotIDUFRL-02-0005	plotIDUFRL-02-0007
##	-1.399e+00	-1.792e+00
##	plotIDUFRL-02-0008	plotIDUFRL-02-0009
##	-9.774e-01	-3.735e-01
##	plotIDUFRL-02-0011	plotIDUFRL-02-0014
##	-8.144e-01	-1.655e+00
##	plotIDUFRL-02-0015	plotIDUFRL-02-0016
##	-1.330e+00	-8.800e-01
##	plotIDUFRL-02-0017	plotIDUFRL-02-0018
##	-7.441e-01	-1.620e-01
##	plotIDUFRL-02-0019	plotIDUFRL-02-0030
##	-1.290e-01	-4.211e-01
##	plotIDUFRL-02-0031	plotIDUFRL-02-0032
##	-4.164e-01	-4.781e-01
##	plotIDUFRL-02-0033	plotIDUFRL-02-0034
##	-5.481e-01	-4.226e-01
##	plotIDUFRL-02-0035	plotIDUFRL-02-0036
##	-5.579e-01	5.277e-01
##	plotIDUFRL-02-0037	plotIDUFRL-02-0038
##	-1.658e-01	1.012e-01
##	plotIDUFRL-02-0039	plotIDUFRL-02-0040
##	-5.880e-01	1.062e+00
##	plotIDUFRL-02-0041	plotIDUFRL-02-0042
##	1.761e+00	4.773e+00
##	plotIDUFRL-02-0043	plotIDUFRL-02-0044
##	5.241e+00	2.898e+00
##	plotIDUFRL-02-0045	plotIDUFRL-02-0046
##	1.047e+00	1.570e+00
##	plotIDUFRL-02-0047	plotIDUFRL-02-0048
##	1.475e+00	7.220e-01
##	plotIDUFRL-02-0049	plotIDUFRL-02-0050
##	2.658e+00	4.025e-01
##	plotIDUFRL-02-0051	plotIDUFRL-02-0052
##	-2.716e-01	2.311e+00
##	plotIDUFRL-02-0053	plotIDUFRL-02-0054
##	1.116e-02	1.158e+00
##	plotIDUFRL-02-0055	plotIDUFRL-02-0056
##	2.286e+00	4.640e-01
##	plotIDUFRL-02-0057	plotIDUFRL-02-0058
##	1.797e+00	4.310e-01

##	plotIDUFRL-02-0059	plotIDUFRL-02-0060
##	5.019e-01	-1.124e+00
##	plotIDUFRL-02-0061	plotIDUFRL-02-0063
##	-5.074e-01	-8.733e-01
##	plotIDUFRL-02-0064	plotIDUFRL-02-0100
##	1.133e-02	3.533e+00
##	plotIDUFRL-02-0101	plotIDUFRL-02-0102
##	1.261e+00	2.639e-01
##	plotIDUFRL-02-0103	plotIDUFRL-02-0104
##	6.335e-01	-5.250e-01
##	plotIDUFRL-02-0105	plotIDUFRL-02-0106
##	6.761e-01	2.897e+00
##	plotIDUFRL-02-0107	plotIDUFRL-02-0108
##	-2.049e-01	1.442e+00
##	plotIDUFRL-02-0109	plotIDUFRL-02-0110
##	5.453e-01	1.495e-01
##	plotIDUFRL-02-0111	plotIDUFRL-02-0112
##	5.515e-01	2.251e-01
##	plotIDUFRL-02-0113	plotIDUFRL-02-0114
##	1.900e-01	6.390e-01
##	plotIDUFRL-02-0115	plotIDUFRL-02-0116
##	1.248e+00	2.753e-01
##	plotIDUFRL-02-0117	plotIDUFRL-02-0118
##	-1.012e+00	-1.716e-01
##	plotIDUFRL-02-0119	plotIDUFRL-02-0120
##	1.697e-01	2.320e-01
##	plotIDUFRL-02-0121	plotIDUFRL-02-0122
##	8.067e-01	-3.407e-01
##	plotIDUFRL-02-0123	plotIDUFRL-02-0124
##	1.342e+00	9.344e-01
##	plotIDUFRL-02-0125	plotIDUFRL-02-0126
##	4.970e-01	-2.077e-01
##	plotIDUFRL-02-0127	plotIDUFRL-02-0128
##	8.980e-01	1.021e+00
##	plotIDUFRL-02-0129	plotIDUFRL-02-0130
##	4.000e-01	9.610e-01
##	plotIDUFRL-02-0131	plotIDUFRL-02-0132
##	1.306e+00	2.495e+00
##	plotIDUFRL-02-0133	plotIDUFRL-02-0134
##	-8.234e-02	2.495e+00
##	plotIDUFRL-02-0135	plotIDUFRL-02-0136
##	2.257e+00	4.447e-01
##	plotIDUFRL-02-0137	plotIDUFRL-02-0138
##	6.277e-01	1.863e+00
##	plotIDUFRL-02-0139	plotIDUFRL-02-0140
##	1.006e+00	2.961e+00
##	plotIDUFRL-02-0141	plotIDUFRL-02-0142
##	2.757e+00	-9.691e-03
##	plotIDUFRL-02-0143	plotIDUFRL-02-0144
##	7.904e-01	6.509e-01
##	plotIDUFRL-02-0145	plotIDUFRL-02-0146
##	8.916e-01	6.698e-01
##	plotIDUFRL-02-0147	plotIDUFRL-02-0148
##	1.961e+00	3.604e-01

##	plotIDUFRL-02-0149	plotIDUFRL-02-0150
##	9.860e-02	6.654e-01
##	plotIDUFRL-02-0151	plotIDUFRL-02-0152
##	1.611e+00	7.915e-02
##	plotIDUFRL-02-0153	plotIDUFRL-02-0154
##	-4.777e-01	9.648e-02
##	plotIDUFRL-02-0155	plotIDUFRL-02-0156
##	7.116e-01	1.325e-01
##	plotIDUFRL-02-0157	plotIDUFRL-02-0158
##	1.281e-01	1.362e-01
##	plotIDUFRL-02-0159	plotIDUFRL-02-0160
##	3.571e-02	8.884e-02
##	plotIDUFRL-02-0161	plotIDUFRL-02-0162
##	-1.968e-01	6.849e-01
##	plotIDUFRL-02-0163	plotIDUFRL-02-0164
##	7.434e-01	1.792e-01
##	plotIDUFRL-02-0165	plotIDUFRL-02-0166
##	2.107e-01	8.930e-02
##	plotIDUFRL-02-0167	plotIDUFRL-02-0176
##	-3.356e-01	-1.289e+00
##	plotIDUFRL-02-0177	plotIDUFRL-02-0178
##	-5.391e-01	-1.045e+00
##	plotIDUFRL-02-0999	plotIDUFRL-03-0001
##	-1.454e+00	3.179e-01
##	plotIDUFRL-03-0002	plotIDUFRL-03-0003
##	1.991e+00	2.813e+00
##	plotIDUFRL-03-0004	plotIDUFRL-03-0005
##	1.013e+00	1.020e+00
##	plotIDUFRL-03-0006	plotIDUFRL-03-0007
##	3.717e+00	4.491e+00
##	plotIDUFRL-03-0008	plotIDUFRL-03-0009
##	2.317e+00	1.510e+00
##	plotIDUFRL-03-0010	plotIDUFRL-03-0011
##	2.194e+00	3.257e+00
##	plotIDUFRL-03-0012	plotIDUFRL-03-0013
##	3.257e+00	1.306e+00
##	plotIDUFRL-03-0014	plotIDUFRL-03-0015
##	1.228e+00	1.284e+00
##	plotIDUFRL-03-0016	plotIDUFRL-03-0017
##	5.895e-01	1.085e+00
##	plotIDUFRL-03-0018	plotIDUFRL-03-0019
##	4.985e-01	1.370e-01
##	plotIDUFRL-03-0020	plotIDUFRL-03-0021
##	-1.986e-01	-2.585e-01
##	plotIDUFRL-03-0022	plotIDUFRL-03-0023
##	1.339e+00	7.876e-01
##	plotIDUFRL-03-0024	plotIDUFRL-03-0025
##	1.540e+00	2.669e+00
##	plotIDUFRL-03-0026	plotIDUFRL-03-0027
##	1.575e+00	1.463e+00
##	plotIDUFRL-03-0028	plotIDUFRL-03-0029
##	2.444e+00	2.479e+00
##	plotIDUFRL-04-00A1	plotIDUFRL-05-0001
##	1.966e-02	-1.641e+00

##	plotIDUFRL-05-0002	plotIDUFRL-05-0003
##	-1.140e+00	-4.524e-01
##	plotIDUFRL-05-0131	plotIDUFRL-05-0132
##	2.213e-01	1.577e-02
##	plotIDUFRL-05-0144	plotIDUFRL-05-0145
##	5.826e-01	1.396e-01
##	plotIDUFRL-05-0146	plotIDUFRL-05-0147
##	8.150e-02	7.243e-02
##	plotIDUFRL-05-0148	plotIDUFRL-05-0149
##	3.601e-01	3.042e-01
##	plotIDUFRL-05-0150	plotIDUFRL-05-0151
##	4.440e-01	5.957e-01
##	plotIDUFRL-05-0152	plotIDUFRL-05-0153
##	5.829e-01	5.170e-01
##	plotIDUFRL-05-0157	plotIDUFRL-05-0158
##	1.163e-01	4.963e-01
##	plotIDUFRL-05-0159	plotIDUFRL-06-0133
##	2.747e-01	3.648e+00
##	plotIDUFRL-06-0134	plotIDUFRL-06-0135
##	3.091e+00	2.557e+00
##	plotIDUFRL-06-0136	plotIDUFRL-06-0137
##	3.528e+00	3.028e+00
##	plotIDUFRL-06-0138	plotIDUFRL-06-0139
##	1.210e+00	3.779e+00
##	plotIDUFRL-2A-0142	plotIDUFRL-2A-0143
##	2.287e-01	3.630e-03
##	plotIDULRY-04-0001	plotIDULRY-04-0002
##	-5.583e-01	-7.195e-01
##	plotIDULRY-04-0003	plotIDULRY-04-0004
##	7.318e-01	6.510e-01
##	plotIDULRY-04-0005	plotIDULRY-04-0006
##	1.303e-01	-6.847e-01
##	plotIDULRY-04-0007	plotIDULRY-04-0008
##	-2.325e-01	3.388e+00
##	plotIDULRY-04-0009	plotIDULRY-04-0010
##	9.213e-01	1.349e+00
##	plotIDULRY-04-0011	plotIDULRY-04-0012
##	5.471e-01	2.239e+00
##	plotIDULRY-04-0013	plotIDULRY-04-0014
##	2.731e+00	9.664e-01
##	plotIDULRY-04-0015	plotIDULRY-04-0016
##	-5.234e-01	9.869e-01
##	plotIDULRY-04-0017	plotIDULRY-04-0018
##	3.298e+00	1.133e+00
##	plotIDULRY-04-0019	plotIDULRY-04-0020
##	1.842e+00	4.541e-01
##	plotIDULRY-04-0021	plotIDULRY-04-0022
##	3.525e-01	5.634e-02
##	plotIDULRY-04-0023	plotIDULRY-04-0024
##	2.042e+00	2.589e+00
##	plotIDULRY-04-0025	plotIDULRY-04-0026
##	2.589e+00	2.589e+00
##	plotIDULRY-04-0027	plotIDULRY-04-0028
##	6.515e-01	4.018e+00

##	plotIDULRY-04-0029	plotIDULRY-04-0030
##	4.863e-01	2.679e+00
##	plotIDULRY-04-0031	plotIDULRY-04-0032
##	9.091e-01	9.405e-01
##	plotIDULRY-04-0033	plotIDULRY-04-0034
##	2.506e+00	1.144e+00
##	plotIDULRY-04-0035	plotIDULRY-04-0036
##	8.082e-01	1.272e+00
##	plotIDULRY-04-0037	plotIDULRY-04-0038
##	1.026e+00	1.264e+00
##	plotIDULRY-04-0039	plotIDULRY-04-0040
##	1.090e+00	9.045e-01
##	plotIDULRY-04-0041	plotIDULRY-04-0042
##	8.093e-01	4.159e-01
##	plotIDULRY-04-0043	plotIDULRY-04-0044
##	1.517e+00	2.043e+00
##	plotIDULRY-04-0045	plotIDULRY-04-0046
##	1.478e+00	7.773e-01
##	plotIDULRY-04-0047	plotIDULRY-04-0048
##	8.908e-01	1.205e+00
##	plotIDULRY-04-0049	plotIDULRY-04-0050
##	3.669e+00	1.052e+00
##	plotIDULRY-04-0051	plotIDULRY-04-0052
##	1.584e+00	5.562e-01
##	plotIDULRY-04-0053	plotIDULRY-04-0054
##	7.390e-01	3.012e-01
##	plotIDULRY-04-0055	plotIDULRY-04-0056
##	3.598e-01	2.298e+00
##	plotIDULRY-04-0057	plotIDULRY-04-0058
##	1.870e+00	2.342e+00
##	plotIDULRY-04-0059	plotIDULRY-04-0060
##	1.782e+00	9.028e-01
##	plotIDULRY-04-0061	plotIDULRY-04-0063
##	5.121e+00	1.062e+00
##	plotIDULRY-04-0064	plotIDULRY-04-0065
##	8.523e-01	9.843e-01
##	plotIDULRY-04-0066	plotIDULRY-04-0067
##	1.613e+00	5.014e+00
##	plotIDULRY-04-0068	plotIDULRY-04-0069
##	-2.782e+00	7.020e-01
##	plotIDULRY-04-0070	plotIDULRY-04-0071
##	3.700e+00	-1.627e+00
##	plotIDULRY-04-0072	plotIDULRY-04-0073
##	3.053e+00	-8.324e-01
##	plotIDULRY-04-0075	plotIDULRY-04-0076
##	3.860e-01	-1.471e-01
##	plotIDULRY-04-0077	plotIDULRY-04-0078
##	3.233e+00	1.625e+00
##	plotIDULRY-04-0079	plotIDULRY-04-0080
##	5.318e-01	5.370e-01
##	plotIDULRY-04-0082	plotIDULRY-04-0083
##	4.636e-01	-8.471e-01
##	plotIDULRY-04-0084	plotIDULRY-04-0085
##	4.875e-01	1.427e-01

##	plotIDULRY-04-0086	plotIDULRY-04-0087
##	2.531e-01	9.430e-01
##	plotIDULRY-04-0088	plotIDULRY-04-0089
##	-4.083e-01	1.355e+00
##	plotIDULRY-04-0090	plotIDULRY-04-0091
##	-6.257e-01	-1.626e+00
##	plotIDULRY-04-0092	plotIDULRY-04-0095
##	2.374e+00	2.366e+00
##	plotIDULRY-04-0096	plotIDULRY-04-0097
##	-1.634e+00	-2.225e+00
##	plotIDULRY-04-0098	plotIDULRY-04-0099
##	9.220e-01	2.225e-01
##	plotIDULRY-04-0100	plotIDULRY-04-0101
##	1.239e+00	2.375e+00
##	plotIDULRY-04-0102	plotIDULRY-04-0103
##	-4.836e-01	6.355e-01
##	plotIDULRY-04-0104	plotIDULRY-04-0106
##	-1.799e-01	8.149e-01
##	plotIDULRY-04-0107	plotIDULRY-04-0108
##	3.388e+00	1.675e-01
##	plotIDULRY-04-0109	plotIDULRY-04-0110
##	7.973e-01	2.168e+00
##	plotIDULRY-04-0111	plotIDULRY-04-0112
##	8.637e-01	6.881e-01
##	plotIDULRY-04-0113	plotIDULRY-04-0114
##	-3.139e+00	1.654e+00
##	plotIDULRY-04-0116	plotIDULRY-04-0117
##	2.244e+00	2.719e+00
##	plotIDULRY-04-0118	plotIDULRY-04-0119
##	7.091e-01	6.643e-01
##	plotIDULRY-04-0120	plotIDULRY-04-0121
##	1.038e+00	6.071e-01
##	plotIDULRY-04-0122	plotIDULRY-04-0123
##	-7.497e-01	2.052e+00
##	plotIDULRY-04-0124	plotIDULRY-04-0125
##	3.385e-01	1.410e+00
##	plotIDULRY-04-0126	plotIDULRY-04-0127
##	-3.135e-01	8.281e-01
##	plotIDULRY-04-0128	plotIDULRY-04-0129
##	1.987e+00	3.210e-01
##	plotIDULRY-04-0130	plotIDULRY-04-0131
##	-1.503e-01	-1.117e+00
##	plotIDULRY-04-0132	plotIDULRY-04-0133
##	-5.752e-01	3.242e+00
##	plotIDULRY-04-0134	plotIDULRY-04-0135
##	1.122e+00	-7.522e-01
##	plotIDULRY-04-0136	plotIDULRY-04-0137
##	2.766e+00	1.399e+00
##	plotIDULRY-04-0138	plotIDULRY-04-0139
##	-1.424e-01	-1.451e+00
##	plotIDULRY-04-0140	plotIDULRY-04-0142
##	9.618e-01	2.255e+00
##	plotIDULRY-04-0143	plotIDULRY-04-0144
##	2.326e+00	1.589e+00

##	plotIDULRY-04-0145	plotIDULRY-04-0147
##	2.589e+00	1.874e+00
##	plotIDULRY-04-0148	plotIDULRY-04-0149
##	2.148e+00	3.149e-01
##	plotIDULRY-04-0151	plotIDULRY-04-0152
##	-9.825e-01	2.081e+00
##	plotIDULRY-04-0153	plotIDULRY-04-0154
##	-1.725e+00	5.382e+00
##	plotIDULRY-04-0155	plotIDULRY-04-0157
##	2.589e+00	1.381e+00
##	plotIDULRY-04-0158	plotIDULRY-04-0160
##	2.922e+00	-6.387e-01
##	plotIDULRY-05-0200	plotIDULRY-05-0201
##	7.120e-01	1.952e+00
##	plotIDULRY-05-0202	plotIDULRY-05-0204
##	2.162e-01	2.235e+00
##	plotIDULRY-05-0205	plotIDULRY-05-0206
##	8.383e-01	4.059e-01
##	plotIDULRY-05-0207	plotIDULRY-05-0208
##	3.242e+00	1.691e+00
##	plotIDULRY-05-0209	plotIDULRY-05-0210
##	1.984e+00	2.222e+00
##	plotIDULRY-05-0211	plotIDULRY-05-0212
##	9.611e-01	1.305e+00
##	plotIDULRY-05-0213	plotIDULRY-05-0214
##	5.359e-01	1.543e+00
##	plotIDULRY-05-0215	plotIDULRY-05-0216
##	5.332e-01	8.088e-01
##	plotIDULRY-05-0217	plotIDULRY-05-0218
##	1.474e+00	9.456e-01
##	plotIDULRY-05-0219	plotIDULRY-05-0220
##	1.203e+00	2.470e+00
##	plotIDULRY-05-0221	plotIDULRY-05-0222
##	1.927e+00	1.627e+00
##	plotIDULRY-05-0224	plotIDULRY-05-0225
##	4.424e-01	1.742e+00
##	plotIDULRY-05-0226	plotIDULRY-05-0227
##	5.196e-01	1.468e+00
##	plotIDULRY-05-0228	plotIDULRY-05-0231
##	2.001e+00	1.167e+00
##	plotIDULRY-05-0232	plotIDULRY-05-0234
##	2.570e+00	1.632e+00
##	plotIDULRY-05-0235	plotIDULRY-05-0236
##	1.033e+00	1.393e+00
##	plotIDULRY-05-0237	plotIDULRY-05-0238
##	1.889e+00	2.807e+00
##	plotIDULRY-05-0239	plotIDULRY-05-0240
##	2.816e+00	9.051e-01
##	plotIDULRY-05-0241	plotIDULRY-05-0242
##	-1.253e+00	2.123e+00
##	plotIDULRY-05-0244	plotIDULRY-05-0245
##	3.613e-01	1.233e+00
##	plotIDULRY-05-0246	plotIDULRY-05-0248
##	3.641e-01	-2.711e+00

##	plotIDULRY-05-0249	plotIDULRY-05-0250
##	2.412e+00	1.179e-01
##	plotIDULRY-05-0251	plotIDULRY-05-0252
##	5.018e+00	1.621e+00
##	plotIDULRY-05-0253	plotIDULRY-05-0254
##	1.371e+00	1.874e+00
##	plotIDULRY-05-0255	plotIDULRY-05-0256
##	1.098e+00	6.439e-01
##	plotIDULRY-05-0257	plotIDULRY-05-0258
##	2.434e+00	1.750e+00
##	plotIDULRY-05-0259	plotIDULRY-05-0260
##	1.463e+00	2.537e+00
##	plotIDULRY-05-0261	plotIDULRY-05-0262
##	1.778e+00	1.192e+00
##	plotIDULRY-05-0263	plotIDULRY-05-0264
##	1.300e+00	6.303e-01
##	plotIDULRY-05-0265	plotIDULRY-05-0266
##	1.219e+00	9.097e-01
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##	1.354e-01	1.215e+00
##	plotIDWHCA-01-0055	plotIDWHCA-01-0056
##	9.131e-01	-2.936e-01
##	plotIDWHCA-01-0057	plotIDWHCA-01-0058
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##	plotIDWHCA-01-0063	plotIDWHCA-01-0064
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##	plotIDWHCA-02-0044	plotIDWHCA-02-0045
##	-2.157e+00	-6.466e-01
##	plotIDWHCA-02-0046	plotIDWHCA-02-0047
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##	4.593e-01	6.407e-01
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##	plotIDWHCA-02-0100	plotIDWHCA-02-0101
##	1.408e+00	7.924e-02
##	plotIDWHCA-02-0102	plotIDWHCA-02-0103
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##	plotIDWHCA-02-0104	plotIDWHCA-02-0105
##	-4.842e-01	-1.719e-01
##	plotIDWHCA-02-0106	plotIDWHCA-02-0107
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##	plotIDWHCA-02-0116	plotIDWHCA-02-0120
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##	plotIDWHCA-02-0121	plotIDWHCA-02-0122
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##	plotIDWHCA-02-0124	plotIDWHCA-02-0125
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##	-1.668e-01	9.647e-01
##	plotIDWHCA-02-0128	plotIDWHCA-02-0129
##	1.062e+00	5.408e-01
##	plotIDWHCA-02-0130	plotIDWHCA-02-0131
##	1.002e+00	1.347e+00
##	plotIDWHCA-02-0132	plotIDWHCA-02-0133
##	2.798e+00	-3.748e-01
##	plotIDWHCA-02-0134	plotIDWHCA-02-0141
##	2.298e+00	2.798e+00
##	plotIDWHCA-02-0142	plotIDWHCA-02-0143
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##	9.964e-01	4.924e-01
##	plotIDWHCA-02-0146	plotIDWHCA-02-0147
##	4.157e-01	2.002e+00
##	plotIDWHCA-02-0148	plotIDWHCA-02-0149
##	4.013e-01	1.395e-01
##	plotIDWHCA-02-0150	plotIDWHCA-02-0151
##	7.063e-01	1.652e+00
##	plotIDWHCA-02-0161	plotIDWHCA-02-0162
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##	7.842e-01	2.201e-01
##	plotIDWHCA-03-0002	plotIDWHCA-03-0003
##	2.141e-01	5.203e-01
##	plotIDWHCA-03-0004	plotIDWHCA-03-0005
##	1.054e+00	1.061e+00
##	plotIDWHCA-03-0006	plotIDWHCA-03-0007
##	9.578e-01	1.532e+00
##	plotIDWHCA-03-0008	plotIDWHCA-03-0009
##	1.929e+00	1.551e+00

##	plotIDWHCA-03-0010	plotIDWHCA-03-0011
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##	plotIDWHCA-03-0012	plotIDWHCA-03-0013
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##	plotIDWHCA-03-0014	plotIDWHCA-03-0015
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##	6.303e-01	-1.577e-01
##	plotIDWHCA-03-0021	plotIDWHCA-03-0022
##	-5.033e-01	1.380e+00
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##	1.581e+00	1.265e+00
##	plotIDWHCA-03-0027	plotIDWHCA-03-0028
##	1.503e+00	1.514e-01
##	plotIDWHCA-03-0029	plotIDWISR-01-0077
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##	plotIDWISR-01-0079	plotIDWISR-01-0080
##	-6.336e-01	-6.336e-01
##	plotIDWISR-01-0081	plotIDWISR-01-0082
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##	plotIDWISR-01-0083	plotIDWISR-01-0084
##	-6.257e-01	-1.634e+00
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##	1.245e-01	NA
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##	NA	NA

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##	NA	NA
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##	speciesCarya alba	speciesCarya cordiformis
##	NA	NA
##	speciesCarya glabra	speciesCarya ovata
##	NA	NA
##	speciesCastanea dentata	speciesCatalpa speciosa
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##	speciesCladrastis kentukea	speciesDiospyros virginiana
##	NA	NA
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##	elev	tci
##	-1.301e-13	2.149e-13
##	streamdist	disturbLT-SEL
##	8.613e-14	1.890e-11

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##                disturbSETTLE                disturbVIRGIN
##                6.148e-12                1.114e-11
##                beers
##                5.321e-12
```

```
summary(expMod2)
```

```
##
## Call:
## lm(formula = cover ~ ., data = treedata)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -6.096 -1.197 -0.062  1.144  5.826
##
## Coefficients: (241 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    3.634e+00  3.717e+03  0.001 0.999220
## plotIDATBN-01-0303  1.214e+00  3.185e+00  0.381 0.703183
## plotIDATBN-01-0304  1.088e+00  3.329e+00  0.327 0.743793
## plotIDATBN-01-0305  8.150e-01  3.595e+00  0.227 0.820659
## plotIDATBN-01-0306  1.740e+00  8.422e+00  0.207 0.836363
## plotIDATBN-01-0307  3.103e-01  8.348e+00  0.037 0.970347
## plotIDATBN-01-0308  7.469e-01  8.394e+00  0.089 0.929096
## plotIDATBN-01-0309  2.478e+00  2.536e+00  0.977 0.328665
## plotIDATBN-01-0311  1.346e+00  2.285e+00  0.589 0.555876
## plotIDATBN-01-0312 -9.750e-02  2.294e+00 -0.043 0.966098
## plotIDATBN-01-0313  4.374e-01  6.066e+00  0.072 0.942519
## plotIDATBN-01-0314 -2.356e-01  7.324e+00 -0.032 0.974342
## plotIDATBN-01-0315  3.829e-01  1.100e+01  0.035 0.972228
## plotIDATBN-01-0317 -1.448e+00  9.952e+00 -0.146 0.884315
## plotIDATBN-01-0318 -1.433e+00  1.173e+01 -0.122 0.902772
## plotIDATBN-01-0319  1.558e+00  9.806e+00  0.159 0.873757
## plotIDATBN-01-0320  1.305e+00  9.769e+00  0.134 0.893764
## plotIDATBN-01-0321  1.679e+00  9.719e+00  0.173 0.862841
## plotIDATBN-01-0322 -1.311e+00  1.089e+01 -0.120 0.904172
## plotIDATBN-01-0323  4.231e-01  7.457e+00  0.057 0.954751
## plotIDATBN-01-0324  1.016e-01  7.452e+00  0.014 0.989120
## plotIDATBN-01-0401  6.891e-01  1.896e+01  0.036 0.971001
## plotIDATBN-01-0402 -3.389e-01  1.856e+01 -0.018 0.985433
## plotIDATBN-01-0403 -2.745e+00  8.916e+00 -0.308 0.758217
## plotIDATBN-01-0404 -2.800e+00  8.585e+00 -0.326 0.744305
## plotIDATBN-01-0405  3.676e-01  8.072e+00  0.046 0.963678
## plotIDATBN-01-0406  4.018e+00  8.026e+00  0.501 0.616671
## plotIDATBN-01-0407  1.103e+00  3.320e+00  0.332 0.739614
## plotIDATBN-01-0408 -2.819e+00  3.499e+00 -0.806 0.420397
## plotIDATBN-01-0409 -2.753e+00  3.919e+00 -0.702 0.482472
## plotIDATBN-01-0410  2.873e+00  1.747e+01  0.164 0.869378
## plotIDATBN-01-0411  2.659e+00  1.787e+01  0.149 0.881687
## plotIDATBN-01-0412 -2.485e+00  1.888e+01 -0.132 0.895282
## plotIDATBN-01-0413  3.216e-01  2.077e+01  0.015 0.987650
## plotIDATBN-01-0414 -2.551e+00  1.993e+01 -0.128 0.898174
## plotIDATBN-01-0415  7.633e-01  1.166e+01  0.065 0.947813
## plotIDATBN-01-0501  6.999e-01  6.999e+00  0.100 0.920355
```

## plotIDATBN-01-0503	-2.133e-01	2.222e+01	-0.010	0.992342
## plotIDATBN-01-0504	1.767e+00	1.686e+01	0.105	0.916548
## plotIDATBN-01-0505	1.690e+00	2.217e+01	0.076	0.939237
## plotIDATBN-01-0506	1.954e+00	2.230e+01	0.088	0.930189
## plotIDATBN-01-0507	-2.674e+00	1.105e+01	-0.242	0.808746
## plotIDATBN-01-0508	4.578e+00	1.755e+01	0.261	0.794162
## plotIDATBN-01-0512	-4.512e-01	1.180e+01	-0.038	0.969493
## plotIDATBN-01-0513	7.786e-01	7.632e+00	0.102	0.918745
## plotIDATBN-01-0514	3.841e-01	1.194e+01	0.032	0.974331
## plotIDATBN-01-0515	3.478e-01	1.042e+01	0.033	0.973379
## plotIDATBN-01-0516	1.113e+00	9.795e+00	0.114	0.909527
## plotIDATBN-01-0518	1.305e+00	2.262e+01	0.058	0.953994
## plotIDATBN-01-0519	8.685e-01	9.980e+00	0.087	0.930658
## plotIDATBN-01-0521	-4.562e-01	1.125e+01	-0.041	0.967664
## plotIDATBN-01-0522	-2.577e+00	1.126e+01	-0.229	0.819017
## plotIDATBN-01-0523	-2.672e+00	1.099e+01	-0.243	0.808008
## plotIDATBN-01-0525	3.244e-02	1.165e+01	0.003	0.997778
## plotIDATBN-01-0526	1.266e+00	1.142e+01	0.111	0.911712
## plotIDATBN-01-0528	2.053e+00	1.994e+01	0.103	0.918000
## plotIDATBN-01-0529	1.317e+00	1.994e+01	0.066	0.947354
## plotIDATBN-01-0530	1.201e+00	2.118e+01	0.057	0.954786
## plotIDATBN-01-0532	1.294e+00	2.076e+01	0.062	0.950292
## plotIDATBN-01-0533	1.589e+00	2.098e+01	0.076	0.939635
## plotIDATBN-01-0534	-2.618e+00	2.122e+01	-0.123	0.901823
## plotIDATBN-01-0536	-1.745e+00	7.203e+00	-0.242	0.808636
## plotIDATBN-01-0541	-2.800e+00	6.943e+00	-0.403	0.686754
## plotIDATBN-01-0544	1.373e+00	1.169e+01	0.117	0.906475
## plotIDATBN-01-0545	1.018e+00	1.307e+01	0.078	0.937946
## plotIDATBN-01-0546	4.830e-01	1.325e+01	0.036	0.970923
## plotIDATBN-01-0547	-1.879e+00	1.332e+01	-0.141	0.887794
## plotIDATBN-01-0548	-1.879e+00	1.378e+01	-0.136	0.891512
## plotIDATBN-01-0549	2.336e-01	1.369e+01	0.017	0.986381
## plotIDATBN-01-0550	-1.892e-01	1.181e+01	-0.016	0.987213
## plotIDATBN-01-0551	5.358e-01	1.870e+01	0.029	0.977136
## plotIDATBN-01-0555	-1.047e-02	1.816e+01	-0.001	0.999540
## plotIDATBN-01-0557	-9.737e-02	9.575e+00	-0.010	0.991887
## plotIDATBN-01-0558	7.771e-01	9.062e+00	0.086	0.931658
## plotIDATBN-01-0559	2.712e-01	8.326e+00	0.033	0.974016
## plotIDATBN-01-0561	1.060e-01	4.946e+00	0.021	0.982911
## plotIDATBP-01-0001	3.374e+00	7.142e+00	0.472	0.636607
## plotIDATBP-01-0004	-7.343e-02	6.409e+00	-0.011	0.990860
## plotIDATBP-01-0005	-6.257e-01	7.164e+00	-0.087	0.930402
## plotIDATBP-01-0006	4.578e+00	1.092e+01	0.419	0.675094
## plotIDATBP-01-0007	8.743e-01	1.474e+01	0.059	0.952701
## plotIDATBP-01-0008	5.887e-01	1.432e+01	0.041	0.967202
## plotIDATBP-01-0010	1.785e+00	1.585e+01	0.113	0.910356
## plotIDATBP-01-0011	3.175e-01	2.203e+01	0.014	0.988501
## plotIDATBP-01-0012	3.874e-01	2.705e+01	0.014	0.988575
## plotIDATBP-01-0013	-1.622e+00	3.013e+01	-0.054	0.957059
## plotIDATBP-01-0015	-1.512e-01	2.248e+01	-0.007	0.994632
## plotIDATBP-01-0017	3.341e-01	1.407e+01	0.024	0.981058
## plotIDATBP-01-0018	-6.562e-01	2.823e+00	-0.232	0.816201
## plotIDDELL-02-0042	1.395e-02	8.349e+00	0.002	0.998667
## plotIDDELL-02-0043	-2.067e-01	8.052e+00	-0.026	0.979522

## plotIDDELL-02-0045	-6.087e-01	6.468e+00	-0.094	0.925033
## plotIDDELL-02-0052	3.324e-01	6.878e+00	0.048	0.961456
## plotIDDELL-02-0054	-1.173e+00	8.257e+00	-0.142	0.887049
## plotIDDELL-02-0055	-3.683e-02	7.891e+00	-0.005	0.996276
## plotIDDELL-02-0057	-5.025e-01	6.708e+00	-0.075	0.940297
## plotIDDELL-02-0100	7.157e-01	1.232e+01	0.058	0.953675
## plotIDDELL-02-0101	-8.051e-01	1.250e+01	-0.064	0.948664
## plotIDDELL-02-0105	-1.061e+00	1.261e+01	-0.084	0.932961
## plotIDDELL-02-0106	-6.134e-01	1.259e+01	-0.049	0.961136
## plotIDDELL-02-0108	-1.039e+00	1.284e+01	-0.081	0.935460
## plotIDDELL-02-0109	-2.945e-01	1.203e+01	-0.024	0.980471
## plotIDDELL-02-0110	-1.180e+00	1.224e+01	-0.096	0.923210
## plotIDDELL-02-0114	1.282e-01	1.188e+01	0.011	0.991391
## plotIDDELL-02-0115	1.299e-01	1.189e+01	0.011	0.991286
## plotIDDELL-02-0116	1.284e-01	1.359e+01	0.009	0.992464
## plotIDDELL-02-0127	2.252e-01	1.411e+01	0.016	0.987263
## plotIDDELL-02-0129	-1.307e-01	1.298e+01	-0.010	0.991969
## plotIDDELL-02-0133	-4.402e-01	1.525e+01	-0.029	0.976971
## plotIDDELL-02-0142	9.703e-01	1.497e+01	0.065	0.948321
## plotIDDELL-03-0002	-1.704e+00	2.805e+00	-0.607	0.543557
## plotIDDELL-03-0003	-9.819e-01	2.711e+00	-0.362	0.717181
## plotIDDELL-03-0006	-1.526e+00	4.090e+00	-0.373	0.709003
## plotIDDELL-03-0007	2.919e-01	4.009e+00	0.073	0.941967
## plotIDDELL-03-0008	-1.649e-01	4.155e+00	-0.040	0.968345
## plotIDDELL-03-0010	1.188e-01	3.722e+00	0.032	0.974543
## plotIDDELL-03-0021	-1.474e+00	3.616e+00	-0.408	0.683487
## plotIDDELL-03-0025	7.098e-01	3.629e+00	0.196	0.844930
## plotIDDELL-03-0028	-2.374e-01	2.933e+00	-0.081	0.935500
## plotIDDELL-03-0029	8.429e-01	3.216e+00	0.262	0.793224
## plotIDDELL-03-0114	3.061e-01	3.578e+00	0.086	0.931828
## plotIDDLAP-01-0011	-1.416e-03	1.372e+01	0.000	0.999918
## plotIDDLAP-01-0012	-3.683e-01	1.371e+01	-0.027	0.978569
## plotIDDLAP-01-0013	-1.961e-01	1.528e+01	-0.013	0.989764
## plotIDDLAP-01-0014	-5.296e-02	1.488e+01	-0.004	0.997160
## plotIDDLAP-01-0015	-4.189e-01	1.672e+01	-0.025	0.980014
## plotIDDSLM-01-0002	-2.428e-01	8.281e+00	-0.029	0.976607
## plotIDDSLM-01-0003	4.802e-01	1.034e+01	0.046	0.962946
## plotIDDSLM-01-0004	6.205e-01	8.276e+00	0.075	0.940236
## plotIDDSLM-01-0005	-7.379e-03	5.447e+00	-0.001	0.998919
## plotIDDSLM-01-0006	8.361e-01	5.662e+00	0.148	0.882615
## plotIDDSLM-01-0007	6.593e-01	5.547e+00	0.119	0.905396
## plotIDDSLM-01-0008	2.554e-01	1.052e+01	0.024	0.980634
## plotIDDSLM-01-0009	-8.160e-01	6.054e+00	-0.135	0.892788
## plotIDDSLM-01-0010	5.887e-01	5.648e+00	0.104	0.916986
## plotIDDSLM-01-0011	5.887e-01	8.486e+00	0.069	0.944693
## plotIDDSLM-01-0012	7.193e-01	6.156e+00	0.117	0.906987
## plotIDDSLM-01-0013	3.361e-01	1.004e+01	0.033	0.973305
## plotIDDSLM-01-0024	3.361e-01	1.035e+01	0.032	0.974097
## plotIDDSLM-01-0025	-3.160e-01	6.484e+00	-0.049	0.961130
## plotIDDSLM-01-0027	9.220e-01	1.040e+01	0.089	0.929352
## plotIDDSLM-01-0028	-3.449e-01	6.477e+00	-0.053	0.957532
## plotIDDSLM-01-0029	1.255e+00	1.016e+01	0.124	0.901707
## plotIDDSLM-01-0037	2.117e-01	8.215e+00	0.026	0.979446
## plotIDDSLM-01-0080	3.260e-01	5.887e+00	0.055	0.955845

## plotIDDSLM-01-0081	2.554e-01	5.654e+00	0.045	0.963977
## plotIDDSLM-01-0082	-3.160e-01	6.063e+00	-0.052	0.958436
## plotIDDSLM-01-0083	3.668e-01	6.239e+00	0.059	0.953124
## plotIDDSLM-01-0084	1.509e-01	6.196e+00	0.024	0.980565
## plotIDDSLM-01-0085	-2.807e-01	6.244e+00	-0.045	0.964143
## plotIDDSLM-01-0086	5.861e-01	1.017e+01	0.058	0.954028
## plotIDDSLM-01-0087	-1.324e-01	6.151e+00	-0.022	0.982827
## plotIDDSLM-01-0088	1.176e-01	6.183e+00	0.019	0.984827
## plotIDDSLM-01-0089	5.262e-02	6.137e+00	0.009	0.993159
## plotIDDSLM-01-0090	6.999e-01	5.956e+00	0.118	0.906454
## plotIDDSLM-01-0115	2.205e-01	1.020e+01	0.022	0.982748
## plotIDDSLM-01-0134	5.861e-01	5.655e+00	0.104	0.917462
## plotIDDSLM-01-0135	1.326e+00	5.459e+00	0.243	0.808094
## plotIDDSLM-01-0136	1.374e-01	1.015e+01	0.014	0.989197
## plotIDDSLM-01-0137	8.606e-02	1.022e+01	0.008	0.993284
## plotIDDSLM-01-0138	5.887e-01	5.533e+00	0.106	0.915275
## plotIDDSLM-01-0139	3.260e-01	5.646e+00	0.058	0.953962
## plotIDDSLM-01-0140	6.999e-01	1.051e+01	0.067	0.946917
## plotIDDSLM-01-0143	-7.796e-02	6.146e+00	-0.013	0.989880
## plotIDDSLM-01-0185	-6.601e-02	6.068e+00	-0.011	0.991322
## plotIDDSLM-01-0253	9.220e-01	5.984e+00	0.154	0.877555
## plotIDDSLM-01-0302	8.606e-02	8.292e+00	0.010	0.991719
## plotIDDSLM-01-0303	-5.660e-01	6.647e+00	-0.085	0.932144
## plotIDDSLM-01-0304	4.205e-01	7.066e+00	0.060	0.952551
## plotIDDSLM-01-0305	5.887e-01	8.434e+00	0.070	0.944353
## plotIDDSLM-01-0306	-7.785e-01	6.442e+00	-0.121	0.903818
## plotIDDSLM-01-0307	3.856e-01	7.140e+00	0.054	0.956934
## plotIDDSLM-01-0308	5.262e-02	6.737e+00	0.008	0.993768
## plotIDDSLM-01-0309	9.220e-01	7.235e+00	0.127	0.898596
## plotIDDSLM-01-0310	4.205e-01	7.128e+00	0.059	0.952961
## plotIDDSLM-01-0311	5.262e-02	6.754e+00	0.008	0.993784
## plotIDDSLM-01-0313	5.861e-01	8.333e+00	0.070	0.943933
## plotIDDSLM-01-0314	1.089e-01	8.336e+00	0.013	0.989577
## plotIDDSLM-01-0320	9.051e-01	6.421e+00	0.141	0.887902
## plotIDDSLM-01-0321	1.840e-01	6.474e+00	0.028	0.977329
## plotIDDSLM-01-0322	-1.795e-01	6.417e+00	-0.028	0.977682
## plotIDDSLM-01-0323	8.226e-01	6.412e+00	0.128	0.897922
## plotIDDSLM-01-0324	9.220e-01	6.554e+00	0.141	0.888131
## plotIDDSLM-01-0325	-3.160e-01	6.604e+00	-0.048	0.961839
## plotIDDSLM-01-0326	-1.639e-01	6.142e+00	-0.027	0.978705
## plotIDDSLM-01-0328	-2.807e-01	6.752e+00	-0.042	0.966840
## plotIDDSLM-01-0329	-1.903e-01	6.407e+00	-0.030	0.976307
## plotIDDSLM-01-0330	-4.139e-01	6.178e+00	-0.067	0.946585
## plotIDDSLM-01-0340	6.176e-01	6.477e+00	0.095	0.924040
## plotIDDSLM-01-0341	3.676e-01	6.397e+00	0.057	0.954180
## plotIDDSLM-01-0342	5.726e-01	6.414e+00	0.089	0.928868
## plotIDDSLM-01-0343	3.361e-01	6.194e+00	0.054	0.956734
## plotIDDSLM-01-0345	5.861e-01	6.141e+00	0.095	0.923973
## plotIDDSLM-01-0346	2.554e-01	6.220e+00	0.041	0.967251
## plotIDDSLM-01-0347	2.554e-01	6.282e+00	0.041	0.967574
## plotIDFRID-01-0001	-3.688e-02	1.104e+01	-0.003	0.997334
## plotIDFRID-01-0002	-5.302e-01	1.105e+01	-0.048	0.961716
## plotIDFRID-01-0003	1.255e+00	6.994e+00	0.179	0.857562
## plotIDFRID-01-0004	3.647e-01	8.590e+00	0.042	0.966138

## plotIDFRID-01-0005	2.898e-01	9.714e+00	0.030	0.976201
## plotIDFRID-01-0006	-9.357e-01	1.253e+01	-0.075	0.940498
## plotIDFRID-01-0007	-4.476e-01	1.275e+01	-0.035	0.971990
## plotIDFRID-01-0008	-2.871e-01	7.862e+00	-0.037	0.970877
## plotIDFRID-01-0009	2.487e-01	1.324e+01	0.019	0.985014
## plotIDFRID-01-0010	3.420e-01	1.268e+01	0.027	0.978479
## plotIDFRID-01-0011	1.578e+00	9.918e+00	0.159	0.873560
## plotIDFRID-01-0013	1.514e-01	1.200e+01	0.013	0.989935
## plotIDFRID-01-0015	5.110e-01	1.543e+01	0.033	0.973591
## plotIDFRID-02-0014	8.476e-01	1.547e+01	0.055	0.956316
## plotIDFRID-08-0012	3.713e-01	1.190e+01	0.031	0.975117
## plotIDFRID-0T-0001	1.298e+00	1.283e+01	0.101	0.919436
## plotIDFRID-0T-0002	4.361e-01	1.233e+01	0.035	0.971784
## plotIDFRID-0T-0003	8.812e-01	1.196e+01	0.074	0.941294
## plotIDFRID-0T-0004	3.861e+00	1.180e+01	0.327	0.743570
## plotIDFRID-0T-0005	7.566e-01	1.136e+01	0.067	0.946907
## plotIDFRID-0T-0006	2.522e+00	7.134e+00	0.354	0.723714
## plotIDFRID-0T-0007	9.548e-01	7.144e+00	0.134	0.893693
## plotIDFRID-0T-0008	1.917e+00	7.287e+00	0.263	0.792475
## plotIDFRID-0T-0009	1.062e+00	7.268e+00	0.146	0.883876
## plotIDFRID-0T-0010	1.354e+00	7.277e+00	0.186	0.852366
## plotIDFRID-0T-0011	1.111e+00	7.199e+00	0.154	0.877408
## plotIDFRID-0T-0012	3.922e+00	7.448e+00	0.527	0.598471
## plotIDFRID-0T-0013	3.589e+00	7.419e+00	0.484	0.628602
## plotIDFRID-0T-0014	2.589e+00	7.316e+00	0.354	0.723479
## plotIDFRID-0T-0015	2.922e+00	7.326e+00	0.399	0.690008
## plotIDFRID-0T-0016	3.589e+00	7.414e+00	0.484	0.628362
## plotIDFRID-0T-0017	3.922e+00	7.358e+00	0.533	0.594009
## plotIDFRID-0T-0018	3.147e+00	7.209e+00	0.437	0.662460
## plotIDFRID-0T-0019	2.073e+00	7.092e+00	0.292	0.770004
## plotIDFRID-0T-0020	1.091e+00	1.117e+01	0.098	0.922222
## plotIDFRID-0T-0021	5.936e-01	1.090e+01	0.054	0.956592
## plotIDFRID-0T-0022	1.304e+00	1.049e+01	0.124	0.901124
## plotIDFRID-0T-0023	1.017e+00	1.016e+01	0.100	0.920266
## plotIDFRID-0T-0024	9.214e-01	9.944e+00	0.093	0.926179
## plotIDFRID-0T-0025	6.885e-01	7.119e+00	0.097	0.922951
## plotIDFRID-0T-0026	2.707e+00	7.307e+00	0.370	0.711069
## plotIDFRID-0T-0027	8.801e-01	7.437e+00	0.118	0.905797
## plotIDFRID-0T-0028	1.082e+00	7.610e+00	0.142	0.886949
## plotIDFRID-0T-0029	1.443e+00	9.624e+00	0.150	0.880850
## plotIDFRID-0T-0030	7.282e-01	9.248e+00	0.079	0.937242
## plotIDFRID-0T-0031	-4.907e-01	8.999e+00	-0.055	0.956519
## plotIDFRID-0T-0032	1.681e+00	9.069e+00	0.185	0.852955
## plotIDFRID-0T-0033	1.588e+00	8.822e+00	0.180	0.857130
## plotIDFRID-0T-0034	1.265e+00	7.932e+00	0.160	0.873259
## plotIDFRID-0T-0035	1.532e+00	7.862e+00	0.195	0.845527
## plotIDFRID-0T-0036	1.937e+00	8.119e+00	0.239	0.811464
## plotIDFRID-0T-0037	4.472e-01	8.139e+00	0.055	0.956183
## plotIDFRID-0T-0038	1.742e+00	8.277e+00	0.210	0.833330
## plotIDFRID-0T-0039	3.943e-01	8.549e+00	0.046	0.963212
## plotIDMILL-01-0024	7.669e-01	3.131e+01	0.024	0.980456
## plotIDMILL-03-0020	8.636e-01	2.476e+01	0.035	0.972180
## plotIDMILL-04-0005	2.493e+00	2.378e+01	0.105	0.916520
## plotIDMILL-07-0024	1.587e+00	3.007e+00	0.528	0.597754

## plotIDMILL-07-0052	6.626e-01	9.850e+00	0.067	0.946370
## plotIDMILL-10-0019	7.172e-01	4.057e+00	0.177	0.859661
## plotIDMILL-11-0017	3.797e-01	1.272e+01	0.030	0.976183
## plotIDMILL-12-0007	2.418e-01	1.557e+01	0.016	0.987609
## plotIDMILL-17-0010	2.788e-02	8.954e+00	0.003	0.997516
## plotIDMILL-17-0012	4.915e-01	9.927e+00	0.050	0.960510
## plotIDMILL-17-0015	1.549e+00	7.843e+00	0.198	0.843416
## plotIDMILL-17-0039	1.462e+00	6.833e+00	0.214	0.830597
## plotIDMILL-18-0021	8.660e-02	9.404e+00	0.009	0.992652
## plotIDMILL-20-0010	3.797e-02	9.915e+00	0.004	0.996945
## plotIDMILL-20-0044	4.605e-01	7.360e+00	0.063	0.950115
## plotIDMILL-20-0067	-1.243e-01	9.183e+00	-0.014	0.989202
## plotIDMILL-24-0016	9.110e-01	1.709e+01	0.053	0.957485
## plotIDMILL-24-0059	-3.440e-01	1.855e+01	-0.019	0.985207
## plotIDMILL-25-0044	9.910e-01	2.041e+01	0.049	0.961284
## plotIDMILL-27-0033	2.954e-01	2.127e+01	0.014	0.988919
## plotIDMILL-27-0041	1.297e+00	2.024e+01	0.064	0.948913
## plotIDMILL-27-0061	1.032e+00	2.340e+01	0.044	0.964821
## plotIDMILL-27-0065	9.791e-02	2.292e+01	0.004	0.996592
## plotIDMILL-27-0110	6.382e-01	2.552e+01	0.025	0.980048
## plotIDMILL-27-0202	1.171e+00	2.208e+01	0.053	0.957717
## plotIDPITT-01-0001	1.540e-01	2.270e+01	0.007	0.994586
## plotIDPITT-01-0002	4.472e-01	2.286e+01	0.020	0.984394
## plotIDPITT-01-0003	-3.460e-01	2.313e+01	-0.015	0.988067
## plotIDPITT-01-0005	3.253e-01	2.687e+01	0.012	0.990341
## plotIDPITT-01-0006	1.366e-01	2.416e+01	0.006	0.995490
## plotIDPITT-01-0007	-6.468e-01	2.141e+01	-0.030	0.975896
## plotIDPITT-01-0008	-1.024e+00	2.014e+01	-0.051	0.959436
## plotIDPITT-01-0009	8.790e-01	2.459e+01	0.036	0.971489
## plotIDPITT-01-0010	-4.951e-01	2.809e+01	-0.018	0.985940
## plotIDPITT-01-0011	-8.164e-01	2.035e+01	-0.040	0.968001
## plotIDPITT-01-0012	-7.373e-01	2.128e+01	-0.035	0.972363
## plotIDPITT-01-0014	4.946e-01	2.297e+01	0.022	0.982819
## plotIDPITT-01-0015	-4.332e-01	1.933e+01	-0.022	0.982122
## plotIDPITT-01-0016	-3.275e-01	2.322e+01	-0.014	0.988750
## plotIDPITT-01-0017	-7.672e-01	2.242e+01	-0.034	0.972701
## plotIDPITT-01-0018	-1.954e-01	2.413e+01	-0.008	0.993537
## plotIDPITT-01-0019	-4.362e-01	2.143e+01	-0.020	0.983762
## plotIDPITT-01-0020	-3.907e-01	2.074e+01	-0.019	0.984969
## plotIDPITT-01-0021	7.673e-01	2.203e+01	0.035	0.972214
## plotIDPITT-01-0022	1.155e+00	1.806e+01	0.064	0.949016
## plotIDPITT-01-0023	3.153e-01	2.257e+01	0.014	0.988855
## plotIDPITT-01-0024	-2.333e-01	2.110e+01	-0.011	0.991179
## plotIDPITT-01-0025	-5.694e-01	2.178e+01	-0.026	0.979142
## plotIDPITT-01-0026	1.181e+00	2.673e+01	0.044	0.964772
## plotIDPITT-01-0027	3.463e-01	2.150e+01	0.016	0.987150
## plotIDPITT-01-0028	-8.310e-02	2.182e+01	-0.004	0.996961
## plotIDPITT-01-0029	-3.915e-01	2.363e+01	-0.017	0.986778
## plotIDPITT-01-0030	-1.996e-01	2.192e+01	-0.009	0.992735
## plotIDPITT-01-0031	8.055e-01	1.883e+01	0.043	0.965871
## plotIDPITT-01-0032	-5.618e-01	2.464e+01	-0.023	0.981810
## plotIDPITT-01-0033	-1.727e-01	2.470e+01	-0.007	0.994422
## plotIDPITT-01-0034	1.615e+00	1.851e+01	0.087	0.930464
## plotIDPITT-01-0035	1.167e+00	1.899e+01	0.061	0.951028

## plotIDPITT-01-0036	-5.977e-01	2.440e+01	-0.024	0.980458
## plotIDPITT-01-0037	3.220e-01	2.343e+01	0.014	0.989033
## plotIDPITT-01-0038	-6.458e-01	1.923e+01	-0.034	0.973219
## plotIDPITT-01-0039	7.300e-01	2.463e+01	0.030	0.976352
## plotIDPITT-01-0040	-2.945e-01	2.462e+01	-0.012	0.990456
## plotIDPITT-01-0041	3.462e-01	2.548e+01	0.014	0.989157
## plotIDPITT-01-0042	2.801e-01	2.588e+01	0.011	0.991363
## plotIDPITT-01-0043	-2.401e-01	2.610e+01	-0.009	0.992660
## plotIDPITT-01-0044	1.559e+00	2.205e+01	0.071	0.943636
## plotIDPITT-01-0045	4.805e-01	1.835e+01	0.026	0.979112
## plotIDUFRL-01-0001	-7.713e-02	1.383e+01	-0.006	0.995552
## plotIDUFRL-01-0002	5.470e-01	1.297e+01	0.042	0.966358
## plotIDUFRL-01-0003	-5.805e-02	1.331e+01	-0.004	0.996520
## plotIDUFRL-01-0004	2.932e-01	1.014e+01	0.029	0.976939
## plotIDUFRL-01-0005	9.254e-01	1.023e+01	0.090	0.927951
## plotIDUFRL-01-0006	3.300e-01	1.051e+01	0.031	0.974957
## plotIDUFRL-01-0007	4.630e-01	1.045e+01	0.044	0.964645
## plotIDUFRL-01-0008	5.000e-01	1.026e+01	0.049	0.961143
## plotIDUFRL-01-0009	-2.446e-01	1.053e+01	-0.023	0.981463
## plotIDUFRL-01-0010	-1.055e+00	1.080e+01	-0.098	0.922148
## plotIDUFRL-01-0011	1.305e+00	1.438e+01	0.091	0.927723
## plotIDUFRL-01-0012	7.399e-01	1.465e+01	0.051	0.959715
## plotIDUFRL-01-0013	-6.075e-01	1.447e+01	-0.042	0.966519
## plotIDUFRL-01-0014	4.318e-01	1.493e+01	0.029	0.976926
## plotIDUFRL-01-0015	-4.184e-01	1.438e+01	-0.029	0.976784
## plotIDUFRL-01-0016	-1.932e-01	1.275e+01	-0.015	0.987910
## plotIDUFRL-01-0017	3.269e-02	1.270e+01	0.003	0.997946
## plotIDUFRL-01-0018	-4.318e-01	1.261e+01	-0.034	0.972681
## plotIDUFRL-01-0019	-7.579e-01	1.287e+01	-0.059	0.953034
## plotIDUFRL-01-0020	1.223e+00	1.304e+01	0.094	0.925277
## plotIDUFRL-01-0021	-4.115e-01	1.070e+01	-0.038	0.969329
## plotIDUFRL-01-0022	8.272e-01	9.273e+00	0.089	0.928918
## plotIDUFRL-01-0023	-9.290e-02	1.750e+01	-0.005	0.995764
## plotIDUFRL-01-0024	-6.793e-01	1.750e+01	-0.039	0.969041
## plotIDUFRL-01-0025	5.073e-01	1.737e+01	0.029	0.976706
## plotIDUFRL-01-0026	-1.760e-01	1.706e+01	-0.010	0.991768
## plotIDUFRL-01-0027	-5.089e-01	3.893e+00	-0.131	0.896000
## plotIDUFRL-01-0028	-2.295e-01	1.500e+01	-0.015	0.987797
## plotIDUFRL-01-0029	3.188e-01	1.458e+01	0.022	0.982559
## plotIDUFRL-01-0030	6.565e-01	1.242e+01	0.053	0.957857
## plotIDUFRL-01-0031	2.999e-01	1.260e+01	0.024	0.981007
## plotIDUFRL-01-0032	-1.354e+00	1.386e+01	-0.098	0.922206
## plotIDUFRL-01-0033	-2.598e-01	1.301e+01	-0.020	0.984073
## plotIDUFRL-01-0034	8.933e-01	1.402e+01	0.064	0.949209
## plotIDUFRL-01-0035	4.659e-01	4.377e+00	0.106	0.915239
## plotIDUFRL-01-0036	-2.128e-01	4.195e+00	-0.051	0.959538
## plotIDUFRL-01-0037	-1.066e+00	1.995e+01	-0.053	0.957392
## plotIDUFRL-01-0038	-1.386e+00	1.997e+01	-0.069	0.944693
## plotIDUFRL-01-0039	-1.294e+00	1.278e+01	-0.101	0.919319
## plotIDUFRL-01-0040	-3.978e-01	1.274e+01	-0.031	0.975102
## plotIDUFRL-01-0041	8.572e-02	1.263e+01	0.007	0.994587
## plotIDUFRL-01-0042	-7.214e-01	1.267e+01	-0.057	0.954590
## plotIDUFRL-01-0043	-7.710e-01	1.246e+01	-0.062	0.950643
## plotIDUFRL-01-0044	-2.521e-01	1.062e+01	-0.024	0.981053

## plotIDUFRL-01-0045	4.217e-02	1.061e+01	0.004	0.996831
## plotIDUFRL-01-0046	1.536e-01	1.057e+01	0.015	0.988402
## plotIDUFRL-01-0047	-2.675e-01	1.047e+01	-0.026	0.979616
## plotIDUFRL-01-0048	-4.714e-01	1.032e+01	-0.046	0.963571
## plotIDUFRL-01-0049	9.488e-01	9.415e+00	0.101	0.919733
## plotIDUFRL-01-0050	9.451e-02	9.021e+00	0.010	0.991642
## plotIDUFRL-01-0051	1.174e+00	8.894e+00	0.132	0.895014
## plotIDUFRL-01-0052	6.130e-01	8.043e+00	0.076	0.939252
## plotIDUFRL-01-0053	7.496e-01	6.362e+00	0.118	0.906218
## plotIDUFRL-01-0054	1.066e-01	7.091e+00	0.015	0.988003
## plotIDUFRL-01-0055	8.722e-01	6.367e+00	0.137	0.891033
## plotIDUFRL-01-0056	-3.345e-01	6.219e+00	-0.054	0.957108
## plotIDUFRL-01-0057	3.581e-01	6.430e+00	0.056	0.955596
## plotIDUFRL-01-0058	2.191e-01	6.061e+00	0.036	0.971173
## plotIDUFRL-01-0059	3.028e-01	9.498e+00	0.032	0.974567
## plotIDUFRL-01-0060	6.852e-01	9.421e+00	0.073	0.942019
## plotIDUFRL-01-0061	2.671e-01	9.666e+00	0.028	0.977956
## plotIDUFRL-01-0062	6.063e-01	9.471e+00	0.064	0.948964
## plotIDUFRL-01-0063	1.277e+00	9.617e+00	0.133	0.894338
## plotIDUFRL-01-0064	8.757e-01	1.254e+01	0.070	0.944316
## plotIDUFRL-01-0065	3.334e-01	1.236e+01	0.027	0.978485
## plotIDUFRL-01-0066	1.721e+00	1.238e+01	0.139	0.889461
## plotIDUFRL-01-0067	4.806e-01	1.267e+01	0.038	0.969745
## plotIDUFRL-01-0068	-4.921e-01	1.268e+01	-0.039	0.969041
## plotIDUFRL-01-0069	2.982e-01	1.278e+01	0.023	0.981382
## plotIDUFRL-01-0070	-6.131e-01	9.977e+00	-0.061	0.951003
## plotIDUFRL-01-0071	6.369e-01	9.933e+00	0.064	0.948873
## plotIDUFRL-01-0072	3.586e-01	1.006e+01	0.036	0.971559
## plotIDUFRL-01-0073	3.615e-01	1.032e+01	0.035	0.972046
## plotIDUFRL-01-0074	-2.670e-01	9.929e+00	-0.027	0.978548
## plotIDUFRL-01-0075	-3.061e-01	9.980e+00	-0.031	0.975529
## plotIDUFRL-01-0076	6.431e-01	9.890e+00	0.065	0.948161
## plotIDUFRL-01-0077	8.577e-01	1.654e+01	0.052	0.958642
## plotIDUFRL-01-0078	-1.796e-01	1.642e+01	-0.011	0.991271
## plotIDUFRL-01-0079	-1.093e-01	1.638e+01	-0.007	0.994676
## plotIDUFRL-01-0080	3.634e-01	1.616e+01	0.022	0.982053
## plotIDUFRL-01-0081	7.253e-02	1.633e+01	0.004	0.996457
## plotIDUFRL-01-0082	9.555e-02	1.584e+01	0.006	0.995189
## plotIDUFRL-01-0083	8.020e-01	6.173e+00	0.130	0.896633
## plotIDUFRL-01-0084	1.021e-01	6.562e+00	0.016	0.987586
## plotIDUFRL-01-0085	1.029e+00	7.232e+00	0.142	0.886872
## plotIDUFRL-01-0086	8.523e-01	7.185e+00	0.119	0.905580
## plotIDUFRL-01-0087	-2.322e-01	7.017e+00	-0.033	0.973602
## plotIDUFRL-01-0088	-3.475e-01	6.555e+00	-0.053	0.957723
## plotIDUFRL-01-0089	3.539e-02	6.103e+00	0.006	0.995374
## plotIDUFRL-01-0090	1.561e-01	2.066e+01	0.008	0.993972
## plotIDUFRL-01-0091	7.027e-02	2.074e+01	0.003	0.997297
## plotIDUFRL-01-0092	-3.196e-02	2.010e+01	-0.002	0.998732
## plotIDUFRL-01-0093	-5.199e-02	1.081e+01	-0.005	0.996163
## plotIDUFRL-01-0094	-8.335e-01	1.080e+01	-0.077	0.938485
## plotIDUFRL-01-0101	-1.007e+00	1.029e+01	-0.098	0.922036
## plotIDUFRL-01-0102	-1.979e-01	8.577e+00	-0.023	0.981588
## plotIDUFRL-01-0103	-8.903e-01	8.983e+00	-0.099	0.921053
## plotIDUFRL-01-0104	-1.102e+00	1.021e+01	-0.108	0.914006

## plotIDUFRL-01-0105	1.551e+00	8.016e+00	0.194	0.846549
## plotIDUFRL-01-0106	5.473e-01	6.939e+00	0.079	0.937139
## plotIDUFRL-01-0154	8.548e-02	2.475e+00	0.035	0.972456
## plotIDUFRL-01-0155	3.392e-01	2.541e+00	0.134	0.893782
## plotIDUFRL-01-0156	2.744e-01	2.521e+00	0.109	0.913311
## plotIDUFRL-01-0160	1.021e+00	3.974e+00	0.257	0.797335
## plotIDUFRL-01-0161	9.961e-01	4.558e+00	0.219	0.827008
## plotIDUFRL-01-0162	8.005e-01	4.579e+00	0.175	0.861231
## plotIDUFRL-01-0163	-5.591e-01	4.839e+00	-0.116	0.908017
## plotIDUFRL-01-0164	3.169e-01	3.910e+00	0.081	0.935411
## plotIDUFRL-01-0165	2.160e+00	1.805e+01	0.120	0.904757
## plotIDUFRL-01-0166	1.047e+00	2.944e+00	0.356	0.722214
## plotIDUFRL-01-0167	3.532e+00	1.771e+01	0.200	0.841864
## plotIDUFRL-01-0168	2.919e+00	1.755e+01	0.166	0.867916
## plotIDUFRL-01-0169	1.178e+00	1.750e+01	0.067	0.946321
## plotIDUFRL-02-0001	-2.669e-01	8.365e+00	-0.032	0.974542
## plotIDUFRL-02-0002	5.479e-02	8.542e+00	0.006	0.994883
## plotIDUFRL-02-0003	-2.788e-01	8.355e+00	-0.033	0.973378
## plotIDUFRL-02-0004	-6.908e-01	8.406e+00	-0.082	0.934503
## plotIDUFRL-02-0005	-1.399e+00	6.332e+00	-0.221	0.825099
## plotIDUFRL-02-0007	-1.792e+00	5.241e+00	-0.342	0.732450
## plotIDUFRL-02-0008	-9.774e-01	5.954e+00	-0.164	0.869611
## plotIDUFRL-02-0009	-3.735e-01	6.014e+00	-0.062	0.950474
## plotIDUFRL-02-0011	-8.144e-01	5.586e+00	-0.146	0.884084
## plotIDUFRL-02-0014	-1.655e+00	6.040e+00	-0.274	0.784087
## plotIDUFRL-02-0015	-1.330e+00	6.122e+00	-0.217	0.828007
## plotIDUFRL-02-0016	-8.800e-01	5.144e+00	-0.171	0.864155
## plotIDUFRL-02-0017	-7.441e-01	6.039e+00	-0.123	0.901940
## plotIDUFRL-02-0018	-1.620e-01	5.522e+00	-0.029	0.976602
## plotIDUFRL-02-0019	-1.290e-01	5.214e+00	-0.025	0.980256
## plotIDUFRL-02-0030	-4.211e-01	9.408e+00	-0.045	0.964305
## plotIDUFRL-02-0031	-4.164e-01	1.164e+01	-0.036	0.971461
## plotIDUFRL-02-0032	-4.781e-01	1.125e+01	-0.043	0.966087
## plotIDUFRL-02-0033	-5.481e-01	5.781e+00	-0.095	0.924469
## plotIDUFRL-02-0034	-4.226e-01	5.642e+00	-0.075	0.940299
## plotIDUFRL-02-0035	-5.579e-01	5.426e+00	-0.103	0.918100
## plotIDUFRL-02-0036	5.277e-01	3.285e+00	0.161	0.872389
## plotIDUFRL-02-0037	-1.658e-01	7.041e+00	-0.024	0.981214
## plotIDUFRL-02-0038	1.012e-01	4.601e+00	0.022	0.982456
## plotIDUFRL-02-0039	-5.880e-01	5.501e+00	-0.107	0.914875
## plotIDUFRL-02-0040	1.062e+00	7.969e+00	0.133	0.893956
## plotIDUFRL-02-0041	1.761e+00	7.596e+00	0.232	0.816691
## plotIDUFRL-02-0042	4.773e+00	8.403e+00	0.568	0.570084
## plotIDUFRL-02-0043	5.241e+00	8.116e+00	0.646	0.518430
## plotIDUFRL-02-0044	2.898e+00	6.516e+00	0.445	0.656568
## plotIDUFRL-02-0045	1.047e+00	6.480e+00	0.162	0.871699
## plotIDUFRL-02-0046	1.570e+00	6.257e+00	0.251	0.801863
## plotIDUFRL-02-0047	1.475e+00	7.887e+00	0.187	0.851613
## plotIDUFRL-02-0048	7.220e-01	7.563e+00	0.095	0.923947
## plotIDUFRL-02-0049	2.658e+00	6.591e+00	0.403	0.686685
## plotIDUFRL-02-0050	4.025e-01	5.958e+00	0.068	0.946134
## plotIDUFRL-02-0051	-2.716e-01	7.428e+00	-0.037	0.970827
## plotIDUFRL-02-0052	2.311e+00	6.868e+00	0.337	0.736478
## plotIDUFRL-02-0053	1.116e-02	5.769e+00	0.002	0.998456

## plotIDUFRL-02-0054	1.158e+00	8.346e+00	0.139	0.889685
## plotIDUFRL-02-0055	2.286e+00	7.982e+00	0.286	0.774633
## plotIDUFRL-02-0056	4.640e-01	6.875e+00	0.067	0.946196
## plotIDUFRL-02-0057	1.797e+00	6.717e+00	0.268	0.789071
## plotIDUFRL-02-0058	4.310e-01	6.641e+00	0.065	0.948259
## plotIDUFRL-02-0059	5.019e-01	6.807e+00	0.074	0.941222
## plotIDUFRL-02-0060	-1.124e+00	5.602e+00	-0.201	0.840939
## plotIDUFRL-02-0061	-5.074e-01	4.557e+00	-0.111	0.911342
## plotIDUFRL-02-0063	-8.733e-01	8.026e+00	-0.109	0.913363
## plotIDUFRL-02-0064	1.133e-02	8.070e+00	0.001	0.998880
## plotIDUFRL-02-0100	3.533e+00	1.234e+01	0.286	0.774622
## plotIDUFRL-02-0101	1.261e+00	1.260e+01	0.100	0.920309
## plotIDUFRL-02-0102	2.639e-01	1.285e+01	0.021	0.983622
## plotIDUFRL-02-0103	6.335e-01	1.283e+01	0.049	0.960624
## plotIDUFRL-02-0104	-5.250e-01	1.296e+01	-0.041	0.967682
## plotIDUFRL-02-0105	6.761e-01	1.266e+01	0.053	0.957427
## plotIDUFRL-02-0106	2.897e+00	1.260e+01	0.230	0.818129
## plotIDUFRL-02-0107	-2.049e-01	1.270e+01	-0.016	0.987127
## plotIDUFRL-02-0108	1.442e+00	1.284e+01	0.112	0.910562
## plotIDUFRL-02-0109	5.453e-01	1.204e+01	0.045	0.963894
## plotIDUFRL-02-0110	1.495e-01	1.224e+01	0.012	0.990255
## plotIDUFRL-02-0111	5.515e-01	1.223e+01	0.045	0.964040
## plotIDUFRL-02-0112	2.251e-01	1.240e+01	0.018	0.985515
## plotIDUFRL-02-0113	1.900e-01	1.192e+01	0.016	0.987279
## plotIDUFRL-02-0114	6.390e-01	1.192e+01	0.054	0.957252
## plotIDUFRL-02-0115	1.248e+00	1.196e+01	0.104	0.916840
## plotIDUFRL-02-0116	2.753e-01	1.363e+01	0.020	0.983890
## plotIDUFRL-02-0117	-1.012e+00	1.387e+01	-0.073	0.941808
## plotIDUFRL-02-0118	-1.716e-01	1.340e+01	-0.013	0.989786
## plotIDUFRL-02-0119	1.697e-01	1.351e+01	0.013	0.989977
## plotIDUFRL-02-0120	2.320e-01	1.299e+01	0.018	0.985753
## plotIDUFRL-02-0121	8.067e-01	1.292e+01	0.062	0.950207
## plotIDUFRL-02-0122	-3.407e-01	1.304e+01	-0.026	0.979158
## plotIDUFRL-02-0123	1.342e+00	1.291e+01	0.104	0.917242
## plotIDUFRL-02-0124	9.344e-01	1.314e+01	0.071	0.943297
## plotIDUFRL-02-0125	4.970e-01	1.305e+01	0.038	0.969626
## plotIDUFRL-02-0126	-2.077e-01	1.426e+01	-0.015	0.988382
## plotIDUFRL-02-0127	8.980e-01	1.411e+01	0.064	0.949266
## plotIDUFRL-02-0128	1.021e+00	1.502e+01	0.068	0.945801
## plotIDUFRL-02-0129	4.000e-01	1.362e+01	0.029	0.976569
## plotIDUFRL-02-0130	9.610e-01	1.517e+01	0.063	0.949503
## plotIDUFRL-02-0131	1.306e+00	1.354e+01	0.096	0.923158
## plotIDUFRL-02-0132	2.495e+00	1.568e+01	0.159	0.873616
## plotIDUFRL-02-0133	-8.234e-02	1.528e+01	-0.005	0.995701
## plotIDUFRL-02-0134	2.495e+00	1.557e+01	0.160	0.872751
## plotIDUFRL-02-0135	2.257e+00	1.522e+01	0.148	0.882113
## plotIDUFRL-02-0136	4.447e-01	1.496e+01	0.030	0.976286
## plotIDUFRL-02-0137	6.277e-01	1.496e+01	0.042	0.966545
## plotIDUFRL-02-0138	1.863e+00	1.481e+01	0.126	0.899877
## plotIDUFRL-02-0139	1.006e+00	1.602e+01	0.063	0.949951
## plotIDUFRL-02-0140	2.961e+00	1.578e+01	0.188	0.851136
## plotIDUFRL-02-0141	2.757e+00	1.578e+01	0.175	0.861283
## plotIDUFRL-02-0142	-9.691e-03	1.515e+01	-0.001	0.999490
## plotIDUFRL-02-0143	7.904e-01	1.454e+01	0.054	0.956658

## plotIDUFRL-02-0144	6.509e-01	1.433e+01	0.045	0.963769
## plotIDUFRL-02-0145	8.916e-01	1.483e+01	0.060	0.952055
## plotIDUFRL-02-0146	6.698e-01	1.562e+01	0.043	0.965790
## plotIDUFRL-02-0147	1.961e+00	1.580e+01	0.124	0.901256
## plotIDUFRL-02-0148	3.604e-01	1.536e+01	0.023	0.981281
## plotIDUFRL-02-0149	9.860e-02	1.582e+01	0.006	0.995028
## plotIDUFRL-02-0150	6.654e-01	1.545e+01	0.043	0.965644
## plotIDUFRL-02-0151	1.611e+00	1.544e+01	0.104	0.916857
## plotIDUFRL-02-0152	7.915e-02	1.158e+01	0.007	0.994546
## plotIDUFRL-02-0153	-4.777e-01	1.172e+01	-0.041	0.967504
## plotIDUFRL-02-0154	9.648e-02	1.137e+01	0.008	0.993230
## plotIDUFRL-02-0155	7.116e-01	1.146e+01	0.062	0.950489
## plotIDUFRL-02-0156	1.325e-01	1.119e+01	0.012	0.990554
## plotIDUFRL-02-0157	1.281e-01	1.117e+01	0.011	0.990843
## plotIDUFRL-02-0158	1.362e-01	1.162e+01	0.012	0.990649
## plotIDUFRL-02-0159	3.571e-02	1.125e+01	0.003	0.997466
## plotIDUFRL-02-0160	8.884e-02	1.123e+01	0.008	0.993689
## plotIDUFRL-02-0161	-1.968e-01	1.178e+01	-0.017	0.986672
## plotIDUFRL-02-0162	6.849e-01	1.164e+01	0.059	0.953073
## plotIDUFRL-02-0163	7.434e-01	1.159e+01	0.064	0.948850
## plotIDUFRL-02-0164	1.792e-01	1.171e+01	0.015	0.987786
## plotIDUFRL-02-0165	2.107e-01	1.199e+01	0.018	0.985975
## plotIDUFRL-02-0166	8.930e-02	1.213e+01	0.007	0.994124
## plotIDUFRL-02-0167	-3.356e-01	1.232e+01	-0.027	0.978274
## plotIDUFRL-02-0176	-1.289e+00	5.790e+00	-0.223	0.823806
## plotIDUFRL-02-0177	-5.391e-01	4.849e+00	-0.111	0.911474
## plotIDUFRL-02-0178	-1.045e+00	8.955e+00	-0.117	0.907088
## plotIDUFRL-02-0999	-1.454e+00	5.526e+00	-0.263	0.792487
## plotIDUFRL-03-0001	3.179e-01	3.428e+00	0.093	0.926111
## plotIDUFRL-03-0002	1.991e+00	2.862e+00	0.696	0.486616
## plotIDUFRL-03-0003	2.813e+00	2.805e+00	1.003	0.315973
## plotIDUFRL-03-0004	1.013e+00	3.339e+00	0.303	0.761600
## plotIDUFRL-03-0005	1.020e+00	2.693e+00	0.379	0.704815
## plotIDUFRL-03-0006	3.717e+00	4.148e+00	0.896	0.370259
## plotIDUFRL-03-0007	4.491e+00	4.070e+00	1.104	0.269787
## plotIDUFRL-03-0008	2.317e+00	4.221e+00	0.549	0.583072
## plotIDUFRL-03-0009	1.510e+00	4.121e+00	0.366	0.714017
## plotIDUFRL-03-0010	2.194e+00	3.781e+00	0.580	0.561774
## plotIDUFRL-03-0011	3.257e+00	5.099e+00	0.639	0.522977
## plotIDUFRL-03-0012	3.257e+00	5.044e+00	0.646	0.518524
## plotIDUFRL-03-0013	1.306e+00	4.884e+00	0.267	0.789159
## plotIDUFRL-03-0014	1.228e+00	3.606e+00	0.341	0.733457
## plotIDUFRL-03-0015	1.284e+00	4.695e+00	0.273	0.784508
## plotIDUFRL-03-0016	5.895e-01	4.769e+00	0.124	0.901631
## plotIDUFRL-03-0017	1.085e+00	3.263e+00	0.332	0.739572
## plotIDUFRL-03-0018	4.985e-01	3.252e+00	0.153	0.878161
## plotIDUFRL-03-0019	1.370e-01	2.697e+00	0.051	0.959477
## plotIDUFRL-03-0020	-1.986e-01	2.811e+00	-0.071	0.943671
## plotIDUFRL-03-0021	-2.585e-01	3.644e+00	-0.071	0.943454
## plotIDUFRL-03-0022	1.339e+00	4.061e+00	0.330	0.741515
## plotIDUFRL-03-0023	7.876e-01	3.834e+00	0.205	0.837220
## plotIDUFRL-03-0024	1.540e+00	3.702e+00	0.416	0.677353
## plotIDUFRL-03-0025	2.669e+00	3.660e+00	0.729	0.465894
## plotIDUFRL-03-0026	1.575e+00	3.521e+00	0.447	0.654738

## plotIDUFRL-03-0027	1.463e+00	3.275e+00	0.447	0.655185
## plotIDUFRL-03-0028	2.444e+00	2.982e+00	0.819	0.412560
## plotIDUFRL-03-0029	2.479e+00	3.282e+00	0.755	0.450049
## plotIDUFRL-04-00A1	1.966e-02	1.447e+01	0.001	0.998916
## plotIDUFRL-05-0001	-1.641e+00	5.282e+00	-0.311	0.756081
## plotIDUFRL-05-0002	-1.140e+00	5.126e+00	-0.222	0.823958
## plotIDUFRL-05-0003	-4.524e-01	5.052e+00	-0.090	0.928638
## plotIDUFRL-05-0131	2.213e-01	2.555e+00	0.087	0.930974
## plotIDUFRL-05-0132	1.577e-02	2.521e+00	0.006	0.995009
## plotIDUFRL-05-0144	5.826e-01	1.774e+00	0.328	0.742636
## plotIDUFRL-05-0145	1.396e-01	1.951e+00	0.072	0.942942
## plotIDUFRL-05-0146	8.150e-02	1.772e+00	0.046	0.963312
## plotIDUFRL-05-0147	7.243e-02	1.993e+00	0.036	0.971005
## plotIDUFRL-05-0148	3.601e-01	1.905e+00	0.189	0.850083
## plotIDUFRL-05-0149	3.042e-01	1.803e+00	0.169	0.866008
## plotIDUFRL-05-0150	4.440e-01	1.754e+00	0.253	0.800197
## plotIDUFRL-05-0151	5.957e-01	1.745e+00	0.341	0.732817
## plotIDUFRL-05-0152	5.829e-01	1.795e+00	0.325	0.745373
## plotIDUFRL-05-0153	5.170e-01	2.120e+00	0.244	0.807338
## plotIDUFRL-05-0157	1.163e-01	1.804e+00	0.064	0.948581
## plotIDUFRL-05-0158	4.963e-01	1.728e+00	0.287	0.773989
## plotIDUFRL-05-0159	2.747e-01	1.641e+00	0.167	0.867104
## plotIDUFRL-06-0133	3.648e+00	1.433e+01	0.255	0.798999
## plotIDUFRL-06-0134	3.091e+00	1.456e+01	0.212	0.831913
## plotIDUFRL-06-0135	2.557e+00	1.438e+01	0.178	0.858865
## plotIDUFRL-06-0136	3.528e+00	1.446e+01	0.244	0.807240
## plotIDUFRL-06-0137	3.028e+00	1.477e+01	0.205	0.837539
## plotIDUFRL-06-0138	1.210e+00	1.442e+01	0.084	0.933128
## plotIDUFRL-06-0139	3.779e+00	1.445e+01	0.262	0.793652
## plotIDUFRL-2A-0142	2.287e-01	3.387e+00	0.068	0.946168
## plotIDUFRL-2A-0143	3.630e-03	3.294e+00	0.001	0.999121
## plotIDULRY-04-0001	-5.583e-01	9.569e+00	-0.058	0.953473
## plotIDULRY-04-0002	-7.195e-01	1.307e+01	-0.055	0.956086
## plotIDULRY-04-0003	7.318e-01	1.739e+01	0.042	0.966432
## plotIDULRY-04-0004	6.510e-01	1.886e+01	0.035	0.972464
## plotIDULRY-04-0005	1.303e-01	1.617e+01	0.008	0.993568
## plotIDULRY-04-0006	-6.847e-01	1.647e+01	-0.042	0.966840
## plotIDULRY-04-0007	-2.325e-01	1.175e+01	-0.020	0.984214
## plotIDULRY-04-0008	3.388e+00	1.178e+01	0.288	0.773617
## plotIDULRY-04-0009	9.213e-01	1.590e+01	0.058	0.953808
## plotIDULRY-04-0010	1.349e+00	1.506e+01	0.090	0.928616
## plotIDULRY-04-0011	5.471e-01	1.577e+01	0.035	0.972326
## plotIDULRY-04-0012	2.239e+00	1.591e+01	0.141	0.888052
## plotIDULRY-04-0013	2.731e+00	1.524e+01	0.179	0.857823
## plotIDULRY-04-0014	9.664e-01	1.436e+01	0.067	0.946344
## plotIDULRY-04-0015	-5.234e-01	1.493e+01	-0.035	0.972037
## plotIDULRY-04-0016	9.869e-01	1.493e+01	0.066	0.947308
## plotIDULRY-04-0017	3.298e+00	1.204e+01	0.274	0.784187
## plotIDULRY-04-0018	1.133e+00	1.346e+01	0.084	0.932898
## plotIDULRY-04-0019	1.842e+00	1.346e+01	0.137	0.891184
## plotIDULRY-04-0020	4.541e-01	2.136e+01	0.021	0.983038
## plotIDULRY-04-0021	3.525e-01	1.927e+01	0.018	0.985406
## plotIDULRY-04-0022	5.634e-02	1.860e+01	0.003	0.997583
## plotIDULRY-04-0023	2.042e+00	2.190e+01	0.093	0.925711

## plotIDULRY-04-0024	2.589e+00	1.455e+01	0.178	0.858770
## plotIDULRY-04-0025	2.589e+00	1.420e+01	0.182	0.855374
## plotIDULRY-04-0026	2.589e+00	1.429e+01	0.181	0.856203
## plotIDULRY-04-0027	6.515e-01	9.753e+00	0.067	0.946739
## plotIDULRY-04-0028	4.018e+00	1.137e+01	0.353	0.723761
## plotIDULRY-04-0029	4.863e-01	1.020e+01	0.048	0.961969
## plotIDULRY-04-0030	2.679e+00	1.066e+01	0.251	0.801599
## plotIDULRY-04-0031	9.091e-01	9.572e+00	0.095	0.924333
## plotIDULRY-04-0032	9.405e-01	9.811e+00	0.096	0.923634
## plotIDULRY-04-0033	2.506e+00	1.045e+01	0.240	0.810416
## plotIDULRY-04-0034	1.144e+00	5.465e+00	0.209	0.834187
## plotIDULRY-04-0035	8.082e-01	5.547e+00	0.146	0.884162
## plotIDULRY-04-0036	1.272e+00	4.163e+00	0.306	0.759954
## plotIDULRY-04-0037	1.026e+00	5.816e+00	0.176	0.860007
## plotIDULRY-04-0038	1.264e+00	5.538e+00	0.228	0.819456
## plotIDULRY-04-0039	1.090e+00	4.203e+00	0.259	0.795293
## plotIDULRY-04-0040	9.045e-01	6.275e+00	0.144	0.885379
## plotIDULRY-04-0041	8.093e-01	6.581e+00	0.123	0.902117
## plotIDULRY-04-0042	4.159e-01	1.234e+01	0.034	0.973118
## plotIDULRY-04-0043	1.517e+00	1.197e+01	0.127	0.899162
## plotIDULRY-04-0044	2.043e+00	1.568e+01	0.130	0.896375
## plotIDULRY-04-0045	1.478e+00	1.503e+01	0.098	0.921683
## plotIDULRY-04-0046	7.773e-01	1.317e+01	0.059	0.952924
## plotIDULRY-04-0047	8.908e-01	1.389e+01	0.064	0.948875
## plotIDULRY-04-0048	1.205e+00	1.423e+01	0.085	0.932497
## plotIDULRY-04-0049	3.669e+00	1.545e+01	0.237	0.812341
## plotIDULRY-04-0050	1.052e+00	1.374e+01	0.077	0.938970
## plotIDULRY-04-0051	1.584e+00	1.105e+01	0.143	0.885935
## plotIDULRY-04-0052	5.562e-01	1.178e+01	0.047	0.962329
## plotIDULRY-04-0053	7.390e-01	1.166e+01	0.063	0.949485
## plotIDULRY-04-0054	3.012e-01	1.118e+01	0.027	0.978505
## plotIDULRY-04-0055	3.598e-01	1.103e+01	0.033	0.973975
## plotIDULRY-04-0056	2.298e+00	1.053e+01	0.218	0.827262
## plotIDULRY-04-0057	1.870e+00	1.025e+01	0.183	0.855175
## plotIDULRY-04-0058	2.342e+00	9.974e+00	0.235	0.814376
## plotIDULRY-04-0059	1.782e+00	7.925e+00	0.225	0.822098
## plotIDULRY-04-0060	9.028e-01	6.410e+00	0.141	0.887997
## plotIDULRY-04-0061	5.121e+00	1.588e+01	0.323	0.747046
## plotIDULRY-04-0063	1.062e+00	1.558e+01	0.068	0.945655
## plotIDULRY-04-0064	8.523e-01	2.021e+01	0.042	0.966359
## plotIDULRY-04-0065	9.843e-01	2.040e+01	0.048	0.961513
## plotIDULRY-04-0066	1.613e+00	2.169e+01	0.074	0.940713
## plotIDULRY-04-0067	5.014e+00	2.149e+01	0.233	0.815510
## plotIDULRY-04-0068	-2.782e+00	2.193e+01	-0.127	0.899068
## plotIDULRY-04-0069	7.020e-01	2.198e+01	0.032	0.974524
## plotIDULRY-04-0070	3.700e+00	1.277e+01	0.290	0.772047
## plotIDULRY-04-0071	-1.627e+00	1.246e+01	-0.131	0.896132
## plotIDULRY-04-0072	3.053e+00	1.272e+01	0.240	0.810353
## plotIDULRY-04-0073	-8.324e-01	1.649e+01	-0.050	0.959749
## plotIDULRY-04-0075	3.860e-01	1.558e+01	0.025	0.980238
## plotIDULRY-04-0076	-1.471e-01	1.276e+01	-0.012	0.990801
## plotIDULRY-04-0077	3.233e+00	1.284e+01	0.252	0.801278
## plotIDULRY-04-0078	1.625e+00	1.213e+01	0.134	0.893406
## plotIDULRY-04-0079	5.318e-01	1.917e+01	0.028	0.977874

## plotIDULRY-04-0080	5.370e-01	2.020e+01	0.027	0.978793
## plotIDULRY-04-0082	4.636e-01	2.219e+01	0.021	0.983328
## plotIDULRY-04-0083	-8.471e-01	1.725e+01	-0.049	0.960838
## plotIDULRY-04-0084	4.875e-01	1.739e+01	0.028	0.977639
## plotIDULRY-04-0085	1.427e-01	2.306e+01	0.006	0.995062
## plotIDULRY-04-0086	2.531e-01	2.268e+01	0.011	0.991097
## plotIDULRY-04-0087	9.430e-01	1.695e+01	0.056	0.955639
## plotIDULRY-04-0088	-4.083e-01	5.332e+00	-0.077	0.938965
## plotIDULRY-04-0089	1.355e+00	8.585e+00	0.158	0.874602
## plotIDULRY-04-0090	-6.257e-01	1.405e+01	-0.045	0.964467
## plotIDULRY-04-0091	-1.626e+00	1.404e+01	-0.116	0.907827
## plotIDULRY-04-0092	2.374e+00	1.436e+01	0.165	0.868635
## plotIDULRY-04-0095	2.366e+00	1.440e+01	0.164	0.869460
## plotIDULRY-04-0096	-1.634e+00	1.472e+01	-0.111	0.911644
## plotIDULRY-04-0097	-2.225e+00	1.468e+01	-0.152	0.879521
## plotIDULRY-04-0098	9.220e-01	1.450e+01	0.064	0.949289
## plotIDULRY-04-0099	2.225e-01	2.096e+01	0.011	0.991529
## plotIDULRY-04-0100	1.239e+00	2.079e+01	0.060	0.952479
## plotIDULRY-04-0101	2.375e+00	7.797e+00	0.305	0.760674
## plotIDULRY-04-0102	-4.836e-01	8.114e+00	-0.060	0.952472
## plotIDULRY-04-0103	6.355e-01	1.966e+01	0.032	0.974212
## plotIDULRY-04-0104	-1.799e-01	1.346e+01	-0.013	0.989340
## plotIDULRY-04-0106	8.149e-01	1.364e+01	0.060	0.952364
## plotIDULRY-04-0107	3.388e+00	1.160e+01	0.292	0.770294
## plotIDULRY-04-0108	1.675e-01	1.100e+01	0.015	0.987851
## plotIDULRY-04-0109	7.973e-01	1.433e+01	0.056	0.955641
## plotIDULRY-04-0110	2.168e+00	1.448e+01	0.150	0.881042
## plotIDULRY-04-0111	8.637e-01	1.430e+01	0.060	0.951851
## plotIDULRY-04-0112	6.881e-01	2.148e+01	0.032	0.974445
## plotIDULRY-04-0113	-3.139e+00	2.205e+01	-0.142	0.886784
## plotIDULRY-04-0114	1.654e+00	1.504e+01	0.110	0.912445
## plotIDULRY-04-0116	2.244e+00	1.096e+01	0.205	0.837829
## plotIDULRY-04-0117	2.719e+00	1.157e+01	0.235	0.814263
## plotIDULRY-04-0118	7.091e-01	2.318e+01	0.031	0.975600
## plotIDULRY-04-0119	6.643e-01	1.174e+01	0.057	0.954870
## plotIDULRY-04-0120	1.038e+00	1.192e+01	0.087	0.930634
## plotIDULRY-04-0121	6.071e-01	1.040e+01	0.058	0.953471
## plotIDULRY-04-0122	-7.497e-01	1.026e+01	-0.073	0.941744
## plotIDULRY-04-0123	2.052e+00	1.014e+01	0.202	0.839605
## plotIDULRY-04-0124	3.385e-01	1.198e+01	0.028	0.977463
## plotIDULRY-04-0125	1.410e+00	1.177e+01	0.120	0.904670
## plotIDULRY-04-0126	-3.135e-01	1.159e+01	-0.027	0.978422
## plotIDULRY-04-0127	8.281e-01	1.376e+01	0.060	0.952025
## plotIDULRY-04-0128	1.987e+00	1.342e+01	0.148	0.882327
## plotIDULRY-04-0129	3.210e-01	1.337e+01	0.024	0.980848
## plotIDULRY-04-0130	-1.503e-01	1.897e+01	-0.008	0.993677
## plotIDULRY-04-0131	-1.117e+00	1.905e+01	-0.059	0.953250
## plotIDULRY-04-0132	-5.752e-01	1.904e+01	-0.030	0.975905
## plotIDULRY-04-0133	3.242e+00	1.122e+01	0.289	0.772688
## plotIDULRY-04-0134	1.122e+00	1.116e+01	0.101	0.919934
## plotIDULRY-04-0135	-7.522e-01	1.198e+01	-0.063	0.949923
## plotIDULRY-04-0136	2.766e+00	1.152e+01	0.240	0.810266
## plotIDULRY-04-0137	1.399e+00	1.171e+01	0.119	0.904912
## plotIDULRY-04-0138	-1.424e-01	1.710e+01	-0.008	0.993359

## plotIDULRY-04-0139	-1.451e+00	1.751e+01	-0.083	0.933986
## plotIDULRY-04-0140	9.618e-01	1.638e+01	0.059	0.953177
## plotIDULRY-04-0142	2.255e+00	1.542e+01	0.146	0.883690
## plotIDULRY-04-0143	2.326e+00	1.490e+01	0.156	0.875979
## plotIDULRY-04-0144	1.589e+00	1.464e+01	0.109	0.913573
## plotIDULRY-04-0145	2.589e+00	1.397e+01	0.185	0.852983
## plotIDULRY-04-0147	1.874e+00	1.476e+01	0.127	0.898949
## plotIDULRY-04-0148	2.148e+00	1.430e+01	0.150	0.880611
## plotIDULRY-04-0149	3.149e-01	1.463e+01	0.022	0.982826
## plotIDULRY-04-0151	-9.825e-01	1.308e+01	-0.075	0.940127
## plotIDULRY-04-0152	2.081e+00	1.251e+01	0.166	0.867911
## plotIDULRY-04-0153	-1.725e+00	1.258e+01	-0.137	0.890968
## plotIDULRY-04-0154	5.382e+00	1.357e+01	0.397	0.691556
## plotIDULRY-04-0155	2.589e+00	1.402e+01	0.185	0.853478
## plotIDULRY-04-0157	1.381e+00	1.236e+01	0.112	0.911007
## plotIDULRY-04-0158	2.922e+00	1.461e+01	0.200	0.841514
## plotIDULRY-04-0160	-6.387e-01	1.124e+01	-0.057	0.954704
## plotIDULRY-05-0200	7.120e-01	5.261e+00	0.135	0.892352
## plotIDULRY-05-0201	1.952e+00	4.839e+00	0.404	0.686578
## plotIDULRY-05-0202	2.162e-01	8.603e+00	0.025	0.979948
## plotIDULRY-05-0204	2.235e+00	8.653e+00	0.258	0.796222
## plotIDULRY-05-0205	8.383e-01	8.556e+00	0.098	0.921947
## plotIDULRY-05-0206	4.059e-01	3.406e+00	0.119	0.905142
## plotIDULRY-05-0207	3.242e+00	2.930e+00	1.106	0.268560
## plotIDULRY-05-0208	1.691e+00	8.303e+00	0.204	0.838576
## plotIDULRY-05-0209	1.984e+00	8.085e+00	0.245	0.806139
## plotIDULRY-05-0210	2.222e+00	8.237e+00	0.270	0.787315
## plotIDULRY-05-0211	9.611e-01	5.761e+00	0.167	0.867507
## plotIDULRY-05-0212	1.305e+00	6.959e+00	0.188	0.851213
## plotIDULRY-05-0213	5.359e-01	8.362e+00	0.064	0.948898
## plotIDULRY-05-0214	1.543e+00	8.268e+00	0.187	0.851923
## plotIDULRY-05-0215	5.332e-01	8.710e+00	0.061	0.951186
## plotIDULRY-05-0216	8.088e-01	1.074e+01	0.075	0.939989
## plotIDULRY-05-0217	1.474e+00	1.066e+01	0.138	0.890080
## plotIDULRY-05-0218	9.456e-01	1.081e+01	0.087	0.930289
## plotIDULRY-05-0219	1.203e+00	5.962e+00	0.202	0.840131
## plotIDULRY-05-0220	2.470e+00	6.623e+00	0.373	0.709167
## plotIDULRY-05-0221	1.927e+00	6.735e+00	0.286	0.774838
## plotIDULRY-05-0222	1.627e+00	6.552e+00	0.248	0.803927
## plotIDULRY-05-0224	4.424e-01	8.232e+00	0.054	0.957140
## plotIDULRY-05-0225	1.742e+00	8.090e+00	0.215	0.829522
## plotIDULRY-05-0226	5.196e-01	4.792e+00	0.108	0.913660
## plotIDULRY-05-0227	1.468e+00	4.506e+00	0.326	0.744665
## plotIDULRY-05-0228	2.001e+00	8.252e+00	0.242	0.808408
## plotIDULRY-05-0231	1.167e+00	8.172e+00	0.143	0.886429
## plotIDULRY-05-0232	2.570e+00	7.977e+00	0.322	0.747308
## plotIDULRY-05-0234	1.632e+00	9.759e+00	0.167	0.867210
## plotIDULRY-05-0235	1.033e+00	9.117e+00	0.113	0.909784
## plotIDULRY-05-0236	1.393e+00	5.965e+00	0.234	0.815298
## plotIDULRY-05-0237	1.889e+00	5.287e+00	0.357	0.720946
## plotIDULRY-05-0238	2.807e+00	4.095e+00	0.685	0.493165
## plotIDULRY-05-0239	2.816e+00	5.075e+00	0.555	0.579023
## plotIDULRY-05-0240	9.051e-01	8.015e+00	0.113	0.910097
## plotIDULRY-05-0241	-1.253e+00	3.479e+00	-0.360	0.718774

## plotIDULRY-05-0242	2.123e+00	8.549e+00	0.248	0.803861
## plotIDULRY-05-0244	3.613e-01	8.093e+00	0.045	0.964396
## plotIDULRY-05-0245	1.233e+00	1.240e+01	0.099	0.920804
## plotIDULRY-05-0246	3.641e-01	1.267e+01	0.029	0.977071
## plotIDULRY-05-0248	-2.711e+00	1.590e+01	-0.171	0.864595
## plotIDULRY-05-0249	2.412e+00	1.841e+01	0.131	0.895719
## plotIDULRY-05-0250	1.179e-01	1.537e+01	0.008	0.993879
## plotIDULRY-05-0251	5.018e+00	1.472e+01	0.341	0.733202
## plotIDULRY-05-0252	1.621e+00	1.359e+01	0.119	0.905051
## plotIDULRY-05-0253	1.371e+00	1.357e+01	0.101	0.919537
## plotIDULRY-05-0254	1.874e+00	1.306e+01	0.143	0.885941
## plotIDULRY-05-0255	1.098e+00	1.267e+01	0.087	0.930984
## plotIDULRY-05-0256	6.439e-01	1.410e+01	0.046	0.963591
## plotIDULRY-05-0257	2.434e+00	1.455e+01	0.167	0.867143
## plotIDULRY-05-0258	1.750e+00	1.580e+01	0.111	0.911787
## plotIDULRY-05-0259	1.463e+00	1.575e+01	0.093	0.925984
## plotIDULRY-05-0260	2.537e+00	1.487e+01	0.171	0.864501
## plotIDULRY-05-0261	1.778e+00	1.077e+01	0.165	0.868856
## plotIDULRY-05-0262	1.192e+00	1.156e+01	0.103	0.917891
## plotIDULRY-05-0263	1.300e+00	1.120e+01	0.116	0.907576
## plotIDULRY-05-0264	6.303e-01	8.473e+00	0.074	0.940696
## plotIDULRY-05-0265	1.219e+00	8.946e+00	0.136	0.891644
## plotIDULRY-05-0266	9.097e-01	8.422e+00	0.108	0.913982
## plotIDWHCA-01-0050	1.354e-01	9.006e+00	0.015	0.988008
## plotIDWHCA-01-0051	1.215e+00	8.877e+00	0.137	0.891175
## plotIDWHCA-01-0055	9.131e-01	6.346e+00	0.144	0.885587
## plotIDWHCA-01-0056	-2.936e-01	6.203e+00	-0.047	0.962248
## plotIDWHCA-01-0057	3.989e-01	6.409e+00	0.062	0.950370
## plotIDWHCA-01-0058	2.599e-01	6.038e+00	0.043	0.965665
## plotIDWHCA-01-0059	3.437e-01	9.484e+00	0.036	0.971092
## plotIDWHCA-01-0060	6.809e-01	9.404e+00	0.072	0.942281
## plotIDWHCA-01-0061	3.080e-01	9.653e+00	0.032	0.974549
## plotIDWHCA-01-0062	6.471e-01	9.457e+00	0.068	0.945448
## plotIDWHCA-01-0063	1.318e+00	9.603e+00	0.137	0.890822
## plotIDWHCA-01-0064	9.166e-01	1.253e+01	0.073	0.941676
## plotIDWHCA-01-0065	3.743e-01	1.235e+01	0.030	0.975828
## plotIDWHCA-01-0066	1.762e+00	1.237e+01	0.142	0.886758
## plotIDWHCA-01-0070	-5.722e-01	9.964e+00	-0.057	0.954204
## plotIDWHCA-01-0071	6.778e-01	9.918e+00	0.068	0.945519
## plotIDWHCA-01-0072	3.995e-01	1.004e+01	0.040	0.968275
## plotIDWHCA-01-0074	-2.261e-01	9.916e+00	-0.023	0.981807
## plotIDWHCA-01-0075	-2.653e-01	9.967e+00	-0.027	0.978766
## plotIDWHCA-02-0040	1.119e+00	7.941e+00	0.141	0.887932
## plotIDWHCA-02-0042	1.580e+00	8.368e+00	0.189	0.850276
## plotIDWHCA-02-0043	2.298e+00	8.105e+00	0.284	0.776799
## plotIDWHCA-02-0044	-2.157e+00	6.510e+00	-0.331	0.740434
## plotIDWHCA-02-0045	-6.466e-01	6.468e+00	-0.100	0.920369
## plotIDWHCA-02-0046	1.627e+00	6.251e+00	0.260	0.794654
## plotIDWHCA-02-0047	1.532e+00	7.859e+00	0.195	0.845432
## plotIDWHCA-02-0048	7.788e-01	7.558e+00	0.103	0.917936
## plotIDWHCA-02-0049	3.152e-01	6.503e+00	0.048	0.961339
## plotIDWHCA-02-0050	4.593e-01	5.920e+00	0.078	0.938162
## plotIDWHCA-02-0052	6.407e-01	6.879e+00	0.093	0.925798
## plotIDWHCA-02-0053	6.796e-02	5.729e+00	0.012	0.990537

## plotIDWHCA-02-0054	-1.728e-01	8.257e+00	-0.021	0.983302
## plotIDWHCA-02-0055	3.423e-01	7.897e+00	0.043	0.965423
## plotIDWHCA-02-0056	5.208e-01	6.843e+00	0.076	0.939335
## plotIDWHCA-02-0057	7.288e-01	6.720e+00	0.108	0.913646
## plotIDWHCA-02-0059	5.587e-01	6.797e+00	0.082	0.934490
## plotIDWHCA-02-0100	1.408e+00	1.232e+01	0.114	0.909040
## plotIDWHCA-02-0101	7.924e-02	1.250e+01	0.006	0.994944
## plotIDWHCA-02-0102	3.047e-01	1.284e+01	0.024	0.981062
## plotIDWHCA-02-0103	6.744e-01	1.282e+01	0.053	0.958051
## plotIDWHCA-02-0104	-4.842e-01	1.295e+01	-0.037	0.970174
## plotIDWHCA-02-0105	-1.719e-01	1.262e+01	-0.014	0.989128
## plotIDWHCA-02-0106	7.558e-01	1.259e+01	0.060	0.952134
## plotIDWHCA-02-0107	-1.640e-01	1.269e+01	-0.013	0.989686
## plotIDWHCA-02-0108	-2.095e-01	1.284e+01	-0.016	0.986980
## plotIDWHCA-02-0109	2.861e-01	1.204e+01	0.024	0.981033
## plotIDWHCA-02-0110	3.904e-01	1.225e+01	0.032	0.974576
## plotIDWHCA-02-0111	5.924e-01	1.222e+01	0.048	0.961345
## plotIDWHCA-02-0112	2.660e-01	1.239e+01	0.021	0.982871
## plotIDWHCA-02-0113	2.309e-01	1.191e+01	0.019	0.984528
## plotIDWHCA-02-0114	8.799e-01	1.188e+01	0.074	0.940980
## plotIDWHCA-02-0115	1.380e+00	1.189e+01	0.116	0.907621
## plotIDWHCA-02-0116	1.946e+00	1.361e+01	0.143	0.886278
## plotIDWHCA-02-0120	2.728e-01	1.298e+01	0.021	0.983231
## plotIDWHCA-02-0121	8.475e-01	1.291e+01	0.066	0.947645
## plotIDWHCA-02-0122	-2.999e-01	1.303e+01	-0.023	0.981643
## plotIDWHCA-02-0124	9.753e-01	1.313e+01	0.074	0.940773
## plotIDWHCA-02-0125	5.379e-01	1.304e+01	0.041	0.967103
## plotIDWHCA-02-0126	-1.668e-01	1.425e+01	-0.012	0.990663
## plotIDWHCA-02-0127	9.647e-01	1.411e+01	0.068	0.945501
## plotIDWHCA-02-0128	1.062e+00	1.501e+01	0.071	0.943604
## plotIDWHCA-02-0129	5.408e-01	1.299e+01	0.042	0.966781
## plotIDWHCA-02-0130	1.002e+00	1.512e+01	0.066	0.947155
## plotIDWHCA-02-0131	1.347e+00	1.353e+01	0.100	0.920704
## plotIDWHCA-02-0132	2.798e+00	1.553e+01	0.180	0.856991
## plotIDWHCA-02-0133	-3.748e-01	1.526e+01	-0.025	0.980404
## plotIDWHCA-02-0134	2.298e+00	1.561e+01	0.147	0.882945
## plotIDWHCA-02-0141	2.798e+00	1.577e+01	0.177	0.859177
## plotIDWHCA-02-0142	1.390e-01	1.496e+01	0.009	0.992591
## plotIDWHCA-02-0143	8.250e-01	1.453e+01	0.057	0.954714
## plotIDWHCA-02-0144	9.964e-01	1.435e+01	0.069	0.944656
## plotIDWHCA-02-0145	4.924e-01	1.482e+01	0.033	0.973486
## plotIDWHCA-02-0146	4.157e-01	1.562e+01	0.027	0.978772
## plotIDWHCA-02-0147	2.002e+00	1.580e+01	0.127	0.899153
## plotIDWHCA-02-0148	4.013e-01	1.535e+01	0.026	0.979146
## plotIDWHCA-02-0149	1.395e-01	1.579e+01	0.009	0.992955
## plotIDWHCA-02-0150	7.063e-01	1.544e+01	0.046	0.963514
## plotIDWHCA-02-0151	1.652e+00	1.542e+01	0.107	0.914680
## plotIDWHCA-02-0161	-1.559e-01	1.177e+01	-0.013	0.989430
## plotIDWHCA-02-0162	7.258e-01	1.163e+01	0.062	0.950226
## plotIDWHCA-02-0163	7.842e-01	1.158e+01	0.068	0.945987
## plotIDWHCA-02-0164	2.201e-01	1.169e+01	0.019	0.984976
## plotIDWHCA-03-0002	2.141e-01	2.812e+00	0.076	0.939328
## plotIDWHCA-03-0003	5.203e-01	2.740e+00	0.190	0.849411
## plotIDWHCA-03-0004	1.054e+00	3.297e+00	0.320	0.749205

## plotIDWHCA-03-0005	1.061e+00	2.640e+00	0.402	0.687753
## plotIDWHCA-03-0006	9.578e-01	4.114e+00	0.233	0.815904
## plotIDWHCA-03-0007	1.532e+00	4.027e+00	0.381	0.703580
## plotIDWHCA-03-0008	1.929e+00	4.132e+00	0.467	0.640577
## plotIDWHCA-03-0009	1.551e+00	4.087e+00	0.380	0.704305
## plotIDWHCA-03-0010	1.092e+00	3.737e+00	0.292	0.770104
## plotIDWHCA-03-0011	3.298e+00	5.071e+00	0.650	0.515534
## plotIDWHCA-03-0012	3.298e+00	5.017e+00	0.657	0.510984
## plotIDWHCA-03-0013	1.306e+00	4.927e+00	0.265	0.790925
## plotIDWHCA-03-0014	-1.312e-01	3.573e+00	-0.037	0.970719
## plotIDWHCA-03-0015	1.366e+00	4.729e+00	0.289	0.772771
## plotIDWHCA-03-0016	6.303e-01	4.755e+00	0.133	0.894541
## plotIDWHCA-03-0020	-1.577e-01	2.760e+00	-0.057	0.954428
## plotIDWHCA-03-0021	-5.033e-01	3.641e+00	-0.138	0.890041
## plotIDWHCA-03-0022	1.380e+00	4.045e+00	0.341	0.732943
## plotIDWHCA-03-0024	1.581e+00	3.653e+00	0.433	0.665142
## plotIDWHCA-03-0025	1.265e+00	3.629e+00	0.349	0.727357
## plotIDWHCA-03-0027	1.503e+00	3.232e+00	0.465	0.641781
## plotIDWHCA-03-0028	1.514e-01	2.933e+00	0.052	0.958842
## plotIDWHCA-03-0029	1.854e+00	3.249e+00	0.570	0.568407
## plotIDWISR-01-0077	-1.634e+00	1.445e+01	-0.113	0.910006
## plotIDWISR-01-0079	-6.336e-01	1.444e+01	-0.044	0.965007
## plotIDWISR-01-0080	-6.336e-01	1.443e+01	-0.044	0.964967
## plotIDWISR-01-0081	-2.618e+00	1.444e+01	-0.181	0.856101
## plotIDWISR-01-0082	-1.634e+00	1.443e+01	-0.113	0.909870
## plotIDWISR-01-0083	-6.257e-01	1.405e+01	-0.045	0.964486
## plotIDWISR-01-0084	-1.634e+00	1.429e+01	-0.114	0.909003
## plotIDWISR-01-0087	-1.907e+00	3.472e+01	-0.055	0.956188
## plotIDWISR-01-0088	-6.257e-01	7.070e+00	-0.089	0.929475
## plotIDWISR-01-0090	-1.618e+00	1.277e+01	-0.127	0.899217
## plotIDWISR-01-0091	-8.835e-01	1.269e+01	-0.070	0.944501
## plotIDWISR-01-0092	2.366e+00	7.131e+00	0.332	0.740025
## plotIDWISR-01-0093	-2.168e-01	1.273e+01	-0.017	0.986409
## date00-00-1977	5.679e-02	6.771e-01	0.084	0.933152
## date00-00-1978	4.087e-02	5.315e-01	0.077	0.938713
## date00-00-1979	-8.356e-01	8.978e-01	-0.931	0.352031
## date00-00-1982	NA	NA	NA	NA
## date00-00-2001	4.330e-02	6.224e-01	0.070	0.944529
## date05-03-2001	-7.514e-01	7.176e-01	-1.047	0.295034
## date05-08-1998	NA	NA	NA	NA
## date05-08-2002	NA	NA	NA	NA
## date05-09-2001	5.656e-01	7.703e-01	0.734	0.462829
## date05-09-2002	NA	NA	NA	NA
## date05-10-2002	NA	NA	NA	NA
## date05-11-1999	NA	NA	NA	NA
## date05-15-2001	-2.212e+00	1.135e+00	-1.950	0.051251
## date05-16-2001	2.339e+00	1.829e+00	1.279	0.201027
## date05-21-2001	1.019e+00	7.490e-01	1.360	0.173883
## date05-21-2004	NA	NA	NA	NA
## date05-22-2004	NA	NA	NA	NA
## date05-23-2000	-1.634e-02	8.747e-01	-0.019	0.985094
## date05-23-2004	NA	NA	NA	NA
## date05-24-2004	NA	NA	NA	NA
## date05-25-1999	NA	NA	NA	NA

## date05-25-2000	7.201e-01	8.696e-01	0.828	0.407615
## date05-25-2004	NA	NA	NA	NA
## date05-26-1999	NA	NA	NA	NA
## date05-26-2004	NA	NA	NA	NA
## date05-27-1998	NA	NA	NA	NA
## date05-27-1999	NA	NA	NA	NA
## date05-30-2000	6.220e-01	7.315e-01	0.850	0.395182
## date05-30-2002	-2.832e-01	9.555e-01	-0.296	0.766942
## date05-31-2000	-5.514e-02	9.154e-01	-0.060	0.951973
## date05-31-2001	-2.259e+00	9.750e-01	-2.317	0.020512 *
## date06-01-1998	NA	NA	NA	NA
## date06-02-1998	NA	NA	NA	NA
## date06-02-2000	2.298e-01	7.814e-01	0.294	0.768723
## date06-03-1998	NA	NA	NA	NA
## date06-03-2002	-6.216e-01	9.043e-01	-0.687	0.491886
## date06-04-2002	1.247e+00	9.126e-01	1.367	0.171758
## date06-07-1998	NA	NA	NA	NA
## date06-07-2000	-3.333e-01	6.443e-01	-0.517	0.604979
## date06-08-1998	NA	NA	NA	NA
## date06-08-1999	NA	NA	NA	NA
## date06-09-1998	NA	NA	NA	NA
## date06-10-1998	NA	NA	NA	NA
## date06-10-2002	-1.126e+00	1.531e+00	-0.735	0.462293
## date06-10-2004	NA	NA	NA	NA
## date06-11-1996	NA	NA	NA	NA
## date06-11-1998	NA	NA	NA	NA
## date06-11-2004	NA	NA	NA	NA
## date06-12-1996	NA	NA	NA	NA
## date06-12-1998	NA	NA	NA	NA
## date06-12-2004	NA	NA	NA	NA
## date06-13-1990	NA	NA	NA	NA
## date06-13-2004	NA	NA	NA	NA
## date06-14-1990	NA	NA	NA	NA
## date06-14-2000	-3.190e+00	8.864e-01	-3.599	0.000321 ***
## date06-14-2004	NA	NA	NA	NA
## date06-15-1990	NA	NA	NA	NA
## date06-15-1998	NA	NA	NA	NA
## date06-15-2004	NA	NA	NA	NA
## date06-16-1998	NA	NA	NA	NA
## date06-16-2004	NA	NA	NA	NA
## date06-17-1998	NA	NA	NA	NA
## date06-17-2002	1.105e+00	9.416e-01	1.173	0.240655
## date06-17-2004	NA	NA	NA	NA
## date06-18-1996	NA	NA	NA	NA
## date06-18-1998	NA	NA	NA	NA
## date06-18-2004	NA	NA	NA	NA
## date06-19-1990	NA	NA	NA	NA
## date06-19-2004	NA	NA	NA	NA
## date06-20-1996	NA	NA	NA	NA
## date06-21-1999	NA	NA	NA	NA
## date06-22-1998	NA	NA	NA	NA
## date06-23-1990	NA	NA	NA	NA
## date06-23-1998	NA	NA	NA	NA
## date06-24-1998	NA	NA	NA	NA

## date06-26-1990	NA	NA	NA	NA
## date06-26-2001	-1.520e+00	1.124e+00	-1.352	0.176545
## date06-27-1990	NA	NA	NA	NA
## date06-27-1999	NA	NA	NA	NA
## date06-27-2000	-2.038e-01	8.809e-01	-0.231	0.817081
## date06-27-2004	NA	NA	NA	NA
## date06-29-1990	NA	NA	NA	NA
## date06-29-1998	NA	NA	NA	NA
## date06-29-2000	-9.720e-01	7.772e-01	-1.251	0.211081
## date06-30-1998	NA	NA	NA	NA
## date07-01-1976	NA	NA	NA	NA
## date07-01-1996	NA	NA	NA	NA
## date07-01-1998	NA	NA	NA	NA
## date07-02-1976	NA	NA	NA	NA
## date07-02-1996	NA	NA	NA	NA
## date07-02-1998	NA	NA	NA	NA
## date07-02-2001	-1.472e-01	7.267e-01	-0.203	0.839445
## date07-06-1999	NA	NA	NA	NA
## date07-06-2000	-1.148e-01	8.139e-01	-0.141	0.887840
## date07-06-2004	NA	NA	NA	NA
## date07-07-1998	NA	NA	NA	NA
## date07-07-2000	-1.783e+00	1.020e+00	-1.748	0.080429 .
## date07-07-2004	NA	NA	NA	NA
## date07-08-1998	NA	NA	NA	NA
## date07-08-2004	NA	NA	NA	NA
## date07-09-1996	NA	NA	NA	NA
## date07-09-1998	NA	NA	NA	NA
## date07-09-2001	-2.939e+00	1.487e+00	-1.976	0.048171 *
## date07-10-2002	3.392e-01	6.733e-01	0.504	0.614434
## date07-11-2001	-3.502e+00	1.388e+00	-2.523	0.011668 *
## date07-13-1996	NA	NA	NA	NA
## date07-13-1998	NA	NA	NA	NA
## date07-13-2000	-1.168e+00	1.018e+00	-1.147	0.251339
## date07-14-1998	NA	NA	NA	NA
## date07-15-1996	NA	NA	NA	NA
## date07-15-1998	NA	NA	NA	NA
## date07-15-2002	-3.365e-01	9.743e-01	-0.345	0.729785
## date07-16-1996	NA	NA	NA	NA
## date07-16-1998	NA	NA	NA	NA
## date07-16-2002	4.186e-01	7.287e-01	0.574	0.565666
## date07-17-1996	NA	NA	NA	NA
## date07-17-1998	NA	NA	NA	NA
## date07-17-2000	9.730e-01	7.437e-01	1.308	0.190792
## date07-17-2002	1.047e+00	8.851e-01	1.183	0.237020
## date07-18-2000	1.185e+00	7.959e-01	1.489	0.136624
## date07-18-2002	-5.442e-01	8.831e-01	-0.616	0.537780
## date07-19-2000	1.531e-02	7.322e-01	0.021	0.983318
## date07-20-1998	NA	NA	NA	NA
## date07-21-1997	NA	NA	NA	NA
## date07-21-1998	NA	NA	NA	NA
## date07-22-1996	NA	NA	NA	NA
## date07-22-1998	NA	NA	NA	NA
## date07-22-2002	NA	NA	NA	NA
## date07-23-1997	NA	NA	NA	NA

## date07-23-1998	NA	NA	NA	NA
## date07-23-2002	NA	NA	NA	NA
## date07-24-1996	NA	NA	NA	NA
## date07-24-1997	NA	NA	NA	NA
## date07-24-1998	NA	NA	NA	NA
## date07-24-2002	NA	NA	NA	NA
## date07-25-1996	NA	NA	NA	NA
## date07-25-1997	NA	NA	NA	NA
## date07-25-2000	-2.770e-02	6.562e-01	-0.042	0.966332
## date07-25-2002	NA	NA	NA	NA
## date07-26-2000	-1.271e+00	1.298e+00	-0.979	0.327559
## date07-26-2002	NA	NA	NA	NA
## date07-27-1998	NA	NA	NA	NA
## date07-27-2000	1.337e+00	1.298e+00	1.030	0.303263
## date07-28-1998	NA	NA	NA	NA
## date07-28-1999	NA	NA	NA	NA
## date07-29-1996	NA	NA	NA	NA
## date07-29-1998	NA	NA	NA	NA
## date07-30-1996	NA	NA	NA	NA
## date07-30-1998	NA	NA	NA	NA
## date07-31-1998	NA	NA	NA	NA
## date07-31-2001	-5.572e-02	1.104e+00	-0.050	0.959753
## date07-31-2002	4.825e-01	7.297e-01	0.661	0.508521
## date08-01-2000	-7.959e-01	8.871e-01	-0.897	0.369672
## date08-03-1998	NA	NA	NA	NA
## date08-04-1997	NA	NA	NA	NA
## date08-04-1998	NA	NA	NA	NA
## date08-04-1999	NA	NA	NA	NA
## date08-05-1997	NA	NA	NA	NA
## date08-05-1998	NA	NA	NA	NA
## date08-05-1999	NA	NA	NA	NA
## date08-06-1997	NA	NA	NA	NA
## date08-06-1998	NA	NA	NA	NA
## date08-06-2001	7.802e-01	1.061e+00	0.735	0.462122
## date08-07-1996	NA	NA	NA	NA
## date08-07-1997	NA	NA	NA	NA
## date08-07-1998	NA	NA	NA	NA
## date08-08-1996	NA	NA	NA	NA
## date08-08-1997	NA	NA	NA	NA
## date08-08-2001	-1.225e+00	9.726e-01	-1.260	0.207779
## date08-09-2000	-8.414e-01	7.676e-01	-1.096	0.273045
## date08-09-2001	-3.485e-01	8.222e-01	-0.424	0.671675
## date08-11-1998	NA	NA	NA	NA
## date08-12-1998	NA	NA	NA	NA
## date08-13-1996	NA	NA	NA	NA
## date08-13-1998	NA	NA	NA	NA
## date08-14-1996	NA	NA	NA	NA
## date08-14-1998	NA	NA	NA	NA
## date08-14-2000	NA	NA	NA	NA
## date08-15-1998	NA	NA	NA	NA
## date08-15-2000	NA	NA	NA	NA
## date08-16-2000	NA	NA	NA	NA
## date08-17-1998	NA	NA	NA	NA
## date08-18-1997	NA	NA	NA	NA

## date08-18-1998	NA	NA	NA	NA
## date08-19-1996	NA	NA	NA	NA
## date08-19-1997	NA	NA	NA	NA
## date08-19-1998	NA	NA	NA	NA
## date08-20-1997	NA	NA	NA	NA
## date08-20-1998	NA	NA	NA	NA
## date08-21-1997	NA	NA	NA	NA
## date08-21-1998	NA	NA	NA	NA
## date08-22-1998	NA	NA	NA	NA
## date08-23-1998	NA	NA	NA	NA
## date08-25-1999	NA	NA	NA	NA
## date08-26-1996	NA	NA	NA	NA
## date08-26-2002	NA	NA	NA	NA
## date08-27-1996	NA	NA	NA	NA
## date08-27-2001	NA	NA	NA	NA
## date08-27-2002	NA	NA	NA	NA
## date08-28-1996	NA	NA	NA	NA
## date08-28-2001	NA	NA	NA	NA
## date08-28-2002	NA	NA	NA	NA
## date08-29-1996	NA	NA	NA	NA
## date08-29-2000	2.710e-02	1.049e+00	0.026	0.979382
## date08-29-2001	NA	NA	NA	NA
## date08-29-2002	NA	NA	NA	NA
## date08-30-2001	NA	NA	NA	NA
## date08-31-2001	NA	NA	NA	NA
## date09-03-1996	NA	NA	NA	NA
## date09-03-1997	NA	NA	NA	NA
## date09-04-1996	NA	NA	NA	NA
## date09-04-1997	NA	NA	NA	NA
## date09-04-1998	NA	NA	NA	NA
## date09-05-1996	NA	NA	NA	NA
## date09-05-1997	NA	NA	NA	NA
## date09-05-1998	NA	NA	NA	NA
## date09-09-1996	NA	NA	NA	NA
## date09-10-1996	NA	NA	NA	NA
## date09-10-1998	NA	NA	NA	NA
## date09-10-2001	-8.740e-01	9.920e-01	-0.881	0.378283
## date09-11-1998	NA	NA	NA	NA
## date09-11-2001	NA	NA	NA	NA
## date09-15-1997	NA	NA	NA	NA
## date09-16-1997	NA	NA	NA	NA
## date09-17-1997	NA	NA	NA	NA
## date09-18-1997	NA	NA	NA	NA
## date09-18-2000	NA	NA	NA	NA
## date09-19-2000	NA	NA	NA	NA
## date09-20-2000	NA	NA	NA	NA
## date09-21-2000	NA	NA	NA	NA
## date09-22-1997	NA	NA	NA	NA
## date09-22-2000	NA	NA	NA	NA
## date09-23-1997	NA	NA	NA	NA
## date09-24-1997	NA	NA	NA	NA
## date09-24-1998	NA	NA	NA	NA
## date09-25-1997	NA	NA	NA	NA
## date10-06-1998	NA	NA	NA	NA

## date10-13-1998	NA	NA	NA	NA
## date10-19-1998	NA	NA	NA	NA
## date10-29-1998	NA	NA	NA	NA
## plotsize	NA	NA	NA	NA
## spcodeACERNEG	3.234e-01	1.409e+00	0.230	0.818404
## spcodeACERNIG	1.464e+00	1.938e+00	0.755	0.450109
## spcodeACERRUB	1.199e+00	2.697e-01	4.446	8.88e-06 ***
## spcodeAILAALT	2.669e+00	1.913e+00	1.395	0.162979
## spcodeBETUALL	3.488e-01	2.557e-01	1.364	0.172551
## spcodeBETULEN	5.383e-02	2.783e-01	0.193	0.846594
## spcodeBETUNIG	-1.219e+00	1.392e+00	-0.876	0.381180
## spcodeCARYALB	-3.317e-01	2.988e-01	-1.110	0.266960
## spcodeCARYCOR	-1.226e+00	3.207e-01	-3.823	0.000133 ***
## spcodeCARYGLA	-5.858e-01	2.876e-01	-2.037	0.041704 *
## spcodeCARYOVT	1.371e-01	5.224e-01	0.262	0.792968
## spcodeCASTDNT	-1.539e+00	2.840e-01	-5.419	6.17e-08 ***
## spcodeCATASPE	-2.368e+00	9.895e-01	-2.393	0.016731 *
## spcodeCLADKEN	-1.057e+00	8.005e-01	-1.320	0.186926
## spcodeDIOSVIR	-1.690e+00	3.824e-01	-4.420	9.99e-06 ***
## spcodeFAGUGRA	-2.117e-01	2.709e-01	-0.782	0.434446
## spcodeFRAXAME	-9.949e-01	2.834e-01	-3.511	0.000449 ***
## spcodeFRAXPEN	-5.321e-01	5.575e-01	-0.955	0.339829
## spcodeJUGLCIN	-1.069e+00	7.744e-01	-1.381	0.167342
## spcodeJUGLNIG	-7.546e-01	4.844e-01	-1.558	0.119350
## spcodeJUNIVIR	-1.705e+00	4.842e-01	-3.521	0.000433 ***
## spcodeLIQUSTY	5.378e-01	3.844e-01	1.399	0.161781
## spcodeLIRITUL	3.520e-01	2.752e-01	1.279	0.200892
## spcodeMAGNACU	-1.183e+00	2.908e-01	-4.068	4.79e-05 ***
## spcodeMAGNFRA	-8.953e-01	2.780e-01	-3.221	0.001285 **
## spcodeMAGNTRI	-8.652e-01	6.680e-01	-1.295	0.195244
## spcodeNYSSSYL	-7.048e-03	2.781e-01	-0.025	0.979782
## spcodePAULTOM	-1.816e+00	1.134e+00	-1.600	0.109528
## spcodePICERUB	-1.583e-02	2.568e-01	-0.062	0.950857
## spcodePINUECH	-2.451e-01	4.577e-01	-0.536	0.592295
## spcodePINUPUN	1.133e+00	3.519e-01	3.221	0.001281 **
## spcodePINURIG	7.168e-01	2.993e-01	2.395	0.016637 *
## spcodePINUSTR	-4.267e-02	2.824e-01	-0.151	0.879882
## spcodePINUVIR	7.142e-01	3.018e-01	2.367	0.017969 *
## spcodePLATOCC	8.506e-01	4.839e-01	1.758	0.078841 .
## spcodeQUERALB	1.852e-01	2.870e-01	0.645	0.518708
## spcodeQUERFLC	2.427e-01	4.424e-01	0.549	0.583240
## spcodeQUERIMB	5.336e-01	9.927e-01	0.538	0.590923
## spcodeQUERMON	1.033e+00	2.808e-01	3.680	0.000235 ***
## spcodeQUERMUE	-7.063e-01	9.900e-01	-0.713	0.475577
## spcodeQUERRUB	-4.365e-02	2.722e-01	-0.160	0.872589
## spcodeQUERSTE	-1.233e-01	6.613e-01	-0.186	0.852115
## spcodeQUERVEL	-3.082e-01	2.909e-01	-1.059	0.289524
## spcodeROBIPSE	-8.623e-01	2.843e-01	-3.033	0.002433 **
## spcodeSALINIG	2.160e+00	7.506e-01	2.878	0.004017 **
## spcodeTILIAME	9.729e-02	3.565e-01	0.273	0.784957
## spcodeTILIAMEH	2.438e-01	3.024e-01	0.806	0.420240
## spcodeTSUGCAN	6.083e-01	2.683e-01	2.267	0.023415 *
## spcodeTSUGCAR	-5.835e-01	1.606e+00	-0.363	0.716378
## spcodeULMUALA	-5.942e-01	7.684e-01	-0.773	0.439367

## spcodeULMUAME	-1.281e+00	1.002e+00	-1.278	0.201315
## spcodeULMURUB	1.245e-01	4.145e-01	0.300	0.763919
## speciesAcer negundo	NA	NA	NA	NA
## speciesAcer nigrum	NA	NA	NA	NA
## speciesAcer rubrum	NA	NA	NA	NA
## speciesAilanthus altissima	NA	NA	NA	NA
## speciesBetula alleghaniensis	NA	NA	NA	NA
## speciesBetula lenta	NA	NA	NA	NA
## speciesBetula nigra	NA	NA	NA	NA
## speciesCarya alba	NA	NA	NA	NA
## speciesCarya cordiformis	NA	NA	NA	NA
## speciesCarya glabra	NA	NA	NA	NA
## speciesCarya ovata	NA	NA	NA	NA
## speciesCastanea dentata	NA	NA	NA	NA
## speciesCatalpa speciosa	NA	NA	NA	NA
## speciesCladrastis kentukea	NA	NA	NA	NA
## speciesDiospyros virginiana	NA	NA	NA	NA
## speciesFagus grandifolia	NA	NA	NA	NA
## speciesFraxinus americana	NA	NA	NA	NA
## speciesFraxinus pennsylvanica	NA	NA	NA	NA
## speciesJuglans cinerea	NA	NA	NA	NA
## speciesJuglans nigra	NA	NA	NA	NA
## speciesJuniperus virginiana	NA	NA	NA	NA
## speciesLiquidambar styraciflua	NA	NA	NA	NA
## speciesLiriodendron tulipifera	NA	NA	NA	NA
## speciesMagnolia acuminata	NA	NA	NA	NA
## speciesMagnolia fraseri	NA	NA	NA	NA
## speciesMagnolia tripetala	NA	NA	NA	NA
## speciesNyssa sylvatica	NA	NA	NA	NA
## speciesPaulownia tomentosa	NA	NA	NA	NA
## speciesPicea rubens	NA	NA	NA	NA
## speciesPinus echinata	NA	NA	NA	NA
## speciesPinus pungens	NA	NA	NA	NA
## speciesPinus rigida	NA	NA	NA	NA
## speciesPinus strobus	NA	NA	NA	NA
## speciesPinus virginiana	NA	NA	NA	NA
## speciesPlatanus occidentalis	NA	NA	NA	NA
## speciesQuercus alba	NA	NA	NA	NA
## speciesQuercus falcata	NA	NA	NA	NA
## speciesQuercus imbricaria	NA	NA	NA	NA
## speciesQuercus montana	NA	NA	NA	NA
## speciesQuercus muehlenbergii	NA	NA	NA	NA
## speciesQuercus rubra	NA	NA	NA	NA
## speciesQuercus stellata	NA	NA	NA	NA
## speciesQuercus velutina	NA	NA	NA	NA
## speciesRobinia pseudoacacia	NA	NA	NA	NA
## speciesSalix nigra	NA	NA	NA	NA
## speciesTilia americana	NA	NA	NA	NA
## speciesTsuga canadensis	NA	NA	NA	NA
## speciesTsuga caroliniana	NA	NA	NA	NA
## speciesUlmus alata	NA	NA	NA	NA
## speciesUlmus americana	NA	NA	NA	NA
## speciesUlmus rubra	NA	NA	NA	NA
## utme	-3.851e-14	4.507e-04	0.000	1.000000

```
## utmn                -1.290e-13  9.183e-04  0.000 1.000000
## elev                -1.301e-13  3.502e-03  0.000 1.000000
## tci                 2.149e-13  4.387e-02  0.000 1.000000
## streamdist          8.613e-14  1.611e-03  0.000 1.000000
## disturbLT-SEL       1.890e-11  5.041e-01  0.000 1.000000
## disturbSETTLE       6.148e-12  7.114e-01  0.000 1.000000
## disturbVIRGIN       1.114e-11  7.541e-01  0.000 1.000000
## beers               5.321e-12  1.453e-01  0.000 1.000000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.834 on 7911 degrees of freedom
## (14 observations deleted due to missingness)
## Multiple R-squared:  0.329, Adjusted R-squared:  0.2404
## F-statistic: 3.712 on 1045 and 7911 DF, p-value: < 2.2e-16
```

Running an ANOVA test on the expMod1 give us a p-value that is very small (“<2.2e-16”) while the summary function gives us an equally small p-value (“<2e-16”). Running an ANOVA test on expMod2 shows us that the variables plotsize, species, elev, disturb, and beers all have p values that show statistical significance. Using the summary function on expMod2 returns a more detailed look at each variable. The summary breaks down each categorical variable by the factors included in that column. After running this model I created two subsets of the data, one for Red Maples and one for Frasier Firs. These subsets were then used to build additional regression models. I then made an intercept only model which gave the same results on the subsets as the entire dataset.

```
Abies = subset(treedata, species == "Abies fraseri")
Abies = Abies[,-c(4,5)]
Acer = subset(treedata, species == "Acer rubrum")
Acer = Acer[,-c(4,5)]
abiesMod1 = lm(cover ~ ., data = Abies)
acerMod1 = lm(cover ~ ., data = Acer)

summary(abiesMod1)
```

```
##
## Call:
## lm(formula = cover ~ ., data = Abies)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.6667  0.0000  0.0000  0.0000  0.6667
##
## Coefficients: (29 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.000e+00  1.671e+04  0.000 0.999954
## plotIDATBN-01-0532  7.000e+00  1.022e+02  0.068 0.947081
## plotIDATBN-01-0533  2.000e+00  1.031e+02  0.019 0.985005
## plotIDATBN-01-0536  2.000e+00  2.891e+01  0.069 0.946552
## plotIDATBP-01-0001  7.000e+00  1.828e+01  0.383 0.711723
## plotIDATBP-01-0005  3.000e+00  2.923e+01  0.103 0.920771
## plotIDATBP-01-0007  4.000e+00  3.344e+01  0.120 0.907729
## plotIDATBP-01-0008  1.000e+00  3.160e+01  0.032 0.975529
## plotIDDSLM-01-0002  2.000e+00  1.921e+01  0.104 0.919622
```

## plotIDDSLM-01-0004	2.000e+00	1.845e+01	0.108	0.916360
## plotIDDSLM-01-0006	2.000e+00	3.179e+01	0.063	0.951385
## plotIDDSLM-01-0008	2.000e+00	1.273e+01	0.157	0.879077
## plotIDDSLM-01-0010	3.000e+00	3.186e+01	0.094	0.927302
## plotIDDSLM-01-0011	2.000e+00	1.525e+01	0.131	0.898890
## plotIDDSLM-01-0013	2.000e+00	7.963e+00	0.251	0.808013
## plotIDDSLM-01-0024	2.000e+00	9.357e+00	0.214	0.836101
## plotIDDSLM-01-0027	2.000e+00	1.342e+01	0.149	0.885231
## plotIDDSLM-01-0029	2.000e+00	8.521e+00	0.235	0.820327
## plotIDDSLM-01-0037	2.000e+00	1.998e+01	0.100	0.922731
## plotIDDSLM-01-0081	2.000e+00	3.198e+01	0.063	0.951662
## plotIDDSLM-01-0086	2.000e+00	9.944e+00	0.201	0.845623
## plotIDDSLM-01-0115	2.000e+00	1.529e+01	0.131	0.899150
## plotIDDSLM-01-0134	6.000e+00	3.188e+01	0.188	0.855380
## plotIDDSLM-01-0136	2.000e+00	1.499e+01	0.133	0.897158
## plotIDDSLM-01-0137	2.000e+00	9.087e+00	0.220	0.831307
## plotIDDSLM-01-0138	3.000e+00	3.233e+01	0.093	0.928340
## plotIDDSLM-01-0143	2.000e+00	2.500e+01	0.080	0.938192
## plotIDDSLM-01-0253	3.000e+00	2.617e+01	0.115	0.911569
## plotIDDSLM-01-0302	2.000e+00	1.877e+01	0.107	0.917765
## plotIDDSLM-01-0304	2.000e+00	2.624e+01	0.076	0.941115
## plotIDDSLM-01-0305	2.000e+00	1.677e+01	0.119	0.907996
## plotIDDSLM-01-0309	4.000e+00	2.053e+01	0.195	0.850388
## plotIDDSLM-01-0310	3.000e+00	2.514e+01	0.119	0.907972
## plotIDDSLM-01-0313	2.000e+00	1.764e+01	0.113	0.912512
## plotIDDSLM-01-0314	2.000e+00	1.795e+01	0.111	0.914044
## plotIDDSLM-01-0322	2.000e+00	3.015e+01	0.066	0.948731
## plotIDDSLM-01-0324	3.000e+00	2.708e+01	0.111	0.914509
## plotIDDSLM-01-0326	2.000e+00	2.934e+01	0.068	0.947324
## plotIDDSLM-01-0330	2.000e+00	2.962e+01	0.068	0.947825
## plotIDDSLM-01-0343	3.000e+00	2.784e+01	0.108	0.916853
## plotIDDSLM-01-0345	2.000e+00	3.010e+01	0.066	0.948653
## plotIDDSLM-01-0346	3.000e+00	2.852e+01	0.105	0.918815
## plotIDDSLM-01-0347	3.000e+00	2.711e+01	0.111	0.914623
## plotIDFRID-01-0003	4.000e+00	2.276e+01	0.176	0.864833
## plotIDFRID-0T-0012	6.000e+00	1.524e+01	0.394	0.704091
## plotIDFRID-0T-0013	6.000e+00	1.644e+01	0.365	0.724630
## plotIDFRID-0T-0014	3.000e+00	1.754e+01	0.171	0.868477
## plotIDFRID-0T-0015	3.000e+00	1.841e+01	0.163	0.874595
## plotIDFRID-0T-0016	5.000e+00	1.978e+01	0.253	0.806792
## plotIDFRID-0T-0017	6.000e+00	2.206e+01	0.272	0.792492
## plotIDPITT-01-0045	1.000e+00	1.107e+02	0.009	0.993012
## plotIDUFRL-04-00A1	3.000e+00	3.008e+01	0.100	0.923010
## plotIDUFRL-06-0133	1.667e+00	3.144e+01	0.053	0.959028
## plotIDUFRL-06-0134	2.000e+00	3.231e+01	0.062	0.952164
## plotIDUFRL-06-0135	2.667e+00	3.249e+01	0.082	0.936602
## plotIDUFRL-06-0136	2.000e+00	3.234e+01	0.062	0.952209
## plotIDUFRL-06-0137	2.000e+00	3.322e+01	0.060	0.953474
## plotIDUFRL-06-0138	-3.165e-12	3.286e+01	0.000	1.000000
## plotIDUFRL-06-0139	1.667e+00	3.006e+01	0.055	0.957150
## plotIDULRY-04-0024	4.000e+00	3.303e+01	0.121	0.906611
## plotIDULRY-04-0025	4.000e+00	3.296e+01	0.121	0.906392
## plotIDULRY-04-0026	7.000e+00	3.436e+01	0.204	0.843633
## plotIDULRY-04-0090	1.000e+00	2.886e+01	0.035	0.973207

## plotIDULRY-04-0091	1.000e+00	2.899e+01	0.034	0.973328	
## plotIDULRY-04-0092	8.000e+00	3.193e+01	0.251	0.808472	
## plotIDULRY-04-0095	5.000e+00	3.196e+01	0.156	0.879573	
## plotIDULRY-04-0096	1.000e+00	3.069e+01	0.033	0.974804	
## plotIDULRY-04-0098	1.000e+00	2.978e+01	0.034	0.974031	
## plotIDULRY-04-0114	2.000e+00	3.748e+01	0.053	0.958749	
## plotIDULRY-04-0142	3.000e+00	3.256e+01	0.092	0.928852	
## plotIDULRY-04-0144	3.000e+00	3.257e+01	0.092	0.928872	
## plotIDULRY-04-0145	3.000e+00	2.788e+01	0.108	0.916964	
## plotIDULRY-04-0147	6.000e+00	3.409e+01	0.176	0.864651	
## plotIDULRY-04-0155	6.000e+00	2.865e+01	0.209	0.839376	
## plotIDULRY-04-0157	2.000e+00	2.156e+01	0.093	0.928365	
## plotIDULRY-04-0158	4.000e+00	3.043e+01	0.131	0.898653	
## plotIDWISR-01-0077	1.000e+00	3.309e+01	0.030	0.976634	
## plotIDWISR-01-0079	2.000e+00	3.281e+01	0.061	0.952896	
## plotIDWISR-01-0080	2.000e+00	3.246e+01	0.062	0.952387	
## plotIDWISR-01-0082	1.000e+00	3.255e+01	0.031	0.976245	
## plotIDWISR-01-0083	2.000e+00	2.905e+01	0.069	0.946792	
## plotIDWISR-01-0084	1.000e+00	3.109e+01	0.032	0.975128	
## plotIDWISR-01-0088	3.000e+00	2.091e+01	0.143	0.889486	
## plotIDWISR-01-0092	5.000e+00	1.900e+01	0.263	0.799041	
## date00-00-1979	5.000e+00	5.774e-01	8.660	2.46e-05	***
## date00-00-1982	NA	NA	NA	NA	
## date05-11-1999	NA	NA	NA	NA	
## date05-15-2001	2.667e+00	6.667e-01	4.000	0.003950	**
## date05-16-2001	6.000e+00	8.165e-01	7.348	8.01e-05	***
## date05-23-2004	NA	NA	NA	NA	
## date06-08-1999	NA	NA	NA	NA	
## date06-12-2004	NA	NA	NA	NA	
## date06-13-1990	NA	NA	NA	NA	
## date06-14-1990	NA	NA	NA	NA	
## date06-15-1990	NA	NA	NA	NA	
## date06-23-1990	NA	NA	NA	NA	
## date06-27-1990	NA	NA	NA	NA	
## date07-09-2001	5.000e+00	8.165e-01	6.124	0.000282	***
## date07-11-2001	NA	NA	NA	NA	
## date07-13-1998	NA	NA	NA	NA	
## date07-14-1998	NA	NA	NA	NA	
## date07-24-2002	NA	NA	NA	NA	
## date07-25-2002	NA	NA	NA	NA	
## date07-29-1998	NA	NA	NA	NA	
## date08-05-1999	NA	NA	NA	NA	
## date08-14-1998	NA	NA	NA	NA	
## date08-15-1998	NA	NA	NA	NA	
## date08-21-1998	NA	NA	NA	NA	
## date08-22-1998	NA	NA	NA	NA	
## date08-25-1999	NA	NA	NA	NA	
## date08-28-2001	NA	NA	NA	NA	
## date09-17-1997	NA	NA	NA	NA	
## date10-29-1998	NA	NA	NA	NA	
## plotsize	NA	NA	NA	NA	
## utme	6.934e-16	3.757e-03	0.000	1.000000	
## utmn	6.287e-17	4.227e-03	0.000	1.000000	
## elev	2.589e-15	3.906e-02	0.000	1.000000	

```
## tci -4.261e-15 6.229e-01 0.000 1.000000
## streamdist -3.935e-16 8.493e-03 0.000 1.000000
## disturbLT-SEL NA NA NA NA
## disturbSETTLE NA NA NA NA
## disturbVIRGIN NA NA NA NA
## beers -2.108e-14 2.384e+00 0.000 1.000000
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.5774 on 8 degrees of freedom
## Multiple R-squared: 0.9944, Adjusted R-squared: 0.9293
## F-statistic: 15.27 on 93 and 8 DF, p-value: 0.0001776
```

```
summary(acerMod1)
```

```
##
## Call:
## lm(formula = cover ~ ., data = Acer)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.094   0.000   0.000   0.000   2.094
##
## Coefficients: (152 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    6.000e+00  4.937e+03  0.001 0.999033
## plotIDATBN-01-0304 1.000e+00  1.105e+00  0.905 0.367429
## plotIDATBN-01-0305 -1.000e+00  2.476e+00 -0.404 0.687209
## plotIDATBN-01-0306 1.000e+00  1.319e+01  0.076 0.939706
## plotIDATBN-01-0307 -1.000e+00  1.309e+01 -0.076 0.939236
## plotIDATBN-01-0308 -2.000e+00  1.310e+01 -0.153 0.878918
## plotIDATBN-01-0312 -4.000e+00  5.696e+00 -0.702 0.484149
## plotIDATBN-01-0313 1.000e+00  8.496e+00  0.118 0.906537
## plotIDATBN-01-0314 -2.000e+00  9.789e+00 -0.204 0.838521
## plotIDATBN-01-0401 1.000e+00  2.208e+01  0.045 0.963964
## plotIDATBN-01-0402 4.612e-11  2.151e+01  0.000 1.000000
## plotIDATBN-01-0407 1.601e-12  1.108e+00  0.000 1.000000
## plotIDATBN-01-0408 -5.000e+00  2.104e+00 -2.376 0.019391 *
## plotIDATBN-01-0409 -5.000e+00  1.495e+00 -3.344 0.001158 **
## plotIDATBN-01-0410 3.903e-11  1.961e+01  0.000 1.000000
## plotIDATBN-01-0412 -5.000e+00  2.177e+01 -0.230 0.818837
## plotIDATBN-01-0414 -5.000e+00  2.337e+01 -0.214 0.831030
## plotIDATBN-01-0415 2.062e-11  1.199e+01  0.000 1.000000
## plotIDATBN-01-0503 -1.000e+00  2.625e+01 -0.038 0.969689
## plotIDATBN-01-0504 3.703e-11  1.883e+01  0.000 1.000000
## plotIDATBN-01-0505 -1.000e+00  2.643e+01 -0.038 0.969890
## plotIDATBN-01-0506 5.703e-11  2.662e+01  0.000 1.000000
## plotIDATBN-01-0512 2.915e-11  1.368e+01  0.000 1.000000
## plotIDATBN-01-0513 1.000e+00  8.382e+00  0.119 0.905277
## plotIDATBN-01-0518 1.000e+00  2.671e+01  0.037 0.970207
## plotIDATBN-01-0519 -1.253e-11  1.164e+01  0.000 1.000000
## plotIDATBN-01-0521 -5.000e+00  1.147e+01 -0.436 0.663952
## plotIDATBN-01-0522 -5.000e+00  1.147e+01 -0.436 0.663735
## plotIDATBN-01-0523 -5.000e+00  1.115e+01 -0.449 0.654738
```

```

## plotIDATBN-01-0525 -2.000e+00 1.222e+01 -0.164 0.870331
## plotIDATBN-01-0529 1.000e+00 2.329e+01 0.043 0.965834
## plotIDATBN-01-0544 2.174e-11 1.204e+01 0.000 1.000000
## plotIDATBN-01-0551 4.550e-11 2.156e+01 0.000 1.000000
## plotIDATBN-01-0557 -2.000e+00 1.472e+01 -0.136 0.892185
## plotIDATBN-01-0558 -2.000e+00 1.407e+01 -0.142 0.887284
## plotIDATBN-01-0561 -3.000e+00 8.222e+00 -0.365 0.715978
## plotIDATBP-01-0011 2.000e+00 2.700e+01 0.074 0.941091
## plotIDATBP-01-0013 -4.000e+00 3.762e+01 -0.106 0.915545
## plotIDATBP-01-0015 1.000e+00 2.654e+01 0.038 0.970019
## plotIDATBP-01-0017 -2.000e+00 1.674e+01 -0.119 0.905151
## plotIDATBP-01-0018 -4.000e+00 3.220e+00 -1.242 0.216979
## plotIDDELL-02-0042 -4.000e+00 1.164e+01 -0.344 0.731734
## plotIDDELL-02-0043 -5.000e+00 1.108e+01 -0.451 0.652705
## plotIDDELL-02-0045 -4.000e+00 9.505e+00 -0.421 0.674774
## plotIDDELL-02-0052 2.000e+00 9.980e+00 0.200 0.841572
## plotIDDELL-02-0054 -4.000e+00 1.154e+01 -0.347 0.729535
## plotIDDELL-02-0055 1.000e+00 1.119e+01 0.089 0.928951
## plotIDDELL-02-0057 -2.031e-11 9.781e+00 0.000 1.000000
## plotIDDELL-02-0100 -3.653e-11 1.739e+01 0.000 1.000000
## plotIDDELL-02-0101 -4.000e+00 1.762e+01 -0.227 0.820889
## plotIDDELL-02-0105 -4.000e+00 1.777e+01 -0.225 0.822336
## plotIDDELL-02-0106 -1.000e+00 1.772e+01 -0.056 0.955110
## plotIDDELL-02-0108 -1.000e+00 1.802e+01 -0.055 0.955855
## plotIDDELL-02-0109 2.000e+00 1.707e+01 0.117 0.906941
## plotIDDELL-02-0110 -3.631e-11 1.731e+01 0.000 1.000000
## plotIDDELL-02-0114 1.000e+00 1.688e+01 0.059 0.952873
## plotIDDELL-02-0115 -3.543e-11 1.690e+01 0.000 1.000000
## plotIDDELL-02-0116 -4.000e+00 1.896e+01 -0.211 0.833322
## plotIDDELL-02-0127 1.000e+00 1.959e+01 0.051 0.959397
## plotIDDELL-02-0129 -3.814e-11 1.815e+01 0.000 1.000000
## plotIDDELL-02-0133 -4.000e+00 2.104e+01 -0.190 0.849574
## plotIDDELL-03-0002 -4.000e+00 1.255e+00 -3.188 0.001909 **
## plotIDDELL-03-0003 2.000e+00 1.326e+00 1.508 0.134666
## plotIDDELL-03-0006 -5.000e+00 3.692e+00 -1.354 0.178657
## plotIDDELL-03-0007 -1.000e+00 3.285e+00 -0.304 0.761445
## plotIDDELL-03-0008 -2.000e+00 3.623e+00 -0.552 0.582182
## plotIDDELL-03-0010 -3.796e-12 2.746e+00 0.000 1.000000
## plotIDDELL-03-0021 -4.000e+00 2.879e+00 -1.389 0.167760
## plotIDDELL-03-0025 -4.000e+00 2.783e+00 -1.437 0.153690
## plotIDDELL-03-0028 4.310e-14 1.050e+00 0.000 1.000000
## plotIDDELL-03-0029 -3.000e+00 1.440e+00 -2.084 0.039702 *
## plotIDDELL-03-0114 -4.319e-12 2.792e+00 0.000 1.000000
## plotIDDLAP-01-0011 -3.000e+00 1.949e+01 -0.154 0.878000
## plotIDDLAP-01-0012 -3.000e+00 1.949e+01 -0.154 0.878000
## plotIDDLAP-01-0013 -1.000e+00 2.133e+01 -0.047 0.962706
## plotIDDLAP-01-0014 -1.000e+00 2.089e+01 -0.048 0.961923
## plotIDDLAP-01-0015 -3.000e+00 2.335e+01 -0.128 0.898043
## plotIDDSLM-01-0028 -2.000e+00 4.988e+00 -0.401 0.689303
## plotIDDSLM-01-0037 -1.000e+00 7.344e+00 -0.136 0.891961
## plotIDDSLM-01-0083 -3.000e+00 4.597e+00 -0.653 0.515465
## plotIDDSLM-01-0136 -2.000e+00 1.036e+01 -0.193 0.847293
## plotIDDSLM-01-0306 -2.000e+00 4.946e+00 -0.404 0.686776
## plotIDDSLM-01-0307 -3.000e+00 5.784e+00 -0.519 0.605153

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## plotIDDSLM-01-0320 -3.000e+00 4.920e+00 -0.610 0.543406
## plotIDFRID-01-0001 -2.000e+00 1.392e+01 -0.144 0.886020
## plotIDFRID-01-0002 -1.000e+00 1.405e+01 -0.071 0.943384
## plotIDFRID-01-0004 -1.171e-11 1.001e+01 0.000 1.000000
## plotIDFRID-01-0005 1.000e+00 1.186e+01 0.084 0.932973
## plotIDFRID-01-0006 -2.624e-11 1.624e+01 0.000 1.000000
## plotIDFRID-01-0007 -1.000e+00 1.649e+01 -0.061 0.951753
## plotIDFRID-01-0009 1.000e+00 1.723e+01 0.058 0.953845
## plotIDFRID-01-0010 -2.000e+00 1.643e+01 -0.122 0.903346
## plotIDFRID-01-0013 -3.000e+00 1.640e+01 -0.183 0.855183
## plotIDFRID-01-0015 1.000e+00 2.111e+01 0.047 0.962310
## plotIDFRID-02-0014 1.000e+00 2.116e+01 0.047 0.962396
## plotIDFRID-08-0012 -2.000e+00 1.628e+01 -0.123 0.902467
## plotIDFRID-0T-0001 -2.628e-11 1.663e+01 0.000 1.000000
## plotIDFRID-0T-0002 -2.476e-11 1.587e+01 0.000 1.000000
## plotIDFRID-0T-0003 2.000e+00 1.534e+01 0.130 0.896508
## plotIDFRID-0T-0005 -2.164e-11 1.440e+01 0.000 1.000000
## plotIDFRID-0T-0006 2.000e+00 5.866e+00 0.341 0.733864
## plotIDFRID-0T-0007 3.000e+00 6.029e+00 0.498 0.619850
## plotIDFRID-0T-0008 2.000e+00 6.271e+00 0.319 0.750440
## plotIDFRID-0T-0009 3.000e+00 6.318e+00 0.475 0.635913
## plotIDFRID-0T-0010 2.000e+00 6.432e+00 0.311 0.756487
## plotIDFRID-0T-0011 2.000e+00 6.317e+00 0.317 0.752203
## plotIDFRID-0T-0018 1.000e+00 5.848e+00 0.171 0.864573
## plotIDFRID-0T-0019 2.000e+00 5.773e+00 0.346 0.729724
## plotIDFRID-0T-0020 -2.083e-11 1.410e+01 0.000 1.000000
## plotIDFRID-0T-0022 -2.000e+00 1.305e+01 -0.153 0.878492
## plotIDFRID-0T-0023 -2.000e+00 1.252e+01 -0.160 0.873425
## plotIDFRID-0T-0024 1.000e+00 1.213e+01 0.082 0.934450
## plotIDFRID-0T-0025 2.000e+00 6.426e+00 0.311 0.756245
## plotIDFRID-0T-0026 2.000e+00 6.795e+00 0.294 0.769116
## plotIDFRID-0T-0027 -2.250e-12 7.150e+00 0.000 1.000000
## plotIDFRID-0T-0028 -4.000e+00 7.540e+00 -0.531 0.596912
## plotIDFRID-0T-0029 2.000e+00 1.161e+01 0.172 0.863553
## plotIDFRID-0T-0030 -2.000e+00 1.105e+01 -0.181 0.856796
## plotIDFRID-0T-0031 -1.336e-11 1.060e+01 0.000 1.000000
## plotIDFRID-0T-0032 1.000e+00 1.063e+01 0.094 0.925211
## plotIDFRID-0T-0033 1.000e+00 1.017e+01 0.098 0.921864
## plotIDFRID-0T-0034 2.000e+00 8.121e+00 0.246 0.805959
## plotIDFRID-0T-0035 1.000e+00 8.151e+00 0.123 0.902602
## plotIDFRID-0T-0036 2.000e+00 8.680e+00 0.230 0.818227
## plotIDFRID-0T-0037 1.000e+00 8.839e+00 0.113 0.910149
## plotIDFRID-0T-0038 2.000e+00 9.178e+00 0.218 0.827944
## plotIDMILL-01-0024 -2.500e+00 3.929e+01 -0.064 0.949396
## plotIDMILL-03-0020 -1.500e+00 3.072e+01 -0.049 0.961157
## plotIDMILL-07-0024 -2.500e+00 4.459e+00 -0.561 0.576277
## plotIDMILL-07-0052 -2.500e+00 1.182e+01 -0.212 0.832911
## plotIDMILL-11-0017 -2.500e+00 1.814e+01 -0.138 0.890654
## plotIDMILL-12-0007 -5.000e-01 2.173e+01 -0.023 0.981689
## plotIDMILL-17-0010 -2.500e+00 1.214e+01 -0.206 0.837275
## plotIDMILL-17-0012 -2.500e+00 1.357e+01 -0.184 0.854173
## plotIDMILL-17-0039 -5.000e-01 7.838e+00 -0.064 0.949260
## plotIDMILL-18-0021 -2.500e+00 1.192e+01 -0.210 0.834265
## plotIDMILL-20-0010 -1.500e+00 1.148e+01 -0.131 0.896328

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## plotIDMILL-20-0044 -2.500e+00 6.242e+00 -0.401 0.689604
## plotIDMILL-24-0016 -2.500e+00 1.960e+01 -0.128 0.898781
## plotIDMILL-24-0059 -2.500e+00 2.163e+01 -0.116 0.908232
## plotIDMILL-25-0044 -1.500e+00 2.410e+01 -0.062 0.950501
## plotIDMILL-27-0041 -2.500e+00 2.367e+01 -0.106 0.916111
## plotIDMILL-27-0065 -2.500e+00 2.739e+01 -0.091 0.927456
## plotIDMILL-27-0110 -5.000e-01 3.077e+01 -0.016 0.987068
## plotIDMILL-27-0202 -2.500e+00 2.601e+01 -0.096 0.923608
## plotIDPITT-01-0001 -4.000e+00 2.693e+01 -0.149 0.882207
## plotIDPITT-01-0002 5.771e-11 2.720e+01 0.000 1.000000
## plotIDPITT-01-0003 -4.000e+00 2.750e+01 -0.145 0.884622
## plotIDPITT-01-0005 1.000e+00 3.258e+01 0.031 0.975572
## plotIDPITT-01-0006 6.182e-11 2.896e+01 0.000 1.000000
## plotIDPITT-01-0007 -4.000e+00 2.525e+01 -0.158 0.874427
## plotIDPITT-01-0008 -4.000e+00 2.347e+01 -0.170 0.864995
## plotIDPITT-01-0009 1.000e+00 2.952e+01 0.034 0.973041
## plotIDPITT-01-0010 1.000e+00 3.424e+01 0.029 0.976759
## plotIDPITT-01-0011 4.964e-11 2.376e+01 0.000 1.000000
## plotIDPITT-01-0012 -5.000e+00 2.501e+01 -0.200 0.841924
## plotIDPITT-01-0014 5.889e-11 2.751e+01 0.000 1.000000
## plotIDPITT-01-0015 -4.000e+00 2.238e+01 -0.179 0.858503
## plotIDPITT-01-0016 5.869e-11 2.764e+01 0.000 1.000000
## plotIDPITT-01-0017 -4.000e+00 2.658e+01 -0.150 0.880692
## plotIDPITT-01-0018 6.154e-11 2.888e+01 0.000 1.000000
## plotIDPITT-01-0019 -4.000e+00 2.511e+01 -0.159 0.873755
## plotIDPITT-01-0020 -4.000e+00 2.419e+01 -0.165 0.868975
## plotIDPITT-01-0021 1.000e+00 2.594e+01 0.039 0.969324
## plotIDPITT-01-0022 1.000e+00 2.046e+01 0.049 0.961122
## plotIDPITT-01-0023 -4.000e+00 2.681e+01 -0.149 0.881678
## plotIDPITT-01-0024 5.226e-11 2.479e+01 0.000 1.000000
## plotIDPITT-01-0025 -4.000e+00 2.571e+01 -0.156 0.876686
## plotIDPITT-01-0026 -4.000e+00 3.266e+01 -0.122 0.902764
## plotIDPITT-01-0027 -2.000e+00 2.528e+01 -0.079 0.937101
## plotIDPITT-01-0028 -4.000e+00 2.571e+01 -0.156 0.876685
## plotIDPITT-01-0029 -4.000e+00 2.818e+01 -0.142 0.887416
## plotIDPITT-01-0030 -4.000e+00 2.581e+01 -0.155 0.877154
## plotIDPITT-01-0032 -4.000e+00 2.956e+01 -0.135 0.892638
## plotIDPITT-01-0033 -2.000e+00 2.965e+01 -0.067 0.946356
## plotIDPITT-01-0036 -2.000e+00 2.924e+01 -0.068 0.945602
## plotIDPITT-01-0037 -4.000e+00 2.809e+01 -0.142 0.887043
## plotIDPITT-01-0038 -4.000e+00 2.210e+01 -0.181 0.856715
## plotIDPITT-01-0039 -1.000e+00 2.970e+01 -0.034 0.973206
## plotIDPITT-01-0040 -4.000e+00 2.954e+01 -0.135 0.892542
## plotIDPITT-01-0041 -1.000e+00 3.073e+01 -0.033 0.974103
## plotIDPITT-01-0042 -2.000e+00 3.127e+01 -0.064 0.949123
## plotIDPITT-01-0043 -1.000e+00 3.156e+01 -0.032 0.974787
## plotIDPITT-01-0044 2.000e+00 2.616e+01 0.076 0.939214
## plotIDPITT-01-0045 -4.000e+00 2.098e+01 -0.191 0.849151
## plotIDUFRL-01-0001 -1.750e+00 1.976e+01 -0.089 0.929614
## plotIDUFRL-01-0002 -1.750e+00 1.867e+01 -0.094 0.925523
## plotIDUFRL-01-0003 -7.500e-01 1.902e+01 -0.039 0.968625
## plotIDUFRL-01-0004 -1.750e+00 1.519e+01 -0.115 0.908508
## plotIDUFRL-01-0005 -1.750e+00 1.525e+01 -0.115 0.908882
## plotIDUFRL-01-0006 -7.500e-01 1.551e+01 -0.048 0.961540

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## plotIDUFRL-01-0007 -7.500e-01 1.545e+01 -0.049 0.961375
## plotIDUFRL-01-0008 -7.500e-01 1.520e+01 -0.049 0.960733
## plotIDUFRL-01-0009 -7.500e-01 1.555e+01 -0.048 0.961632
## plotIDUFRL-01-0010 -2.750e+00 1.599e+01 -0.172 0.863824
## plotIDUFRL-01-0012 -5.750e+00 2.065e+01 -0.278 0.781206
## plotIDUFRL-01-0013 -2.750e+00 2.040e+01 -0.135 0.893059
## plotIDUFRL-01-0014 -1.750e+00 2.099e+01 -0.083 0.933721
## plotIDUFRL-01-0015 -7.500e-01 2.027e+01 -0.037 0.970559
## plotIDUFRL-01-0018 -2.750e+00 1.820e+01 -0.151 0.880191
## plotIDUFRL-01-0019 1.250e+00 1.859e+01 0.067 0.946523
## plotIDUFRL-01-0020 2.500e-01 1.877e+01 0.013 0.989402
## plotIDUFRL-01-0021 -5.750e+00 1.590e+01 -0.362 0.718357
## plotIDUFRL-01-0022 -7.500e-01 1.412e+01 -0.053 0.957734
## plotIDUFRL-01-0023 -2.750e+00 2.441e+01 -0.113 0.910520
## plotIDUFRL-01-0024 -2.750e+00 2.442e+01 -0.113 0.910570
## plotIDUFRL-01-0025 -4.750e+00 2.420e+01 -0.196 0.844772
## plotIDUFRL-01-0026 -2.750e+00 2.377e+01 -0.116 0.908121
## plotIDUFRL-01-0027 -3.750e+00 8.216e+00 -0.456 0.649075
## plotIDUFRL-01-0028 -7.500e-01 2.107e+01 -0.036 0.971678
## plotIDUFRL-01-0029 -7.500e-01 2.052e+01 -0.037 0.970921
## plotIDUFRL-01-0030 -1.750e+00 1.800e+01 -0.097 0.922738
## plotIDUFRL-01-0031 -1.750e+00 1.823e+01 -0.096 0.923711
## plotIDUFRL-01-0032 -2.750e+00 1.980e+01 -0.139 0.889842
## plotIDUFRL-01-0033 -7.500e-01 1.872e+01 -0.040 0.968119
## plotIDUFRL-01-0034 -1.750e+00 2.001e+01 -0.087 0.930489
## plotIDUFRL-01-0035 -4.750e+00 8.730e+00 -0.544 0.587570
## plotIDUFRL-01-0036 -5.750e+00 8.500e+00 -0.676 0.500274
## plotIDUFRL-01-0037 -2.750e+00 2.757e+01 -0.100 0.920746
## plotIDUFRL-01-0038 -2.750e+00 2.760e+01 -0.100 0.920825
## plotIDUFRL-01-0039 -4.750e+00 1.845e+01 -0.257 0.797338
## plotIDUFRL-01-0040 -4.750e+00 1.841e+01 -0.258 0.796944
## plotIDUFRL-01-0041 -1.750e+00 1.825e+01 -0.096 0.923789
## plotIDUFRL-01-0042 -1.750e+00 1.830e+01 -0.096 0.924019
## plotIDUFRL-01-0043 -2.750e+00 1.802e+01 -0.153 0.878981
## plotIDUFRL-01-0044 -1.750e+00 1.583e+01 -0.111 0.912195
## plotIDUFRL-01-0045 -2.750e+00 1.582e+01 -0.174 0.862312
## plotIDUFRL-01-0046 -5.000e-01 1.572e+01 -0.032 0.974694
## plotIDUFRL-01-0047 -2.500e+00 1.559e+01 -0.160 0.872923
## plotIDUFRL-01-0048 -2.500e+00 1.539e+01 -0.162 0.871266
## plotIDUFRL-01-0049 -5.000e-01 1.400e+01 -0.036 0.971577
## plotIDUFRL-01-0050 -5.000e-01 1.352e+01 -0.037 0.970582
## plotIDUFRL-01-0051 -5.000e-01 1.332e+01 -0.038 0.970137
## plotIDUFRL-01-0052 -2.500e+00 1.240e+01 -0.202 0.840654
## plotIDUFRL-01-0053 -5.000e-01 1.030e+01 -0.049 0.961368
## plotIDUFRL-01-0054 -5.000e-01 1.125e+01 -0.044 0.964638
## plotIDUFRL-01-0055 -5.000e-01 1.035e+01 -0.048 0.961550
## plotIDUFRL-01-0056 -5.000e-01 1.017e+01 -0.049 0.960899
## plotIDUFRL-01-0057 -5.000e-01 1.049e+01 -0.048 0.962088
## plotIDUFRL-01-0058 -5.000e-01 9.977e+00 -0.050 0.960129
## plotIDUFRL-01-0059 -5.000e-01 1.407e+01 -0.036 0.971726
## plotIDUFRL-01-0060 -1.500e+00 1.396e+01 -0.107 0.914621
## plotIDUFRL-01-0061 -5.000e-01 1.429e+01 -0.035 0.972149
## plotIDUFRL-01-0062 -5.000e-01 1.406e+01 -0.036 0.971706
## plotIDUFRL-01-0063 -5.000e-01 1.425e+01 -0.035 0.972083

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## plotIDUFRL-01-0064 -5.000e-01 1.783e+01 -0.028 0.977688
## plotIDUFRL-01-0065 5.000e-01 1.764e+01 0.028 0.977448
## plotIDUFRL-01-0066 -5.000e-01 1.765e+01 -0.028 0.977454
## plotIDUFRL-01-0067 -5.000e-01 1.802e+01 -0.028 0.977921
## plotIDUFRL-01-0068 -1.500e+00 1.806e+01 -0.083 0.933959
## plotIDUFRL-01-0069 -5.000e-01 1.819e+01 -0.027 0.978120
## plotIDUFRL-01-0070 -2.500e+00 1.507e+01 -0.166 0.868590
## plotIDUFRL-01-0071 -5.000e-01 1.502e+01 -0.033 0.973519
## plotIDUFRL-01-0072 -1.500e+00 1.519e+01 -0.099 0.921527
## plotIDUFRL-01-0073 -1.500e+00 1.548e+01 -0.097 0.923000
## plotIDUFRL-01-0074 -5.500e+00 1.501e+01 -0.366 0.714845
## plotIDUFRL-01-0075 -5.500e+00 1.509e+01 -0.365 0.716210
## plotIDUFRL-01-0076 -5.000e-01 1.498e+01 -0.033 0.973437
## plotIDUFRL-01-0077 -1.500e+00 2.338e+01 -0.064 0.948965
## plotIDUFRL-01-0078 -1.500e+00 2.323e+01 -0.065 0.948641
## plotIDUFRL-01-0079 -1.500e+00 2.317e+01 -0.065 0.948520
## plotIDUFRL-01-0080 -1.500e+00 2.291e+01 -0.065 0.947932
## plotIDUFRL-01-0081 -2.500e+00 2.313e+01 -0.108 0.914152
## plotIDUFRL-01-0082 -1.500e+00 2.251e+01 -0.067 0.946998
## plotIDUFRL-01-0083 -5.000e-01 1.035e+01 -0.048 0.961578
## plotIDUFRL-01-0084 -5.000e-01 1.080e+01 -0.046 0.963175
## plotIDUFRL-01-0085 -5.000e-01 1.164e+01 -0.043 0.965815
## plotIDUFRL-01-0086 -5.000e-01 1.159e+01 -0.043 0.965665
## plotIDUFRL-01-0087 -1.500e+00 1.139e+01 -0.132 0.895522
## plotIDUFRL-01-0088 -4.500e+00 1.083e+01 -0.415 0.678748
## plotIDUFRL-01-0089 5.000e-01 1.021e+01 0.049 0.961037
## plotIDUFRL-01-0090 1.500e+00 2.853e+01 0.053 0.958180
## plotIDUFRL-01-0091 -1.500e+00 2.865e+01 -0.052 0.958341
## plotIDUFRL-01-0092 -2.500e+00 2.778e+01 -0.090 0.928464
## plotIDUFRL-01-0093 -1.500e+00 1.599e+01 -0.094 0.925456
## plotIDUFRL-01-0094 -2.500e+00 1.599e+01 -0.156 0.876062
## plotIDUFRL-01-0101 -1.500e+00 1.557e+01 -0.096 0.923438
## plotIDUFRL-01-0102 1.500e+00 1.350e+01 0.111 0.911779
## plotIDUFRL-01-0103 -5.000e-01 1.401e+01 -0.036 0.971605
## plotIDUFRL-01-0104 -1.500e+00 1.548e+01 -0.097 0.923003
## plotIDUFRL-01-0105 1.500e+00 1.217e+01 0.123 0.902124
## plotIDUFRL-01-0106 1.500e+00 1.085e+01 0.138 0.890332
## plotIDUFRL-01-0154 -2.500e+00 5.812e+00 -0.430 0.668029
## plotIDUFRL-01-0155 -6.500e+00 5.912e+00 -1.099 0.274188
## plotIDUFRL-01-0160 -5.000e-01 8.182e+00 -0.061 0.951391
## plotIDUFRL-01-0161 -1.500e+00 8.848e+00 -0.170 0.865724
## plotIDUFRL-01-0162 1.500e+00 8.825e+00 0.170 0.865367
## plotIDUFRL-01-0163 -5.500e+00 9.077e+00 -0.606 0.545932
## plotIDUFRL-01-0164 1.500e+00 7.858e+00 0.191 0.848994
## plotIDUFRL-01-0165 5.000e-01 2.544e+01 0.020 0.984358
## plotIDUFRL-01-0166 5.000e-01 6.821e+00 0.073 0.941708
## plotIDUFRL-01-0167 1.500e+00 2.497e+01 0.060 0.952223
## plotIDUFRL-01-0168 1.500e+00 2.476e+01 0.061 0.951815
## plotIDUFRL-01-0169 -3.500e+00 2.465e+01 -0.142 0.887380
## plotIDUFRL-02-0001 -7.500e-01 1.253e+01 -0.060 0.952383
## plotIDUFRL-02-0002 2.250e+00 1.279e+01 0.176 0.860744
## plotIDUFRL-02-0003 -2.750e+00 1.258e+01 -0.219 0.827343
## plotIDUFRL-02-0004 -1.750e+00 1.263e+01 -0.139 0.890111
## plotIDUFRL-02-0005 -4.750e+00 9.987e+00 -0.476 0.635375

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## plotIDUFRL-02-0007 -2.750e+00 8.279e+00 -0.332 0.740448
## plotIDUFRL-02-0008 -1.750e+00 9.483e+00 -0.185 0.853966
## plotIDUFRL-02-0009 1.562e-01 9.556e+00 0.016 0.986987
## plotIDUFRL-02-0011 -5.313e-01 8.762e+00 -0.061 0.951774
## plotIDUFRL-02-0014 -4.844e+00 9.299e+00 -0.521 0.603596
## plotIDUFRL-02-0015 -1.844e+00 9.399e+00 -0.196 0.844874
## plotIDUFRL-02-0016 -4.750e+00 8.035e+00 -0.591 0.555715
## plotIDUFRL-02-0017 2.250e+00 9.297e+00 0.242 0.809265
## plotIDUFRL-02-0018 2.250e+00 8.569e+00 0.263 0.793405
## plotIDUFRL-02-0019 -7.500e-01 8.142e+00 -0.092 0.926792
## plotIDUFRL-02-0030 -1.750e+00 1.384e+01 -0.126 0.899611
## plotIDUFRL-02-0031 1.250e+00 1.661e+01 0.075 0.940154
## plotIDUFRL-02-0032 2.250e+00 1.614e+01 0.139 0.889399
## plotIDUFRL-02-0033 -1.750e+00 8.913e+00 -0.196 0.844737
## plotIDUFRL-02-0034 3.125e-01 8.713e+00 0.036 0.971459
## plotIDUFRL-02-0035 -1.750e+00 8.480e+00 -0.206 0.836916
## plotIDUFRL-02-0036 5.000e-01 5.568e+00 0.090 0.928621
## plotIDUFRL-02-0037 -3.750e+00 1.065e+01 -0.352 0.725428
## plotIDUFRL-02-0038 -2.250e+00 7.556e+00 -0.298 0.766489
## plotIDUFRL-02-0039 -3.500e+00 8.320e+00 -0.421 0.674891
## plotIDUFRL-02-0041 -1.750e+00 1.072e+01 -0.163 0.870673
## plotIDUFRL-02-0044 2.250e+00 9.533e+00 0.236 0.813889
## plotIDUFRL-02-0045 -2.750e+00 9.496e+00 -0.290 0.772712
## plotIDUFRL-02-0046 -7.500e-01 9.193e+00 -0.082 0.935138
## plotIDUFRL-02-0047 -7.500e-01 1.110e+01 -0.068 0.946286
## plotIDUFRL-02-0048 2.500e-01 1.080e+01 0.023 0.981573
## plotIDUFRL-02-0049 2.250e+00 9.655e+00 0.233 0.816211
## plotIDUFRL-02-0050 -1.750e+00 8.886e+00 -0.197 0.844278
## plotIDUFRL-02-0051 -4.750e+00 1.058e+01 -0.449 0.654298
## plotIDUFRL-02-0052 3.250e+00 9.957e+00 0.326 0.744786
## plotIDUFRL-02-0053 -7.500e-01 8.667e+00 -0.087 0.931209
## plotIDUFRL-02-0054 -2.750e+00 1.164e+01 -0.236 0.813656
## plotIDUFRL-02-0055 3.250e+00 1.126e+01 0.289 0.773487
## plotIDUFRL-02-0056 2.500e-01 1.008e+01 0.025 0.980269
## plotIDUFRL-02-0057 2.250e+00 9.753e+00 0.231 0.818007
## plotIDUFRL-02-0058 -7.500e-01 9.855e+00 -0.076 0.939488
## plotIDUFRL-02-0059 -7.500e-01 1.008e+01 -0.074 0.940834
## plotIDUFRL-02-0060 -1.563e+00 8.798e+00 -0.178 0.859396
## plotIDUFRL-02-0061 1.781e+00 7.609e+00 0.234 0.815381
## plotIDUFRL-02-0063 -2.500e+00 1.209e+01 -0.207 0.836644
## plotIDUFRL-02-0064 -2.500e+00 1.222e+01 -0.205 0.838246
## plotIDUFRL-02-0100 2.500e+00 1.741e+01 0.144 0.886095
## plotIDUFRL-02-0101 -5.000e-01 1.773e+01 -0.028 0.977555
## plotIDUFRL-02-0102 -5.000e-01 1.804e+01 -0.028 0.977948
## plotIDUFRL-02-0103 5.000e-01 1.805e+01 0.028 0.977958
## plotIDUFRL-02-0104 -4.500e+00 1.817e+01 -0.248 0.804922
## plotIDUFRL-02-0105 -2.500e+00 1.782e+01 -0.140 0.888739
## plotIDUFRL-02-0106 2.500e+00 1.773e+01 0.141 0.888145
## plotIDUFRL-02-0107 -1.500e+00 1.786e+01 -0.084 0.933252
## plotIDUFRL-02-0108 2.500e+00 1.802e+01 0.139 0.889942
## plotIDUFRL-02-0109 2.500e+00 1.707e+01 0.146 0.883856
## plotIDUFRL-02-0110 2.500e+00 1.730e+01 0.144 0.885419
## plotIDUFRL-02-0111 -2.500e+00 1.729e+01 -0.145 0.885299
## plotIDUFRL-02-0112 -4.500e+00 1.750e+01 -0.257 0.797536

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## plotIDUFRL-02-0113 -4.500e+00 1.692e+01 -0.266 0.790815
## plotIDUFRL-02-0114 2.500e+00 1.692e+01 0.148 0.882824
## plotIDUFRL-02-0115 1.500e+00 1.697e+01 0.088 0.929739
## plotIDUFRL-02-0116 -4.500e+00 1.899e+01 -0.237 0.813148
## plotIDUFRL-02-0117 -4.000e+00 1.929e+01 -0.207 0.836157
## plotIDUFRL-02-0118 -1.500e+00 1.872e+01 -0.080 0.936285
## plotIDUFRL-02-0119 -5.000e-01 1.884e+01 -0.027 0.978882
## plotIDUFRL-02-0120 5.000e-01 1.822e+01 0.027 0.978157
## plotIDUFRL-02-0121 -1.500e+00 1.808e+01 -0.083 0.934027
## plotIDUFRL-02-0122 -5.000e-01 1.826e+01 -0.027 0.978211
## plotIDUFRL-02-0123 5.000e-01 1.805e+01 0.028 0.977950
## plotIDUFRL-02-0124 5.000e-01 1.838e+01 0.027 0.978356
## plotIDUFRL-02-0125 -5.000e-01 1.828e+01 -0.027 0.978238
## plotIDUFRL-02-0126 -5.000e-01 1.981e+01 -0.025 0.979911
## plotIDUFRL-02-0127 2.500e+00 1.959e+01 0.128 0.898719
## plotIDUFRL-02-0128 -5.000e-01 2.076e+01 -0.024 0.980830
## plotIDUFRL-02-0129 2.500e+00 1.901e+01 0.131 0.895652
## plotIDUFRL-02-0136 -1.406e+00 2.073e+01 -0.068 0.946057
## plotIDUFRL-02-0137 5.000e-01 2.073e+01 0.024 0.980806
## plotIDUFRL-02-0138 -4.000e+00 2.049e+01 -0.195 0.845590
## plotIDUFRL-02-0139 -5.000e+00 2.201e+01 -0.227 0.820721
## plotIDUFRL-02-0142 -1.500e+00 2.085e+01 -0.072 0.942791
## plotIDUFRL-02-0144 -2.000e+00 1.978e+01 -0.101 0.919648
## plotIDUFRL-02-0145 -3.000e+00 2.045e+01 -0.147 0.883656
## plotIDUFRL-02-0146 -4.906e+00 2.146e+01 -0.229 0.819632
## plotIDUFRL-02-0148 -5.000e-01 2.120e+01 -0.024 0.981231
## plotIDUFRL-02-0149 -5.500e+00 2.173e+01 -0.253 0.800668
## plotIDUFRL-02-0152 5.937e-01 1.644e+01 0.036 0.971269
## plotIDUFRL-02-0153 -5.000e-01 1.660e+01 -0.030 0.976031
## plotIDUFRL-02-0154 5.000e-01 1.602e+01 0.031 0.975160
## plotIDUFRL-02-0155 5.000e-01 1.617e+01 0.031 0.975391
## plotIDUFRL-02-0156 -5.000e-01 1.575e+01 -0.032 0.974734
## plotIDUFRL-02-0157 -5.000e-01 1.574e+01 -0.032 0.974726
## plotIDUFRL-02-0158 5.000e-01 1.645e+01 0.030 0.975807
## plotIDUFRL-02-0159 2.500e-01 1.587e+01 0.016 0.987466
## plotIDUFRL-02-0160 7.500e-01 1.583e+01 0.047 0.962315
## plotIDUFRL-02-0161 -4.500e+00 1.675e+01 -0.269 0.788710
## plotIDUFRL-02-0162 -5.000e-01 1.624e+01 -0.031 0.975503
## plotIDUFRL-02-0163 -2.500e+00 1.616e+01 -0.155 0.877367
## plotIDUFRL-02-0164 5.000e-01 1.628e+01 0.031 0.975565
## plotIDUFRL-02-0165 -3.500e+00 1.668e+01 -0.210 0.834186
## plotIDUFRL-02-0166 5.000e-01 1.697e+01 0.029 0.976556
## plotIDUFRL-02-0167 5.000e-01 1.723e+01 0.029 0.976900
## plotIDUFRL-02-0176 -2.500e+00 8.666e+00 -0.288 0.773573
## plotIDUFRL-02-0177 -5.000e-01 7.724e+00 -0.065 0.948513
## plotIDUFRL-02-0178 2.500e+00 1.322e+01 0.189 0.850436
## plotIDUFRL-02-0999 -2.750e+00 8.400e+00 -0.327 0.744046
## plotIDUFRL-03-0001 -3.500e+00 2.484e+00 -1.409 0.161832
## plotIDUFRL-03-0002 -2.500e+00 1.349e+00 -1.854 0.066676 .
## plotIDUFRL-03-0003 3.500e+00 1.364e+00 2.566 0.011741 *
## plotIDUFRL-03-0004 -2.500e+00 1.543e+00 -1.620 0.108315
## plotIDUFRL-03-0005 -1.500e+00 1.923e+00 -0.780 0.437214
## plotIDUFRL-03-0007 2.500e+00 3.329e+00 0.751 0.454451
## plotIDUFRL-03-0008 5.000e-01 3.712e+00 0.135 0.893105

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## plotIDUFRL-03-0009  1.500e+00  3.397e+00   0.442  0.659742
## plotIDUFRL-03-0010 -5.000e-01  2.809e+00  -0.178  0.859082
## plotIDUFRL-03-0013  7.500e-01  4.939e+00   0.152  0.879615
## plotIDUFRL-03-0014  2.500e+00  2.822e+00   0.886  0.377800
## plotIDUFRL-03-0015 -7.500e-01  4.840e+00  -0.155  0.877164
## plotIDUFRL-03-0016 -3.500e+00  4.575e+00  -0.765  0.446002
## plotIDUFRL-03-0017 -5.000e-01  2.608e+00  -0.192  0.848366
## plotIDUFRL-03-0018 -2.500e+00  2.619e+00  -0.955  0.342025
## plotIDUFRL-03-0019  5.000e-01  1.685e+00   0.297  0.767294
## plotIDUFRL-03-0020 -5.500e+00  1.829e+00  -3.007  0.003327 **
## plotIDUFRL-03-0021 -3.500e+00  2.877e+00  -1.216  0.226672
## plotIDUFRL-03-0022 -3.500e+00  3.343e+00  -1.047  0.297676
## plotIDUFRL-03-0023 -5.500e+00  3.044e+00  -1.807  0.073738 .
## plotIDUFRL-03-0024 -2.500e+00  2.949e+00  -0.848  0.398634
## plotIDUFRL-03-0025 -5.000e-01  2.814e+00  -0.178  0.859319
## plotIDUFRL-03-0026 -1.500e+00  2.221e+00  -0.676  0.500887
## plotIDUFRL-03-0027 -2.500e+00  1.180e+00  -2.119  0.036549 *
## plotIDUFRL-03-0028  2.500e+00  1.160e+00   2.156  0.033468 *
## plotIDUFRL-05-0001 -4.750e+00  8.526e+00  -0.557  0.578685
## plotIDUFRL-05-0002 -4.750e+00  8.325e+00  -0.571  0.569565
## plotIDUFRL-05-0003 -2.750e+00  8.349e+00  -0.329  0.742561
## plotIDUFRL-05-0131 -4.500e+00  5.804e+00  -0.775  0.439972
## plotIDUFRL-05-0132 -2.000e+00  5.755e+00  -0.348  0.728913
## plotIDUFRL-05-0144 -3.500e+00  4.273e+00  -0.819  0.414712
## plotIDUFRL-05-0145 -3.500e+00  4.531e+00  -0.773  0.441610
## plotIDUFRL-05-0146 -3.500e+00  3.910e+00  -0.895  0.372798
## plotIDUFRL-05-0147 -3.500e+00  4.572e+00  -0.766  0.445700
## plotIDUFRL-05-0148 -2.500e+00  4.475e+00  -0.559  0.577653
## plotIDUFRL-05-0149 -3.500e+00  4.332e+00  -0.808  0.421042
## plotIDUFRL-05-0150 -3.500e+00  3.898e+00  -0.898  0.371384
## plotIDUFRL-05-0151 -5.000e-01  4.005e+00  -0.125  0.900892
## plotIDUFRL-05-0152 -1.500e+00  4.034e+00  -0.372  0.710819
## plotIDUFRL-05-0157 -3.500e+00  4.005e+00  -0.874  0.384226
## plotIDUFRL-05-0158 -3.500e+00  3.912e+00  -0.895  0.373116
## plotIDUFRL-05-0159 -3.500e+00  3.916e+00  -0.894  0.373519
## plotIDUFRL-2A-0142 -3.500e+00  5.585e+00  -0.627  0.532257
## plotIDUFRL-2A-0143 -3.500e+00  5.521e+00  -0.634  0.527551
## plotIDULRY-04-0001 -2.000e+00  1.419e+01  -0.141  0.888171
## plotIDULRY-04-0004  2.000e+00  2.278e+01   0.088  0.930217
## plotIDULRY-04-0005 -2.000e+00  1.888e+01  -0.106  0.915838
## plotIDULRY-04-0006 -5.000e+00  1.942e+01  -0.258  0.797309
## plotIDULRY-04-0009  1.000e+00  1.916e+01   0.052  0.958469
## plotIDULRY-04-0011 -3.000e+00  1.868e+01  -0.161  0.872740
## plotIDULRY-04-0014  3.625e-11  1.697e+01   0.000  1.000000
## plotIDULRY-04-0016  3.792e-11  1.777e+01   0.000  1.000000
## plotIDULRY-04-0018  2.000e+00  1.571e+01   0.127  0.898954
## plotIDULRY-04-0019 -2.000e+00  1.566e+01  -0.128  0.898652
## plotIDULRY-04-0020 -2.000e+00  2.624e+01  -0.076  0.939400
## plotIDULRY-04-0021  2.000e+00  2.337e+01   0.086  0.931981
## plotIDULRY-04-0022  1.000e+00  2.250e+01   0.044  0.964631
## plotIDULRY-04-0023 -1.000e+00  2.706e+01  -0.037  0.970590
## plotIDULRY-04-0031  1.000e+00  1.419e+01   0.070  0.943945
## plotIDULRY-04-0032  1.000e+00  1.447e+01   0.069  0.945052
## plotIDULRY-04-0033  1.000e+00  1.532e+01   0.065  0.948100

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## plotIDULRY-04-0034 1.000e+00 8.415e+00 0.119 0.905640
## plotIDULRY-04-0035 1.000e+00 8.498e+00 0.118 0.906556
## plotIDULRY-04-0036 1.000e+00 6.791e+00 0.147 0.883228
## plotIDULRY-04-0037 1.000e+00 9.450e+00 0.106 0.915935
## plotIDULRY-04-0038 -1.832e-11 9.131e+00 0.000 1.000000
## plotIDULRY-04-0039 -1.000e+00 7.478e+00 -0.134 0.893882
## plotIDULRY-04-0040 -2.051e-11 1.038e+01 0.000 1.000000
## plotIDULRY-04-0041 -2.141e-11 1.066e+01 0.000 1.000000
## plotIDULRY-04-0042 1.000e+00 1.742e+01 0.057 0.954341
## plotIDULRY-04-0044 -4.531e-11 2.161e+01 0.000 1.000000
## plotIDULRY-04-0047 1.000e+00 1.923e+01 0.052 0.958624
## plotIDULRY-04-0048 1.000e+00 1.969e+01 0.051 0.959602
## plotIDULRY-04-0052 -3.445e-11 1.644e+01 0.000 1.000000
## plotIDULRY-04-0054 1.000e+00 1.569e+01 0.064 0.949307
## plotIDULRY-04-0055 1.000e+00 1.543e+01 0.065 0.948446
## plotIDULRY-04-0060 -1.000e+00 9.333e+00 -0.107 0.914886
## plotIDULRY-04-0063 3.981e-11 1.885e+01 0.000 1.000000
## plotIDULRY-04-0064 1.000e+00 2.495e+01 0.040 0.968106
## plotIDULRY-04-0065 -3.000e+00 2.521e+01 -0.119 0.905521
## plotIDULRY-04-0068 -5.000e+00 2.712e+01 -0.184 0.854089
## plotIDULRY-04-0073 -2.000e+00 1.957e+01 -0.102 0.918805
## plotIDULRY-04-0076 -3.000e+00 1.467e+01 -0.205 0.838366
## plotIDULRY-04-0079 -1.000e+00 2.334e+01 -0.043 0.965916
## plotIDULRY-04-0080 5.284e-11 2.464e+01 0.000 1.000000
## plotIDULRY-04-0082 -3.000e+00 2.753e+01 -0.109 0.913437
## plotIDULRY-04-0084 -1.000e+00 2.094e+01 -0.048 0.961998
## plotIDULRY-04-0085 -2.000e+00 2.866e+01 -0.070 0.944508
## plotIDULRY-04-0086 -2.000e+00 2.811e+01 -0.071 0.943418
## plotIDULRY-04-0087 4.363e-11 2.048e+01 0.000 1.000000
## plotIDULRY-04-0088 1.000e+00 8.715e+00 0.115 0.908877
## plotIDULRY-04-0089 -2.678e-11 1.283e+01 0.000 1.000000
## plotIDULRY-04-0097 -5.000e+00 1.715e+01 -0.292 0.771262
## plotIDULRY-04-0099 1.000e+00 2.590e+01 0.039 0.969280
## plotIDULRY-04-0100 1.000e+00 2.566e+01 0.039 0.968996
## plotIDULRY-04-0102 -2.465e-11 1.174e+01 0.000 1.000000
## plotIDULRY-04-0103 5.139e-11 2.407e+01 0.000 1.000000
## plotIDULRY-04-0109 3.623e-11 1.697e+01 0.000 1.000000
## plotIDULRY-04-0110 1.000e+00 1.704e+01 0.059 0.953321
## plotIDULRY-04-0111 2.000e+00 1.694e+01 0.118 0.906266
## plotIDULRY-04-0116 2.584e-11 1.197e+01 0.000 1.000000
## plotIDULRY-04-0118 6.108e-11 2.883e+01 0.000 1.000000
## plotIDULRY-04-0119 -3.308e-11 1.634e+01 0.000 1.000000
## plotIDULRY-04-0120 -1.000e+00 1.656e+01 -0.060 0.951967
## plotIDULRY-04-0122 -4.000e+00 1.418e+01 -0.282 0.778481
## plotIDULRY-04-0124 -3.414e-11 1.660e+01 0.000 1.000000
## plotIDULRY-04-0126 2.000e+00 1.610e+01 0.124 0.901389
## plotIDULRY-04-0127 1.000e+00 1.904e+01 0.053 0.958223
## plotIDULRY-04-0128 1.000e+00 1.852e+01 0.054 0.957042
## plotIDULRY-04-0129 1.000e+00 1.853e+01 0.054 0.957060
## plotIDULRY-04-0130 1.000e+00 2.299e+01 0.044 0.965386
## plotIDULRY-04-0131 -3.000e+00 2.309e+01 -0.130 0.896878
## plotIDULRY-04-0132 -1.000e+00 2.309e+01 -0.043 0.965544
## plotIDULRY-04-0135 1.000e+00 1.351e+01 0.074 0.941160
## plotIDULRY-04-0136 2.755e-11 1.288e+01 0.000 1.000000

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## plotIDULRY-04-0137  1.000e+00  1.316e+01  0.076 0.939598
## plotIDULRY-04-0140  4.208e-11  1.975e+01  0.000 1.000000
## plotIDULRY-04-0152 -1.000e+00  1.402e+01 -0.071 0.943262
## plotIDULRY-04-0153 -3.000e+00  1.407e+01 -0.213 0.831622
## plotIDULRY-05-0200  1.000e+00  8.695e+00  0.115 0.908668
## plotIDULRY-05-0202 -4.000e+00  1.300e+01 -0.308 0.759035
## plotIDULRY-05-0204  1.000e+00  1.305e+01  0.077 0.939092
## plotIDULRY-05-0205 -3.000e+00  1.297e+01 -0.231 0.817498
## plotIDULRY-05-0206 -1.167e-11  6.087e+00  0.000 1.000000
## plotIDULRY-05-0208 -2.616e-11  1.262e+01  0.000 1.000000
## plotIDULRY-05-0209 -2.558e-11  1.239e+01  0.000 1.000000
## plotIDULRY-05-0211 -4.000e+00  8.620e+00 -0.464 0.643636
## plotIDULRY-05-0212 -2.094e-11  1.005e+01  0.000 1.000000
## plotIDULRY-05-0214 -4.000e+00  1.155e+01 -0.346 0.729712
## plotIDULRY-05-0215 -1.000e+00  1.290e+01 -0.078 0.938378
## plotIDULRY-05-0216  1.000e+00  1.552e+01  0.064 0.948745
## plotIDULRY-05-0217  1.000e+00  1.540e+01  0.065 0.948363
## plotIDULRY-05-0218 -3.257e-11  1.559e+01  0.000 1.000000
## plotIDULRY-05-0219 -1.000e+00  9.186e+00 -0.109 0.913527
## plotIDULRY-05-0220  1.000e+00  9.861e+00  0.101 0.919430
## plotIDULRY-05-0222  1.000e+00  9.796e+00  0.102 0.918898
## plotIDULRY-05-0224 -1.000e+00  1.193e+01 -0.084 0.933375
## plotIDULRY-05-0226 -1.528e-11  7.484e+00  0.000 1.000000
## plotIDULRY-05-0227  1.000e+00  7.172e+00  0.139 0.889381
## plotIDULRY-05-0228  1.000e+00  1.151e+01  0.087 0.930922
## plotIDULRY-05-0234  1.000e+00  1.400e+01  0.071 0.943187
## plotIDULRY-05-0237 -1.000e+00  8.092e+00 -0.124 0.901889
## plotIDULRY-05-0238 -1.349e-11  6.819e+00  0.000 1.000000
## plotIDULRY-05-0239 -1.688e-11  8.403e+00  0.000 1.000000
## plotIDULRY-05-0240  1.000e+00  1.217e+01  0.082 0.934694
## plotIDULRY-05-0242 -2.648e-11  1.276e+01  0.000 1.000000
## plotIDULRY-05-0245  1.000e+00  1.762e+01  0.057 0.954853
## plotIDULRY-05-0248 -5.000e+00  2.176e+01 -0.230 0.818718
## plotIDULRY-05-0249 -1.000e+00  2.555e+01 -0.039 0.968852
## plotIDULRY-05-0253 -3.000e+00  1.882e+01 -0.159 0.873657
## plotIDULRY-05-0255 -3.660e-11  1.766e+01  0.000 1.000000
## plotIDULRY-05-0256  2.000e+00  1.951e+01  0.103 0.918553
## plotIDULRY-05-0257 -4.157e-11  2.004e+01  0.000 1.000000
## plotIDULRY-05-0258 -4.489e-11  2.172e+01  0.000 1.000000
## plotIDULRY-05-0259 -2.000e+00  2.167e+01 -0.092 0.926651
## plotIDULRY-05-0260  2.000e+00  2.048e+01  0.098 0.922417
## plotIDULRY-05-0261 -3.103e-11  1.495e+01  0.000 1.000000
## plotIDULRY-05-0262 -2.000e+00  1.599e+01 -0.125 0.900716
## plotIDULRY-05-0263  2.000e+00  1.560e+01  0.128 0.898240
## plotIDULRY-05-0264 -1.000e+00  1.179e+01 -0.085 0.932548
## plotIDULRY-05-0265 -2.597e-11  1.253e+01  0.000 1.000000
## plotIDULRY-05-0266  1.000e+00  1.183e+01  0.085 0.932808
## plotIDWHCA-01-0050 -2.813e-11  1.352e+01  0.000 1.000000
## plotIDWHCA-01-0051 -2.768e-11  1.332e+01  0.000 1.000000
## plotIDWHCA-01-0055 -2.075e-11  1.034e+01  0.000 1.000000
## plotIDWHCA-01-0056 -2.037e-11  1.017e+01  0.000 1.000000
## plotIDWHCA-01-0057 -2.096e-11  1.048e+01  0.000 1.000000
## plotIDWHCA-01-0058 -1.989e-11  9.965e+00  0.000 1.000000
## plotIDWHCA-01-0059 -2.936e-11  1.406e+01  0.000 1.000000

```

```

## plotIDWHCA-01-0060 -1.000e+00 1.395e+01 -0.072 0.942984
## plotIDWHCA-01-0061 -2.980e-11 1.428e+01 0.000 1.000000
## plotIDWHCA-01-0062 -2.928e-11 1.405e+01 0.000 1.000000
## plotIDWHCA-01-0063 -2.979e-11 1.424e+01 0.000 1.000000
## plotIDWHCA-01-0064 -3.755e-11 1.783e+01 0.000 1.000000
## plotIDWHCA-01-0065 1.000e+00 1.764e+01 0.057 0.954899
## plotIDWHCA-01-0066 -3.716e-11 1.764e+01 0.000 1.000000
## plotIDWHCA-01-0070 -2.000e+00 1.506e+01 -0.133 0.894648
## plotIDWHCA-01-0071 -3.091e-11 1.502e+01 0.000 1.000000
## plotIDWHCA-01-0072 -1.000e+00 1.518e+01 -0.066 0.947609
## plotIDWHCA-01-0074 -5.000e+00 1.500e+01 -0.333 0.739648
## plotIDWHCA-01-0075 -5.000e+00 1.508e+01 -0.332 0.740906
## plotIDWHCA-02-0044 -4.000e+00 9.532e+00 -0.420 0.675645
## plotIDWHCA-02-0045 -3.000e+00 9.505e+00 -0.316 0.752940
## plotIDWHCA-02-0046 -1.908e-11 9.192e+00 0.000 1.000000
## plotIDWHCA-02-0047 -2.311e-11 1.108e+01 0.000 1.000000
## plotIDWHCA-02-0048 1.000e+00 1.080e+01 0.093 0.926377
## plotIDWHCA-02-0049 -1.999e-11 9.612e+00 0.000 1.000000
## plotIDWHCA-02-0050 -1.000e+00 8.861e+00 -0.113 0.910368
## plotIDWHCA-02-0052 1.000e+00 9.980e+00 0.100 0.920385
## plotIDWHCA-02-0053 -1.790e-11 8.639e+00 0.000 1.000000
## plotIDWHCA-02-0054 -4.000e+00 1.154e+01 -0.347 0.729535
## plotIDWHCA-02-0055 -2.337e-11 1.119e+01 0.000 1.000000
## plotIDWHCA-02-0056 1.000e+00 1.006e+01 0.099 0.921021
## plotIDWHCA-02-0057 -2.037e-11 9.782e+00 0.000 1.000000
## plotIDWHCA-02-0059 -2.091e-11 1.007e+01 0.000 1.000000
## plotIDWHCA-02-0100 -1.000e+00 1.740e+01 -0.057 0.954271
## plotIDWHCA-02-0101 -2.000e+00 1.762e+01 -0.113 0.909869
## plotIDWHCA-02-0102 -3.782e-11 1.803e+01 0.000 1.000000
## plotIDWHCA-02-0103 1.000e+00 1.805e+01 0.055 0.955919
## plotIDWHCA-02-0104 -4.000e+00 1.817e+01 -0.220 0.826177
## plotIDWHCA-02-0105 -4.000e+00 1.777e+01 -0.225 0.822342
## plotIDWHCA-02-0106 -3.714e-11 1.772e+01 0.000 1.000000
## plotIDWHCA-02-0107 -1.000e+00 1.786e+01 -0.056 0.955458
## plotIDWHCA-02-0108 -1.000e+00 1.802e+01 -0.055 0.955855
## plotIDWHCA-02-0109 1.000e+00 1.707e+01 0.059 0.953390
## plotIDWHCA-02-0110 1.000e+00 1.731e+01 0.058 0.954053
## plotIDWHCA-02-0111 -2.000e+00 1.728e+01 -0.116 0.908095
## plotIDWHCA-02-0112 -4.000e+00 1.749e+01 -0.229 0.819556
## plotIDWHCA-02-0113 -4.000e+00 1.691e+01 -0.237 0.813520
## plotIDWHCA-02-0114 -3.534e-11 1.688e+01 0.000 1.000000
## plotIDWHCA-02-0115 -3.538e-11 1.690e+01 0.000 1.000000
## plotIDWHCA-02-0120 1.000e+00 1.821e+01 0.055 0.956319
## plotIDWHCA-02-0121 -1.000e+00 1.807e+01 -0.055 0.955975
## plotIDWHCA-02-0122 -3.830e-11 1.826e+01 0.000 1.000000
## plotIDWHCA-02-0124 1.000e+00 1.838e+01 0.054 0.956712
## plotIDWHCA-02-0125 -3.845e-11 1.828e+01 0.000 1.000000
## plotIDWHCA-02-0126 -4.171e-11 1.980e+01 0.000 1.000000
## plotIDWHCA-02-0127 -4.127e-11 1.959e+01 0.000 1.000000
## plotIDWHCA-02-0128 -4.370e-11 2.075e+01 0.000 1.000000
## plotIDWHCA-02-0129 -3.813e-11 1.815e+01 0.000 1.000000
## plotIDWHCA-02-0142 -4.000e+00 2.067e+01 -0.194 0.846907
## plotIDWHCA-02-0144 -1.000e+00 1.979e+01 -0.051 0.959797
## plotIDWHCA-02-0145 -3.000e+00 2.044e+01 -0.147 0.883578

```



```

## plotIDWHCA-02-0146 -4.000e+00 2.146e+01 -0.186 0.852542
## plotIDWHCA-02-0148 -4.463e-11 2.120e+01 0.000 1.000000
## plotIDWHCA-02-0149 -5.000e+00 2.170e+01 -0.230 0.818241
## plotIDWHCA-02-0161 -4.000e+00 1.674e+01 -0.239 0.811650
## plotIDWHCA-02-0162 -3.405e-11 1.624e+01 0.000 1.000000
## plotIDWHCA-02-0163 -2.000e+00 1.615e+01 -0.124 0.901710
## plotIDWHCA-02-0164 1.000e+00 1.627e+01 0.061 0.951108
## plotIDWHCA-03-0002 -3.000e+00 1.255e+00 -2.390 0.018700 *
## plotIDWHCA-03-0003 1.000e+00 1.326e+00 0.754 0.452622
## plotIDWHCA-03-0004 -2.000e+00 1.463e+00 -1.367 0.174512
## plotIDWHCA-03-0005 -1.000e+00 1.859e+00 -0.538 0.591833
## plotIDWHCA-03-0007 -4.658e-12 3.286e+00 0.000 1.000000
## plotIDWHCA-03-0008 -1.000e+00 3.623e+00 -0.276 0.783120
## plotIDWHCA-03-0009 2.000e+00 3.362e+00 0.595 0.553264
## plotIDWHCA-03-0010 -1.000e+00 2.747e+00 -0.364 0.716592
## plotIDWHCA-03-0013 1.000e+00 4.969e+00 0.201 0.840895
## plotIDWHCA-03-0014 1.000e+00 2.793e+00 0.358 0.721018
## plotIDWHCA-03-0015 -8.196e-12 4.892e+00 0.000 1.000000
## plotIDWHCA-03-0016 -3.000e+00 4.528e+00 -0.663 0.509118
## plotIDWHCA-03-0020 -5.000e+00 1.762e+00 -2.838 0.005481 **
## plotIDWHCA-03-0021 -5.000e+00 2.893e+00 -1.728 0.087036 .
## plotIDWHCA-03-0022 -3.000e+00 3.288e+00 -0.912 0.363718
## plotIDWHCA-03-0024 -2.000e+00 2.898e+00 -0.690 0.491643
## plotIDWHCA-03-0025 -1.000e+00 2.784e+00 -0.359 0.720177
## plotIDWHCA-03-0027 -2.000e+00 1.072e+00 -1.865 0.065092 .
## plotIDWHCA-03-0028 8.893e-14 1.050e+00 0.000 1.000000
## plotIDWISR-01-0087 -4.000e+00 4.369e+01 -0.092 0.927228
## date00-00-1977 7.500e-01 6.956e-01 1.078 0.283536
## date00-00-1978 5.000e-01 4.919e-01 1.016 0.311826
## date00-00-1979 1.500e+00 4.919e-01 3.049 0.002927 **
## date00-00-1982 NA NA NA NA
## date00-00-2001 3.125e-01 6.149e-01 0.508 0.612390
## date05-03-2001 -5.000e-01 8.520e-01 -0.587 0.558601
## date05-08-1998 NA NA NA NA
## date05-09-2002 NA NA NA NA
## date05-10-2002 NA NA NA NA
## date05-21-2001 1.500e+00 8.520e-01 1.761 0.081332 .
## date05-21-2004 NA NA NA NA
## date05-22-2004 NA NA NA NA
## date05-23-2000 -2.500e-01 9.838e-01 -0.254 0.799918
## date05-24-2004 NA NA NA NA
## date05-25-2000 3.750e+00 9.838e-01 3.812 0.000237 ***
## date05-25-2004 NA NA NA NA
## date05-26-2004 NA NA NA NA
## date05-27-1998 NA NA NA NA
## date05-27-1999 NA NA NA NA
## date05-30-2000 1.500e+00 8.520e-01 1.761 0.081332 .
## date05-31-2000 7.500e-01 9.838e-01 0.762 0.447618
## date05-31-2001 -2.250e+00 9.838e-01 -2.287 0.024276 *
## date06-01-1998 NA NA NA NA
## date06-02-1998 NA NA NA NA
## date06-02-2000 NA NA NA NA
## date06-03-1998 NA NA NA NA
## date06-04-2002 7.500e-01 9.838e-01 0.762 0.447618

```

## date06-07-1998	NA	NA	NA	NA
## date06-07-2000	4.066e-14	6.956e-01	0.000	1.000000
## date06-08-1998	NA	NA	NA	NA
## date06-10-1998	NA	NA	NA	NA
## date06-10-2004	NA	NA	NA	NA
## date06-11-1996	NA	NA	NA	NA
## date06-11-2004	NA	NA	NA	NA
## date06-12-1996	NA	NA	NA	NA
## date06-12-1998	NA	NA	NA	NA
## date06-12-2004	NA	NA	NA	NA
## date06-13-2004	NA	NA	NA	NA
## date06-14-2000	-1.250e+00	9.838e-01	-1.271	0.206786
## date06-14-2004	NA	NA	NA	NA
## date06-15-1998	NA	NA	NA	NA
## date06-15-2004	NA	NA	NA	NA
## date06-16-1998	NA	NA	NA	NA
## date06-16-2004	NA	NA	NA	NA
## date06-17-1998	NA	NA	NA	NA
## date06-17-2002	7.500e-01	9.838e-01	0.762	0.447618
## date06-17-2004	NA	NA	NA	NA
## date06-18-1996	NA	NA	NA	NA
## date06-18-1998	NA	NA	NA	NA
## date06-19-1990	NA	NA	NA	NA
## date06-19-2004	NA	NA	NA	NA
## date06-20-1996	NA	NA	NA	NA
## date06-21-1999	NA	NA	NA	NA
## date06-22-1998	NA	NA	NA	NA
## date06-23-1998	NA	NA	NA	NA
## date06-24-1998	NA	NA	NA	NA
## date06-27-2000	1.750e+00	9.838e-01	1.779	0.078272 .
## date06-27-2004	NA	NA	NA	NA
## date06-29-1998	NA	NA	NA	NA
## date06-29-2000	1.500e+00	8.520e-01	1.761	0.081332 .
## date06-30-1998	NA	NA	NA	NA
## date07-01-1976	NA	NA	NA	NA
## date07-01-1996	NA	NA	NA	NA
## date07-01-1998	NA	NA	NA	NA
## date07-02-1976	NA	NA	NA	NA
## date07-02-1996	NA	NA	NA	NA
## date07-02-1998	NA	NA	NA	NA
## date07-02-2001	1.500e+00	8.520e-01	1.761	0.081332 .
## date07-06-2000	1.500e+00	8.520e-01	1.761	0.081332 .
## date07-07-1998	NA	NA	NA	NA
## date07-07-2000	-1.500e+00	8.520e-01	-1.761	0.081332 .
## date07-07-2004	NA	NA	NA	NA
## date07-08-1998	NA	NA	NA	NA
## date07-08-2004	NA	NA	NA	NA
## date07-09-1996	NA	NA	NA	NA
## date07-09-1998	NA	NA	NA	NA
## date07-10-2002	-6.250e-02	7.064e-01	-0.088	0.929675
## date07-13-1996	NA	NA	NA	NA
## date07-13-1998	NA	NA	NA	NA
## date07-13-2000	-2.500e-01	9.838e-01	-0.254	0.799918
## date07-14-1998	NA	NA	NA	NA

## date07-15-1996	NA	NA	NA	NA
## date07-15-1998	NA	NA	NA	NA
## date07-15-2002	NA	NA	NA	NA
## date07-16-1996	NA	NA	NA	NA
## date07-16-1998	NA	NA	NA	NA
## date07-16-2002	6.250e-01	7.378e-01	0.847	0.398957
## date07-17-1996	NA	NA	NA	NA
## date07-17-1998	NA	NA	NA	NA
## date07-17-2000	3.500e+00	8.520e-01	4.108	8.12e-05 ***
## date07-17-2002	1.750e+00	9.838e-01	1.779	0.078272 .
## date07-18-2000	1.500e+00	8.520e-01	1.761	0.081332 .
## date07-18-2002	-1.250e+00	9.838e-01	-1.271	0.206786
## date07-19-2000	5.000e-01	8.520e-01	0.587	0.558601
## date07-20-1998	NA	NA	NA	NA
## date07-21-1997	NA	NA	NA	NA
## date07-21-1998	NA	NA	NA	NA
## date07-22-1996	NA	NA	NA	NA
## date07-22-1998	NA	NA	NA	NA
## date07-22-2002	NA	NA	NA	NA
## date07-23-1997	NA	NA	NA	NA
## date07-23-1998	NA	NA	NA	NA
## date07-23-2002	NA	NA	NA	NA
## date07-24-1996	NA	NA	NA	NA
## date07-24-1997	NA	NA	NA	NA
## date07-24-2002	NA	NA	NA	NA
## date07-25-1996	NA	NA	NA	NA
## date07-25-2000	5.000e-01	6.956e-01	0.719	0.473945
## date07-26-2002	NA	NA	NA	NA
## date07-27-1998	NA	NA	NA	NA
## date07-28-1998	NA	NA	NA	NA
## date07-28-1999	NA	NA	NA	NA
## date07-29-1996	NA	NA	NA	NA
## date07-29-1998	NA	NA	NA	NA
## date07-30-1996	NA	NA	NA	NA
## date07-30-1998	NA	NA	NA	NA
## date07-31-1998	NA	NA	NA	NA
## date07-31-2002	1.500e+00	8.520e-01	1.761	0.081332 .
## date08-01-2000	-1.250e+00	9.838e-01	-1.271	0.206786
## date08-03-1998	NA	NA	NA	NA
## date08-04-1997	NA	NA	NA	NA
## date08-04-1998	NA	NA	NA	NA
## date08-04-1999	NA	NA	NA	NA
## date08-05-1997	NA	NA	NA	NA
## date08-05-1998	NA	NA	NA	NA
## date08-06-1997	NA	NA	NA	NA
## date08-06-1998	NA	NA	NA	NA
## date08-06-2001	NA	NA	NA	NA
## date08-07-1996	NA	NA	NA	NA
## date08-07-1997	NA	NA	NA	NA
## date08-07-1998	NA	NA	NA	NA
## date08-08-1996	NA	NA	NA	NA
## date08-08-1997	NA	NA	NA	NA
## date08-08-2001	NA	NA	NA	NA
## date08-09-2000	5.000e-01	8.520e-01	0.587	0.558601

## date08-09-2001	5.000e-01	8.520e-01	0.587	0.558601
## date08-11-1998	NA	NA	NA	NA
## date08-12-1998	NA	NA	NA	NA
## date08-13-1996	NA	NA	NA	NA
## date08-13-1998	NA	NA	NA	NA
## date08-14-1996	NA	NA	NA	NA
## date08-15-2000	NA	NA	NA	NA
## date08-16-2000	NA	NA	NA	NA
## date08-17-1998	NA	NA	NA	NA
## date08-18-1997	NA	NA	NA	NA
## date08-19-1996	NA	NA	NA	NA
## date08-19-1997	NA	NA	NA	NA
## date08-20-1997	NA	NA	NA	NA
## date08-21-1998	NA	NA	NA	NA
## date08-22-1998	NA	NA	NA	NA
## date08-26-1996	NA	NA	NA	NA
## date08-26-2002	NA	NA	NA	NA
## date08-27-1996	NA	NA	NA	NA
## date08-27-2001	NA	NA	NA	NA
## date08-28-1996	NA	NA	NA	NA
## date08-28-2002	NA	NA	NA	NA
## date08-29-1996	NA	NA	NA	NA
## date08-29-2000	NA	NA	NA	NA
## date08-29-2001	NA	NA	NA	NA
## date08-29-2002	NA	NA	NA	NA
## date08-30-2001	NA	NA	NA	NA
## date08-31-2001	NA	NA	NA	NA
## date09-03-1996	NA	NA	NA	NA
## date09-03-1997	NA	NA	NA	NA
## date09-04-1996	NA	NA	NA	NA
## date09-04-1997	NA	NA	NA	NA
## date09-04-1998	NA	NA	NA	NA
## date09-05-1996	NA	NA	NA	NA
## date09-05-1998	NA	NA	NA	NA
## date09-10-1996	NA	NA	NA	NA
## date09-10-1998	NA	NA	NA	NA
## date09-10-2001	5.000e-01	8.520e-01	0.587	0.558601
## date09-11-1998	NA	NA	NA	NA
## date09-11-2001	NA	NA	NA	NA
## date09-15-1997	NA	NA	NA	NA
## date09-16-1997	NA	NA	NA	NA
## date09-18-2000	NA	NA	NA	NA
## date09-19-2000	NA	NA	NA	NA
## date09-23-1997	NA	NA	NA	NA
## date09-24-1998	NA	NA	NA	NA
## date09-25-1997	NA	NA	NA	NA
## date10-06-1998	NA	NA	NA	NA
## date10-13-1998	NA	NA	NA	NA
## date10-19-1998	NA	NA	NA	NA
## date10-29-1998	NA	NA	NA	NA
## plotsize	NA	NA	NA	NA
## utme	-1.241e-15	5.853e-04	0.000	1.000000
## utmn	-2.315e-15	1.221e-03	0.000	1.000000
## elev	-1.140e-15	4.379e-03	0.000	1.000000

```
## tci                2.190e-14  5.463e-02  0.000 1.000000
## streamdist         1.452e-15  2.085e-03  0.000 1.000000
## disturbLT-SEL      4.304e-13  7.105e-01  0.000 1.000000
## disturbSETTLE      1.703e-13  9.533e-01  0.000 1.000000
## disturbVIRGIN      2.813e-13  9.920e-01  0.000 1.000000
## beers              1.021e-13  1.891e-01  0.000 1.000000
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6956 on 101 degrees of freedom
## (1 observation deleted due to missingness)
## Multiple R-squared:  0.9852, Adjusted R-squared:  0.884
## F-statistic: 9.737 on 692 and 101 DF, p-value: < 2.2e-16
```

2.) Using the glm function, I created two models to analyze the Acer dataset and the Abies dataset.

```
acer_glm = glm(cover ~ ., data = Acer, family = "poisson")
abies_glm = glm(cover ~ ., data = Abies, family = "poisson")

summary(acer_glm)
```

```
##
## Call:
## glm(formula = cover ~ ., family = "poisson", data = Acer)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.9222   0.0000   0.0000   0.0000   0.8731
##
## Coefficients: (152 not defined because of singularities)
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)    1.792e+00  3.456e+03  0.001    1.000
## plotIDATBN-01-0304  1.542e-01  6.880e-01  0.224    0.823
## plotIDATBN-01-0305 -1.823e-01  1.782e+00 -0.102    0.918
## plotIDATBN-01-0306  1.542e-01  9.216e+00  0.017    0.987
## plotIDATBN-01-0307 -1.823e-01  9.164e+00 -0.020    0.984
## plotIDATBN-01-0308 -4.055e-01  9.169e+00 -0.044    0.965
## plotIDATBN-01-0312 -1.099e+00  4.448e+00 -0.247    0.805
## plotIDATBN-01-0313  1.542e-01  5.946e+00  0.026    0.979
## plotIDATBN-01-0314 -4.055e-01  6.968e+00 -0.058    0.954
## plotIDATBN-01-0401  1.542e-01  1.550e+01  0.010    0.992
## plotIDATBN-01-0402 -6.349e-13  1.518e+01  0.000    1.000
## plotIDATBN-01-0407  9.224e-14  6.731e-01  0.000    1.000
## plotIDATBN-01-0408 -1.792e+00  1.745e+00 -1.027    0.305
## plotIDATBN-01-0409 -1.792e+00  1.393e+00 -1.286    0.198
## plotIDATBN-01-0410 -6.084e-13  1.417e+01  0.000    1.000
## plotIDATBN-01-0412 -1.792e+00  1.536e+01 -0.117    0.907
## plotIDATBN-01-0414 -1.792e+00  1.648e+01 -0.109    0.913
## plotIDATBN-01-0415 -4.702e-13  9.305e+00  0.000    1.000
## plotIDATBN-01-0503 -1.823e-01  1.873e+01 -0.010    0.992
## plotIDATBN-01-0504 -5.944e-13  1.368e+01  0.000    1.000
## plotIDATBN-01-0505 -1.823e-01  1.843e+01 -0.010    0.992
## plotIDATBN-01-0506 -7.535e-13  1.858e+01  0.000    1.000
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##	plotIDATBN-01-0512	-2.659e-13	9.560e+00	0.000	1.000
##	plotIDATBN-01-0513	1.542e-01	5.869e+00	0.026	0.979
##	plotIDATBN-01-0518	1.542e-01	1.897e+01	0.008	0.994
##	plotIDATBN-01-0519	-5.762e-14	8.882e+00	0.000	1.000
##	plotIDATBN-01-0521	-1.792e+00	9.296e+00	-0.193	0.847
##	plotIDATBN-01-0522	-1.792e+00	9.272e+00	-0.193	0.847
##	plotIDATBN-01-0523	-1.792e+00	9.055e+00	-0.198	0.843
##	plotIDATBN-01-0525	-4.055e-01	8.899e+00	-0.046	0.964
##	plotIDATBN-01-0529	1.542e-01	1.632e+01	0.009	0.992
##	plotIDATBN-01-0544	-4.645e-13	9.228e+00	0.000	1.000
##	plotIDATBN-01-0551	-6.154e-13	1.521e+01	0.000	1.000
##	plotIDATBN-01-0557	-4.055e-01	1.027e+01	-0.039	0.969
##	plotIDATBN-01-0558	-4.055e-01	9.859e+00	-0.041	0.967
##	plotIDATBN-01-0561	-6.931e-01	5.750e+00	-0.121	0.904
##	plotIDATBP-01-0011	2.877e-01	1.873e+01	0.015	0.988
##	plotIDATBP-01-0013	-1.099e+00	2.599e+01	-0.042	0.966
##	plotIDATBP-01-0015	1.542e-01	1.885e+01	0.008	0.993
##	plotIDATBP-01-0017	-4.055e-01	1.161e+01	-0.035	0.972
##	plotIDATBP-01-0018	-1.099e+00	2.582e+00	-0.426	0.670
##	plotIDDELL-02-0042	-1.099e+00	8.204e+00	-0.134	0.893
##	plotIDDELL-02-0043	-1.792e+00	7.899e+00	-0.227	0.821
##	plotIDDELL-02-0045	-1.099e+00	6.624e+00	-0.166	0.868
##	plotIDDELL-02-0052	2.877e-01	6.919e+00	0.042	0.967
##	plotIDDELL-02-0054	-1.099e+00	8.137e+00	-0.135	0.893
##	plotIDDELL-02-0055	1.542e-01	7.838e+00	0.020	0.984
##	plotIDDELL-02-0057	3.802e-13	6.793e+00	0.000	1.000
##	plotIDDELL-02-0100	5.243e-13	1.198e+01	0.000	1.000
##	plotIDDELL-02-0101	-1.099e+00	1.216e+01	-0.090	0.928
##	plotIDDELL-02-0105	-1.099e+00	1.225e+01	-0.090	0.929
##	plotIDDELL-02-0106	-1.823e-01	1.221e+01	-0.015	0.988
##	plotIDDELL-02-0108	-1.823e-01	1.240e+01	-0.015	0.988
##	plotIDDELL-02-0109	2.877e-01	1.173e+01	0.025	0.980
##	plotIDDELL-02-0110	5.324e-13	1.191e+01	0.000	1.000
##	plotIDDELL-02-0114	1.542e-01	1.161e+01	0.013	0.989
##	plotIDDELL-02-0115	5.067e-13	1.162e+01	0.000	1.000
##	plotIDDELL-02-0116	-1.099e+00	1.315e+01	-0.084	0.933
##	plotIDDELL-02-0127	1.542e-01	1.362e+01	0.011	0.991
##	plotIDDELL-02-0129	5.404e-13	1.258e+01	0.000	1.000
##	plotIDDELL-02-0133	-1.099e+00	1.476e+01	-0.074	0.941
##	plotIDDELL-03-0002	-1.099e+00	9.738e-01	-1.128	0.259
##	plotIDDELL-03-0003	2.877e-01	8.391e-01	0.343	0.732
##	plotIDDELL-03-0006	-1.792e+00	2.871e+00	-0.624	0.532
##	plotIDDELL-03-0007	-1.823e-01	2.452e+00	-0.074	0.941
##	plotIDDELL-03-0008	-4.055e-01	2.709e+00	-0.150	0.881
##	plotIDDELL-03-0010	1.444e-13	2.008e+00	0.000	1.000
##	plotIDDELL-03-0021	-1.099e+00	2.149e+00	-0.511	0.609
##	plotIDDELL-03-0025	-1.099e+00	2.078e+00	-0.529	0.597
##	plotIDDELL-03-0028	1.230e-13	6.374e-01	0.000	1.000
##	plotIDDELL-03-0029	-6.931e-01	1.052e+00	-0.659	0.510
##	plotIDDELL-03-0114	1.872e-13	1.957e+00	0.000	1.000
##	plotIDDLAP-01-0011	-6.931e-01	1.348e+01	-0.051	0.959
##	plotIDDLAP-01-0012	-6.931e-01	1.348e+01	-0.051	0.959
##	plotIDDLAP-01-0013	-1.823e-01	1.479e+01	-0.012	0.990
##	plotIDDLAP-01-0014	-1.823e-01	1.446e+01	-0.013	0.990

##	plotIDDLAP-01-0015	-6.931e-01	1.608e+01	-0.043	0.966
##	plotIDDSLM-01-0028	-4.055e-01	3.474e+00	-0.117	0.907
##	plotIDDSLM-01-0037	-1.823e-01	5.317e+00	-0.034	0.973
##	plotIDDSLM-01-0083	-6.931e-01	3.311e+00	-0.209	0.834
##	plotIDDSLM-01-0136	-4.055e-01	7.171e+00	-0.057	0.955
##	plotIDDSLM-01-0306	-4.055e-01	3.493e+00	-0.116	0.908
##	plotIDDSLM-01-0307	-6.931e-01	4.539e+00	-0.153	0.879
##	plotIDDSLM-01-0320	-6.931e-01	3.466e+00	-0.200	0.841
##	plotIDFRID-01-0001	-4.055e-01	1.013e+01	-0.040	0.968
##	plotIDFRID-01-0002	-1.823e-01	1.019e+01	-0.018	0.986
##	plotIDFRID-01-0004	1.160e-15	7.520e+00	0.000	1.000
##	plotIDFRID-01-0005	1.542e-01	8.689e+00	0.018	0.986
##	plotIDFRID-01-0006	8.170e-14	1.172e+01	0.000	1.000
##	plotIDFRID-01-0007	-1.823e-01	1.180e+01	-0.015	0.988
##	plotIDFRID-01-0009	1.542e-01	1.237e+01	0.012	0.990
##	plotIDFRID-01-0010	-4.055e-01	1.185e+01	-0.034	0.973
##	plotIDFRID-01-0013	-6.931e-01	1.140e+01	-0.061	0.952
##	plotIDFRID-01-0015	1.542e-01	1.453e+01	0.011	0.992
##	plotIDFRID-02-0014	1.542e-01	1.456e+01	0.011	0.992
##	plotIDFRID-08-0012	-4.055e-01	1.133e+01	-0.036	0.971
##	plotIDFRID-0T-0001	5.245e-14	1.200e+01	0.000	1.000
##	plotIDFRID-0T-0002	4.616e-14	1.150e+01	0.000	1.000
##	plotIDFRID-0T-0003	2.877e-01	1.115e+01	0.026	0.979
##	plotIDFRID-0T-0005	2.634e-14	1.051e+01	0.000	1.000
##	plotIDFRID-0T-0006	2.877e-01	4.673e+00	0.062	0.951
##	plotIDFRID-0T-0007	4.055e-01	4.818e+00	0.084	0.933
##	plotIDFRID-0T-0008	2.877e-01	4.998e+00	0.058	0.954
##	plotIDFRID-0T-0009	4.055e-01	5.053e+00	0.080	0.936
##	plotIDFRID-0T-0010	2.877e-01	5.243e+00	0.055	0.956
##	plotIDFRID-0T-0011	2.877e-01	5.138e+00	0.056	0.955
##	plotIDFRID-0T-0018	1.542e-01	4.521e+00	0.034	0.973
##	plotIDFRID-0T-0019	2.877e-01	4.536e+00	0.063	0.949
##	plotIDFRID-0T-0020	2.263e-14	1.034e+01	0.000	1.000
##	plotIDFRID-0T-0022	-4.055e-01	9.642e+00	-0.042	0.966
##	plotIDFRID-0T-0023	-4.055e-01	9.296e+00	-0.044	0.965
##	plotIDFRID-0T-0024	1.542e-01	9.041e+00	0.017	0.986
##	plotIDFRID-0T-0025	2.877e-01	5.257e+00	0.055	0.956
##	plotIDFRID-0T-0026	2.877e-01	5.532e+00	0.052	0.959
##	plotIDFRID-0T-0027	-7.212e-14	5.783e+00	0.000	1.000
##	plotIDFRID-0T-0028	-1.099e+00	6.087e+00	-0.180	0.857
##	plotIDFRID-0T-0029	2.877e-01	8.687e+00	0.033	0.974
##	plotIDFRID-0T-0030	-4.055e-01	8.319e+00	-0.049	0.961
##	plotIDFRID-0T-0031	-1.740e-14	8.011e+00	0.000	1.000
##	plotIDFRID-0T-0032	1.542e-01	8.078e+00	0.019	0.985
##	plotIDFRID-0T-0033	1.542e-01	7.793e+00	0.020	0.984
##	plotIDFRID-0T-0034	2.877e-01	6.514e+00	0.044	0.965
##	plotIDFRID-0T-0035	1.542e-01	6.516e+00	0.024	0.981
##	plotIDFRID-0T-0036	2.877e-01	6.838e+00	0.042	0.966
##	plotIDFRID-0T-0037	1.542e-01	6.926e+00	0.022	0.982
##	plotIDFRID-0T-0038	2.877e-01	7.111e+00	0.040	0.968
##	plotIDMILL-01-0024	-4.855e-01	2.720e+01	-0.018	0.986
##	plotIDMILL-03-0020	-2.624e-01	2.119e+01	-0.012	0.990
##	plotIDMILL-07-0024	-4.855e-01	3.489e+00	-0.139	0.889
##	plotIDMILL-07-0052	-4.855e-01	8.265e+00	-0.059	0.953

##	plotIDMILL-11-0017	-4.855e-01	1.246e+01	-0.039	0.969
##	plotIDMILL-12-0007	-8.004e-02	1.503e+01	-0.005	0.996
##	plotIDMILL-17-0010	-4.855e-01	8.439e+00	-0.058	0.954
##	plotIDMILL-17-0012	-4.855e-01	9.446e+00	-0.051	0.959
##	plotIDMILL-17-0039	-8.004e-02	5.692e+00	-0.014	0.989
##	plotIDMILL-18-0021	-4.855e-01	8.553e+00	-0.057	0.955
##	plotIDMILL-20-0010	-2.624e-01	8.828e+00	-0.030	0.976
##	plotIDMILL-20-0044	-4.855e-01	5.052e+00	-0.096	0.923
##	plotIDMILL-24-0016	-4.855e-01	1.381e+01	-0.035	0.972
##	plotIDMILL-24-0059	-4.855e-01	1.510e+01	-0.032	0.974
##	plotIDMILL-25-0044	-2.624e-01	1.678e+01	-0.016	0.988
##	plotIDMILL-27-0041	-4.855e-01	1.674e+01	-0.029	0.977
##	plotIDMILL-27-0065	-4.855e-01	1.919e+01	-0.025	0.980
##	plotIDMILL-27-0110	-8.004e-02	2.172e+01	-0.004	0.997
##	plotIDMILL-27-0202	-4.855e-01	1.855e+01	-0.026	0.979
##	plotIDPITT-01-0001	-1.099e+00	1.915e+01	-0.057	0.954
##	plotIDPITT-01-0002	-8.716e-13	1.929e+01	0.000	1.000
##	plotIDPITT-01-0003	-1.099e+00	1.958e+01	-0.056	0.955
##	plotIDPITT-01-0005	1.542e-01	2.289e+01	0.007	0.995
##	plotIDPITT-01-0006	-9.150e-13	2.047e+01	0.000	1.000
##	plotIDPITT-01-0007	-1.099e+00	1.789e+01	-0.061	0.951
##	plotIDPITT-01-0008	-1.099e+00	1.674e+01	-0.066	0.948
##	plotIDPITT-01-0009	1.542e-01	2.088e+01	0.007	0.994
##	plotIDPITT-01-0010	1.542e-01	2.399e+01	0.006	0.995
##	plotIDPITT-01-0011	-7.786e-13	1.695e+01	0.000	1.000
##	plotIDPITT-01-0012	-1.792e+00	1.791e+01	-0.100	0.920
##	plotIDPITT-01-0014	-7.889e-13	1.922e+01	0.000	1.000
##	plotIDPITT-01-0015	-1.099e+00	1.588e+01	-0.069	0.945
##	plotIDPITT-01-0016	-9.004e-13	1.964e+01	0.000	1.000
##	plotIDPITT-01-0017	-1.099e+00	1.889e+01	-0.058	0.954
##	plotIDPITT-01-0018	-9.352e-13	2.047e+01	0.000	1.000
##	plotIDPITT-01-0019	-1.099e+00	1.795e+01	-0.061	0.951
##	plotIDPITT-01-0020	-1.099e+00	1.733e+01	-0.063	0.949
##	plotIDPITT-01-0021	1.542e-01	1.851e+01	0.008	0.993
##	plotIDPITT-01-0022	1.542e-01	1.475e+01	0.010	0.992
##	plotIDPITT-01-0023	-1.099e+00	1.904e+01	-0.058	0.954
##	plotIDPITT-01-0024	-8.135e-13	1.768e+01	0.000	1.000
##	plotIDPITT-01-0025	-1.099e+00	1.833e+01	-0.060	0.952
##	plotIDPITT-01-0026	-1.099e+00	2.264e+01	-0.049	0.961
##	plotIDPITT-01-0027	-4.055e-01	1.808e+01	-0.022	0.982
##	plotIDPITT-01-0028	-1.099e+00	1.839e+01	-0.060	0.952
##	plotIDPITT-01-0029	-1.099e+00	2.002e+01	-0.055	0.956
##	plotIDPITT-01-0030	-1.099e+00	1.845e+01	-0.060	0.953
##	plotIDPITT-01-0032	-1.099e+00	2.094e+01	-0.052	0.958
##	plotIDPITT-01-0033	-4.055e-01	2.099e+01	-0.019	0.985
##	plotIDPITT-01-0036	-4.055e-01	2.072e+01	-0.020	0.984
##	plotIDPITT-01-0037	-1.099e+00	1.968e+01	-0.056	0.955
##	plotIDPITT-01-0038	-1.099e+00	1.592e+01	-0.069	0.945
##	plotIDPITT-01-0039	-1.823e-01	2.085e+01	-0.009	0.993
##	plotIDPITT-01-0040	-1.099e+00	2.093e+01	-0.052	0.958
##	plotIDPITT-01-0041	-1.823e-01	2.171e+01	-0.008	0.993
##	plotIDPITT-01-0042	-4.055e-01	2.207e+01	-0.018	0.985
##	plotIDPITT-01-0043	-1.823e-01	2.227e+01	-0.008	0.993
##	plotIDPITT-01-0044	2.877e-01	1.844e+01	0.016	0.988

##	plotIDPITT-01-0045	-1.099e+00	1.505e+01	-0.073	0.942
##	plotIDUFRL-01-0001	-3.348e-01	1.365e+01	-0.025	0.980
##	plotIDUFRL-01-0002	-3.348e-01	1.290e+01	-0.026	0.979
##	plotIDUFRL-01-0003	-1.524e-01	1.318e+01	-0.012	0.991
##	plotIDUFRL-01-0004	-3.348e-01	1.051e+01	-0.032	0.975
##	plotIDUFRL-01-0005	-3.348e-01	1.055e+01	-0.032	0.975
##	plotIDUFRL-01-0006	-1.524e-01	1.072e+01	-0.014	0.989
##	plotIDUFRL-01-0007	-1.524e-01	1.067e+01	-0.014	0.989
##	plotIDUFRL-01-0008	-1.524e-01	1.052e+01	-0.014	0.988
##	plotIDUFRL-01-0009	-1.524e-01	1.075e+01	-0.014	0.989
##	plotIDUFRL-01-0010	-5.579e-01	1.109e+01	-0.050	0.960
##	plotIDUFRL-01-0012	-1.944e+00	1.433e+01	-0.136	0.892
##	plotIDUFRL-01-0013	-5.579e-01	1.416e+01	-0.039	0.969
##	plotIDUFRL-01-0014	-3.348e-01	1.458e+01	-0.023	0.982
##	plotIDUFRL-01-0015	-1.524e-01	1.408e+01	-0.011	0.991
##	plotIDUFRL-01-0018	-5.579e-01	1.264e+01	-0.044	0.965
##	plotIDUFRL-01-0019	1.352e-01	1.289e+01	0.010	0.992
##	plotIDUFRL-01-0020	1.702e-03	1.301e+01	0.000	1.000
##	plotIDUFRL-01-0021	-1.944e+00	1.103e+01	-0.176	0.860
##	plotIDUFRL-01-0022	-1.524e-01	9.818e+00	-0.016	0.988
##	plotIDUFRL-01-0023	-5.579e-01	1.676e+01	-0.033	0.973
##	plotIDUFRL-01-0024	-5.579e-01	1.678e+01	-0.033	0.973
##	plotIDUFRL-01-0025	-1.251e+00	1.668e+01	-0.075	0.940
##	plotIDUFRL-01-0026	-5.579e-01	1.642e+01	-0.034	0.973
##	plotIDUFRL-01-0027	-8.456e-01	6.340e+00	-0.133	0.894
##	plotIDUFRL-01-0028	-1.524e-01	1.449e+01	-0.011	0.992
##	plotIDUFRL-01-0029	-1.524e-01	1.414e+01	-0.011	0.991
##	plotIDUFRL-01-0030	-3.348e-01	1.242e+01	-0.027	0.978
##	plotIDUFRL-01-0031	-3.348e-01	1.257e+01	-0.027	0.979
##	plotIDUFRL-01-0032	-5.579e-01	1.369e+01	-0.041	0.967
##	plotIDUFRL-01-0033	-1.524e-01	1.293e+01	-0.012	0.991
##	plotIDUFRL-01-0034	-3.348e-01	1.378e+01	-0.024	0.981
##	plotIDUFRL-01-0035	-1.251e+00	6.682e+00	-0.187	0.851
##	plotIDUFRL-01-0036	-1.944e+00	6.573e+00	-0.296	0.767
##	plotIDUFRL-01-0037	-5.579e-01	1.888e+01	-0.030	0.976
##	plotIDUFRL-01-0038	-5.579e-01	1.891e+01	-0.030	0.976
##	plotIDUFRL-01-0039	-1.251e+00	1.281e+01	-0.098	0.922
##	plotIDUFRL-01-0040	-1.251e+00	1.279e+01	-0.098	0.922
##	plotIDUFRL-01-0041	-3.348e-01	1.266e+01	-0.026	0.979
##	plotIDUFRL-01-0042	-3.348e-01	1.269e+01	-0.026	0.979
##	plotIDUFRL-01-0043	-5.579e-01	1.250e+01	-0.045	0.964
##	plotIDUFRL-01-0044	-3.348e-01	1.102e+01	-0.030	0.976
##	plotIDUFRL-01-0045	-5.579e-01	1.102e+01	-0.051	0.960
##	plotIDUFRL-01-0046	-8.004e-02	1.095e+01	-0.007	0.994
##	plotIDUFRL-01-0047	-4.855e-01	1.087e+01	-0.045	0.964
##	plotIDUFRL-01-0048	-4.855e-01	1.075e+01	-0.045	0.964
##	plotIDUFRL-01-0049	-8.004e-02	9.683e+00	-0.008	0.993
##	plotIDUFRL-01-0050	-8.004e-02	9.357e+00	-0.009	0.993
##	plotIDUFRL-01-0051	-8.004e-02	9.193e+00	-0.009	0.993
##	plotIDUFRL-01-0052	-4.855e-01	8.608e+00	-0.056	0.955
##	plotIDUFRL-01-0053	-8.004e-02	7.231e+00	-0.011	0.991
##	plotIDUFRL-01-0054	-8.004e-02	7.840e+00	-0.010	0.992
##	plotIDUFRL-01-0055	-8.004e-02	7.273e+00	-0.011	0.991
##	plotIDUFRL-01-0056	-8.004e-02	7.184e+00	-0.011	0.991

##	plotIDUFRL-01-0057	-8.004e-02	7.386e+00	-0.011	0.991
##	plotIDUFRL-01-0058	-8.004e-02	7.061e+00	-0.011	0.991
##	plotIDUFRL-01-0059	-8.004e-02	9.670e+00	-0.008	0.993
##	plotIDUFRL-01-0060	-2.624e-01	9.596e+00	-0.027	0.978
##	plotIDUFRL-01-0061	-8.004e-02	9.796e+00	-0.008	0.993
##	plotIDUFRL-01-0062	-8.004e-02	9.662e+00	-0.008	0.993
##	plotIDUFRL-01-0063	-8.004e-02	9.855e+00	-0.008	0.994
##	plotIDUFRL-01-0064	-8.004e-02	1.228e+01	-0.007	0.995
##	plotIDUFRL-01-0065	7.411e-02	1.213e+01	0.006	0.995
##	plotIDUFRL-01-0066	-8.004e-02	1.216e+01	-0.007	0.995
##	plotIDUFRL-01-0067	-8.004e-02	1.242e+01	-0.006	0.995
##	plotIDUFRL-01-0068	-2.624e-01	1.245e+01	-0.021	0.983
##	plotIDUFRL-01-0069	-8.004e-02	1.253e+01	-0.006	0.995
##	plotIDUFRL-01-0070	-4.855e-01	1.052e+01	-0.046	0.963
##	plotIDUFRL-01-0071	-8.004e-02	1.046e+01	-0.008	0.994
##	plotIDUFRL-01-0072	-2.624e-01	1.058e+01	-0.025	0.980
##	plotIDUFRL-01-0073	-2.624e-01	1.080e+01	-0.024	0.981
##	plotIDUFRL-01-0074	-1.872e+00	1.049e+01	-0.179	0.858
##	plotIDUFRL-01-0075	-1.872e+00	1.055e+01	-0.177	0.859
##	plotIDUFRL-01-0076	-8.004e-02	1.044e+01	-0.008	0.994
##	plotIDUFRL-01-0077	-2.624e-01	1.604e+01	-0.016	0.987
##	plotIDUFRL-01-0078	-2.624e-01	1.594e+01	-0.016	0.987
##	plotIDUFRL-01-0079	-2.624e-01	1.590e+01	-0.016	0.987
##	plotIDUFRL-01-0080	-2.624e-01	1.575e+01	-0.017	0.987
##	plotIDUFRL-01-0081	-4.855e-01	1.587e+01	-0.031	0.976
##	plotIDUFRL-01-0082	-2.624e-01	1.547e+01	-0.017	0.986
##	plotIDUFRL-01-0083	-8.004e-02	7.377e+00	-0.011	0.991
##	plotIDUFRL-01-0084	-8.004e-02	7.700e+00	-0.010	0.992
##	plotIDUFRL-01-0085	-8.004e-02	8.236e+00	-0.010	0.992
##	plotIDUFRL-01-0086	-8.004e-02	8.198e+00	-0.010	0.992
##	plotIDUFRL-01-0087	-2.624e-01	8.076e+00	-0.032	0.974
##	plotIDUFRL-01-0088	-1.179e+00	7.753e+00	-0.152	0.879
##	plotIDUFRL-01-0089	7.411e-02	7.236e+00	0.010	0.992
##	plotIDUFRL-01-0090	2.076e-01	1.948e+01	0.011	0.991
##	plotIDUFRL-01-0091	-2.624e-01	1.953e+01	-0.013	0.989
##	plotIDUFRL-01-0092	-4.855e-01	1.903e+01	-0.026	0.980
##	plotIDUFRL-01-0093	-2.624e-01	1.108e+01	-0.024	0.981
##	plotIDUFRL-01-0094	-4.855e-01	1.112e+01	-0.044	0.965
##	plotIDUFRL-01-0101	-2.624e-01	1.081e+01	-0.024	0.981
##	plotIDUFRL-01-0102	2.076e-01	9.481e+00	0.022	0.983
##	plotIDUFRL-01-0103	-8.004e-02	9.813e+00	-0.008	0.993
##	plotIDUFRL-01-0104	-2.624e-01	1.075e+01	-0.024	0.981
##	plotIDUFRL-01-0105	4.370e-13	8.370e+00	0.000	1.000
##	plotIDUFRL-01-0106	3.935e-13	7.447e+00	0.000	1.000
##	plotIDUFRL-01-0154	-5.878e-01	4.446e+00	-0.132	0.895
##	plotIDUFRL-01-0155	-2.197e+00	4.577e+00	-0.480	0.631
##	plotIDUFRL-01-0160	-2.513e-01	6.208e+00	-0.040	0.968
##	plotIDUFRL-01-0161	-4.055e-01	6.594e+00	-0.061	0.951
##	plotIDUFRL-01-0162	4.243e-13	6.569e+00	0.000	1.000
##	plotIDUFRL-01-0163	-1.504e+00	6.731e+00	-0.223	0.823
##	plotIDUFRL-01-0164	3.833e-13	5.850e+00	0.000	1.000
##	plotIDUFRL-01-0165	-1.178e-01	1.729e+01	-0.007	0.995
##	plotIDUFRL-01-0166	-1.178e-01	5.292e+00	-0.022	0.982
##	plotIDUFRL-01-0167	7.361e-13	1.701e+01	0.000	1.000

##	plotIDUFRL-01-0168	7.285e-13	1.689e+01	0.000	1.000
##	plotIDUFRL-01-0169	-8.109e-01	1.687e+01	-0.048	0.962
##	plotIDUFRL-02-0001	-1.524e-01	8.558e+00	-0.018	0.986
##	plotIDUFRL-02-0002	2.530e-01	8.725e+00	0.029	0.977
##	plotIDUFRL-02-0003	-5.579e-01	8.589e+00	-0.065	0.948
##	plotIDUFRL-02-0004	-3.348e-01	8.631e+00	-0.039	0.969
##	plotIDUFRL-02-0005	-1.251e+00	6.913e+00	-0.181	0.856
##	plotIDUFRL-02-0007	-5.579e-01	5.697e+00	-0.098	0.922
##	plotIDUFRL-02-0008	-3.348e-01	6.514e+00	-0.051	0.959
##	plotIDUFRL-02-0009	1.123e-02	6.579e+00	0.002	0.999
##	plotIDUFRL-02-0011	-1.030e-01	6.022e+00	-0.017	0.986
##	plotIDUFRL-02-0014	-1.455e+00	6.398e+00	-0.227	0.820
##	plotIDUFRL-02-0015	-3.565e-01	6.455e+00	-0.055	0.956
##	plotIDUFRL-02-0016	-1.251e+00	5.537e+00	-0.226	0.821
##	plotIDUFRL-02-0017	2.530e-01	6.365e+00	0.040	0.968
##	plotIDUFRL-02-0018	2.530e-01	5.866e+00	0.043	0.966
##	plotIDUFRL-02-0019	-1.524e-01	5.576e+00	-0.027	0.978
##	plotIDUFRL-02-0030	-3.348e-01	9.489e+00	-0.035	0.972
##	plotIDUFRL-02-0031	1.352e-01	1.140e+01	0.012	0.991
##	plotIDUFRL-02-0032	2.530e-01	1.107e+01	0.023	0.982
##	plotIDUFRL-02-0033	-3.348e-01	6.111e+00	-0.055	0.956
##	plotIDUFRL-02-0034	1.667e-02	5.965e+00	0.003	0.998
##	plotIDUFRL-02-0035	-3.348e-01	5.812e+00	-0.058	0.954
##	plotIDUFRL-02-0036	-1.178e-01	3.778e+00	-0.031	0.975
##	plotIDUFRL-02-0037	-9.163e-01	7.302e+00	-0.125	0.900
##	plotIDUFRL-02-0038	-5.108e-01	5.231e+00	-0.098	0.922
##	plotIDUFRL-02-0039	-8.109e-01	5.755e+00	-0.141	0.888
##	plotIDUFRL-02-0041	-3.348e-01	7.526e+00	-0.044	0.965
##	plotIDUFRL-02-0044	2.530e-01	6.618e+00	0.038	0.970
##	plotIDUFRL-02-0045	-5.579e-01	6.595e+00	-0.085	0.933
##	plotIDUFRL-02-0046	-1.524e-01	6.365e+00	-0.024	0.981
##	plotIDUFRL-02-0047	-1.524e-01	7.774e+00	-0.020	0.984
##	plotIDUFRL-02-0048	1.702e-03	7.521e+00	0.000	1.000
##	plotIDUFRL-02-0049	2.530e-01	6.690e+00	0.038	0.970
##	plotIDUFRL-02-0050	-3.348e-01	6.175e+00	-0.054	0.957
##	plotIDUFRL-02-0051	-1.251e+00	7.413e+00	-0.169	0.866
##	plotIDUFRL-02-0052	3.584e-01	6.893e+00	0.052	0.959
##	plotIDUFRL-02-0053	-1.524e-01	6.020e+00	-0.025	0.980
##	plotIDUFRL-02-0054	-5.579e-01	8.193e+00	-0.068	0.946
##	plotIDUFRL-02-0055	3.584e-01	7.914e+00	0.045	0.964
##	plotIDUFRL-02-0056	1.702e-03	6.926e+00	0.000	1.000
##	plotIDUFRL-02-0057	2.530e-01	6.766e+00	0.037	0.970
##	plotIDUFRL-02-0058	-1.524e-01	6.795e+00	-0.022	0.982
##	plotIDUFRL-02-0059	-1.524e-01	6.933e+00	-0.022	0.982
##	plotIDUFRL-02-0060	-2.837e-01	6.044e+00	-0.047	0.963
##	plotIDUFRL-02-0061	2.576e-01	5.254e+00	0.049	0.961
##	plotIDUFRL-02-0063	-4.855e-01	8.325e+00	-0.058	0.953
##	plotIDUFRL-02-0064	-4.855e-01	8.433e+00	-0.058	0.954
##	plotIDUFRL-02-0100	3.254e-01	1.198e+01	0.027	0.978
##	plotIDUFRL-02-0101	-8.004e-02	1.222e+01	-0.007	0.995
##	plotIDUFRL-02-0102	-8.004e-02	1.245e+01	-0.006	0.995
##	plotIDUFRL-02-0103	7.411e-02	1.240e+01	0.006	0.995
##	plotIDUFRL-02-0104	-1.179e+00	1.252e+01	-0.094	0.925
##	plotIDUFRL-02-0105	-4.855e-01	1.227e+01	-0.040	0.968

##	plotIDUFRL-02-0106	3.254e-01	1.220e+01	0.027	0.979
##	plotIDUFRL-02-0107	-2.624e-01	1.229e+01	-0.021	0.983
##	plotIDUFRL-02-0108	3.254e-01	1.239e+01	0.026	0.979
##	plotIDUFRL-02-0109	3.254e-01	1.173e+01	0.028	0.978
##	plotIDUFRL-02-0110	3.254e-01	1.190e+01	0.027	0.978
##	plotIDUFRL-02-0111	-4.855e-01	1.189e+01	-0.041	0.967
##	plotIDUFRL-02-0112	-1.179e+00	1.205e+01	-0.098	0.922
##	plotIDUFRL-02-0113	-1.179e+00	1.165e+01	-0.101	0.919
##	plotIDUFRL-02-0114	3.254e-01	1.164e+01	0.028	0.978
##	plotIDUFRL-02-0115	2.076e-01	1.167e+01	0.018	0.986
##	plotIDUFRL-02-0116	-1.179e+00	1.317e+01	-0.090	0.929
##	plotIDUFRL-02-0117	-1.099e+00	1.339e+01	-0.082	0.935
##	plotIDUFRL-02-0118	-2.624e-01	1.293e+01	-0.020	0.984
##	plotIDUFRL-02-0119	-8.004e-02	1.304e+01	-0.006	0.995
##	plotIDUFRL-02-0120	7.411e-02	1.258e+01	0.006	0.995
##	plotIDUFRL-02-0121	-2.624e-01	1.247e+01	-0.021	0.983
##	plotIDUFRL-02-0122	-8.004e-02	1.262e+01	-0.006	0.995
##	plotIDUFRL-02-0123	7.411e-02	1.249e+01	0.006	0.995
##	plotIDUFRL-02-0124	7.411e-02	1.269e+01	0.006	0.995
##	plotIDUFRL-02-0125	-8.004e-02	1.261e+01	-0.006	0.995
##	plotIDUFRL-02-0126	-8.004e-02	1.373e+01	-0.006	0.995
##	plotIDUFRL-02-0127	3.254e-01	1.361e+01	0.024	0.981
##	plotIDUFRL-02-0128	-8.004e-02	1.438e+01	-0.006	0.996
##	plotIDUFRL-02-0129	3.254e-01	1.315e+01	0.025	0.980
##	plotIDUFRL-02-0136	-2.480e-01	1.444e+01	-0.017	0.986
##	plotIDUFRL-02-0137	7.411e-02	1.444e+01	0.005	0.996
##	plotIDUFRL-02-0138	-1.099e+00	1.432e+01	-0.077	0.939
##	plotIDUFRL-02-0139	-1.792e+00	1.542e+01	-0.116	0.907
##	plotIDUFRL-02-0142	-2.624e-01	1.454e+01	-0.018	0.986
##	plotIDUFRL-02-0144	-3.677e-01	1.381e+01	-0.027	0.979
##	plotIDUFRL-02-0145	-6.190e-01	1.433e+01	-0.043	0.966
##	plotIDUFRL-02-0146	-1.452e+00	1.499e+01	-0.097	0.923
##	plotIDUFRL-02-0148	-8.004e-02	1.469e+01	-0.005	0.996
##	plotIDUFRL-02-0149	-1.872e+00	1.524e+01	-0.123	0.902
##	plotIDUFRL-02-0152	8.852e-02	1.131e+01	0.008	0.994
##	plotIDUFRL-02-0153	-8.004e-02	1.143e+01	-0.007	0.994
##	plotIDUFRL-02-0154	7.411e-02	1.111e+01	0.007	0.995
##	plotIDUFRL-02-0155	7.411e-02	1.118e+01	0.007	0.995
##	plotIDUFRL-02-0156	-8.004e-02	1.094e+01	-0.007	0.994
##	plotIDUFRL-02-0157	-8.004e-02	1.091e+01	-0.007	0.994
##	plotIDUFRL-02-0158	7.411e-02	1.133e+01	0.007	0.995
##	plotIDUFRL-02-0159	3.637e-02	1.102e+01	0.003	0.997
##	plotIDUFRL-02-0160	1.105e-01	1.100e+01	0.010	0.992
##	plotIDUFRL-02-0161	-1.179e+00	1.153e+01	-0.102	0.919
##	plotIDUFRL-02-0162	-8.004e-02	1.131e+01	-0.007	0.994
##	plotIDUFRL-02-0163	-4.855e-01	1.126e+01	-0.043	0.966
##	plotIDUFRL-02-0164	7.411e-02	1.136e+01	0.007	0.995
##	plotIDUFRL-02-0165	-7.732e-01	1.165e+01	-0.066	0.947
##	plotIDUFRL-02-0166	7.411e-02	1.176e+01	0.006	0.995
##	plotIDUFRL-02-0167	7.411e-02	1.193e+01	0.006	0.995
##	plotIDUFRL-02-0176	-4.855e-01	5.987e+00	-0.081	0.935
##	plotIDUFRL-02-0177	-8.004e-02	5.307e+00	-0.015	0.988
##	plotIDUFRL-02-0178	3.254e-01	9.089e+00	0.036	0.971
##	plotIDUFRL-02-0999	-5.579e-01	5.803e+00	-0.096	0.923

##	plotIDUFRL-03-0001	-7.732e-01	1.750e+00	-0.442	0.659
##	plotIDUFRL-03-0002	-4.855e-01	8.827e-01	-0.550	0.582
##	plotIDUFRL-03-0003	4.308e-01	8.344e-01	0.516	0.606
##	plotIDUFRL-03-0004	-4.855e-01	1.071e+00	-0.453	0.650
##	plotIDUFRL-03-0005	-2.624e-01	1.256e+00	-0.209	0.834
##	plotIDUFRL-03-0007	3.254e-01	2.458e+00	0.132	0.895
##	plotIDUFRL-03-0008	7.411e-02	2.741e+00	0.027	0.978
##	plotIDUFRL-03-0009	2.076e-01	2.493e+00	0.083	0.934
##	plotIDUFRL-03-0010	-8.004e-02	2.037e+00	-0.039	0.969
##	plotIDUFRL-03-0013	1.133e-01	3.687e+00	0.031	0.975
##	plotIDUFRL-03-0014	3.254e-01	1.953e+00	0.167	0.868
##	plotIDUFRL-03-0015	-1.278e-01	3.596e+00	-0.036	0.972
##	plotIDUFRL-03-0016	-7.732e-01	3.428e+00	-0.226	0.822
##	plotIDUFRL-03-0017	-8.004e-02	1.781e+00	-0.045	0.964
##	plotIDUFRL-03-0018	-4.855e-01	1.770e+00	-0.274	0.784
##	plotIDUFRL-03-0019	7.411e-02	1.069e+00	0.069	0.945
##	plotIDUFRL-03-0020	-1.872e+00	1.485e+00	-1.261	0.207
##	plotIDUFRL-03-0021	-7.732e-01	2.098e+00	-0.368	0.713
##	plotIDUFRL-03-0022	-7.732e-01	2.502e+00	-0.309	0.757
##	plotIDUFRL-03-0023	-1.872e+00	2.297e+00	-0.815	0.415
##	plotIDUFRL-03-0024	-4.855e-01	2.151e+00	-0.226	0.821
##	plotIDUFRL-03-0025	-8.004e-02	2.005e+00	-0.040	0.968
##	plotIDUFRL-03-0026	-2.624e-01	1.592e+00	-0.165	0.869
##	plotIDUFRL-03-0027	-4.855e-01	7.790e-01	-0.623	0.533
##	plotIDUFRL-03-0028	3.254e-01	6.565e-01	0.496	0.620
##	plotIDUFRL-05-0001	-1.251e+00	5.907e+00	-0.212	0.832
##	plotIDUFRL-05-0002	-1.251e+00	5.761e+00	-0.217	0.828
##	plotIDUFRL-05-0003	-5.579e-01	5.787e+00	-0.096	0.923
##	plotIDUFRL-05-0131	-1.099e+00	4.436e+00	-0.248	0.804
##	plotIDUFRL-05-0132	-4.055e-01	4.383e+00	-0.093	0.926
##	plotIDUFRL-05-0144	-8.109e-01	3.317e+00	-0.245	0.807
##	plotIDUFRL-05-0145	-8.109e-01	3.454e+00	-0.235	0.814
##	plotIDUFRL-05-0146	-8.109e-01	2.929e+00	-0.277	0.782
##	plotIDUFRL-05-0147	-8.109e-01	3.461e+00	-0.234	0.815
##	plotIDUFRL-05-0148	-5.878e-01	3.371e+00	-0.174	0.862
##	plotIDUFRL-05-0149	-8.109e-01	3.304e+00	-0.245	0.806
##	plotIDUFRL-05-0150	-8.109e-01	2.925e+00	-0.277	0.782
##	plotIDUFRL-05-0151	-2.513e-01	2.992e+00	-0.084	0.933
##	plotIDUFRL-05-0152	-4.055e-01	2.995e+00	-0.135	0.892
##	plotIDUFRL-05-0157	-8.109e-01	3.010e+00	-0.269	0.788
##	plotIDUFRL-05-0158	-8.109e-01	2.943e+00	-0.276	0.783
##	plotIDUFRL-05-0159	-8.109e-01	3.013e+00	-0.269	0.788
##	plotIDUFRL-2A-0142	-8.109e-01	3.844e+00	-0.211	0.833
##	plotIDUFRL-2A-0143	-8.109e-01	3.802e+00	-0.213	0.831
##	plotIDULRY-04-0001	-4.055e-01	9.790e+00	-0.041	0.967
##	plotIDULRY-04-0004	2.877e-01	1.581e+01	0.018	0.985
##	plotIDULRY-04-0005	-4.055e-01	1.297e+01	-0.031	0.975
##	plotIDULRY-04-0006	-1.792e+00	1.342e+01	-0.134	0.894
##	plotIDULRY-04-0009	1.542e-01	1.329e+01	0.012	0.991
##	plotIDULRY-04-0011	-6.931e-01	1.271e+01	-0.055	0.956
##	plotIDULRY-04-0014	-3.173e-13	1.170e+01	0.000	1.000
##	plotIDULRY-04-0016	-3.220e-13	1.227e+01	0.000	1.000
##	plotIDULRY-04-0018	2.877e-01	1.081e+01	0.027	0.979
##	plotIDULRY-04-0019	-4.055e-01	1.071e+01	-0.038	0.970

## plotIDULRY-04-0020	-4.055e-01	1.824e+01	-0.022	0.982
## plotIDULRY-04-0021	2.877e-01	1.623e+01	0.018	0.986
## plotIDULRY-04-0022	1.542e-01	1.558e+01	0.010	0.992
## plotIDULRY-04-0023	-1.823e-01	1.883e+01	-0.010	0.992
## plotIDULRY-04-0031	1.542e-01	9.784e+00	0.016	0.987
## plotIDULRY-04-0032	1.542e-01	9.988e+00	0.015	0.988
## plotIDULRY-04-0033	1.542e-01	1.053e+01	0.015	0.988
## plotIDULRY-04-0034	1.542e-01	5.804e+00	0.027	0.979
## plotIDULRY-04-0035	1.542e-01	5.858e+00	0.026	0.979
## plotIDULRY-04-0036	1.542e-01	4.647e+00	0.033	0.974
## plotIDULRY-04-0037	1.542e-01	6.541e+00	0.024	0.981
## plotIDULRY-04-0038	3.916e-13	6.383e+00	0.000	1.000
## plotIDULRY-04-0039	-1.823e-01	5.396e+00	-0.034	0.973
## plotIDULRY-04-0040	4.454e-13	7.318e+00	0.000	1.000
## plotIDULRY-04-0041	4.507e-13	7.473e+00	0.000	1.000
## plotIDULRY-04-0042	1.542e-01	1.199e+01	0.013	0.990
## plotIDULRY-04-0044	7.063e-13	1.511e+01	0.000	1.000
## plotIDULRY-04-0047	1.542e-01	1.342e+01	0.011	0.991
## plotIDULRY-04-0048	1.542e-01	1.375e+01	0.011	0.991
## plotIDULRY-04-0052	5.236e-13	1.147e+01	0.000	1.000
## plotIDULRY-04-0054	1.542e-01	1.092e+01	0.014	0.989
## plotIDULRY-04-0055	1.542e-01	1.076e+01	0.014	0.989
## plotIDULRY-04-0060	-1.823e-01	6.481e+00	-0.028	0.978
## plotIDULRY-04-0063	-3.463e-13	1.310e+01	0.000	1.000
## plotIDULRY-04-0064	1.542e-01	1.732e+01	0.009	0.993
## plotIDULRY-04-0065	-6.931e-01	1.755e+01	-0.039	0.968
## plotIDULRY-04-0068	-1.792e+00	1.887e+01	-0.095	0.924
## plotIDULRY-04-0073	-4.055e-01	1.335e+01	-0.030	0.976
## plotIDULRY-04-0076	-6.931e-01	1.000e+01	-0.069	0.945
## plotIDULRY-04-0079	-1.823e-01	1.616e+01	-0.011	0.991
## plotIDULRY-04-0080	-5.602e-13	1.717e+01	0.000	1.000
## plotIDULRY-04-0082	-6.931e-01	1.915e+01	-0.036	0.971
## plotIDULRY-04-0084	-1.823e-01	1.440e+01	-0.013	0.990
## plotIDULRY-04-0085	-4.055e-01	1.996e+01	-0.020	0.984
## plotIDULRY-04-0086	-4.055e-01	1.954e+01	-0.021	0.983
## plotIDULRY-04-0087	-3.818e-13	1.418e+01	0.000	1.000
## plotIDULRY-04-0088	1.542e-01	5.980e+00	0.026	0.979
## plotIDULRY-04-0089	4.572e-13	8.845e+00	0.000	1.000
## plotIDULRY-04-0097	-1.792e+00	1.157e+01	-0.155	0.877
## plotIDULRY-04-0099	1.542e-01	1.798e+01	0.009	0.993
## plotIDULRY-04-0100	1.542e-01	1.782e+01	0.009	0.993
## plotIDULRY-04-0102	4.555e-13	8.220e+00	0.000	1.000
## plotIDULRY-04-0103	-5.010e-13	1.672e+01	0.000	1.000
## plotIDULRY-04-0109	-3.159e-13	1.174e+01	0.000	1.000
## plotIDULRY-04-0110	1.542e-01	1.179e+01	0.013	0.990
## plotIDULRY-04-0111	2.877e-01	1.170e+01	0.025	0.980
## plotIDULRY-04-0116	-2.425e-13	8.234e+00	0.000	1.000
## plotIDULRY-04-0118	-5.960e-13	2.011e+01	0.000	1.000
## plotIDULRY-04-0119	4.250e-13	1.124e+01	0.000	1.000
## plotIDULRY-04-0120	-1.823e-01	1.139e+01	-0.016	0.987
## plotIDULRY-04-0122	-1.099e+00	9.801e+00	-0.112	0.911
## plotIDULRY-04-0124	4.959e-13	1.153e+01	0.000	1.000
## plotIDULRY-04-0126	2.877e-01	1.118e+01	0.026	0.979
## plotIDULRY-04-0127	1.542e-01	1.304e+01	0.012	0.991

##	plotIDULRY-04-0128	1.542e-01	1.276e+01	0.012	0.990
##	plotIDULRY-04-0129	1.542e-01	1.273e+01	0.012	0.990
##	plotIDULRY-04-0130	1.542e-01	1.596e+01	0.010	0.992
##	plotIDULRY-04-0131	-6.931e-01	1.599e+01	-0.043	0.965
##	plotIDULRY-04-0132	-1.823e-01	1.597e+01	-0.011	0.991
##	plotIDULRY-04-0135	1.542e-01	9.154e+00	0.017	0.987
##	plotIDULRY-04-0136	-2.007e-13	8.830e+00	0.000	1.000
##	plotIDULRY-04-0137	1.542e-01	8.916e+00	0.017	0.986
##	plotIDULRY-04-0140	-3.678e-13	1.363e+01	0.000	1.000
##	plotIDULRY-04-0152	-1.823e-01	9.517e+00	-0.019	0.985
##	plotIDULRY-04-0153	-6.931e-01	9.524e+00	-0.073	0.942
##	plotIDULRY-05-0200	1.542e-01	6.080e+00	0.025	0.980
##	plotIDULRY-05-0202	-1.099e+00	8.991e+00	-0.122	0.903
##	plotIDULRY-05-0204	1.542e-01	9.032e+00	0.017	0.986
##	plotIDULRY-05-0205	-6.931e-01	8.968e+00	-0.077	0.938
##	plotIDULRY-05-0206	3.138e-13	4.359e+00	0.000	1.000
##	plotIDULRY-05-0208	4.703e-13	8.731e+00	0.000	1.000
##	plotIDULRY-05-0209	4.630e-13	8.595e+00	0.000	1.000
##	plotIDULRY-05-0211	-1.099e+00	5.971e+00	-0.184	0.854
##	plotIDULRY-05-0212	3.855e-13	6.989e+00	0.000	1.000
##	plotIDULRY-05-0214	-1.099e+00	8.190e+00	-0.134	0.893
##	plotIDULRY-05-0215	-1.823e-01	8.881e+00	-0.021	0.984
##	plotIDULRY-05-0216	1.542e-01	1.065e+01	0.014	0.988
##	plotIDULRY-05-0217	1.542e-01	1.053e+01	0.015	0.988
##	plotIDULRY-05-0218	4.872e-13	1.064e+01	0.000	1.000
##	plotIDULRY-05-0219	-1.823e-01	6.289e+00	-0.029	0.977
##	plotIDULRY-05-0220	1.542e-01	6.791e+00	0.023	0.982
##	plotIDULRY-05-0222	1.542e-01	6.758e+00	0.023	0.982
##	plotIDULRY-05-0224	-1.823e-01	8.329e+00	-0.022	0.983
##	plotIDULRY-05-0226	3.276e-13	5.193e+00	0.000	1.000
##	plotIDULRY-05-0227	1.542e-01	4.901e+00	0.031	0.975
##	plotIDULRY-05-0228	1.542e-01	8.129e+00	0.019	0.985
##	plotIDULRY-05-0234	1.542e-01	9.637e+00	0.016	0.987
##	plotIDULRY-05-0237	-1.823e-01	5.581e+00	-0.033	0.974
##	plotIDULRY-05-0238	2.896e-13	4.712e+00	0.000	1.000
##	plotIDULRY-05-0239	3.554e-13	5.830e+00	0.000	1.000
##	plotIDULRY-05-0240	1.542e-01	8.396e+00	0.018	0.985
##	plotIDULRY-05-0242	4.402e-13	8.697e+00	0.000	1.000
##	plotIDULRY-05-0245	1.542e-01	1.210e+01	0.013	0.990
##	plotIDULRY-05-0248	-1.792e+00	1.530e+01	-0.117	0.907
##	plotIDULRY-05-0249	-1.823e-01	1.754e+01	-0.010	0.992
##	plotIDULRY-05-0253	-6.931e-01	1.310e+01	-0.053	0.958
##	plotIDULRY-05-0255	5.344e-13	1.227e+01	0.000	1.000
##	plotIDULRY-05-0256	2.877e-01	1.363e+01	0.021	0.983
##	plotIDULRY-05-0257	6.101e-13	1.394e+01	0.000	1.000
##	plotIDULRY-05-0258	6.128e-13	1.512e+01	0.000	1.000
##	plotIDULRY-05-0259	-4.055e-01	1.508e+01	-0.027	0.979
##	plotIDULRY-05-0260	2.877e-01	1.426e+01	0.020	0.984
##	plotIDULRY-05-0261	5.357e-13	1.055e+01	0.000	1.000
##	plotIDULRY-05-0262	-4.055e-01	1.114e+01	-0.036	0.971
##	plotIDULRY-05-0263	2.877e-01	1.087e+01	0.026	0.979
##	plotIDULRY-05-0264	-1.823e-01	8.355e+00	-0.022	0.983
##	plotIDULRY-05-0265	4.664e-13	8.819e+00	0.000	1.000
##	plotIDULRY-05-0266	1.542e-01	8.341e+00	0.018	0.985

## plotIDWHCA-01-0050	4.857e-13	9.354e+00	0.000	1.000
## plotIDWHCA-01-0051	4.731e-13	9.190e+00	0.000	1.000
## plotIDWHCA-01-0055	4.479e-13	7.269e+00	0.000	1.000
## plotIDWHCA-01-0056	4.439e-13	7.180e+00	0.000	1.000
## plotIDWHCA-01-0057	4.495e-13	7.381e+00	0.000	1.000
## plotIDWHCA-01-0058	4.388e-13	7.055e+00	0.000	1.000
## plotIDWHCA-01-0059	4.934e-13	9.667e+00	0.000	1.000
## plotIDWHCA-01-0060	-1.823e-01	9.592e+00	-0.019	0.985
## plotIDWHCA-01-0061	5.005e-13	9.793e+00	0.000	1.000
## plotIDWHCA-01-0062	4.979e-13	9.658e+00	0.000	1.000
## plotIDWHCA-01-0063	5.139e-13	9.851e+00	0.000	1.000
## plotIDWHCA-01-0064	5.681e-13	1.227e+01	0.000	1.000
## plotIDWHCA-01-0065	1.542e-01	1.213e+01	0.013	0.990
## plotIDWHCA-01-0066	5.588e-13	1.216e+01	0.000	1.000
## plotIDWHCA-01-0070	-4.055e-01	1.051e+01	-0.039	0.969
## plotIDWHCA-01-0071	5.588e-13	1.046e+01	0.000	1.000
## plotIDWHCA-01-0072	-1.823e-01	1.058e+01	-0.017	0.986
## plotIDWHCA-01-0074	-1.792e+00	1.048e+01	-0.171	0.864
## plotIDWHCA-01-0075	-1.792e+00	1.054e+01	-0.170	0.865
## plotIDWHCA-02-0044	-1.099e+00	6.642e+00	-0.165	0.869
## plotIDWHCA-02-0045	-6.931e-01	6.612e+00	-0.105	0.917
## plotIDWHCA-02-0046	3.495e-13	6.366e+00	0.000	1.000
## plotIDWHCA-02-0047	4.168e-13	7.765e+00	0.000	1.000
## plotIDWHCA-02-0048	1.542e-01	7.518e+00	0.021	0.984
## plotIDWHCA-02-0049	3.868e-13	6.668e+00	0.000	1.000
## plotIDWHCA-02-0050	-1.823e-01	6.163e+00	-0.030	0.976
## plotIDWHCA-02-0052	1.542e-01	6.920e+00	0.022	0.982
## plotIDWHCA-02-0053	3.476e-13	6.007e+00	0.000	1.000
## plotIDWHCA-02-0054	-1.099e+00	8.137e+00	-0.135	0.893
## plotIDWHCA-02-0055	4.210e-13	7.840e+00	0.000	1.000
## plotIDWHCA-02-0056	1.542e-01	6.915e+00	0.022	0.982
## plotIDWHCA-02-0057	3.831e-13	6.794e+00	0.000	1.000
## plotIDWHCA-02-0059	3.725e-13	6.926e+00	0.000	1.000
## plotIDWHCA-02-0100	-1.823e-01	1.198e+01	-0.015	0.988
## plotIDWHCA-02-0101	-4.055e-01	1.215e+01	-0.033	0.973
## plotIDWHCA-02-0102	5.360e-13	1.245e+01	0.000	1.000
## plotIDWHCA-02-0103	1.542e-01	1.240e+01	0.012	0.990
## plotIDWHCA-02-0104	-1.099e+00	1.252e+01	-0.088	0.930
## plotIDWHCA-02-0105	-1.099e+00	1.225e+01	-0.090	0.929
## plotIDWHCA-02-0106	5.355e-13	1.221e+01	0.000	1.000
## plotIDWHCA-02-0107	-1.823e-01	1.229e+01	-0.015	0.988
## plotIDWHCA-02-0108	-1.823e-01	1.240e+01	-0.015	0.988
## plotIDWHCA-02-0109	1.542e-01	1.173e+01	0.013	0.990
## plotIDWHCA-02-0110	1.542e-01	1.191e+01	0.013	0.990
## plotIDWHCA-02-0111	-4.055e-01	1.189e+01	-0.034	0.973
## plotIDWHCA-02-0112	-1.099e+00	1.204e+01	-0.091	0.927
## plotIDWHCA-02-0113	-1.099e+00	1.164e+01	-0.094	0.925
## plotIDWHCA-02-0114	5.111e-13	1.161e+01	0.000	1.000
## plotIDWHCA-02-0115	5.107e-13	1.162e+01	0.000	1.000
## plotIDWHCA-02-0120	1.542e-01	1.257e+01	0.012	0.990
## plotIDWHCA-02-0121	-1.823e-01	1.247e+01	-0.015	0.988
## plotIDWHCA-02-0122	5.490e-13	1.262e+01	0.000	1.000
## plotIDWHCA-02-0124	1.542e-01	1.269e+01	0.012	0.990
## plotIDWHCA-02-0125	5.689e-13	1.261e+01	0.000	1.000

## plotIDWHCA-02-0126	6.200e-13	1.373e+01	0.000	1.000
## plotIDWHCA-02-0127	6.148e-13	1.362e+01	0.000	1.000
## plotIDWHCA-02-0128	6.493e-13	1.438e+01	0.000	1.000
## plotIDWHCA-02-0129	5.407e-13	1.258e+01	0.000	1.000
## plotIDWHCA-02-0142	-1.099e+00	1.444e+01	-0.076	0.939
## plotIDWHCA-02-0144	-1.823e-01	1.382e+01	-0.013	0.989
## plotIDWHCA-02-0145	-6.931e-01	1.432e+01	-0.048	0.961
## plotIDWHCA-02-0146	-1.099e+00	1.500e+01	-0.073	0.942
## plotIDWHCA-02-0148	6.665e-13	1.469e+01	0.000	1.000
## plotIDWHCA-02-0149	-1.792e+00	1.522e+01	-0.118	0.906
## plotIDWHCA-02-0161	-1.099e+00	1.152e+01	-0.095	0.924
## plotIDWHCA-02-0162	5.273e-13	1.131e+01	0.000	1.000
## plotIDWHCA-02-0163	-4.055e-01	1.126e+01	-0.036	0.971
## plotIDWHCA-02-0164	1.542e-01	1.135e+01	0.014	0.989
## plotIDWHCA-03-0002	-6.931e-01	8.843e-01	-0.784	0.433
## plotIDWHCA-03-0003	1.542e-01	8.497e-01	0.181	0.856
## plotIDWHCA-03-0004	-4.055e-01	1.033e+00	-0.392	0.695
## plotIDWHCA-03-0005	-1.823e-01	1.223e+00	-0.149	0.882
## plotIDWHCA-03-0007	1.994e-13	2.446e+00	0.000	1.000
## plotIDWHCA-03-0008	-1.823e-01	2.699e+00	-0.068	0.946
## plotIDWHCA-03-0009	2.877e-01	2.477e+00	0.116	0.908
## plotIDWHCA-03-0010	-1.823e-01	2.017e+00	-0.090	0.928
## plotIDWHCA-03-0013	1.542e-01	3.700e+00	0.042	0.967
## plotIDWHCA-03-0014	1.542e-01	1.952e+00	0.079	0.937
## plotIDWHCA-03-0015	2.214e-13	3.626e+00	0.000	1.000
## plotIDWHCA-03-0016	-6.931e-01	3.409e+00	-0.203	0.839
## plotIDWHCA-03-0020	-1.792e+00	1.457e+00	-1.230	0.219
## plotIDWHCA-03-0021	-1.792e+00	2.267e+00	-0.790	0.429
## plotIDWHCA-03-0022	-6.931e-01	2.477e+00	-0.280	0.780
## plotIDWHCA-03-0024	-4.055e-01	2.125e+00	-0.191	0.849
## plotIDWHCA-03-0025	-1.823e-01	2.005e+00	-0.091	0.928
## plotIDWHCA-03-0027	-4.055e-01	7.258e-01	-0.559	0.576
## plotIDWHCA-03-0028	1.229e-13	6.375e-01	0.000	1.000
## plotIDWISR-01-0087	-1.099e+00	2.996e+01	-0.037	0.971
## date00-00-1977	1.524e-01	4.050e-01	0.376	0.707
## date00-00-1978	8.004e-02	2.831e-01	0.283	0.777
## date00-00-1979	4.055e-01	3.727e-01	1.088	0.277
## date00-00-1982	NA	NA	NA	NA
## date00-00-2001	5.101e-02	3.733e-01	0.137	0.891
## date05-03-2001	-5.349e-02	4.627e-01	-0.116	0.908
## date05-08-1998	NA	NA	NA	NA
## date05-09-2002	NA	NA	NA	NA
## date05-10-2002	NA	NA	NA	NA
## date05-21-2001	3.032e-01	5.524e-01	0.549	0.583
## date05-21-2004	NA	NA	NA	NA
## date05-22-2004	NA	NA	NA	NA
## date05-23-2000	-2.987e-02	5.894e-01	-0.051	0.960
## date05-24-2004	NA	NA	NA	NA
## date05-25-2000	1.069e+00	7.170e-01	1.491	0.136
## date05-25-2004	NA	NA	NA	NA
## date05-26-2004	NA	NA	NA	NA
## date05-27-1998	NA	NA	NA	NA
## date05-27-1999	NA	NA	NA	NA
## date05-30-2000	2.342e-01	4.847e-01	0.483	0.629

## date05-31-2000	1.524e-01	5.751e-01	0.265	0.791
## date05-31-2001	-7.638e-01	7.170e-01	-1.065	0.287
## date06-01-1998	NA	NA	NA	NA
## date06-02-1998	NA	NA	NA	NA
## date06-02-2000	NA	NA	NA	NA
## date06-03-1998	NA	NA	NA	NA
## date06-04-2002	1.524e-01	6.034e-01	0.253	0.801
## date06-07-1998	NA	NA	NA	NA
## date06-07-2000	5.935e-03	3.928e-01	0.015	0.988
## date06-08-1998	NA	NA	NA	NA
## date06-10-1998	NA	NA	NA	NA
## date06-10-2004	NA	NA	NA	NA
## date06-11-1996	NA	NA	NA	NA
## date06-11-2004	NA	NA	NA	NA
## date06-12-1996	NA	NA	NA	NA
## date06-12-1998	NA	NA	NA	NA
## date06-12-2004	NA	NA	NA	NA
## date06-13-2004	NA	NA	NA	NA
## date06-14-2000	-9.887e-02	5.395e-01	-0.183	0.855
## date06-14-2004	NA	NA	NA	NA
## date06-15-1998	NA	NA	NA	NA
## date06-15-2004	NA	NA	NA	NA
## date06-16-1998	NA	NA	NA	NA
## date06-16-2004	NA	NA	NA	NA
## date06-17-1998	NA	NA	NA	NA
## date06-17-2002	1.524e-01	8.149e-01	0.187	0.852
## date06-17-2004	NA	NA	NA	NA
## date06-18-1996	NA	NA	NA	NA
## date06-18-1998	NA	NA	NA	NA
## date06-19-1990	NA	NA	NA	NA
## date06-19-2004	NA	NA	NA	NA
## date06-20-1996	NA	NA	NA	NA
## date06-21-1999	NA	NA	NA	NA
## date06-22-1998	NA	NA	NA	NA
## date06-23-1998	NA	NA	NA	NA
## date06-24-1998	NA	NA	NA	NA
## date06-27-2000	3.066e-01	5.646e-01	0.543	0.587
## date06-27-2004	NA	NA	NA	NA
## date06-29-1998	NA	NA	NA	NA
## date06-29-2000	2.342e-01	4.847e-01	0.483	0.629
## date06-30-1998	NA	NA	NA	NA
## date07-01-1976	NA	NA	NA	NA
## date07-01-1996	NA	NA	NA	NA
## date07-01-1998	NA	NA	NA	NA
## date07-02-1976	NA	NA	NA	NA
## date07-02-1996	NA	NA	NA	NA
## date07-02-1998	NA	NA	NA	NA
## date07-02-2001	2.624e-01	5.133e-01	0.511	0.609
## date07-06-2000	7.732e-01	9.111e-01	0.849	0.396
## date07-07-1998	NA	NA	NA	NA
## date07-07-2000	-1.019e+00	8.642e-01	-1.179	0.239
## date07-07-2004	NA	NA	NA	NA
## date07-08-1998	NA	NA	NA	NA
## date07-08-2004	NA	NA	NA	NA

## date07-09-1996	NA	NA	NA	NA
## date07-09-1998	NA	NA	NA	NA
## date07-10-2002	-2.245e-02	4.003e-01	-0.056	0.955
## date07-13-1996	NA	NA	NA	NA
## date07-13-1998	NA	NA	NA	NA
## date07-13-2000	-1.702e-03	5.646e-01	-0.003	0.998
## date07-14-1998	NA	NA	NA	NA
## date07-15-1996	NA	NA	NA	NA
## date07-15-1998	NA	NA	NA	NA
## date07-15-2002	NA	NA	NA	NA
## date07-16-1996	NA	NA	NA	NA
## date07-16-1998	NA	NA	NA	NA
## date07-16-2002	1.223e-01	4.382e-01	0.279	0.780
## date07-17-1996	NA	NA	NA	NA
## date07-17-1998	NA	NA	NA	NA
## date07-17-2000	6.397e-01	5.259e-01	1.216	0.224
## date07-17-2002	3.348e-01	5.894e-01	0.568	0.570
## date07-18-2000	3.032e-01	5.524e-01	0.549	0.583
## date07-18-2002	-9.887e-02	5.395e-01	-0.183	0.855
## date07-19-2000	8.004e-02	5.293e-01	0.151	0.880
## date07-20-1998	NA	NA	NA	NA
## date07-21-1997	NA	NA	NA	NA
## date07-21-1998	NA	NA	NA	NA
## date07-22-1996	NA	NA	NA	NA
## date07-22-1998	NA	NA	NA	NA
## date07-22-2002	NA	NA	NA	NA
## date07-23-1997	NA	NA	NA	NA
## date07-23-1998	NA	NA	NA	NA
## date07-23-2002	NA	NA	NA	NA
## date07-24-1996	NA	NA	NA	NA
## date07-24-1997	NA	NA	NA	NA
## date07-24-2002	NA	NA	NA	NA
## date07-25-1996	NA	NA	NA	NA
## date07-25-2000	8.004e-02	4.529e-01	0.177	0.860
## date07-26-2002	NA	NA	NA	NA
## date07-27-1998	NA	NA	NA	NA
## date07-28-1998	NA	NA	NA	NA
## date07-28-1999	NA	NA	NA	NA
## date07-29-1996	NA	NA	NA	NA
## date07-29-1998	NA	NA	NA	NA
## date07-30-1996	NA	NA	NA	NA
## date07-30-1998	NA	NA	NA	NA
## date07-31-1998	NA	NA	NA	NA
## date07-31-2002	2.136e-01	4.627e-01	0.462	0.644
## date08-01-2000	-3.584e-01	6.563e-01	-0.546	0.585
## date08-03-1998	NA	NA	NA	NA
## date08-04-1997	NA	NA	NA	NA
## date08-04-1998	NA	NA	NA	NA
## date08-04-1999	NA	NA	NA	NA
## date08-05-1997	NA	NA	NA	NA
## date08-05-1998	NA	NA	NA	NA
## date08-06-1997	NA	NA	NA	NA
## date08-06-1998	NA	NA	NA	NA
## date08-06-2001	NA	NA	NA	NA

## date08-07-1996	NA	NA	NA	NA
## date08-07-1997	NA	NA	NA	NA
## date08-07-1998	NA	NA	NA	NA
## date08-08-1996	NA	NA	NA	NA
## date08-08-1997	NA	NA	NA	NA
## date08-08-2001	NA	NA	NA	NA
## date08-09-2000	8.004e-02	6.430e-01	0.124	0.901
## date08-09-2001	8.004e-02	4.722e-01	0.170	0.865
## date08-11-1998	NA	NA	NA	NA
## date08-12-1998	NA	NA	NA	NA
## date08-13-1996	NA	NA	NA	NA
## date08-13-1998	NA	NA	NA	NA
## date08-14-1996	NA	NA	NA	NA
## date08-15-2000	NA	NA	NA	NA
## date08-16-2000	NA	NA	NA	NA
## date08-17-1998	NA	NA	NA	NA
## date08-18-1997	NA	NA	NA	NA
## date08-19-1996	NA	NA	NA	NA
## date08-19-1997	NA	NA	NA	NA
## date08-20-1997	NA	NA	NA	NA
## date08-21-1998	NA	NA	NA	NA
## date08-22-1998	NA	NA	NA	NA
## date08-26-1996	NA	NA	NA	NA
## date08-26-2002	NA	NA	NA	NA
## date08-27-1996	NA	NA	NA	NA
## date08-27-2001	NA	NA	NA	NA
## date08-28-1996	NA	NA	NA	NA
## date08-28-2002	NA	NA	NA	NA
## date08-29-1996	NA	NA	NA	NA
## date08-29-2000	NA	NA	NA	NA
## date08-29-2001	NA	NA	NA	NA
## date08-29-2002	NA	NA	NA	NA
## date08-30-2001	NA	NA	NA	NA
## date08-31-2001	NA	NA	NA	NA
## date09-03-1996	NA	NA	NA	NA
## date09-03-1997	NA	NA	NA	NA
## date09-04-1996	NA	NA	NA	NA
## date09-04-1997	NA	NA	NA	NA
## date09-04-1998	NA	NA	NA	NA
## date09-05-1996	NA	NA	NA	NA
## date09-05-1998	NA	NA	NA	NA
## date09-10-1996	NA	NA	NA	NA
## date09-10-1998	NA	NA	NA	NA
## date09-10-2001	8.004e-02	6.430e-01	0.124	0.901
## date09-11-1998	NA	NA	NA	NA
## date09-11-2001	NA	NA	NA	NA
## date09-15-1997	NA	NA	NA	NA
## date09-16-1997	NA	NA	NA	NA
## date09-18-2000	NA	NA	NA	NA
## date09-19-2000	NA	NA	NA	NA
## date09-23-1997	NA	NA	NA	NA
## date09-24-1998	NA	NA	NA	NA
## date09-25-1997	NA	NA	NA	NA
## date10-06-1998	NA	NA	NA	NA

```
## date10-13-1998      NA      NA      NA      NA
## date10-19-1998      NA      NA      NA      NA
## date10-29-1998      NA      NA      NA      NA
## plotsize            NA      NA      NA      NA
## utme                2.065e-17 4.149e-04 0.000 1.000
## utmn                1.240e-17 8.562e-04 0.000 1.000
## elev               -1.251e-16 3.099e-03 0.000 1.000
## tci                -1.317e-15 3.238e-02 0.000 1.000
## streamdist         -8.126e-18 1.353e-03 0.000 1.000
## disturbLT-SEL       1.913e-14 4.797e-01 0.000 1.000
## disturbSETTLE       2.365e-14 6.319e-01 0.000 1.000
## disturbVIRGIN       2.265e-14 5.959e-01 0.000 1.000
## beers              -1.759e-16 1.142e-01 0.000 1.000
##
## (Dispersion parameter for poisson family taken to be 1)
##
## Null deviance: 721.4614 on 793 degrees of freedom
## Residual deviance: 9.7371 on 101 degrees of freedom
## (1 observation deleted due to missingness)
## AIC: 4104.8
##
## Number of Fisher Scoring iterations: 4
```

```
summary(abies_glm)
```

```
##
## Call:
## glm(formula = cover ~ ., family = "poisson", data = Abies)
##
## Deviance Residuals:
##      Min       1Q   Median       3Q      Max
## -0.2241   0.0000   0.0000   0.0000   0.2579
##
## Coefficients: (29 not defined because of singularities)
##              Estimate Std. Error z value Pr(>|z|)
## (Intercept)  -1.051e-09 1.080e+04  0.000 1.0000
## plotIDATBN-01-0532 2.079e+00 7.007e+01  0.030 0.9763
## plotIDATBN-01-0533 1.099e+00 7.075e+01  0.016 0.9876
## plotIDATBN-01-0536 1.099e+00 1.895e+01  0.058 0.9538
## plotIDATBP-01-0001 2.079e+00 1.196e+01  0.174 0.8620
## plotIDATBP-01-0005 1.386e+00 1.915e+01  0.072 0.9423
## plotIDATBP-01-0007 1.609e+00 2.249e+01  0.072 0.9430
## plotIDATBP-01-0008 6.931e-01 2.110e+01  0.033 0.9738
## plotIDDSLM-01-0002 1.099e+00 1.227e+01  0.090 0.9287
## plotIDDSLM-01-0004 1.099e+00 1.181e+01  0.093 0.9259
## plotIDDSLM-01-0006 1.099e+00 2.201e+01  0.050 0.9602
## plotIDDSLM-01-0008 1.099e+00 8.881e+00  0.124 0.9015
## plotIDDSLM-01-0010 1.386e+00 2.203e+01  0.063 0.9498
## plotIDDSLM-01-0011 1.099e+00 9.771e+00  0.112 0.9105
## plotIDDSLM-01-0013 1.099e+00 5.578e+00  0.197 0.8439
## plotIDDSLM-01-0024 1.099e+00 6.660e+00  0.165 0.8690
## plotIDDSLM-01-0027 1.099e+00 9.244e+00  0.119 0.9054
## plotIDDSLM-01-0029 1.099e+00 6.000e+00  0.183 0.8547
## plotIDDSLM-01-0037 1.099e+00 1.278e+01  0.086 0.9315
```

## plotIDDSLM-01-0081	1.099e+00	2.210e+01	0.050	0.9603
## plotIDDSLM-01-0086	1.099e+00	6.964e+00	0.158	0.8747
## plotIDDSLM-01-0115	1.099e+00	1.023e+01	0.107	0.9144
## plotIDDSLM-01-0134	1.946e+00	2.204e+01	0.088	0.9297
## plotIDDSLM-01-0136	1.099e+00	9.988e+00	0.110	0.9124
## plotIDDSLM-01-0137	1.099e+00	6.365e+00	0.173	0.8630
## plotIDDSLM-01-0138	1.386e+00	2.238e+01	0.062	0.9506
## plotIDDSLM-01-0143	1.099e+00	1.715e+01	0.064	0.9489
## plotIDDSLM-01-0253	1.386e+00	1.802e+01	0.077	0.9387
## plotIDDSLM-01-0302	1.099e+00	1.197e+01	0.092	0.9269
## plotIDDSLM-01-0304	1.099e+00	1.684e+01	0.065	0.9480
## plotIDDSLM-01-0305	1.099e+00	1.069e+01	0.103	0.9181
## plotIDDSLM-01-0309	1.609e+00	1.319e+01	0.122	0.9029
## plotIDDSLM-01-0310	1.386e+00	1.612e+01	0.086	0.9315
## plotIDDSLM-01-0313	1.099e+00	1.126e+01	0.098	0.9223
## plotIDDSLM-01-0314	1.099e+00	1.149e+01	0.096	0.9238
## plotIDDSLM-01-0322	1.099e+00	2.003e+01	0.055	0.9563
## plotIDDSLM-01-0324	1.386e+00	1.796e+01	0.077	0.9385
## plotIDDSLM-01-0326	1.099e+00	2.009e+01	0.055	0.9564
## plotIDDSLM-01-0330	1.099e+00	2.020e+01	0.054	0.9566
## plotIDDSLM-01-0343	1.386e+00	1.904e+01	0.073	0.9419
## plotIDDSLM-01-0345	1.099e+00	2.057e+01	0.053	0.9574
## plotIDDSLM-01-0346	1.386e+00	1.946e+01	0.071	0.9432
## plotIDDSLM-01-0347	1.386e+00	1.847e+01	0.075	0.9402
## plotIDFRID-01-0003	1.609e+00	1.482e+01	0.109	0.9135
## plotIDFRID-0T-0012	1.946e+00	9.828e+00	0.198	0.8430
## plotIDFRID-0T-0013	1.946e+00	1.060e+01	0.184	0.8544
## plotIDFRID-0T-0014	1.386e+00	1.129e+01	0.123	0.9022
## plotIDFRID-0T-0015	1.386e+00	1.182e+01	0.117	0.9067
## plotIDFRID-0T-0016	1.792e+00	1.268e+01	0.141	0.8876
## plotIDFRID-0T-0017	1.946e+00	1.407e+01	0.138	0.8900
## plotIDPITT-01-0045	6.931e-01	7.459e+01	0.009	0.9926
## plotIDUFRL-04-00A1	1.386e+00	2.007e+01	0.069	0.9449
## plotIDUFRL-06-0133	1.049e+00	2.097e+01	0.050	0.9601
## plotIDUFRL-06-0134	1.099e+00	2.158e+01	0.051	0.9594
## plotIDUFRL-06-0135	1.192e+00	2.173e+01	0.055	0.9563
## plotIDUFRL-06-0136	1.099e+00	2.160e+01	0.051	0.9594
## plotIDUFRL-06-0137	1.099e+00	2.241e+01	0.049	0.9609
## plotIDUFRL-06-0138	8.109e-01	2.195e+01	0.037	0.9705
## plotIDUFRL-06-0139	1.049e+00	2.006e+01	0.052	0.9583
## plotIDULRY-04-0024	1.609e+00	2.307e+01	0.070	0.9444
## plotIDULRY-04-0025	1.609e+00	2.291e+01	0.070	0.9440
## plotIDULRY-04-0026	2.079e+00	2.394e+01	0.087	0.9308
## plotIDULRY-04-0090	6.931e-01	1.942e+01	0.036	0.9715
## plotIDULRY-04-0091	6.931e-01	1.951e+01	0.036	0.9717
## plotIDULRY-04-0092	2.197e+00	2.137e+01	0.103	0.9181
## plotIDULRY-04-0095	1.792e+00	2.138e+01	0.084	0.9332
## plotIDULRY-04-0096	6.931e-01	2.039e+01	0.034	0.9729
## plotIDULRY-04-0098	6.931e-01	1.959e+01	0.035	0.9718
## plotIDULRY-04-0114	1.099e+00	2.601e+01	0.042	0.9663
## plotIDULRY-04-0142	1.386e+00	2.174e+01	0.064	0.9492
## plotIDULRY-04-0144	1.386e+00	2.280e+01	0.061	0.9515
## plotIDULRY-04-0145	1.386e+00	1.918e+01	0.072	0.9424
## plotIDULRY-04-0147	1.946e+00	2.296e+01	0.085	0.9325

```

## plotIDULRY-04-0155 1.946e+00 1.925e+01 0.101 0.9195
## plotIDULRY-04-0157 1.099e+00 1.393e+01 0.079 0.9371
## plotIDULRY-04-0158 1.609e+00 2.031e+01 0.079 0.9368
## plotIDWISR-01-0077 6.931e-01 2.211e+01 0.031 0.9750
## plotIDWISR-01-0079 1.099e+00 2.194e+01 0.050 0.9601
## plotIDWISR-01-0080 1.099e+00 2.171e+01 0.051 0.9596
## plotIDWISR-01-0082 6.931e-01 2.177e+01 0.032 0.9746
## plotIDWISR-01-0083 1.099e+00 1.953e+01 0.056 0.9552
## plotIDWISR-01-0084 6.931e-01 2.087e+01 0.033 0.9735
## plotIDWISR-01-0088 1.386e+00 1.358e+01 0.102 0.9187
## plotIDWISR-01-0092 1.792e+00 1.253e+01 0.143 0.8862
## date00-00-1979 9.808e-01 4.787e-01 2.049 0.0405 *
## date00-00-1982 NA NA NA NA
## date05-11-1999 NA NA NA NA
## date05-15-2001 6.360e-01 5.286e-01 1.203 0.2289
## date05-16-2001 1.099e+00 5.893e-01 1.864 0.0623 .
## date05-23-2004 NA NA NA NA
## date06-08-1999 NA NA NA NA
## date06-12-2004 NA NA NA NA
## date06-13-1990 NA NA NA NA
## date06-14-1990 NA NA NA NA
## date06-15-1990 NA NA NA NA
## date06-23-1990 NA NA NA NA
## date06-27-1990 NA NA NA NA
## date07-09-2001 9.808e-01 5.951e-01 1.648 0.0993 .
## date07-11-2001 NA NA NA NA
## date07-13-1998 NA NA NA NA
## date07-14-1998 NA NA NA NA
## date07-24-2002 NA NA NA NA
## date07-25-2002 NA NA NA NA
## date07-29-1998 NA NA NA NA
## date08-05-1999 NA NA NA NA
## date08-14-1998 NA NA NA NA
## date08-15-1998 NA NA NA NA
## date08-21-1998 NA NA NA NA
## date08-22-1998 NA NA NA NA
## date08-25-1999 NA NA NA NA
## date08-28-2001 NA NA NA NA
## date09-17-1997 NA NA NA NA
## date10-29-1998 NA NA NA NA
## plotsize NA NA NA NA
## utme 4.874e-16 2.570e-03 0.000 1.0000
## utmn 2.436e-16 2.719e-03 0.000 1.0000
## elev 1.805e-15 2.491e-02 0.000 1.0000
## tci -3.545e-16 3.822e-01 0.000 1.0000
## streamdist -2.769e-16 5.846e-03 0.000 1.0000
## disturbLT-SEL NA NA NA NA
## disturbSETTLE NA NA NA NA
## disturbVIRGIN NA NA NA NA
## beers 2.909e-15 1.497e+00 0.000 1.0000
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for poisson family taken to be 1)

```

```
##
## Null deviance: 98.82196 on 101 degrees of freedom
## Residual deviance: 0.35731 on 8 degrees of freedom
## AIC: 526.88
##
## Number of Fisher Scoring iterations: 3
```

I then calculated the r squared by creating a function that finds r squared by subtracting residual deviation divided by null deviation from 1.

```
pseudo_r2 = function(glm_mod) {
  1 - glm_mod$deviance / glm_mod$null.deviance
}

pseudo_r2(acer_glm)
```

```
## [1] 0.9865037
```

```
pseudo_r2(abies_glm)
```

```
## [1] 0.9963843
```

According to the calculated r squared function the abies model has a higher r squared value at .9963 however the acer model also has a high r squared value at .9865. To compare the OLS model with the GLM model I used the anova function to find the sum of squares for the two models.

```
anova(acerMod1, acer_glm)
```

```
## Analysis of Variance Table
##
## Model 1: cover ~ plotID + date + plotsize + utme + utmn + elev + tci +
## streamdist + disturb + beers
## Model 2: cover ~ plotID + date + plotsize + utme + utmn + elev + tci +
## streamdist + disturb + beers
## Res.Df RSS Df Sum of Sq F Pr(>F)
## 1 101 48.875
## 2 101 9.737 0 39.138
```

```
anova(abiesMod1, abies_glm)
```

```
## Analysis of Variance Table
##
## Model 1: cover ~ plotID + date + plotsize + utme + utmn + elev + tci +
## streamdist + disturb + beers
## Model 2: cover ~ plotID + date + plotsize + utme + utmn + elev + tci +
## streamdist + disturb + beers
## Res.Df RSS Df Sum of Sq F Pr(>F)
## 1 8 2.66667
## 2 8 0.35731 0 2.3094
```


3.) The analysis performed on the data set was a multi-step process. First I analyzed the dataset as a whole using an intercept only model. This model extrapolates from the intercept and slope and not from other factors in the dataset. According to this analysis the factors that best determine coverage in an ordinary linear are plotsize, species, elev, disturb, and beers. This model gave the same p-values as a model that was created using all of the other factors instead of just the intercept. This tells us that while this adds some significant data, it does not necessarily improve our model for coverage. The next analysis that was performed involved subsetting the data by species type. This was done to see if some factors were more important to modelling different species. Breaking up the data did not effect the Acer model however, the Abies model actually performed slightly worse when using the subsetted data.