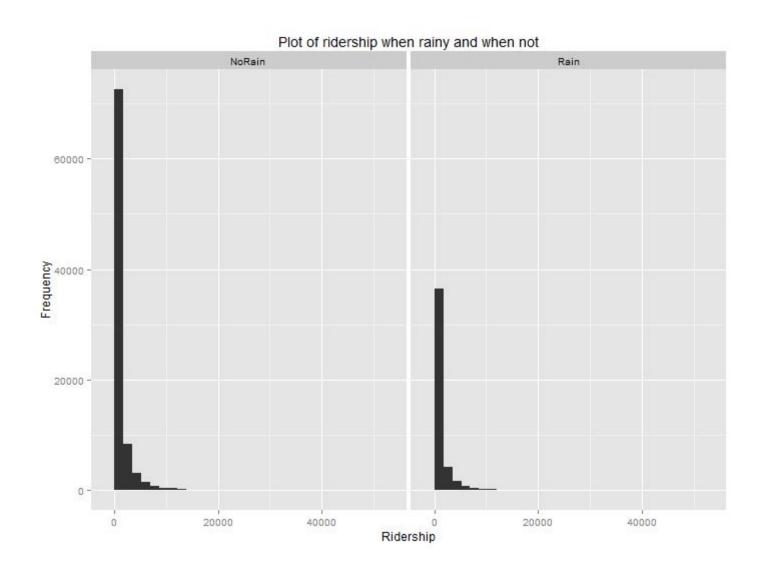
Analyzing the NYC Subway Project



Section 1. Statistical

Test

1.1 Which statistical test did you use to analyze the NYC subway data? Did you use a one-tail or a two-tail P value? What is the null hypothesis? What is your p-critical value?

The Mann Whitney U-test was used on this as it does not necessarily require that the assumption of normality be met. The plot above shows both ridership on when rainy and not are not normally distributed also below is a result of a

normailty test. Also the "scipy.stats.shapiro" test for normality returns a pvalue of 0.0 for both. This means we reject the null hypothesis that that either of them was drawn from a normally distributed population. Two tailed test was used because the question was to check if the population means are significantly different from one another and not if one is higher or lower than the other. The Null hypothesis is that there isn't a statistically significant different between the population means or that the difference between both means is 0. H0 = HA or H0 - HA = 0.95% implied confidence interval therefore $P \le 0.05$

1.2 Why is this statistical test applicable to the dataset? In particular, consider the assumptions that the test is making about the distribution of ridership in the two samples.

As stated earlier, this test is more appropriate as it is a non-parametric test and has a greater efficiency when it comes to non-normal distributions. It is applicable because we are comparing two independent population means. Using Python SciPy, P-Value is 0.024999912793489721

1.3 What results did you get from this statistical test? These should include the following numerical values: p-values, as well as the means for each of the two samples under test.

Using R's wilcox.test(td\$ENTRIESn_hourly[td\$rain == 0], td\$ENTRIESn_hourly[td\$rain == 1]), P-Value is 0.04988. Mean for entries with rain is 1105.45(rounded to 2 decimal places) and mean for entries without rain is 1090.29(rounded 2 dec places)

1.4 What is the significance and interpretation of these results?

In both instances, P-Value is lower than alpha of 0.05 The difference in population means is significant and not due to chance and as a result, we reject the Null Hypothesis.

Section 2. Linear

Regression

2.1 What approach did you use to compute the coefficients theta and produce prediction for ENTRIESn_hourly in your regression model: OLS Using statsmodels Station("UNIT").

Gradient descent (as implemented in exercise 3.5) OLS using Statsmodels Or something different?

2.2 What features (input variables) did you use in your model? Did you use any dummy variables as part of your features?

Rain, hour, actual day of week and peak/off-peak(rush hour) and a few of the other pressure, windspeed and temperature related features . Yes, I created a 3 dummy variables "newunit, dow and peak".

2.3 Why did you select these features in your model? We are looking for specific reasons that lead you to believe that the selected features will contribute to the predictive power of your model.

Your reasons might be based on intuition. For example, response for fog might be: "I decided to use fog because I thought that when it is very foggy outside people might decide to use the subway more often."

Your reasons might also be based on data exploration and experimentation, for example: "I used feature X because as soon as I included it in my model, it drastically improved my R2 value."

2.4 What are the coefficients (or weights) of the non-dummy features in your linear regression model?

It kind of makes sense that people who would otherwise have walked or cycled to their destinations would jump on the tube instead if it started to rain, if it got foggy or if the temperature dropped. these granted are not as particularly powerful predictors as one would expect. Most were selected on intuition some however, were not. My experience with public transportation in London reminded me of how more people tend to ride the tube during peak hours (Rush hour to our cousins across the pond) and it's more likely to find a seat at weekends than it is during the week.

Several coefficients for the stations, day of week also has a coefficient for each day and peak has -453.9744

and off-peak has -804.0951.

- 2.5 What is your model's R2 (coefficients of determination) value?
- 2.6 What does this R2 value mean for the goodness of fit for your regression model? Do you think this linear model to predict ridership is appropriate for this dataset, given this R2 value?

This number is an indicator of how well our data fits the linear model, it also indicates the proportion of variance accounted for in Y(values) is due to variation in X (features) 0.5 R^2 implies that about 50% change in entries houly can be attributed to a change in the

features so while it's not the best, it is appropriate.

```
OLS Regression Results
._____
Dep. Variable:
             ENTRIESn hourly R-squared:
                                              0.500
Model:
                 OLS Adj. R-squared:
                                         0.474
Method:
            Least Squares F-statistic:
                                         19.76
           Sun, 05 Apr 2015 Prob (F-statistic):
Date:
                                           0.00
Time:
            07:18:09 Log-Likelihood:
                                        -88001.
No. Observations:
                   10000 AIC:
                                       1.770e+05
Df Residuals:
                  9518 BIC:
                                     1.804e+05
Df Model:
                  481
Covariance Type:
                 nonrobust
______
                               [95.0% Conf. Int.]
         coef std err
                      t
                          P>|t|
Hour
         55.9731
                 2.570
                        21.784
                               0.000
                                       50.936 61.010
fog
        181.8301
                 68.614
                       2.650
                               0.008
                                      47.332 316.328
rain
       -108.1835 61.211
                       -1.767
                               0.077
                                     -228.169 11.802
meanwindspdi 18.1004
                   12.439
                           1.455
                                 0.146
                                          -6.282 42.483
meantempi
           -12.1503
                    5.260 -2.310
                                 0.021
                                        -22.461 -1.839
maxpressurei 612.3285 568.348
                            1.077 0.281 -501.755 1726.412
maxdewpti
          16.1335 15.447
                         1.044
                                0.296
                                        -14.145 46.412
mindewpti
          -3.1301 16.875 -0.185
                               0.853
                                       -36.209 29.949
minpressurei -544.9574 519.089 -1.050 0.294 -1562.483 472.568
meandewpti
           -9.3358 29.475 -0.317 0.751
                                        -67.113 48.441
unit R001 4247.4167 411.793 10.314 0.000 3440.214 5054.619
unit R002 -1008.5852 475.022 -2.123
                                  0.034 -1939.729 -77.441
unit R003 -1271.7921 495.924 -2.564 0.010 -2243.910 -299.675
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unit R004 -1112,5988 496,438 -2.241 0.025 -2085,723 -139,475 unit R006 -972,9248 581,712 -1,630 0.034 -2113,205 167,356 unit R008 -1256,4151 377,623 -3,314 0.001 -2172,647 -557,680 unit R011 800,2032 548,529 15,317 0.000 -2098,021 -373,487 unit R011 800,2032 548,529 15,317 0.000 4038,202 588,1319 unit R013 763,0365 456,597 1,671 0.095 -0.00 413,991 1658,064 unit R015 -1015,8173 581,433 -1,747 0.081 -1504,834 226,331 0.00 unit R016 -609,8500 456,557 -1,336 0.182 -2155,550 123,915 unit R018 3323,3654 399,375 8,211 0.000 1504,834 226,555 134,947 unit R020 2427,9564 440,166 5,516 0.000 194,578 3428,07	.'I D004	4440 5000	100 100	0.044	0.005	0005 700 400 475
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unit_R067 -342.4722 548.532 -0.624 0.532 -1417.712 732.767 unit_R068 -963.7569 388.425 -2.481 0.013 -1725.153 -202.361 unit_R069 -820.3824 411.421 -1.994 0.046 -1626.856 -13.909 unit_R070 -576.2211 475.362 -1.212 0.225 -1508.032 355.590 unit_R079 870.5199 359.503 2.421 0.015 165.817 1575.223						
unit_R068 -963.7569 388.425 -2.481 0.013 -1725.153 -202.361 unit_R069 -820.3824 411.421 -1.994 0.046 -1626.856 -13.909 unit_R070 -576.2211 475.362 -1.212 0.225 -1508.032 355.590 unit_R079 870.5199 359.503 2.421 0.015 165.817 1575.223	_					
unit_R069 -820.3824 411.421 -1.994 0.046 -1626.856 -13.909 unit_R070 -576.2211 475.362 -1.212 0.225 -1508.032 355.590 unit_R079 870.5199 359.503 2.421 0.015 165.817 1575.223	_					
unit_R070 -576.2211 475.362 -1.212 0.225 -1508.032 355.590 unit_R079 870.5199 359.503 2.421 0.015 165.817 1575.223						
unit_R079 870.5199 359.503 2.421 0.015 165.817 1575.223	_					
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unit_Ru80 3272.6519 399.674 8.188 0.000 2489.206 4056.098						
	unit_R080	32/2.6519	399.674	8.188	0.000	2489.206 4056.098

unit_R081	782.8124	621.642	1.259	0.208	-435.738 2001.363
unit R082	152.2073	456.693	0.333	0.739	-743.008 1047.423
unit R083	1698.5040	336.259	5.051	0.000	1039.365 2357.643
unit R084	5330.1617	377.750	14.110	0.000	4589.691 6070.633
_					
unit_R085	590.2979	368.358	1.603	0.109	-131.763 1312.359
unit_R086	735.5714	440.137	1.671	0.095	-127.190 1598.333
unit_R087	-633.7528	456.701	-1.388	0.165	-1528.984 261.478
unit R088	-995.8531	621.798	-1.602	0.109	-2214.709 223.003
unit R089	-953.6532	425.085	-2.243	0.025	-1786.911 -120.395
unit R090	-1105.2342		-2.327	0.020	-2036.139 -174.329
unit_R091	-69.1597	399.474	-0.173	0.863	-852.213 713.894
unit_R092	499.1709	439.942	1.135	0.257	-363.209 1361.551
unit_R093	242.1109	520.726	0.465	0.642	-778.623 1262.845
unit R094	243.7409	388.363	0.628	0.530	-517.533 1005.015
unit R095	830.1985	425.287	1.952	0.051	-3.455 1663.852
unit R096	253.5271	439.883	0.576	0.564	-608.738 1115.792
unit R097	1357.2064	622.015	2.182	0.029	137.924 2576.488
unit_R098	1148.3842	388.346	2.957	0.003	387.143 1909.626
unit_R099	220.4501	411.737	0.535	0.592	-586.643 1027.543
unit_R100	-1114.3824	440.081	-2.532	0.011	-1977.036 -251.729
unit R101	1939.0026	735.106	2.638	0.008	498.037 3379.968
unit R102	3023.4121	411.522	7.347	0.000	2216.741 3830.084
_	-434.6133	425.225			
unit_R103			-1.022	0.307	-1268.146 398.919
unit_R104	685.9804	548.052	1.252	0.211	-388.318 1760.279
unit_R105	1944.2675	399.343	4.869	0.000	1161.470 2727.065
unit_R106	-468.6879	440.387	-1.064	0.287	-1331.940 394.564
unit R107	-625.7513	425.131	-1.472	0.141	-1459.099 207.597
unit R108	4118.6326	475.415	8.663	0.000	3186.718 5050.548
unit R109	-101.6273	411.822	-0.247	0.805	-908.887 705.632
_					
unit_R110	1566.3225	621.520	2.520	0.012	348.011 2784.635
unit_R111	872.4646	456.345	1.912	0.056	-22.069 1766.998
unit_R112	13.8433	440.455	0.031	0.975	-849.543 877.230
unit R113	1708.6440	475.271	3.595	0.000	777.012 2640.276
unit R114	-587.2204	411.732	-1.426	0.154	-1394.303 219.863
unit R115	-324.8453	388.392	-0.836	0.403	-1086.177 436.486
unit R116		439.839		0.454	
_	329.6396		0.749		-532.539 1191.818
unit_R117	-814.0578	475.104	-1.713	0.087	-1745.362 117.247
unit_R118	328.9278	548.170	0.600	0.548	-745.602 1403.458
unit_R119	-0.4195	425.084	-0.001	0.999	-833.674 832.835
unit R120	152.0480	456.507	0.333	0.739	-742.802 1046.898
unit R121	-66.0625	581.834	-0.114	0.910	-1206.580 1074.455
unit R122	571.7046	425.127	1.345	0.179	-261.636 1405.045
unit_IX122	823.9414		2.002		
				0.045	17.099 1630.784
unit_R124	-914.2114	496.433	-1.842	0.066	-1887.326 58.903
unit_R125	-924.6290	456.740	-2.024	0.043	-1819.937 -29.321
unit_R126	113.5832	475.112	0.239	0.811	-817.737 1044.903
unit R127	2639.2257	377.848	6.985	0.000	1898.562 3379.889
unit R128	-996.3955	456.704	-2.182	0.029	-1891.632 -101.159
unit R129	-134.3844	439.786	-0.306	0.760	-996.458 727.689
unit R130	-820.2592	440.173	-1.863	0.062	-1683.092 42.574
_					
unit_R131	1330.9936	456.931	2.913	0.004	435.310 2226.677
unit_R132	2423.7579		4.166	0.000	1283.439 3564.077
unit_R133	-290.9618			0.453	-1051.774 469.851
unit_R134	-1116.4884	475.122	-2.350	0.019	-2047.828 -185.149
unit R135		411.640	-0.018	0.985	-814.492 799.312
unit R136	-279.8927	424.988	-0.659	0.510	-1112.960 553.175
	992.2219		2.409	0.016	
unit_R138	3736.7731			0.000	
unit_R139	-123.1051	581.497		0.832	-1262.963 1016.752
unit_R140	-86.2290	475.097	-0.181	0.856	-1017.521 845.063
unit_R141	2817.3959	378.400	7.446	0.000	2075.650 3559.141
unit R142	1904.1544	425.484	4.475	0.000	1070.114 2738.194
				0.033	64.084 1508.517
_		368 438			04 104 1310 317
unit_R143	786.3009	368.438			
unit_R143 unit_R144	786.3009 2308.7172	622.137	3.711	0.000	1089.197 3528.237
unit_R143 unit_R144 unit_R145	786.3009 2308.7172 -868.9330	622.137 377.763	3.711 -2.300	0.000 0.021	1089.197 3528.237 -1609.429 -128.437
unit_R143 unit_R144 unit_R145 unit_R146	786.3009 2308.7172 -868.9330 -140.9747	622.137 377.763 581.723	3.711 -2.300 -0.242	0.000 0.021 0.809	1089.197 3528.237 -1609.429 -128.437 -1281.276 999.327
unit_R143 unit_R144 unit_R145 unit_R146 unit_R147	786.3009 2308.7172 -868.9330	622.137 377.763 581.723 425.325	3.711 -2.300 -0.242 2.617	0.000 0.021 0.809 0.009	1089.197 3528.237 -1609.429 -128.437 -1281.276 999.327 279.203 1946.660
unit_R143 unit_R144 unit_R145 unit_R146	786.3009 2308.7172 -868.9330 -140.9747	622.137 377.763 581.723	3.711 -2.300 -0.242	0.000 0.021 0.809	1089.197 3528.237 -1609.429 -128.437 -1281.276 999.327

!4 D440					
unit R149	-220.8601	581.443	-0.380	0.704	-1360.612 918.891
unit R150	-611.0058	475.227	-1.286	0.199	-1542.553 320.541
unit_R151	325.9710	496.164	0.657	0.511	-646.616 1298.558
unit R152	-34.5665	359.804	-0.096	0.923	-739.860 670.727
unit R153	604.8135	456.458	1.325	0.185	-289.942 1499.569
unit_R154	-413.6191	496.370	-0.833	0.405	-1386.610 559.372
unit R155	-150.4016	388.401	-0.387	0.699	-911.750 610.946
unit R156	-174.4161	475.557	-0.367	0.714	-1106.609 757.777
unit_R157	-77.4746	399.353	-0.194	0.846	-860.291 705.342
unit R158	2494.3584	548.544	4.547	0.000	1419.094 3569.622
unit R159	-719.8775	548.603	-1.312	0.189	-1795.256 355.501
unit_R160	1102.4180	388.117	2.840	0.005	341.625 1863.211
unit R161	144.5630	399.490	0.362	0.717	-638.522 927.648
unit R163	2418.2343	377.780	6.401	0.000	1677.705 3158.764
			3.409		
unit_R164	1323.8464	388.363		0.001	562.572 2085.121
unit_R165	-1637.2260	377.768	-4.334	0.000	-2377.732 -896.720
unit R166	1180.0787	425.044	2.776	0.006	346.903 2013.255
unit R167	1439.4690	399.558	3.603	0.000	656.251 2222.687
unit_R168	4331.9261	496.349	8.728	0.000	3358.976 5304.877
unit R169	49.6469	440.472	0.113	0.910	-813.772 913.066
unit R170	8844.8312	359.643	24.593	0.000	8139.855 9549.808
_					
unit_R171	-321.3438	440.348	-0.730	0.466	-1184.520 541.833
unit R172	-622.8712	520.452	-1.197	0.231	-1643.068 397.325
unit R173	-637.3306	411.827	-1.548	0.122	-1444.599 169.938
unit_R174	216.0967	475.023	0.455	0.649	-715.050 1147.243
unit R175	3974.4761	456.572	8.705	0.000	3079.498 4869.454
unit R176	1848.6840	474.966	3.892	0.000	917.649 2779.719
unit_R177	3138.7326	456.424	6.877	0.000	2244.045 4033.420
unit R178	5194.7852	425.118	12.220	0.000	4361.463 6028.107
unit R179	6548.6954	425.336	15.397	0.000	5714.946 7382.445
unit_R180	1111.4427	456.570	2.434	0.015	216.467 2006.418
unit_R181	217.7085	399.615	0.545	0.586	-565.621 1001.038
unit R182	942.2188	475.681	1.981	0.048	9.782 1874.656
unit R183		475.643	-1.207	0.228	-1506.278 358.443
	-573.9176				
unit_R184	-798.1677	439.889	-1.814	0.070	-1660.443 64.108
unit R185	-662.6830	440.327	-1.505	0.132	-1525.818 200.452
unit R186	-176.0162	388.368	-0.453	0.650	-937.300 585.268
unit_R187	-108.4011	411.765	-0.263	0.792	-915.548 698.745
unit R188	684.2728	496.364	1.379	0.168	-288.707 1657.253
unit_R189			-0.383	0.701	-935.684 629.586
					-300.00 1 023.000
	-153.0489		4 0 5 4	$\sim \sim \sim \sim$	400 400 4440 440
unit_R190	659.8596	399.590	1.651	0.099	-123.423 1443.142
unit_R190 unit_R191			1.651 0.314	0.099 0.754	-123.423 1443.142 -677.997 936.578
unit_R191	659.8596 129.2909	399.590 411.837	0.314	0.754	-677.997 936.578
unit_R191 unit_R192	659.8596 129.2909 296.4455	399.590 411.837 425.526	0.314 0.697	0.754 0.486	-677.997 936.578 -537.676 1130.567
unit_R191 unit_R192 unit_R193	659.8596 129.2909 296.4455 -22.5569	399.590 411.837 425.526 457.211	0.314 0.697 -0.049	0.754 0.486 0.961	-677.997 936.578 -537.676 1130.567 -918.788 873.674
unit_R191 unit_R192 unit_R193 unit_R194	659.8596 129.2909 296.4455 -22.5569 174.6841	399.590 411.837 425.526 457.211 548.571	0.314 0.697 -0.049 0.318	0.754 0.486 0.961 0.750	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001
unit_R191 unit_R192 unit_R193 unit_R194	659.8596 129.2909 296.4455 -22.5569	399.590 411.837 425.526 457.211 548.571	0.314 0.697 -0.049 0.318	0.754 0.486 0.961	-677.997 936.578 -537.676 1130.567 -918.788 873.674
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496	399.590 411.837 425.526 457.211 548.571 359.862	0.314 0.697 -0.049 0.318 9.520	0.754 0.486 0.961 0.750 0.000	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476	399.590 411.837 425.526 457.211 548.571 359.862 424.860	0.314 0.697 -0.049 0.318 9.520 -0.743	0.754 0.486 0.961 0.750 0.000 0.457	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874	0.754 0.486 0.961 0.750 0.000 0.457 0.382	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476	399.590 411.837 425.526 457.211 548.571 359.862 424.860	0.314 0.697 -0.049 0.318 9.520 -0.743	0.754 0.486 0.961 0.750 0.000 0.457	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R199	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R199 unit_R200	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R199 unit_R200 unit_R201	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R199 unit_R200 unit_R201	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R199 unit_R200 unit_R201 unit_R201	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R210	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R210	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211 unit_R213	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989 -43.8330	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881 520.634	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517 -0.084	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605 0.933	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267 -1064.386 976.720
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.692 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605 0.933 0.075	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R201 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211 unit_R213 unit_R214	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989 -43.8330 -711.3316	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881 520.634 399.647	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517 -0.084 -1.780	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605 0.933 0.075	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267 -1064.386 976.720 -1494.724 72.061
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211 unit_R212 unit_R213 unit_R214 unit_R215	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989 -43.8330 -711.3316 -416.9184	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881 520.634 399.647 368.448	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517 -0.084 -1.780 -1.132	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605 0.933 0.075 0.258	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267 -1064.386 976.720 -1494.724 72.061 -1139.155 305.318
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211 unit_R212 unit_R213 unit_R214 unit_R215 unit_R216	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989 -43.8330 -711.3316 -416.9184 -893.9152	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881 520.634 399.647 368.448 388.274	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517 -0.084 -1.780 -1.132 -2.302	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605 0.933 0.075 0.258 0.021	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267 -1064.386 976.720 -1494.724 72.061 -1139.155 305.318 -1655.014 -132.816
unit_R191 unit_R192 unit_R193 unit_R194 unit_R195 unit_R196 unit_R197 unit_R198 unit_R200 unit_R200 unit_R201 unit_R202 unit_R203 unit_R204 unit_R205 unit_R206 unit_R207 unit_R208 unit_R209 unit_R210 unit_R211 unit_R211 unit_R212 unit_R213 unit_R214 unit_R215	659.8596 129.2909 296.4455 -22.5569 174.6841 3425.7496 -315.7476 433.5688 1067.1504 -762.3537 280.3695 862.5115 982.3263 -417.1587 98.8944 392.7387 186.9290 258.2752 2401.3838 -414.0944 -820.9826 305.8391 245.3989 -43.8330 -711.3316 -416.9184	399.590 411.837 425.526 457.211 548.571 359.862 424.860 496.057 456.517 400.180 411.653 399.355 496.702 368.508 399.506 475.011 496.096 475.402 548.873 456.617 440.004 474.881 520.634 399.647 368.448	0.314 0.697 -0.049 0.318 9.520 -0.743 0.874 2.338 -1.905 0.681 2.095 2.460 -0.840 0.268 0.983 0.394 0.521 5.051 -0.754 -1.798 0.695 0.517 -0.084 -1.780 -1.132	0.754 0.486 0.961 0.750 0.000 0.457 0.382 0.019 0.057 0.496 0.036 0.014 0.401 0.788 0.326 0.694 0.603 0.000 0.451 0.072 0.487 0.605 0.933 0.075 0.258	-677.997 936.578 -537.676 1130.567 -918.788 873.674 -900.633 1250.001 2720.344 4131.155 -1148.564 517.068 -538.809 1405.946 172.279 1962.021 -1546.791 22.084 -526.634 1087.373 55.584 1669.439 199.506 1765.147 -1390.800 556.482 -623.460 821.249 -390.378 1175.855 -744.194 1118.052 -714.180 1230.730 1469.494 3333.273 -1490.004 661.815 -1716.048 74.083 -556.663 1168.341 -685.469 1176.267 -1064.386 976.720 -1494.724 72.061 -1139.155 305.318

unit_R218 unit_R219 unit_R220 unit_R221 unit_R222 unit_R223 unit_R224 unit_R225 unit_R226 unit_R227 unit_R228 unit_R229 unit_R230 unit_R231	-442.5440 -891.8103 -343.3468 -548.4816 1938.8013 1021.8834 -694.4826 -984.6765 -806.6127 -406.7194 70.0295 -1110.3481 -804.2307 -328.3517	411.493 456.347 496.130 475.108 440.480 671.238 496.273 474.912 456.675 377.857 399.356 456.880 456.494 496.085	-1.075 -1.954 -0.692 -1.154 4.402 1.522 -1.399 -2.073 -1.766 -1.076 0.175 -2.430 -1.762 -0.662	0.282 0.051 0.489 0.248 0.000 0.128 0.162 0.038 0.077 0.282 0.861 0.015 0.078	-1249.158 364.070 -1786.348 2.727 -1315.867 629.174 -1479.795 382.832 1075.367 2802.236 -293.887 2337.653 -1667.283 278.318 -1915.606 -53.747 -1701.793 88.567 -1147.399 333.961 -712.793 852.852 -2005.931 -214.765 -1699.057 90.596
0.508 -13	00.785 644.	082			
unit_R232	-360.8958	475.112	-0.760	0.448	-1292.217 570.426
unit_R233	-587.9393	520.140	-1.130	0.258	-1607.524 431.646
unit_R234	-1211.8542 1943.1947	475.161	-2.550	0.011 0.000	-2143.271 -280.437
unit_R235 unit_R236	159.4755	377.774 399.655	5.144 0.399	0.690	1202.677 2683.712 -623.933 942.884
unit R237	-752.7916	425.287	-1.770	0.030	-1586.445 80.862
unit R238	897.4107	456.652	1.965	0.049	2.276 1792.546
unit_R239	-687.5619	456.682	-1.506	0.132	-1582.756 207.632
unit_R240	1833.4393	399.576	4.588	0.000	1050.185 2616.694
unit_R241	-1121.3302	388.146	-2.889	0.004	-1882.180 -360.481
unit_R242 unit_R243	-1008.3337 185.4442	520.343 424.713	-1.938 0.437	0.053 0.662	-2028.318 11.650 -647.084 1017.973
unit_R243	-409.4252	387.854	-1.056	0.002	-1169.701 350.850
unit R246	-1124.6999	496.059	-2.267	0.023	-2097.082 -152.318
unit R247	-1132.1191	399.459	-2.834	0.005	-1915.145 -349.093
unit_R248	2292.6540	456.591	5.021	0.000	1397.638 3187.670
unit_R249	-283.0949	456.571	-0.620	0.535	-1178.072 611.882
unit_R250	-585.8663	520.345	-1.126	0.260	-1605.854 434.121
unit_R251	-835.3005	520.265	-1.606	0.108	-1855.131 184.530
unit_R252 unit_R253	-945.6192	548.694 456.644	-1.723	0.085	-2021.176 129.938 -1814.984 -24.745
unit_R253	-919.8643 -92.6411	399.382	-2.014 -0.232	0.044 0.817	-875.516 690.233
unit R255	-634.6625	520.221	-1.220	0.222	-1654.406 385.081
unit_R256	-657.4107	475.162	-1.384	0.167	-1588.829 274.007
unit_R257	214.3564	329.887	0.650	0.516	-432.293 861.006
unit_R258	412.3335	440.132	0.937	0.349	-450.419 1275.086
unit_R259	-493.9007	475.205	-1.039	0.299	-1425.403 437.602
unit_R260	82.5342	411.908	0.200	0.841	-724.893 889.961
unit_R261	-330.8284	456.348	-0.725	0.469	-1225.367 563.710 -1723.875 427.059
unit_R262 unit_R263	-648.4079 -1400.7221	548.648 399.700	-1.182 -3.504	0.237 0.000	-2184.219 -617.225
unit R264	-1047.5055	440.529	-2.378	0.000	-1911.037 -183.974
unit R265	-370.2771	621.468	-0.596	0.551	-1588.487 847.932
unit_R266	-318.5888	496.390	-0.642	0.521	-1291.619 654.442
unit_R267	-122.5216	378.244	-0.324	0.746	-863.961 618.918
unit_R268	1036.9909		2.357	0.018	174.637 1899.345
unit_R269	-536.4755	388.315	-1.382	0.167	-1297.655 224.704 -1743.107 -76.793
unit_R270 unit_R271	-909.9501 -1089.2992		-2.141 -2.196	0.032 0.028	-2061.859 -116.740
unit R272	97.7531	388.321	0.252	0.801	-663.438 858.945
unit R273	-413.4655	548.832	-0.753	0.451	-1489.293 662.362
unit_R274	-826.9078	425.779	-1.942	0.052	-1661.525 7.710
unit_R275	-771.6459	456.647	-1.690	0.091	-1666.772 123.480
unit_R276	63.5109	412.063	0.154	0.878	-744.221 871.243
unit_R277	-820.0034	671.156	-1.222	0.222	-2135.613 495.606
unit_R278 unit_R279	-1115.3208 -752.2167	411.397 377.962	-2.711 -1.990	0.007 0.047	-1921.747 -308.895 -1493.102 -11.331
unit_R279 unit_R280	-752.2167 -864.5223	411.941	-1.990	0.047	-1672.014 -57.031
unit_R280	-144.8332	323.148	-0.448	0.654	-778.273 488.607
unit R282	-108.4469	495.838	-0.219	0.827	-1080.395 863.501
unit_R283	-638.7703	496.365	-1.287	0.198	-1611.751 334.211
unit_R284	-481.7945	399.168	-1.207	0.227	-1264.249 300.660

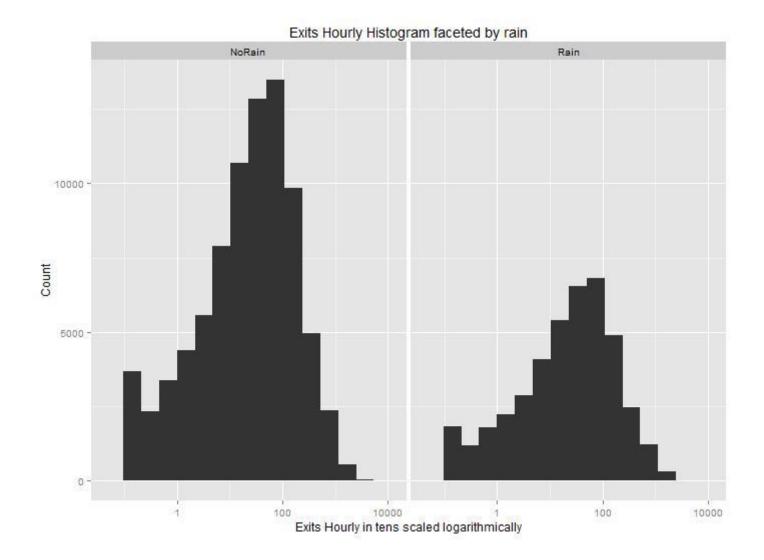
unit R285	-920.7110	425.554	-2.164	0.031	-1754.887 -86.535
unit R286	-884.3196	388.369	-2.277	0.023	-1645.607 -123.033
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unit_R287	-671.7751	581.902	-1.154	0.248	-1812.428 468.878
unit R288	298.1506	411.380	0.725	0.469	-508.241 1104.542
unit R289	-824.8379	456.337	-1.808	0.071	-1719.356 69.680
unit_R290	141.0524	377.915	0.373	0.709	-599.741 881.845
unit_R291	-656.6881	548.717	-1.197	0.231	-1732.290 418.914
unit R292	-977.6766	399.289	-2.449	0.014	-1760.368 -194.985
unit R293	6110.5807	440.344	13.877	0.000	5247.412 6973.749
unit_R294	-554.0566	399.679	-1.386	0.166	-1337.513 229.400
unit R295	-1190.9613	520.581	-2.288	0.022	-2211.411 -170.511
unit R296	-962.2667	475.228	-2.025	0.043	-1893.814 -30.719
unit_R297	-555.3349	368.765	-1.506	0.132	-1278.193 167.523
unit R298	-597.7547	368.728	-1.621	0.105	-1320.540 125.031
unit R299	-1206.6233	520.415	-2.319	0.020	-2226.747 -186.500
unit R300	1279.2126	368.243	3.474	0.001	557.378 2001.047
unit_R301	-570.3552	456.562	-1.249	0.212	-1465.313 324.603
unit R302	557.2626	377.935	1.474	0.140	-183.571 1298.096
unit R303	374.5017	377.972	0.991	0.322	-366.405 1115.408
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unit_R304	-527.8284	399.748	-1.320	0.187	-1311.420 255.763
unit_R306	-1151.4233	411.960	-2.795	0.005	-1958.953 -343.894
unit R307	-1036.5726	399.829	-2.593	0.010	-1820.322 -252.823
unit_R308					
	-544.3155	456.702	-1.192	0.233	
unit_R309	-564.0156	548.196	-1.029	0.304	-1638.597 510.566
unit R310	588.1809	475.065	1.238	0.216	-343.049 1519.411
unit R311	-1219.7550	496.428	-2.457	0.014	-2192.859 -246.651
unit_R312	-1153.9750	440.255	-2.621	0.009	-2016.968 -290.982
unit R313	-1269.8884	621.761	-2.042	0.041	-2488.673 -51.103
unit R314	-1083.6383	440.395	-2.461	0.014	-1946.906 -220.370
unit R315	-984.9147	456.557	-2.157		-1879.864 -89.966
_				0.031	
unit_R316	-1192.8714	456.232	-2.615	0.009	-2087.184 -298.559
unit R317	-866.4081	412.233	-2.102	0.036	-1674.472 -58.344
unit R318	-1070.3501	548.217	-1.952	0.051	-2144.972 4.272
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unit_R319	682.9164	496.253	1.376	0.169	-289.845 1655.678
unit_R320	-778.0804	351.151	-2.216	0.027	-1466.412 -89.749
unit R321	-437.4097	456.370	-0.958	0.338	-1331.993 457.173
unit R322	631.1405	377.834	1.670	0.095	-109.495 1371.776
unit_R323	-214.8680	440.276	-0.488	0.626	-1077.903 648.167
unit R324	177.5780	377.859	0.470	0.638	-563.106 918.262
unit_R325	-1217.0549		-2.338	0.019	
unit_R326	-1097.0782	496.464	-2.210	0.027	-2070.254 -123.903
unit_R327	-32.7196	475.305	-0.069	0.945	-964.419 898.980
unit R328	-1022.0827	456.593	-2.238	0.025	-1917.103 -127.063
unit R329	-1262.5587	735.897	-1.716	0.086	-2705.074 179.957
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unit_R330	-186.9360	411.709	-0.454	0.650	-993.974 620.102
unit_R331	-1182.9301	456.913	-2.589	0.010	-2078.577 -287.283
unit R332	-887.9156	475.131	-1.869	0.062	-1819.274 43.443
unit R333	-576.5074	425.333	-1.355	0.175	-1410.251 257.236
unit_R334	-421.6793	411.990	-1.024	0.306	-1229.268 385.910
unit R335					
um_1333	-1133.5592	496.794	-2.282	0.023	-2107.381 -159.737
_				0.023	
unit_R336	-1359.8013	548.480	-2.479	0.023 0.013	-2434.939 -284.663
unit_R336 unit_R337	-1359.8013 -1475.2201	548.480 495.995	-2.479 -2.974	0.023 0.013 0.003	-2434.939 -284.663 -2447.477 -502.964
unit_R336 unit_R337 unit_R338	-1359.8013 -1475.2201 -1533.4235	548.480 495.995 425.085	-2.479 -2.974 -3.607	0.023 0.013 0.003 0.000	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165
unit_R336 unit_R337	-1359.8013 -1475.2201 -1533.4235	548.480 495.995 425.085	-2.479 -2.974 -3.607	0.023 0.013 0.003 0.000	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165
unit_R336 unit_R337 unit_R338 unit_R339	-1359.8013 -1475.2201 -1533.4235 -1121.5260	548.480 495.995 425.085 475.181	-2.479 -2.974 -3.607 -2.360	0.023 0.013 0.003 0.000 0.018	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014	548.480 495.995 425.085 475.181 399.671	-2.479 -2.974 -3.607 -2.360 -2.412	0.023 0.013 0.003 0.000 0.018 0.016	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784	548.480 495.995 425.085 475.181 399.671 411.654	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982	0.023 0.013 0.003 0.000 0.018 0.016 0.047	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014	548.480 495.995 425.085 475.181 399.671	-2.479 -2.974 -3.607 -2.360 -2.412	0.023 0.013 0.003 0.000 0.018 0.016	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871	548.480 495.995 425.085 475.181 399.671 411.654 388.814	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347 unit_R347	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068 -1370.7245	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608 424.772	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411 -3.227	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158 0.001	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310 -2203.367 -538.082
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347 unit_R348 unit_R348	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068 -1370.7245 -618.0033	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608 424.772 440.043	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411 -3.227 -1.404	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158 0.001 0.160	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310 -2203.367 -538.082 -1480.582 244.575
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347 unit_R348 unit_R349 unit_R350	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068 -1370.7245 -618.0033 -1239.4428	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608 424.772 440.043 456.490	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411 -3.227 -1.404 -2.715	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158 0.001 0.160 0.007	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310 -2203.367 -538.082 -1480.582 244.575 -2134.260 -344.626
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347 unit_R348 unit_R349 unit_R350 unit_R350 unit_R352	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068 -1370.7245 -618.0033 -1239.4428 -993.9226	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608 424.772 440.043 456.490 621.820	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411 -3.227 -1.404 -2.715 -1.598	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158 0.001 0.160 0.007	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310 -2203.367 -538.082 -1480.582 244.575 -2134.260 -344.626 -2212.823 224.978
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R348 unit_R349 unit_R350 unit_R350 unit_R352 unit_R353	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068 -1370.7245 -618.0033 -1239.4428 -993.9226 -801.9378	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608 424.772 440.043 456.490 621.820 495.900	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411 -3.227 -1.404 -2.715 -1.598 -1.617	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158 0.001 0.160 0.007 0.110	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310 -2203.367 -538.082 -1480.582 244.575 -2134.260 -344.626 -2212.823 224.978 -1774.007 170.131
unit_R336 unit_R337 unit_R338 unit_R339 unit_R340 unit_R341 unit_R342 unit_R343 unit_R344 unit_R345 unit_R346 unit_R347 unit_R348 unit_R349 unit_R350 unit_R350 unit_R352	-1359.8013 -1475.2201 -1533.4235 -1121.5260 -964.2014 -815.9784 -884.4871 -966.1352 -1161.8241 -1221.8252 -412.1614 -564.0068 -1370.7245 -618.0033 -1239.4428 -993.9226	548.480 495.995 425.085 475.181 399.671 411.654 388.814 425.032 520.643 520.278 495.882 399.608 424.772 440.043 456.490 621.820	-2.479 -2.974 -3.607 -2.360 -2.412 -1.982 -2.275 -2.273 -2.232 -2.348 -0.831 -1.411 -3.227 -1.404 -2.715 -1.598	0.023 0.013 0.003 0.000 0.018 0.016 0.047 0.023 0.023 0.026 0.019 0.406 0.158 0.001 0.160 0.007	-2434.939 -284.663 -2447.477 -502.964 -2366.682 -700.165 -2052.982 -190.070 -1747.641 -180.761 -1622.908 -9.049 -1646.645 -122.329 -1799.288 -132.983 -2182.396 -141.252 -2241.681 -201.969 -1384.196 559.873 -1347.323 219.310 -2203.367 -538.082 -1480.582 244.575 -2134.260 -344.626 -2212.823 224.978

unit R355	-1116.1497	424.970	-2.626	0.009	-1949.182 -283.118
unit_R356	-1005.4456	520.298	-1.932	0.009	-2025.341 14.450
unit_R357	-1357.8913	475.381	-2.856	0.004	-2289.739 -426.044
unit R358	-1317.0164	520.386	-2.531	0.011	-2337.083 -296.950
unit R359	699.7606	377.538	1.853	0.064	-40.295 1439.816
unit R360	-1455.8192	520.479	-2.797	0.005	-2476.068 -435.570
unit R361	-634.2879	456.629	-1.389	0.165	-1529.377 260.801
unit R362	-783.8720	496.135	-1.580	0.114	-1756.402 188.658
unit R363	-901.6974	548.188	-1.645	0.100	-1976.263 172.868
unit R364	-564.8315	671.135	-0.842	0.400	-1880.400 750.737
unit_R365	-891.4670	520.603	-1.712	0.087	-1911.960 129.026
unit_R366	-786.8471	475.324	-1.655	0.098	-1718.584 144.889
unit_R367	-873.5665	440.567	-1.983	0.047	-1737.172 -9.961
unit_R368	-1359.3808	582.347	-2.334	0.020	-2500.906 -217.856
unit_R369	-1034.8887	581.578	-1.779	0.075	-2174.907 105.129
unit_R370	-970.6207	496.465	-1.955	0.051	-1943.798 2.556
unit_R371	-692.7803	411.526	-1.683	0.092	-1499.458 113.898
unit_R372	-991.9233	411.728	-2.409	0.016	-1798.998 -184.848
unit_R373	-636.1047	496.474	-1.281	0.200	-1609.299 337.089
unit_R374	-427.3722	548.431	-0.779	0.436	-1502.414 647.669
unit_R375	-1141.6781	399.730	-2.856	0.004	-1925.234 -358.123
unit_R376	-1109.0340	399.353	-2.777	0.005	-1891.851 -326.217
unit_R377	-242.0262	368.591	-0.657	0.511	-964.543 480.491
unit_R378 unit_R379	-192.3603	496.109	-0.388	0.698	-1164.840 780.119
unit_R379	-1011.6803 -817.3492	496.609 496.131	-2.037 -1.647	0.042 0.099	-1985.140 -38.221 -1789.872 155.174
unit_R380	-671.4949	399.194	-1.682	0.099	-1454.001 111.011
unit_R382	-815.6208	474.957	-1.717	0.086	-1746.638 115.397
unit_R383	-849.4389	377.840	-2.248	0.025	-1590.086 -108.792
unit R384	-1316.8339	399.483	-3.296	0.001	-2099.905 -533.763
unit R385	-448.3592	456.393	-0.982	0.326	-1342.986 446.267
unit R386	-602.8497	671.354	-0.898	0.369	-1918.847 713.148
unit R387	-362.0827	456.458	-0.793	0.428	-1256.838 532.672
unit R388	-271.1288	439.955	-0.616	0.538	-1133.534 591.276
unit_R389	-1000.6080	425.256	-2.353	0.019	-1834.201 -167.015
unit_R390	353.7092	411.674	0.859	0.390	-453.259 1160.678
unit_R391	-298.5876	475.504	-0.628	0.530	-1230.676 633.501
unit_R392	-572.2830	411.934	-1.389	0.165	-1379.761 235.195
unit_R393	-878.8324	456.662	-1.924	0.054	-1773.986 16.322
unit_R394	-316.2271		-0.693	0.489	-1211.074 578.620
unit_R395	-680.0490	440.158	-1.545	0.122	-1542.852 182.754
unit_R396	-914.6027	440.095	-2.078	0.038	-1777.282 -51.923
unit_R397	-1074.9514	411.871	-2.610	0.009	-1882.306 -267.597
unit_R398	-711.3744	475.006	-1.498	0.134	-1642.488 219.739
unit_R399	-1099.9907	368.357	-2.986	0.003	-1822.050 -377.932
unit_R400 unit R401	-1167.6813 -1323.5182	399.428 496.284	-2.923 -2.667	0.003 0.008	-1950.645 -384.718 -2296.340 -350.696
unit_R401 unit R402	-1192.6613	456.468	-2.613	0.008	-2087.436 -297.886
unit R403	-1155.0074	368.526	-3.134	0.003	-1877.397 -432.617
unit R404	-451.5187	399.404	-1.130	0.002	-1234.436 331.398
unit R405	-869.1415	475.194	-1.829	0.067	-1800.624 62.341
unit R406	-391.6186	412.053	-0.950	0.342	-1199.331 416.093
unit R407	-1215.1863	399.478	-3.042	0.002	-1998.248 -432.125
unit_R408	36.6981	388.165	0.095	0.925	-724.189 797.585
unit_R409	-857.3911	496.242	-1.728	0.084	-1830.131 115.349
unit_R411	-1553.0327		-2.498	0.013	-2771.923 -334.143
unit_R412	-1330.9960	425.128	-3.131	0.002	-2164.337 -497.655
unit_R413	-1046.1371	411.762	-2.541	0.011	-1853.279 -238.995
unit_R414	-1155.6072	496.086	-2.329	0.020	-2128.041 -183.173
unit_R415	-1655.5071	475.083	-3.485	0.000	-2586.771 -724.243
unit_R416	-1267.5180	581.805	-2.179	0.029	-2407.980 -127.056
unit_R417	-1413.9908	520.155	-2.718	0.007	-2433.605 -394.376
unit_R418	-1331.3025	425.053	-3.132	0.002	-2164.496 -498.109
unit_R419	-1534.7173	456.609	-3.361	0.001	-2429.768 -639.667
unit_R420	-684.6160	456.842	-1.499 3 173	0.134	-1580.124 210.892
unit_R421 unit R422	-1232.0247 -1135.7598	388.297 411.668	-3.173 -2.759	0.002 0.006	-1993.170 -470.879 -1942.717 -328.803
unit_R422 unit_R423	-973.7299	388.293	-2.759 -2.508	0.006	-1942.717 -328.803 -1734.867 -212.593
um_1\ 1 23	-313.1233	000.280	2.000	0.012	1107.001 -212.030

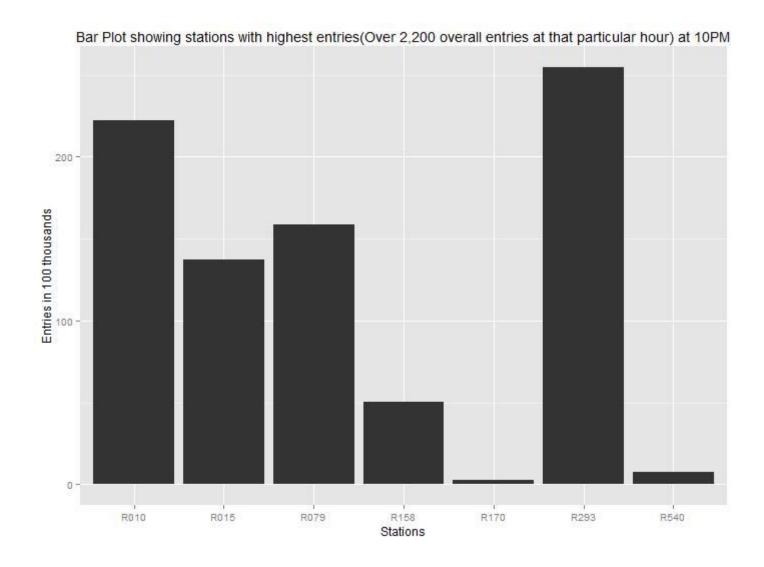
```
unit R424
             -1143.8728
                          520.214
                                     -2.199
                                               0.028
                                                       -2163.603 -124.143
unit R425
             -944.7946
                         399.763
                                    -2.363
                                              0.018
                                                       -1728.415 -161.174
unit R426
             -1238.3410
                          456.806
                                     -2.711
                                               0.007
                                                       -2133.779 -342.904
unit R427
             -1172.4795
                          456.435
                                     -2.569
                                               0.010
                                                       -2067.189 -277.770
unit R428
             -1472.9757
                          496.400
                                     -2.967
                                               0.003
                                                       -2446.025 -499.926
unit R429
             -777.7690
                         411.644
                                    -1.889
                                              0.059
                                                       -1584.680
                                                                   29.142
unit R430
             -999.2836
                         440.112
                                    -2.271
                                              0.023
                                                       -1861.996 -136.571
unit R431
             -1254.3685
                          581.858
                                     -2.156
                                               0.031
                                                       -2394.935 -113.802
unit R432
             -1021.6438
                          520.481
                                     -1.963
                                               0.050
                                                       -2041.898
                                                                   -1.390
unit R433
             -1163.6444
                          520.557
                                     -2.235
                                               0.025
                                                       -2184.047 -143.242
unit_R434
             -829.9134
                         581.733
                                    -1.427
                                              0.154
                                                       -1970.234
                                                                  310.407
unit_R435
             -1113.4778
                          359.579
                                     -3.097
                                               0.002
                                                       -1818.330 -408.626
unit_R436
             -1182.3496
                          496.294
                                     -2.382
                                               0.017
                                                       -2155.191 -209.508
unit_R437
             -1028.5673
                          581.975
                                     -1.767
                                               0.077
                                                       -2169.363
                                                                  112.228
unit_R438
             -737.1490
                         581.801
                                    -1.267
                                              0.205
                                                       -1877.603
                                                                  403.305
unit_R439
             -792.8949
                         368.356
                                    -2.153
                                              0.031
                                                       -1514.950
                                                                  -70.839
             -1122.7481
                                     -2.159
unit_R440
                          519.981
                                               0.031
                                                       -2142.022 -103.474
unit R441
             -959.3190
                         581.638
                                    -1.649
                                              0.099
                                                       -2099.454 180.816
unit R442
             -1496.8398
                          440.059
                                     -3.401
                                               0.001
                                                       -2359.449 -634.231
                         671.360
unit R443
             -352.9818
                                    -0.526
                                              0.599
                                                       -1668.991 963.027
                                     -2.224
                                                       -2434.572 -153.716
unit R444
             -1294.1439
                          581.788
                                               0.026
             -461.2630
                                                       -1536.254
unit R445
                         548.405
                                    -0.841
                                              0.400
                                                                  613.728
             -826.3043
                                    -1.878
unit R446
                         440.017
                                              0.060
                                                       -1688.832
                                                                   36.224
                                     -2.364
             -1173.7163
                                                       -2146.772 -200.661
unit R447
                          496.403
                                               0.018
                                     -4.329
                                                       -2264.948 -853.088
unit R448
             -1559.0179
                          360.129
                                               0.000
unit R449
             -780.2681
                         425.368
                                                       -1614.080
                                                                   53.544
                                    -1.834
                                              0.067
unit R450
                          399.914
                                     -2.779
                                               0.005
                                                       -1895.090 -327.258
             -1111.1738
unit R451
                         495.934
                                    -1.143
                                                       -1538.817 405.454
             -566.6814
                                              0.253
                          425.293
unit R452
             4781.7471
                                     11.243
                                               0.000
                                                        3948.082 5615.412
unit R453
                         548.537
                                              0.712
                                                       -872.838 1277.661
              202.4112
                                     0.369
unit R454
             -1375.5438
                          475.125
                                     -2.895
                                               0.004
                                                       -2306.890 -444.198
unit R455
             -1479.7772
                          475.694
                                     -3.111
                                               0.002
                                                       -2412.238 -547.316
             -1153.6095
                          411.977
                                     -2.800
                                                       -1961.173 -346.046
unit R456
                                               0.005
                                                       -3110.599 -957.512
unit R459
             -2034.0553
                          549.197
                                     -3.704
                                               0.000
              124.2209
                                                       -807.032 1055.474
unit R460
                         475.078
                                     0.261
                                              0.794
                          425.336
                                     6.255
unit R461
             2660.6283
                                              0.000
                                                        1826.880 3494.377
                                              0.776
                                                       -918.601 1231.370
unit R462
              156.3849
                         548.402
                                     0.285
                                                        688.777 2302.363
unit R463
             1495.5701
                          411.584
                                     3.634
                                              0.000
                                     -3.223
unit R464
             -1531.1817
                          475.097
                                               0.001
                                                       -2462.473 -599.890
                         496.417
                                    -1.798
unit R468
             -892.5093
                                              0.072
                                                       -1865.592
                                                                   80.573
             -1371.7545
                          496.482
                                     -2.763
unit R469
                                               0.006
                                                       -2344.964 -398.545
                          323.319
unit R535
             -1005.8235
                                     -3.111
                                               0.002
                                                       -1639.597 -372.050
                          351.355
                                                       -1692.743 -315.280
unit R536
             -1004.0111
                                     -2.858
                                               0.004
unit_R540
                           93.125
                                    -14.119
                                               0.000
                                                       -1497.341 -1132.251
             -1314.7963
                                                       -1577.423 -1258.439
             -1417.9310
                           81.364
                                    -17.427
                                               0.000
unit_R541
                                     -9.369
                                                       -1794.819 -1173.712
             -1484.2656
                          158.428
                                               0.000
unit_R542
             -1495.2424
                           96.572
                                    -15.483
                                               0.000
unit_R543
                                                       -1684.545 -1305.940
             -1535.2830
                          134.343
                                    -11.428
                                               0.000
                                                       -1798.624 -1271.942
unit_R544
unit_R545
             -1492.0257
                          134.371
                                    -11.104
                                               0.000
                                                        -1755.421 -1228.630
                          144.179
                                                       -1691.431 -1126.188
                                     -9.771
unit_R546
             -1408.8097
                                               0.000
             -1395.2567
                                     -7.042
                                               0.000
                                                       -1783.647 -1006.866
unit_R547
                          198.137
             -1419.4080
                          227.312
                                     -6.244
unit_R548
                                               0.000
                                                       -1864.988 -973.828
unit_R549
             -1547.2362
                           59.490
                                    -26.009
                                               0.000
                                                       -1663.848 -1430.624
                           75.202
                                    -20.478
unit_R550
             -1539.9940
                                               0.000
                                                       -1687.405 -1392.583
                                    -12.977
unit_R551
             -1464.0866
                          112.821
                                               0.000
                                                       -1685.239 -1242.934
             -1435.5675
                          108.553
unit_R552
                                    -13
225
       0.000
               -1648.354 -1222.781
```

```
day_0
           -610.5771
                      1119.012
                                  -0.546
                                            0.585
                                                    -2804.079 1582.925
day_1
           -190.5324
                      1143.041
                                  -0.167
                                            0.868
                                                    -2431.136 2050.071
day_2
            -89.0160
                      1127.591
                                  -0.079
                                           0.937
                                                    -2299.334 2121.302
day_3
            -24.7867
                      1117.621
                                  -0.022
                                           0.982
                                                   -2215.562 2165.989
day 4
            -23.5253
                      1116.289
                                  -0.021
                                           0.983
                                                   -2211.690 2164.640
day 5
            104.6999
                      1105.910
                                   0.095
                                            0.925
                                                    -2063.120 2272.520
day 6
           -424.3319
                      1104.748
                                  -0.384
                                            0.701
                                                    -2589.873 1741.210
peak_off-peak -453.9744
                         3913.289
                                     -0.116
                                               0.908
                                                       -8124.856 7216.907
             -804.0951
                         3913.218
                                     -0.205
                                              0.837
peak peak
                                                      -8474.836 6866.646
```

Section 3. Visualization



This plot shows ridership by when it is raining and when it is not. As expected, fewer people exit the stations when it's raining as opposed to when it is not. Exits both when it is raining and when it is not does have the same almost normal distribution shape which seems to imply that exits follow a similar pattern though different in the actual number of people.



This is a bar plot of stations with over 2,200 entries overall at 10PM throughout the month. The entries is scaled to the 100 thousands meaning R293 has over 250thousand entries overall at 10pm throughout the time period of the dataset. These are the 7 station with the highest number of entries.

Section 4

More people ride the subway when it is raining as opposed to when it is not, this is confirmed both visually using ggplot as well as by a breakdown of the summary

some\$rain: Not rainy			
Min. 1st Qu. Median	Mean 3rd Qu.	Max.	
0 38 278	1090 1111	43200	
some\$rain: Rainy			
Min. 1st Qu. Median	Mean 3rd Qu.	Max.	
0 41 282	1105 1103	51840	

Using just the rain variable produces a R^2 of 0.000103179765343, this is a positive although very weak correlation. However, the MannWhitneyU test confirms that there is a statistically significant difference between the population

means.

Section 5

Since the dataset only spanned a period of a month, whatever deductions or insights gained might not be apply in general, if the one month is considered a sample, then there are multiple sampling biases that can be attributed to it and as a result, some mean observations could possibly be either under or over exaggerated. For example, if this data represents a time with very low precipitation, it is possible that other times of the year with high or very precipitation would indeed drive volume of ridership. The linear model did not seem to fit the data and wasn't very good at predicting ridership, R^2 only seemed to go up when EXITSn_hourly is added to the features but the exits is dependent on entries and as such should not be included.

Reflection

The weather it seems is not a particularly strong predictor of ridership, upon reflection, this somewhat makes sense as most people who generally take the train always planned to, and there are other options for people who don't want to be in the rain namely, waiting it out, taking the bus or staying at home. It is possible that more extreme precipitation at possibly different times of the year could force more people to plan to take the subway, the dataset is based around May

which is generally spring time.

List of Websites used

http://docs.ggplot2.org/0.9.3.1/geom point.html

http://docs.scipy.org/doc/numpy/reference/generated/numpy.polyfit.html

http://en.wikipedia.org/wiki/Ordinary_least_squares

http://statsmodels.sourceforge.net/devel/

 $http://docs.ggplot2.org/0.9.3.1/geom_freqpoly.html$

http://web.mta.info/lirr/about/TicketInfo/#Types