```
                                                                  ___  ____  ____  ____  ____(R)
                                                                 /__    /   ____/   /   ____/
                                                                ___/   /   /___/   /   /___/
                                                                  Statistics/Data Analysis

   opened on:  29 Mar 2010, 09:45:16
        name:  <unnamed>
         log:  \\nera-nycfs\work\projects\energy\NYISO DEMAND CURVE UPDATE (R782)
> \Stata Files\basemod.smcl
    log type:  smcl
   opened on:  29 Mar 2010, 09:45:16

 1 . use da

 2 . encode zone_name,gen(zone)

 3 . tab zone,sum(zone) nost nof noo

             | Summary of
             |  zone name
   zone name |       Mean
-------------+-----------
      CAPITL |          1
      CENTRL |          2
      DUNWOD |          3
      GENESE |          4
      HUD VL |          5
      LONGIL |          6
      MHK VL |          7
      MILLWD |          8
      N.Y.C. |          9
       NORTH |         10
        WEST |         11
-------------+-----------
       Total |          6

 4 . g region=2*(zone==6)+1*((zone==3)|(zone==3)|(zone==8))

 5 . sort region y m

 6 . merge m:1 region y m using reserve
   y was int now float
   m was byte now float

    Result                           # of obs.
    -----------------------------------------
    not matched                             48
        from master                          0  (_merge==1)
        from using                          48  (_merge==2)

    matched                            289,377  (_merge==3)
    -----------------------------------------

 7 . drop if _merge==2
   (48 observations deleted)

 8 . egen aggload=sum(load),by(y m d h)

 9 . g aggload2=aggload*aggload/10000

10 . g aggload3=aggload2*aggload/10000
```

```
11 . drop _merge

12 . merge m:1 y m d using weathernyc

    Result                           # of obs.
    -----------------------------------------
    not matched                         1,382
        from master                     1,320  (_merge==1)
        from using                         62  (_merge==2)

    matched                           288,057  (_merge==3)
    -----------------------------------------

13 . drop _merge

14 . g float tmin=real(subinstr(min,"*","",.))
   (1320 missing values generated)

15 . g float tmax=real(subinstr(max,"*","",.))
   (1320 missing values generated)

16 . merge m:1 y m d using gaspriceinterp
   d was byte now float

    Result                           # of obs.
    -----------------------------------------
    not matched                             1
        from master                         1  (_merge==1)
        from using                          0  (_merge==2)

    matched                           289,438  (_merge==3)
    -----------------------------------------

17 . g dow=dow(mdy(m,d,y))

18 . g gastrans = .402

19 . replace gastrans = .253 if region==2  /* Long Island */
   (26307 real changes made)

20 . replace gastrans = .202 if region==1  /* NYC  */
   (52614 real changes made)

21 . g lgasp=ln(transcoi+gastrans)
   (1 missing value generated)

22 . set matsize 1000

   Current memory allocation

                      current                                 memory usage
    settable          value     description                   (1M = 1024k)
    ------------------------------------------------------------------------
    set maxvar         5000     max. variables allowed            1.909M
    set memory          100M    max. data space                 100.000M
    set matsize        1000     max. RHS vars in models           7.713M
                                                                ----------
                                                                  109.622M
```

```
23 . drop if load==0
   (44 observations deleted)

24 . anova lbmp c.load#zone c.aggload#c.load#zone c.aggload#region c.aggload2#regi
   > on c.aggload3#region c.lgasp#m#h c.rm#m#region h#m dow zone c.tmin c.tmax c.a
   > vgtemp
```

Number of obs =	288002	R-squared =	0.8489
Root MSE =	11.8217	Adj R-squared =	0.8485

Source	Partial SS	df	MS	F	Prob > F
Model	225556233	661	341234.845	2441.71	0.0000
zone#load	399770.392	11	36342.7629	260.05	0.0000
zone#aggload#load	611869.087	11	55624.4624	398.02	0.0000
region#aggload	301943.01	3	100647.67	720.19	0.0000
region#aggload2	248028.206	3	82676.0688	591.59	0.0000
region#aggload3	277181.038	3	92393.6792	661.12	0.0000
m#h#lgasp	57566184.7	288	199882.586	1430.26	0.0000
m#region#rm	5293344.07	36	147037.335	1052.13	0.0000
h#m	6697860.46	287	23337.4929	166.99	0.0000
dow	88897.2257	6	14816.2043	106.02	0.0000
zone	211755.865	10	21175.5865	151.52	0.0000
tmin	116143.978	1	116143.978	831.07	0.0000
tmax	1659.38701	1	1659.38701	11.87	0.0006
avgtemp	5152.61847	1	5152.61847	36.87	0.0000
Residual	40156460.4287340		139.75242		
Total	265712693288001		922.610314		

```
25 . regress
```

Source	SS	df	MS		
Model	225556233	661	341234.845	Number of obs =	288002
Residual	40156460.4287340		139.75242	F(661,287340) =	2441.71
Total	265712693288001		922.610314	Prob > F =	0.0000
				R-squared =	0.8489
				Adj R-squared =	0.8485
				Root MSE =	11.822

lbmp	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
zone#c.load						
1	.0072906	.001846	3.95	0.000	.0036726	.0109087
2	-.0266848	.0012786	-20.87	0.000	-.0291907	-.0241788
3	-.0616841	.0055032	-11.21	0.000	-.0724703	-.0508979
4	-.0293693	.0021952	-13.38	0.000	-.0336719	-.0250667
5	-.057713	.0023484	-24.58	0.000	-.0623158	-.0531103
6	.0667318	.0032465	20.55	0.000	.0603687	.0730949
7	-.0388994	.0023547	-16.52	0.000	-.0435146	-.0342842
8	-.117352	.0101789	-11.53	0.000	-.1373023	-.0974016
9	-.0102114	.0003983	-25.63	0.000	-.0109921	-.0094306
10	-.0793708	.0023148	-34.29	0.000	-.0839077	-.0748338
11	-.0366308	.0013792	-26.56	0.000	-.0393339	-.0339276
zone# c.aggload# c.load						
1	1.05e-06	6.60e-08	15.83	0.000	9.16e-07	1.17e-06
2	1.51e-06	4.71e-08	32.13	0.000	1.42e-06	1.60e-06
3	3.15e-06	2.44e-07	12.91	0.000	2.67e-06	3.62e-06
4	2.07e-06	7.81e-08	26.56	0.000	1.92e-06	2.23e-06
5	3.37e-06	7.64e-08	44.08	0.000	3.22e-06	3.52e-06
6	-2.44e-06	1.48e-07	-16.41	0.000	-2.73e-06	-2.14e-06
7	2.91e-06	9.54e-08	30.50	0.000	2.72e-06	3.10e-06
8	6.41e-06	5.08e-07	12.61	0.000	5.41e-06	7.40e-06
9	7.23e-07	1.39e-08	52.01	0.000	6.96e-07	7.50e-07

10	4.20e-06	1.12e-07	37.38	0.000	3.98e-06	4.42e-06
11	1.70e-06	5.00e-08	33.91	0.000	1.60e-06	1.79e-06
region# c.aggload						
0	.0149966	.0005293	28.33	0.000	.0139593	.016034
1	.036437	.0009031	40.35	0.000	.034667	.038207
2	.0230661	.0012398	18.61	0.000	.0206361	.025496
region# c.aggload2						
0	-.005613	.0002557	-21.95	0.000	-.0061142	-.0051118
1	-.016324	.0004397	-37.13	0.000	-.0171858	-.0154623
2	-.0109508	.000597	-18.34	0.000	-.012121	-.0097806
region# c.aggload3						
0	.0006102	.0000396	15.40	0.000	.0005325	.0006879
1	.0026173	.0000693	37.75	0.000	.0024814	.0027532
2	.002546	.0000996	25.55	0.000	.0023507	.0027413
m#h#c.lgasp						
1 0	13.22027	1.041168	12.70	0.000	11.17961	15.26093
1 1	11.84012	1.041268	11.37	0.000	9.799267	13.88098
1 2	10.79973	1.041343	10.37	0.000	8.758726	12.84073
1 3	9.919823	1.041395	9.53	0.000	7.878717	11.96093
1 4	11.05673	1.041412	10.62	0.000	9.01559	13.09787
1 5	13.08579	1.041288	12.57	0.000	11.04489	15.12668
1 6	16.1099	1.041146	15.47	0.000	14.06929	18.15052
1 7	21.42205	1.041116	20.58	0.000	19.3815	23.46261
1 8	23.0628	1.041129	22.15	0.000	21.02222	25.10339
1 9	23.12769	1.041143	22.21	0.000	21.08708	25.1683
1 10	23.34025	1.041149	22.42	0.000	21.29962	25.38087
1 11	20.58084	1.041161	19.77	0.000	18.54019	22.62149
1 12	18.60669	1.041166	17.87	0.000	16.56604	20.64735
1 13	17.53787	1.041177	16.84	0.000	15.49719	19.57855
1 14	16.27183	1.041183	15.63	0.000	14.23114	18.31252
1 15	19.00873	1.041206	18.26	0.000	16.96799	21.04946
1 16	25.45339	1.041209	24.45	0.000	23.41265	27.49413
1 17	34.83559	1.041271	33.45	0.000	32.79473	36.87645
1 18	35.35913	1.041321	33.96	0.000	33.31817	37.40009
1 19	31.07573	1.041334	29.84	0.000	29.03474	33.11671
1 20	28.7877	1.041333	27.65	0.000	26.74671	30.82868
1 21	21.75371	1.04133	20.89	0.000	19.71273	23.79468
1 22	15.6706	1.041316	15.05	0.000	13.62965	17.71155
1 23	12.3467	1.041354	11.86	0.000	10.30567	14.38772
2 0	1.987242	.9781029	2.03	0.042	.0701873	3.904296
2 1	1.724499	.9781746	1.76	0.078	-.1926958	3.641694
2 2	.8674964	.9782458	0.89	0.375	-1.049838	2.784831
2 3	.1305873	.9782784	0.13	0.894	-1.786811	2.047986
2 4	.229533	.9782608	0.23	0.814	-1.687831	2.146897
2 5	3.149485	.9781442	3.22	0.001	1.23235	5.066621
2 6	9.024341	.9781074	9.23	0.000	7.107278	10.9414
2 7	15.21994	.978149	15.56	0.000	13.30279	17.13708
2 8	18.12184	.9781877	18.53	0.000	16.20462	20.03907
2 9	16.38715	.9782665	16.75	0.000	14.46977	18.30452
2 10	16.74509	.9783145	17.12	0.000	14.82762	18.66256
2 11	13.93499	.978325	14.24	0.000	12.01751	15.85248
2 12	12.29058	.9783377	12.56	0.000	10.37306	14.20809
2 13	10.17281	.9783369	10.40	0.000	8.2553	12.09033
2 14	8.920737	.9783458	9.12	0.000	7.003207	10.83827
2 15	10.91333	.9783687	11.15	0.000	8.995758	12.83091
2 16	15.45083	.9784505	15.79	0.000	13.5331	17.36857
2 17	26.38937	.9786151	26.97	0.000	24.47131	28.30743
2 18	26.07772	.9786193	26.65	0.000	24.15965	27.99578
2 19	25.48531	.9785746	26.04	0.000	23.56733	27.40329
2 20	20.47569	.9785199	20.93	0.000	18.55782	22.39357
2 21	12.691	.9784559	12.97	0.000	10.77325	14.60874
2 22	10.31585	.9783576	10.54	0.000	8.398296	12.2334

2	23	6.401768	.9782964	6.54	0.000	4.484335	8.319202
3	0	24.14047	1.040796	23.19	0.000	22.10054	26.1804
3	1	21.98105	1.041099	21.11	0.000	19.94052	24.02157
3	2	18.71445	1.058212	17.68	0.000	16.64039	20.78852
3	3	19.35011	1.041444	18.58	0.000	17.30891	21.39131
3	4	18.77266	1.041366	18.03	0.000	16.73161	20.81371
3	5	24.53133	1.040906	23.57	0.000	22.49118	26.57147
3	6	27.87768	1.040348	26.80	0.000	25.83863	29.91673
3	7	35.042	1.040217	33.69	0.000	33.00321	37.0808
3	8	39.00593	1.040253	37.50	0.000	36.96706	41.04479
3	9	37.22909	1.040307	35.79	0.000	35.19012	39.26807
3	10	39.12403	1.040335	37.61	0.000	37.085	41.16305
3	11	37.00579	1.040347	35.57	0.000	34.96674	39.04484
3	12	33.56063	1.04035	32.26	0.000	31.52157	35.59968
3	13	30.1138	1.040361	28.95	0.000	28.07472	32.15288
3	14	27.38671	1.040376	26.32	0.000	25.3476	29.42582
3	15	26.37591	1.040404	25.35	0.000	24.33674	28.41507
3	16	28.79256	1.040473	27.67	0.000	26.75326	30.83186
3	17	38.17373	1.040621	36.68	0.000	36.13414	40.21332
3	18	44.51016	1.040929	42.76	0.000	42.46997	46.55036
3	19	43.00073	1.040715	41.32	0.000	40.96096	45.0405
3	20	41.99184	1.04056	40.36	0.000	39.95237	44.03131
3	21	33.15889	1.04051	31.87	0.000	31.11952	35.19826
3	22	28.05185	1.040487	26.96	0.000	26.01253	30.09118
3	23	24.53438	1.040654	23.58	0.000	22.49473	26.57404
4	0	36.62469	.9466973	38.69	0.000	34.76919	38.48019
4	1	35.92966	.9467654	37.95	0.000	34.07402	37.78529
4	2	33.42487	.9468053	35.30	0.000	31.56916	35.28058
4	3	31.56791	.946822	33.34	0.000	29.71216	33.42365
4	4	32.69852	.9468187	34.54	0.000	30.84278	34.55425
4	5	36.91556	.9467437	38.99	0.000	35.05997	38.77115
4	6	43.22222	.9466459	45.66	0.000	41.36682	45.07762
4	7	49.56847	.9465941	52.37	0.000	47.71317	51.42377
4	8	54.99757	.946583	58.10	0.000	53.14229	56.85285
4	9	60.08985	.9465823	63.48	0.000	58.23457	61.94512
4	10	59.43502	.9465836	62.79	0.000	57.57975	61.2903
4	11	60.2537	.9465805	63.65	0.000	58.39842	62.10897
4	12	59.41512	.9465708	62.77	0.000	57.55986	61.27037
4	13	57.44272	.9465782	60.68	0.000	55.58745	59.29799
4	14	55.09486	.9465928	58.20	0.000	53.23957	56.95016
4	15	54.61198	.9465902	57.69	0.000	52.75669	56.46727
4	16	54.41275	.9465888	57.48	0.000	52.55746	56.26803
4	17	53.74077	.9465918	56.77	0.000	51.88548	55.59607
4	18	53.85546	.9466002	56.89	0.000	52.00015	55.71077
4	19	55.73091	.9466081	58.87	0.000	53.87558	57.58623
4	20	62.95986	.946614	66.51	0.000	61.10453	64.8152
4	21	54.67108	.946594	57.76	0.000	52.81578	56.52638
4	22	43.35567	.9466098	45.80	0.000	41.50035	45.211
4	23	37.28114	.9466429	39.38	0.000	35.42575	39.13653
5	0	28.7435	.9071267	31.69	0.000	26.96556	30.52145
5	1	29.04926	.9072548	32.02	0.000	27.27107	30.82746
5	2	27.03038	.9073722	29.79	0.000	25.25196	28.80881
5	3	26.12867	.9074721	28.79	0.000	24.35005	27.90729
5	4	27.49204	.9074935	30.29	0.000	25.71338	29.27071
5	5	29.57356	.9073641	32.59	0.000	27.79515	31.35197
5	6	37.49097	.9071801	41.33	0.000	35.71293	39.26902
5	7	41.36348	.9069939	45.61	0.000	39.5858	43.14117
5	8	47.53781	.9069277	52.42	0.000	45.76026	49.31537
5	9	51.97988	.9069065	57.32	0.000	50.20237	53.7574
5	10	53.79758	.9068984	59.32	0.000	52.02008	55.57508
5	11	56.55455	.9068932	62.36	0.000	54.77706	58.33204
5	12	54.97409	.9068871	60.62	0.000	53.19661	56.75156
5	13	54.44967	.9068931	60.04	0.000	52.67218	56.22715
5	14	53.08712	.9069	58.54	0.000	51.30962	54.86462
5	15	53.45778	.9068907	58.95	0.000	51.6803	55.23527
5	16	53.74977	.90689	59.27	0.000	51.97229	55.52725
5	17	52.49294	.9068948	57.88	0.000	50.71545	54.27043
5	18	48.85594	.9068986	53.87	0.000	47.07844	50.63343
5	19	49.51633	.906902	54.60	0.000	47.73882	51.29383

5	20	57.94398	.9069089	63.89	0.000	56.16646	59.72149
5	21	50.66692	.9069224	55.87	0.000	48.88938	52.44447
5	22	41.07938	.9069681	45.29	0.000	39.30174	42.85701
5	23	36.53599	.907073	40.28	0.000	34.75815	38.31383
6	0	35.57305	.8098822	43.92	0.000	33.9857	37.16039
6	1	32.01943	.8110616	39.48	0.000	30.42977	33.60908
6	2	30.33381	.8120849	37.35	0.000	28.74215	31.92548
6	3	28.32042	.8126256	34.85	0.000	26.72769	29.91314
6	4	27.81912	.8123585	34.24	0.000	26.22692	29.41132
6	5	30.4836	.810979	37.59	0.000	28.89411	32.0731
6	6	33.48602	.8089663	41.39	0.000	31.90047	35.07157
6	7	42.51566	.8079324	52.62	0.000	40.93214	44.09919
6	8	49.00459	.80777	60.67	0.000	47.42139	50.5878
6	9	53.36955	.8078595	66.06	0.000	51.78616	54.95293
6	10	57.12859	.8079919	70.70	0.000	55.54494	58.71223
6	11	62.18169	.8081417	76.94	0.000	60.59776	63.76563
6	12	65.52874	.8082573	81.07	0.000	63.94458	67.1129
6	13	68.35385	.80843	84.55	0.000	66.76935	69.93835
6	14	71.34303	.8085835	88.23	0.000	69.75823	72.92784
6	15	70.34889	.8087097	86.99	0.000	68.76385	71.93394
6	16	76.86107	.8088296	95.03	0.000	75.27579	78.44635
6	17	70.86088	.808749	87.62	0.000	69.27575	72.446
6	18	60.38382	.8086214	74.68	0.000	58.79895	61.9687
6	19	56.55638	.8084882	69.95	0.000	54.97176	58.14099
6	20	57.40372	.8084186	71.01	0.000	55.81924	58.98819
6	21	52.51422	.8085376	64.95	0.000	50.92951	54.09893
6	22	45.90309	.8086014	56.77	0.000	44.31826	47.48793
6	23	42.41086	.8088806	52.43	0.000	40.82548	43.99624
7	0	41.9022	.7941669	52.76	0.000	40.34566	43.45875
7	1	39.80007	.7946503	50.09	0.000	38.24258	41.35757
7	2	36.7925	.7952499	46.27	0.000	35.23383	38.35117
7	3	36.26646	.7957082	45.58	0.000	34.7069	37.82603
7	4	36.51339	.7956619	45.89	0.000	34.95392	38.07287
7	5	37.57208	.7950057	47.26	0.000	36.01389	39.13027
7	6	38.49033	.7939746	48.48	0.000	36.93416	40.0465
7	7	41.10873	.7934036	51.81	0.000	39.55368	42.66378
7	8	47.95479	.7933218	60.45	0.000	46.3999	49.50967
7	9	52.04651	.7934231	65.60	0.000	50.49142	53.6016
7	10	59.23894	.7936178	74.64	0.000	57.68347	60.79441
7	11	63.86125	.7939682	80.43	0.000	62.30509	65.4174
7	12	68.48822	.7944011	86.21	0.000	66.93122	70.04523
7	13	72.92161	.7949219	91.73	0.000	71.36359	74.47964
7	14	75.6851	.7954033	95.15	0.000	74.12613	77.24407
7	15	79.29888	.7958389	99.64	0.000	77.73906	80.8587
7	16	81.65728	.7960212	102.58	0.000	80.0971	83.21746
7	17	73.09405	.7956367	91.87	0.000	71.53462	74.65348
7	18	64.27507	.7948875	80.86	0.000	62.71711	65.83302
7	19	58.33566	.7944679	73.43	0.000	56.77852	59.89279
7	20	58.27791	.7942492	73.37	0.000	56.7212	59.83461
7	21	56.42424	.7942478	71.04	0.000	54.86753	57.98094
7	22	47.28468	.7942094	59.54	0.000	45.72805	48.84131
7	23	46.58616	.7941109	58.66	0.000	45.02972	48.14259
8	0	41.08364	.9707106	42.32	0.000	39.18107	42.98621
8	1	35.92787	.9707807	37.01	0.000	34.02517	37.83057
8	2	34.26244	.9708235	35.29	0.000	32.35966	36.16523
8	3	34.27809	.9708433	35.31	0.000	32.37527	36.18092
8	4	34.25674	.9708372	35.29	0.000	32.35392	36.15955
8	5	34.49678	.9708013	35.53	0.000	32.59403	36.39952
8	6	39.45788	.9707088	40.65	0.000	37.55531	41.36044
8	7	37.4743	.9706367	38.61	0.000	35.57188	39.37672
8	8	43.15883	.9706016	44.47	0.000	41.25647	45.06118
8	9	46.28184	.970621	47.68	0.000	44.37945	48.18423
8	10	51.46132	.9707003	53.01	0.000	49.55877	53.36387
8	11	54.26892	.9708304	55.90	0.000	52.36612	56.17173
8	12	57.29505	.971004	59.01	0.000	55.39191	59.19819
8	13	60.68032	.9711208	62.48	0.000	58.77695	62.58369
8	14	61.11728	.9711961	62.93	0.000	59.21376	63.0208
8	15	63.32286	.9712193	65.20	0.000	61.4193	65.22643
8	16	63.5208	.971113	65.41	0.000	61.61745	65.42416

8	17	62.52583	.9709768	64.39	0.000	60.62274	64.42892
8	18	57.77965	.9708396	59.52	0.000	55.87683	59.68247
8	19	53.68457	.9708292	55.30	0.000	51.78177	55.58737
8	20	53.43598	.970868	55.04	0.000	51.5331	55.33885
8	21	51.44409	.9707687	52.99	0.000	49.54141	53.34677
8	22	42.7231	.9706916	44.01	0.000	40.82058	44.62563
8	23	42.60284	.9706766	43.89	0.000	40.70034	44.50534
9	0	34.38228	.9773017	35.18	0.000	32.4668	36.29777
9	1	27.57217	.9778616	28.20	0.000	25.65559	29.48875
9	2	26.87135	.9783586	27.47	0.000	24.95379	28.7889
9	3	27.10262	.9786233	27.69	0.000	25.18455	29.0207
9	4	26.02609	.978602	26.60	0.000	24.10806	27.94412
9	5	27.58787	.9780946	28.21	0.000	25.67083	29.5049
9	6	37.52727	.977265	38.40	0.000	35.61186	39.44268
9	7	34.44499	.9768171	35.26	0.000	32.53045	36.35952
9	8	39.35201	.9766269	40.29	0.000	37.43785	41.26617
9	9	41.21094	.976612	42.20	0.000	39.29681	43.12508
9	10	42.33712	.9766443	43.35	0.000	40.42293	44.25132
9	11	43.72328	.9766539	44.77	0.000	41.80907	45.6375
9	12	44.08638	.9766555	45.14	0.000	42.17216	46.0006
9	13	45.80849	.9766681	46.90	0.000	43.89425	47.72273
9	14	46.87036	.9766899	47.99	0.000	44.95608	48.78465
9	15	48.55506	.9767221	49.71	0.000	46.64071	50.46941
9	16	49.12198	.9767508	50.29	0.000	47.20757	51.03638
9	17	47.90191	.9767495	49.04	0.000	45.98751	49.81631
9	18	43.48236	.9767911	44.52	0.000	41.56787	45.39684
9	19	44.5126	.976878	45.57	0.000	42.59795	46.42726
9	20	45.99711	.9767753	47.09	0.000	44.08265	47.91156
9	21	40.03065	.9767401	40.98	0.000	38.11627	41.94504
9	22	35.00328	.9767146	35.84	0.000	33.08895	36.91762
9	23	35.45047	.9768355	36.29	0.000	33.5359	37.36504
10	0	31.53594	1.498089	21.05	0.000	28.59973	34.47215
10	1	22.32929	1.49881	14.90	0.000	19.39167	25.26692
10	2	15.59026	1.499363	10.40	0.000	12.65155	18.52897
10	3	15.89786	1.499616	10.60	0.000	12.95866	18.83707
10	4	17.02705	1.499514	11.36	0.000	14.08805	19.96606
10	5	24.56766	1.498936	16.39	0.000	21.62978	27.50553
10	6	42.09663	1.497796	28.11	0.000	39.161	45.03227
10	7	40.35172	1.49731	26.95	0.000	37.41704	43.28641
10	8	42.22213	1.497126	28.20	0.000	39.2878	45.15645
10	9	42.62817	1.497115	28.47	0.000	39.69386	45.56247
10	10	43.30878	1.497154	28.93	0.000	40.3744	46.24316
10	11	44.66591	1.497188	29.83	0.000	41.73146	47.60035
10	12	45.67537	1.497218	30.51	0.000	42.74086	48.60988
10	13	49.42433	1.497261	33.01	0.000	46.48974	52.35892
10	14	47.06939	1.497286	31.44	0.000	44.13475	50.00403
10	15	48.4166	1.497301	32.34	0.000	45.48193	51.35127
10	16	49.27463	1.497286	32.91	0.000	46.33999	52.20926
10	17	47.14613	1.497232	31.49	0.000	44.2116	50.08067
10	18	45.54716	1.497281	30.42	0.000	42.61253	48.48179
10	19	52.45886	1.497264	35.04	0.000	49.52426	55.39345
10	20	46.46089	1.497185	31.03	0.000	43.52645	49.39533
10	21	42.14727	1.497107	28.15	0.000	39.21298	45.08156
10	22	36.18564	1.497165	24.17	0.000	33.25124	39.12004
10	23	34.02243	1.502159	22.65	0.000	31.07824	36.96662
11	0	-43.00266	6.248072	-6.88	0.000	-55.24871	-30.75662
11	1	5.708814	6.09833	0.94	0.349	-6.243743	17.66137
11	2	-43.97182	6.250239	-7.04	0.000	-56.22212	-31.72153
11	3	-44.20777	6.250836	-7.07	0.000	-56.45923	-31.9563
11	4	-44.80416	6.25075	-7.17	0.000	-57.05545	-32.55286
11	5	-46.87495	6.250165	-7.50	0.000	-59.12511	-34.6248
11	6	-41.37098	6.249562	-6.62	0.000	-53.61995	-29.12201
11	7	-8.922365	6.248411	-1.43	0.153	-21.16908	3.324347
11	8	-8.943505	6.247729	-1.43	0.152	-21.18888	3.30187
11	9	-9.366336	6.247521	-1.50	0.134	-21.6113	2.878632
11	10	-10.4767	6.247481	-1.68	0.094	-22.72159	1.768193
11	11	-5.526846	6.247421	-0.88	0.376	-17.77162	6.717925
11	12	-7.880717	6.247367	-1.26	0.207	-20.12538	4.36395
11	13	-5.943249	6.247443	-0.95	0.341	-18.18806	6.301565

11 14	-1.35748	6.247526	-0.22	0.828	-13.60246	10.8875
11 15	6.075343	6.247628	0.97	0.331	-6.169835	18.32052
11 16	16.05203	6.248624	2.57	0.010	3.804905	28.29916
11 17	42.18206	6.249907	6.75	0.000	29.93241	54.4317
11 18	30.9484	6.249326	4.95	0.000	18.6999	43.19691
11 19	8.067088	6.248985	1.29	0.197	-4.180749	20.31492
11 20	-2.458345	6.248604	-0.39	0.694	-14.70543	9.788744
11 21	-10.30692	6.24814	-1.65	0.099	-22.5531	1.939264
11 22	-21.97844	6.247919	-3.52	0.000	-34.22419	-9.732696
11 23	-27.27862	6.248334	-4.37	0.000	-39.52518	-15.03206
12 0	23.79106	1.086522	21.90	0.000	21.6615	25.92061
12 1	22.12178	1.086787	20.36	0.000	19.99171	24.25185
12 2	18.48571	1.087036	17.01	0.000	16.35514	20.61627
12 3	18.52789	1.087167	17.04	0.000	16.39707	20.6587
12 4	18.03463	1.087143	16.59	0.000	15.90386	20.1654
12 5	24.77038	1.086813	22.79	0.000	22.64026	26.9005
12 6	22.40849	1.086474	20.62	0.000	20.27903	24.53795
12 7	27.32353	1.08632	25.15	0.000	25.19438	29.45269
12 8	31.42855	1.086279	28.93	0.000	29.29947	33.55763
12 9	34.17581	1.086285	31.46	0.000	32.04672	36.3049
12 10	34.65427	1.086293	31.90	0.000	32.52516	36.78337
12 11	32.92495	1.086316	30.31	0.000	30.7958	35.0541
12 12	32.89076	1.086345	30.28	0.000	30.76155	35.01996
12 13	32.51876	1.086372	29.93	0.000	30.3895	34.64802
12 14	29.13999	1.086399	26.82	0.000	27.01067	31.2693
12 15	33.12439	1.086443	30.49	0.000	30.99499	35.25379
12 16	39.72523	1.0865	36.56	0.000	37.59572	41.85474
12 17	47.42773	1.086513	43.65	0.000	45.29819	49.55726
12 18	48.13606	1.086517	44.30	0.000	46.00652	50.26561
12 19	44.81862	1.086506	41.25	0.000	42.6891	46.94814
12 20	40.72347	1.086444	37.48	0.000	38.59407	42.85287
12 21	33.23736	1.086373	30.59	0.000	31.1081	35.36662
12 22	27.57525	1.086366	25.38	0.000	25.446	29.70449
12 23	23.66934	1.086468	21.79	0.000	21.53989	25.79879

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1 0	-311.0639	6.816747	-45.63	0.000	-324.4245	-297.7032
1 1	-222.6387	5.249853	-42.41	0.000	-232.9282	-212.3491
1 2	-321.2781	5.793588	-55.45	0.000	-332.6334	-309.9228
2 0	-519.5441	6.527158	-79.60	0.000	-532.3371	-506.7511
2 1	-425.1705	5.257204	-80.87	0.000	-435.4744	-414.8665
2 2	-516.401	5.554947	-92.96	0.000	-527.2886	-505.5135
3 0	-237.6555	6.551866	-36.27	0.000	-250.497	-224.814
3 1	-156.1908	5.069732	-30.81	0.000	-166.1273	-146.2543
3 2	-260.4045	5.464922	-47.65	0.000	-271.1156	-249.6934
4 0	37.21614	6.505916	5.72	0.000	24.46472	49.96755
4 1	111.7473	4.962702	22.52	0.000	102.0205	121.474
4 2	5.215612	5.343511	0.98	0.329	-5.25752	15.68874
5 0	125.766	5.763537	21.82	0.000	114.4696	137.0624
5 1	209.5921	4.626145	45.31	0.000	200.525	218.6592
5 2	99.37295	5.117095	19.42	0.000	89.34358	109.4023
6 0	308.8083	6.830197	45.21	0.000	295.4213	322.1953
6 1	390.0956	5.461026	71.43	0.000	379.3922	400.7991
6 2	267.5204	5.927873	45.13	0.000	255.9019	279.1388
7 0	339.8148	6.794063	50.02	0.000	326.4986	353.131
7 1	415.4222	5.504239	75.47	0.000	404.6341	426.2104
7 2	285.3738	5.896416	48.40	0.000	273.817	296.9306
8 0	1.433667	5.972057	0.24	0.810	-10.2714	13.13873
8 1	72.40071	4.888763	14.81	0.000	62.81887	81.98255
8 2	-46.83167	5.088579	-9.20	0.000	-56.80515	-36.8582
9 0	54.6982	5.877288	9.31	0.000	43.17888	66.21753
9 1	127.152	4.719756	26.94	0.000	117.9014	136.4025
9 2	10.55561	4.986974	2.12	0.034	.7812776	20.32994
10 0	-114.6529	5.687822	-20.16	0.000	-125.8009	-103.5049
10 1	-41.96242	4.623935	-9.08	0.000	-51.0252	-32.89963
10 2	-145.3896	4.916251	-29.57	0.000	-155.0254	-135.7539
11 0	-195.5189	7.10013	-27.54	0.000	-209.4349	-181.6028
11 1	-121.9391	6.048112	-20.16	0.000	-133.7932	-110.0849

11	2	-224.1681	6.071149	-36.92	0.000	-236.0674	-212.2688
12	0	-237.334	5.935902	-39.98	0.000	-248.9682	-225.6998
12	1	-157.8259	4.826956	-32.70	0.000	-167.2866	-148.3652
12	2	-256.4939	5.051373	-50.78	0.000	-266.3944	-246.5933

h#m							
0	2	254.0914	9.139237	27.80	0.000	236.1787	272.004
0	3	-87.96468	8.991149	-9.78	0.000	-105.5871	-70.34227
0	4	-413.0015	8.909335	-46.36	0.000	-430.4636	-395.5395
0	5	-494.2756	8.244769	-59.95	0.000	-510.4351	-478.1161
0	6	-698.6101	8.710066	-80.21	0.000	-715.6816	-681.5386
0	7	-741.9353	8.691324	-85.37	0.000	-758.9701	-724.9006
0	8	-379.1994	8.414304	-45.07	0.000	-395.6912	-362.7076
0	9	-421.3006	8.323502	-50.62	0.000	-437.6145	-404.9868
0	10	-235.2887	8.573685	-27.44	0.000	-252.0929	-218.4845
0	11	7.957311	16.25227	0.49	0.624	-23.89668	39.8113
0	12	-95.19451	8.660283	-10.99	0.000	-112.1684	-78.22059
1	1	2.70756	3.425718	0.79	0.429	-4.006752	9.421873
1	2	255.613	9.138604	27.97	0.000	237.7016	273.5244
1	3	-83.36445	8.990824	-9.27	0.000	-100.9862	-65.74268
1	4	-410.9194	8.908511	-46.13	0.000	-428.3799	-393.459
1	5	-493.7339	8.243683	-59.89	0.000	-509.8913	-477.5765
1	6	-693.7181	8.709197	-79.65	0.000	-710.7879	-676.6483
1	7	-739.2565	8.690129	-85.07	0.000	-756.2889	-722.2241
1	8	-372.053	8.41314	-44.22	0.000	-388.5426	-355.5635
1	9	-411.0959	8.322494	-49.40	0.000	-427.4078	-394.7841
1	10	-219.6046	8.573003	-25.62	0.000	-236.4075	-202.8018
1	11	-96.90985	15.99679	-6.06	0.000	-128.2631	-65.55659
1	12	-93.00693	8.660557	-10.74	0.000	-109.9814	-76.03247
2	1	4.691323	3.425965	1.37	0.171	-2.023474	11.40612
2	2	257.2762	9.138231	28.15	0.000	239.3655	275.1869
2	3	-77.55456	9.000222	-8.62	0.000	-95.19474	-59.91437
2	4	-406.3177	8.907975	-45.61	0.000	-423.7771	-388.8584
2	5	-490.1075	8.243204	-59.46	0.000	-506.2639	-473.951
2	6	-691.2518	8.708942	-79.37	0.000	-708.321	-674.1825
2	7	-734.376	8.689446	-84.51	0.000	-751.4071	-717.3449
2	8	-369.1429	8.41231	-43.88	0.000	-385.6308	-352.655
2	9	-411.1525	8.322071	-49.41	0.000	-427.4635	-394.8414
2	10	-208.5527	8.572979	-24.33	0.000	-225.3555	-191.7499
2	11	8.675035	16.25657	0.53	0.594	-23.1874	40.53747
2	12	-85.79342	8.6607	-9.91	0.000	-102.7681	-68.81869
3	1	6.290347	3.426132	1.84	0.066	-.4247766	13.00547
3	2	259.1953	9.138136	28.36	0.000	241.2848	277.1058
3	3	-78.5969	8.990688	-8.74	0.000	-96.2184	-60.9754
3	4	-402.5729	8.907572	-45.19	0.000	-420.0315	-385.1143
3	5	-488.5078	8.24301	-59.26	0.000	-504.6639	-472.3517
3	6	-688.1738	8.709001	-79.02	0.000	-705.2432	-671.1044
3	7	-733.879	8.689152	-84.46	0.000	-750.9094	-716.8485
3	8	-369.0602	8.411764	-43.87	0.000	-385.547	-352.5733
3	9	-411.2549	8.321958	-49.42	0.000	-427.5657	-394.9441
3	10	-208.5835	8.573076	-24.33	0.000	-225.3865	-191.7805
3	11	9.471285	16.25775	0.58	0.560	-22.39346	41.33603
3	12	-85.63158	8.660882	-9.89	0.000	-102.6067	-68.6565
4	1	4.31301	3.426069	1.26	0.208	-2.40199	11.02801
4	2	258.8632	9.138218	28.33	0.000	240.9525	276.7738
4	3	-77.03055	8.990665	-8.57	0.000	-94.652	-59.4091
4	4	-404.4699	8.907659	-45.41	0.000	-421.9287	-387.0111
4	5	-490.4328	8.24297	-59.50	0.000	-506.5888	-474.2768
4	6	-687.0992	8.709078	-78.89	0.000	-704.1688	-670.0297
4	7	-734.195	8.689122	-84.50	0.000	-751.2254	-717.1645
4	8	-368.9604	8.411626	-43.86	0.000	-385.4469	-352.4738
4	9	-408.9162	8.321962	-49.14	0.000	-425.2271	-392.6054
4	10	-210.6635	8.572979	-24.57	0.000	-227.4663	-193.8607
4	11	10.18183	16.25731	0.63	0.531	-21.68204	42.0457
4	12	-85.15005	8.660733	-9.83	0.000	-102.1248	-68.17525
5	1	1.828423	3.425665	0.53	0.594	-4.885786	8.542632
5	2	254.1429	9.138928	27.81	0.000	236.2308	272.0549
5	3	-86.68423	8.991016	-9.64	0.000	-104.3064	-69.06209
5	4	-412.0291	8.908516	-46.25	0.000	-429.4895	-394.5686

5	5	-494.2578	8.243403	-59.96	0.000	-510.4147	-478.101
5	6	-692.7978	8.709452	-79.55	0.000	-709.8681	-675.7276
5	7	-736.3585	8.689347	-84.74	0.000	-753.3894	-719.3277
5	8	-369.2493	8.412181	-43.89	0.000	-385.7369	-352.7616
5	9	-410.7522	8.322331	-49.36	0.000	-427.0638	-394.4407
5	10	-223.1459	8.572852	-26.03	0.000	-239.9485	-206.3434
5	11	16.15048	16.25512	0.99	0.320	-15.7091	48.01006
5	12	-97.50755	8.660078	-11.26	0.000	-114.4811	-80.53403
6	1	-.4616147	3.42578	-0.13	0.893	-7.176048	6.252819
6	2	246.3055	9.140433	26.95	0.000	228.3905	264.2205
6	3	-90.26561	8.992806	-10.04	0.000	-107.8913	-72.63996
6	4	-419.781	8.910634	-47.11	0.000	-437.2456	-402.3164
6	5	-509.0441	8.245279	-61.74	0.000	-525.2046	-492.8836
6	6	-699.1723	8.711276	-80.26	0.000	-716.2461	-682.0984
6	7	-740.0795	8.690292	-85.16	0.000	-757.1122	-723.0467
6	8	-379.4009	8.413498	-45.09	0.000	-395.8911	-362.9107
6	9	-426.7785	8.324108	-51.27	0.000	-443.0936	-410.4635
6	10	-248.5621	8.574509	-28.99	0.000	-265.3679	-231.7563
6	11	10.08248	16.25258	0.62	0.535	-21.77212	41.93708
6	12	-89.24996	8.659683	-10.31	0.000	-106.2227	-72.27722
7	1	-12.78715	3.426253	-3.73	0.000	-19.50251	-6.071792
7	2	230.5213	9.141543	25.22	0.000	212.6042	248.4385
7	3	-105.2899	8.994303	-11.71	0.000	-122.9184	-87.66128
7	4	-434.1952	8.912622	-48.72	0.000	-451.6637	-416.7267
7	5	-516.7696	8.248276	-62.65	0.000	-532.936	-500.6033
7	6	-716.9634	8.714355	-82.27	0.000	-734.0433	-699.8835
7	7	-746.7655	8.692368	-85.91	0.000	-763.8023	-729.7287
7	8	-379.8412	8.415314	-45.14	0.000	-396.335	-363.3474
7	9	-425.9849	8.326399	-51.16	0.000	-442.3044	-409.6654
7	10	-249.271	8.577072	-29.06	0.000	-266.0818	-232.4602
7	11	-59.74571	16.2508	-3.68	0.000	-91.59682	-27.8946
7	12	-100.7855	8.659855	-11.64	0.000	-117.7586	-83.81246
8	1	-18.99286	3.426555	-5.54	0.000	-25.70882	-12.27691
8	2	222.965	9.142213	24.39	0.000	205.0465	240.8834
8	3	-114.9852	8.994987	-12.78	0.000	-132.6152	-97.35531
8	4	-444.8315	8.914098	-49.90	0.000	-462.3029	-427.3601
8	5	-529.0385	8.250724	-64.12	0.000	-545.2097	-512.8673
8	6	-729.9437	8.716856	-83.74	0.000	-747.0285	-712.8589
8	7	-760.0056	8.694433	-87.41	0.000	-777.0465	-742.9648
8	8	-390.0579	8.417575	-46.34	0.000	-406.5561	-373.5597
8	9	-435.8774	8.328948	-52.33	0.000	-452.2019	-419.5529
8	10	-255.7179	8.579441	-29.81	0.000	-272.5333	-238.9024
8	11	-61.28386	16.25065	-3.77	0.000	-93.13469	-29.43304
8	12	-110.0931	8.660084	-12.71	0.000	-127.0666	-93.11957
9	1	-18.98882	3.426815	-5.54	0.000	-25.70529	-12.27236
9	2	226.4048	9.14251	24.76	0.000	208.4858	244.3239
9	3	-109.6391	8.995412	-12.19	0.000	-127.2698	-92.00832
9	4	-453.6425	8.914945	-50.89	0.000	-471.1155	-436.1694
9	5	-537.1972	8.252551	-65.09	0.000	-553.372	-521.0224
9	6	-738.4268	8.718548	-84.70	0.000	-755.515	-721.3387
9	7	-767.4664	8.695891	-88.26	0.000	-784.5101	-750.4227
9	8	-396.6135	8.419936	-47.10	0.000	-413.1163	-380.1106
9	9	-438.7561	8.330984	-52.67	0.000	-455.0846	-422.4276
9	10	-256.23	8.581211	-29.86	0.000	-273.0489	-239.4111
9	11	-60.68779	16.25134	-3.73	0.000	-92.53996	-28.83562
9	12	-116.6792	8.660316	-13.47	0.000	-133.6532	-99.70524
10	1	-20.41281	3.426971	-5.96	0.000	-27.12958	-13.69604
10	2	223.8968	9.142697	24.49	0.000	205.9773	241.8162
10	3	-115.4386	8.99564	-12.83	0.000	-133.0698	-97.80737
10	4	-452.4588	8.915412	-50.75	0.000	-469.9328	-434.9848
10	5	-540.4639	8.253691	-65.48	0.000	-556.6409	-524.2869
10	6	-744.5705	8.719677	-85.39	0.000	-761.6608	-727.4801
10	7	-779.5733	8.696885	-89.64	0.000	-796.619	-762.5277
10	8	-405.6771	8.422169	-48.17	0.000	-422.1843	-389.1699
10	9	-441.0744	8.332294	-52.94	0.000	-457.4055	-424.7433
10	10	-258.1016	8.582258	-30.07	0.000	-274.9225	-241.2806
10	11	-59.45948	16.25192	-3.66	0.000	-91.31279	-27.60617
10	12	-119.2096	8.660419	-13.76	0.000	-136.1838	-102.2355
11	1	-16.8062	3.427009	-4.90	0.000	-23.52304	-10.08935

11	2	227.1012	9.142694	24.84	0.000	209.1818	245.0206
11	3	-113.3931	8.995607	-12.61	0.000	-131.0242	-95.76194
11	4	-454.8538	8.91559	-51.02	0.000	-472.3281	-437.3795
11	5	-544.9976	8.254292	-66.03	0.000	-561.1758	-528.8194
11	6	-752.749	8.720304	-86.32	0.000	-769.8405	-735.6574
11	7	-787.3924	8.697459	-90.53	0.000	-804.4392	-770.3456
11	8	-410.2158	8.4241	-48.70	0.000	-426.7268	-393.7048
11	9	-443.3554	8.33312	-53.20	0.000	-459.6881	-427.0228
11	10	-260.8905	8.582564	-30.40	0.000	-277.7121	-244.069
11	11	-71.62324	16.25201	-4.41	0.000	-103.4767	-39.76975
11	12	-117.6531	8.660442	-13.59	0.000	-134.6274	-100.6789
12	1	-15.74331	3.426979	-4.59	0.000	-22.46009	-9.026525
12	2	227.8261	9.142536	24.92	0.000	209.9069	245.7452
12	3	-108.9132	8.995439	-12.11	0.000	-126.544	-91.28236
12	4	-454.6695	8.915607	-51.00	0.000	-472.1438	-437.1951
12	5	-542.4328	8.25452	-65.71	0.000	-558.6115	-526.2542
12	6	-757.7084	8.720652	-86.89	0.000	-774.8006	-740.6162
12	7	-794.2368	8.697755	-91.32	0.000	-811.2842	-777.1895
12	8	-414.2263	8.425435	-49.16	0.000	-430.74	-397.7127
12	9	-443.7836	8.333547	-53.25	0.000	-460.1171	-427.4501
12	10	-263.6782	8.582427	-30.72	0.000	-280.4995	-246.8569
12	11	-69.15364	16.25209	-4.26	0.000	-101.0073	-37.29999
12	12	-119.5301	8.660492	-13.80	0.000	-136.5044	-102.5558
13	1	-15.35093	3.426938	-4.48	0.000	-22.06764	-8.63423
13	2	229.8955	9.142375	25.15	0.000	211.9767	247.8143
13	3	-103.919	8.995225	-11.55	0.000	-121.5494	-86.28863
13	4	-451.1795	8.915582	-50.61	0.000	-468.6538	-433.7052
13	5	-540.9641	8.25457	-65.54	0.000	-557.1428	-524.7853
13	6	-761.3266	8.720751	-87.30	0.000	-778.4191	-744.2342
13	7	-800.0949	8.697957	-91.99	0.000	-817.1427	-783.0472
13	8	-418.5664	8.426383	-49.67	0.000	-435.0818	-402.0509
13	9	-445.871	8.333812	-53.50	0.000	-462.2051	-429.537
13	10	-270.1315	8.582089	-31.48	0.000	-286.9521	-253.3108
13	11	-73.98543	16.25205	-4.55	0.000	-105.839	-42.13186
13	12	-119.3344	8.660474	-13.78	0.000	-136.3087	-102.3601
14	1	-13.63319	3.426874	-3.98	0.000	-20.34977	-6.916615
14	2	231.1544	9.142162	25.28	0.000	213.236	249.0728
14	3	-100.1493	8.994914	-11.13	0.000	-117.7791	-82.51957
14	4	-448.1933	8.915612	-50.27	0.000	-465.6677	-430.719
14	5	-539.0025	8.254586	-65.30	0.000	-555.1813	-522.8238
14	6	-765.835	8.720682	-87.82	0.000	-782.9273	-748.7427
14	7	-802.7255	8.698036	-92.29	0.000	-819.7735	-785.6776
14	8	-418.2702	8.426904	-49.64	0.000	-434.7867	-401.7537
14	9	-447.7753	8.333819	-53.73	0.000	-464.1093	-431.4412
14	10	-268.4071	8.581641	-31.28	0.000	-285.2269	-251.5873
14	11	-85.07436	16.25216	-5.23	0.000	-116.9281	-53.22057
14	12	-114.0823	8.660414	-13.17	0.000	-131.0565	-97.10812
15	1	-19.29833	3.426879	-5.63	0.000	-26.01492	-12.58174
15	2	225.8191	9.142062	24.70	0.000	207.9009	243.7373
15	3	-98.41139	8.99473	-10.94	0.000	-116.0408	-80.78197
15	4	-447.9092	8.915425	-50.24	0.000	-465.3832	-430.4352
15	5	-539.8873	8.25446	-65.41	0.000	-556.0659	-523.7088
15	6	-763.0909	8.720542	-87.50	0.000	-780.1829	-745.9989
15	7	-807.314	8.698017	-92.82	0.000	-824.3619	-790.2662
15	8	-420.4797	8.427038	-49.90	0.000	-436.9965	-403.963
15	9	-449.4626	8.333731	-53.93	0.000	-465.7965	-433.1287
15	10	-270.5576	8.581387	-31.53	0.000	-287.3769	-253.7383
15	11	-101.2602	16.25226	-6.23	0.000	-133.1142	-69.40626
15	12	-122.1675	8.660321	-14.11	0.000	-139.1415	-105.1935
16	1	-27.2207	3.427201	-7.94	0.000	-33.93791	-20.50348
16	2	218.68	9.142281	23.92	0.000	200.7614	236.5987
16	3	-102.6262	8.994716	-11.41	0.000	-120.2556	-84.99678
16	4	-447.333	8.915497	-50.17	0.000	-464.8071	-429.8589
16	5	-539.8257	8.254542	-65.40	0.000	-556.0044	-523.6471
16	6	-772.7535	8.720439	-88.61	0.000	-789.8453	-755.6617
16	7	-810.3077	8.698021	-93.16	0.000	-827.3556	-793.2598
16	8	-419.519	8.426632	-49.78	0.000	-436.0349	-403.003
16	9	-449.0633	8.333731	-53.89	0.000	-465.3972	-432.7294
16	10	-270.2087	8.581734	-31.49	0.000	-287.0286	-253.3887

16	11	-113.9742	16.25334	-7.01	0.000	-145.8303	-82.1181
16	12	-126.8873	8.660898	-14.65	0.000	-143.8624	-109.9122
17	1	-31.06811	3.427828	-9.06	0.000	-37.78656	-24.34966
17	2	207.6939	9.14312	22.72	0.000	189.7737	225.6142
17	3	-118.0199	8.99472	-13.12	0.000	-135.6493	-100.3905
17	4	-446.1847	8.915668	-50.05	0.000	-463.6592	-428.7103
17	5	-538.2553	8.254595	-65.21	0.000	-554.4341	-522.0766
17	6	-763.8736	8.720083	-87.60	0.000	-780.9647	-746.7825
17	7	-798.3367	8.697834	-91.79	0.000	-815.3842	-781.2892
17	8	-420.6237	8.425734	-49.92	0.000	-437.1379	-404.1095
17	9	-449.4664	8.333517	-53.93	0.000	-465.7999	-433.1329
17	10	-266.7441	8.582629	-31.08	0.000	-283.5658	-249.9224
17	11	-157.4957	16.25571	-9.69	0.000	-189.3564	-125.6349
17	12	-130.5482	8.661618	-15.07	0.000	-147.5248	-113.5717
18	1	-37.00588	3.427793	-10.80	0.000	-43.72426	-30.2875
18	2	214.4601	9.14373	23.45	0.000	196.5386	232.3816
18	3	-121.0659	8.994669	-13.46	0.000	-138.6952	-103.4366
18	4	-447.4664	8.915612	-50.19	0.000	-464.9407	-429.992
18	5	-533.6871	8.254248	-64.66	0.000	-549.8652	-517.509
18	6	-748.3904	8.719234	-85.83	0.000	-765.4799	-731.3009
18	7	-787.1058	8.697235	-90.50	0.000	-804.1521	-770.0594
18	8	-415.5482	8.423842	-49.33	0.000	-432.0587	-399.0377
18	9	-443.8019	8.332797	-53.26	0.000	-460.1339	-427.4698
18	10	-257.9634	8.583911	-30.05	0.000	-274.7877	-241.1392
18	11	-140.1268	16.25585	-8.62	0.000	-171.9878	-108.2658
18	12	-136.4781	8.661635	-15.76	0.000	-153.4547	-119.5015
19	1	-33.19673	3.427565	-9.69	0.000	-39.91466	-26.4788
19	2	207.1388	9.143514	22.65	0.000	189.2177	225.0598
19	3	-117.2117	8.995695	-13.03	0.000	-134.8431	-99.58043
19	4	-446.3915	8.916049	-50.07	0.000	-463.8667	-428.9162
19	5	-534.385	8.254071	-64.74	0.000	-550.5628	-518.2073
19	6	-742.3974	8.718621	-85.15	0.000	-759.4857	-725.3092
19	7	-777.8091	8.69659	-89.44	0.000	-794.8541	-760.764
19	8	-409.8522	8.42283	-48.66	0.000	-426.3607	-393.3437
19	9	-443.3892	8.333291	-53.21	0.000	-459.7222	-427.0562
19	10	-267.8347	8.584871	-31.20	0.000	-284.6608	-251.0086
19	11	-95.66549	16.25508	-5.89	0.000	-127.525	-63.80599
19	12	-132.9201	8.661472	-15.35	0.000	-149.8963	-115.9438
20	1	-31.6091	3.427287	-9.22	0.000	-38.32648	-24.89171
20	2	215.1207	9.143058	23.53	0.000	197.2006	233.0409
20	3	-119.8117	8.995776	-13.32	0.000	-137.4432	-102.1802
20	4	-457.5721	8.916725	-51.32	0.000	-475.0486	-440.0956
20	5	-545.5418	8.254687	-66.09	0.000	-561.7207	-529.3628
20	6	-742.5052	8.718782	-85.16	0.000	-759.5938	-725.4166
20	7	-776.7207	8.69658	-89.31	0.000	-793.7657	-759.6756
20	8	-408.2738	8.423117	-48.47	0.000	-424.7829	-391.7647
20	9	-445.9169	8.333375	-53.51	0.000	-462.2501	-429.5837
20	10	-267.4976	8.583565	-31.16	0.000	-284.3211	-250.674
20	11	-76.96801	16.25397	-4.74	0.000	-108.8253	-45.11068
20	12	-128.876	8.661314	-14.88	0.000	-145.8519	-111.9001
21	1	-21.04023	3.426875	-6.14	0.000	-27.75681	-14.32365
21	2	226.7823	9.142237	24.81	0.000	208.8638	244.7008
21	3	-108.4582	8.994778	-12.06	0.000	-126.0877	-90.82869
21	4	-448.2009	8.915478	-50.27	0.000	-465.675	-430.7268
21	5	-537.1179	8.253479	-65.08	0.000	-553.2944	-520.9413
21	6	-736.1001	8.718366	-84.43	0.000	-753.1879	-719.0124
21	7	-774.9657	8.696438	-89.11	0.000	-792.0105	-757.9209
21	8	-405.646	8.421398	-48.17	0.000	-422.1517	-389.1403
21	9	-439.2016	8.331487	-52.72	0.000	-455.531	-422.8721
21	10	-260.7453	8.581495	-30.38	0.000	-277.5648	-243.9258
21	11	-63.85339	16.25258	-3.93	0.000	-95.70799	-31.99878
21	12	-118.9266	8.66109	-13.73	0.000	-135.902	-101.9511
22	1	-9.791763	3.426286	-2.86	0.004	-16.50719	-3.076337
22	2	231.1099	9.140955	25.28	0.000	213.1939	249.0259
22	3	-101.9362	8.993261	-11.33	0.000	-119.5627	-84.30963
22	4	-430.1027	8.913569	-48.25	0.000	-447.573	-412.6323
22	5	-522.3649	8.250463	-63.31	0.000	-538.5356	-506.1942
22	6	-724.9651	8.715742	-83.18	0.000	-742.0477	-707.8825
22	7	-759.119	8.695134	-87.30	0.000	-776.1613	-742.0768

22 8	-390.2732	8.418467	-46.36	0.000	-406.7732	-373.7733
22 9	-430.1623	8.328702	-51.65	0.000	-446.4863	-413.8382
22 10	-250.1987	8.578503	-29.17	0.000	-267.0123	-233.3851
22 11	-40.49655	16.25156	-2.49	0.013	-72.34915	-8.643943
22 12	-109.5587	8.660748	-12.65	0.000	-126.5335	-92.58388
23 1	-.2140312	3.425736	-0.06	0.950	-6.928379	6.500317
23 2	242.2144	9.139565	26.50	0.000	224.3011	260.1277
23 3	-91.09959	8.991673	-10.13	0.000	-108.723	-73.47616
23 4	-415.6158	8.911082	-46.64	0.000	-433.0813	-398.1503
23 5	-510.6984	8.247087	-61.92	0.000	-526.8624	-494.5343
23 6	-715.1529	8.712361	-82.08	0.000	-732.2289	-698.0769
23 7	-754.0259	8.693215	-86.74	0.000	-771.0643	-736.9874
23 8	-384.9553	8.416004	-45.74	0.000	-401.4504	-368.4602
23 9	-427.3642	8.325701	-51.33	0.000	-443.6823	-411.0461
23 10	-244.128	8.578525	-28.46	0.000	-260.9417	-227.3143
23 11	-28.64635	16.25204	-1.76	0.078	-60.49989	3.207194
23 12	-97.87601	8.660442	-11.30	0.000	-114.8502	-80.90179
dow						
1	.0331257	.0901006	0.37	0.713	-.1434691	.2097204
2	-.47092	.091866	-5.13	0.000	-.6509748	-.2908653
3	-.8904196	.0916217	-9.72	0.000	-1.069995	-.7108437
4	-.2078644	.0916465	-2.27	0.023	-.387489	-.0282398
5	.627475	.0905937	6.93	0.000	.4499139	.8050361
6	.9520746	.0832648	11.43	0.000	.7888779	1.115271
zone						
2	20.7909	1.432856	14.51	0.000	17.98255	23.59926
3	-199.0398	7.798248	-25.52	0.000	-214.3241	-183.7554
4	9.780148	1.466818	6.67	0.000	6.905225	12.65507
5	29.52737	1.626551	18.15	0.000	26.33938	32.71537
6	-55.87878	9.568186	-5.84	0.000	-74.63216	-37.1254
7	11.94288	1.28146	9.32	0.000	9.43125	14.4545
8	-201.9349	7.687283	-26.27	0.000	-217.0018	-186.868
9	21.54324	1.540038	13.99	0.000	18.52481	24.56168
10	23.85725	1.176026	20.29	0.000	21.55227	26.16223
11	26.50703	1.477084	17.95	0.000	23.61199	29.40207
tmin	-.3806407	.0132037	-28.83	0.000	-.4065196	-.3547618
tmax	-.033669	.0097709	-3.45	0.001	-.0528197	-.0145182
avgtemp	.1256384	.0206913	6.07	0.000	.085084	.1661927
_cons	221.145	8.655839	25.55	0.000	204.1798	238.1102

```
26 . predict pred
   (option xb assumed; fitted values)
   (1393 missing values generated)

27 . graph twoway scatter lbmp pred load if zone_name=="CAPITL",msize(vtiny vtiny)
   >  msymbol(d x)

28 . g r2=.
   (289395 missing values generated)

29 . forvalues i = 1/11 {
     2. quietly regress lbmp pred if zone==`i'
     3. replace r2=e(r2) if zone==`i'
     4. }
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
   (26303 real changes made)
```

```
30 .
31 . tab zone_name, sum(r2) nost nofreq
```

zone name	Summary of r2 Mean
CAPITL	.82258981
CENTRL	.82123756
DUNWOD	.87535828
GENESE	.76631147
HUD VL	.87203217
LONGIL	.84523195
MHK VL	.82563668
MILLWD	.8757121
N.Y.C.	.84718543
NORTH	.77784979
WEST	.74603528
Total	.82501641

```
32 . log close
      name:  <unnamed>
       log:  \\nera-nycfs\work\projects\energy\NYISO DEMAND CURVE UPDATE (R782)
> \Stata Files\basemod.smcl
  log type:  smcl
 closed on:  29 Mar 2010, 09:47:24
-------------------------------------------------------------------------------
```