The SAS System

The REG Procedure
Model: MODEL1
Dependent Variable: tsat

Number of Observations Read	204
Number of Observations Used	204

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	357677	357677	28.87	<.0001
Error	202	2502237	12387		
Corrected Total	203	2859914			

Root MSE	111.29831	R-Square	0.1251
Dependent Mean	1592.75000	Adj R-Sq	0.1207
Coeff Var	6.98781		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1752.43863	30.72249	57.04	<.0001
rexppp	1	-0.01245	0.00232	-5.37	<.0001

The SAS System

The REG Procedure
Model: model_2
Dependent Variable: tsat

Number of Observations Read	204
Number of Observations Used	204

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2255009	1127505	374.65	<.0001
Error	201	604905	3009.47796		
Corrected Total	203	2859914			

Root MSE	54.85871	R-Square	0.7885
Dependent Mean	1592.75000	Adj R-Sq	0.7864
Coeff Var	3.44428		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1661.75590	15.56778	106.74	<.0001
rexppp	1	0.00556	0.00135	4.13	<.0001
pertake	1	-3.71998	0.14815	-25.11	<.0001

The SAS System

The MEANS Procedure

Analysis Variable : pertake				
state	N Obs	Mean	Std Dev	Coeff of Variation
Alabama	4	7.5000000	0.5773503	7.6980036
Alaska	4	47.7500000	3.0956959	6.4831329
Arizona	4	26.2500000	1.2583057	4.7935457
Arkansas	4	4.7500000	0.5000000	10.5263158
California	4	50.0000000	2.1602469	4.3204938
Colorado	4	19.5000000	1.2909944	6.6204844
Connecticut	4	84.2500000	1.8929694	2.2468480
Delaware	4	71.5000000	1.7320508	2.4224487
District of Columbia	4	79.5000000	3.3166248	4.1718551
Florida	4	59.0000000	4.0824829	6.9194626
Georgia	4	73.7500000	4.5000000	6.1016949
Hawaii	4	59.5000000	3.0000000	5.0420168
Idaho	4	18.7500000	0.9574271	5.1062779
Illinois	4	6.0000000	0.8164966	13.6082763
Indiana	4	64.2500000	2.6299556	4.0933162
Iowa	4	3.0000000	0	0
Kansas	4	6.7500000	0.5000000	7.4074074
Kentucky	4	6.7500000	0.9574271	14.1841053
Louisiana	4	7.2500000	0.5000000	6.8965517
Maine	4	90.5000000	2.6457513	2.9234821
Maryland	4	70.5000000	2.3804761	3.3765619
Massachusetts	4	85.5000000	2.6457513	3.0944460
Michigan	4	5.2500000	0.5000000	9.5238095

Minnesota	4	7.2500000	0.5000000	6.8965517
Mississippi	4	3.5000000	0.5773503	16.4957220
Missouri	4	4.7500000	0.5000000	10.5263158
Montana	4	24.0000000	1.6329932	6.8041382
Nebraska	4	4.5000000	0.5773503	12.8300060
Nevada	4	43.0000000	2.9439203	6.8463263
New Hampshire	4	75.7500000	1.5000000	1.9801980
New Jersey	4	76.5000000	1.0000000	1.3071895
New Mexico	4	11.5000000	0.5773503	5.0204371
New York	4	85.7500000	2.2173558	2.5858376
North Carolina	4	64.0000000	2.0000000	3.1250000
North Dakota	4	3.2500000	0.5000000	15.3846154
Ohio	4	22.0000000	1.4142136	6.4282435
Oklahoma	4	5.5000000	0.5773503	10.4972776
Oregon	4	53.7500000	1.7078251	3.1773491
Pennsylvania	4	71.5000000	1.0000000	1.3986014
Rhode Island	4	66.7500000	0.9574271	1.4343477
South Carolina	4	66.0000000	3.7416574	5.6691779
South Dakota	4	3.2500000	0.5000000	15.3846154
Tennessee	4	10.2500000	0.5000000	4.8780488
Texas	4	53.0000000	3.5590261	6.7151436
Utah	4	6.0000000	0	0
Vermont	4	65.2500000	1.5000000	2.2988506
Virginia	4	68.5000000	1.7320508	2.5285413
Washington	4	54.0000000	2.1602469	4.0004572
West Virginia	4	17.5000000	1.2909944	7.3771111
Wisconsin	4	4.7500000	0.5000000	10.5263158
Wyoming	4	5.2500000	0.5000000	9.5238095

The SAS System

The REG Procedure
Model: model_3
Dependent Variable: tsat

Number of Observations Read	204
Number of Observations Used	204

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	51	2846715	55818	642.78	<.0001
Error	152	13199	86.83794		
Corrected Total	203	2859914			

Root MSE	9.31869	R-Square	0.9954
Dependent Mean	1592.75000	Adj R-Sq	0.9938
Coeff Var	0.58507		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1639.49741	32.56920	50.34	<.0001
rexppp	1	0.00254	0.00183	1.39	0.1671
D1	1	-13.94196	14.90279	-0.94	0.3510
D2	1	-162.72433	6.92882	-23.49	<.0001
D3	1	-124.97896	16.18305	-7.72	<.0001
D4	1	27.10974	13.97474	1.94	0.0542
D5	1	-152.96734	14.56433	-10.50	<.0001
D6	1	28.03417	14.24505	1.97	0.0509

D7	1	-149.05552	6.59080	-22.62	<.0001
D8	1	-203.52557	9.10536	-22.35	<.0001
D9	1	-308.19839	11.56685	-26.64	<.0001
D10	1	-198.68413	14.74654	-13.47	<.0001
D11	1	-211.30164	13.87234	-15.23	<.0001
D12	1	-223.26142	9.11239	-24.50	<.0001
D13	1	-60.88816	18.57519	-3.28	0.0013
D14	1	101.91322	9.58452	10.63	<.0001
D15	1	-188.84366	14.00434	-13.48	<.0001
D16	1	128.40529	13.52940	9.49	<.0001
D17	1	67.99895	12.04524	5.65	<.0001
D18	1	37.79593	13.46066	2.81	0.0056
D19	1	-4.24160	11.60240	-0.37	0.7152
D20	1	-286.47467	7.99056	-35.85	<.0001
D21	1	-183.04465	7.17882	-25.50	<.0001
D22	1	-131.52019	6.98791	-18.82	<.0001
D23	1	88.28670	11.32440	7.80	<.0001
D24	1	110.39545	11.68379	9.45	<.0001
D25	1	12.18958	16.45885	0.74	0.4601
D26	1	103.31551	13.31619	7.76	<.0001
D27	1	-70.73563	11.90417	-5.94	<.0001
D28	1	72.06787	10.90748	6.61	<.0001
D29	1	-190.10118	15.77477	-12.05	<.0001
D30	1	-120.12015	8.81525	-13.63	<.0001
D31	1	-183.48903	7.50547	-24.45	<.0001
D32	1	-33.10787	14.63469	-2.26	0.0251
D33	1	-229.27641	9.64389	-23.77	<.0001
D34	1	-180.45462	15.87075	-11.37	<.0001
D35	1	82.94862	12.93194	6.41	<.0001

D36	1	-68.23580	10.45204	-6.53	<.0001
D37	1	29.99105	16.82359	1.78	0.0766
D38	1	-122.61593	12.89195	-9.51	<.0001
D39	1	-201.32621	8.60055	-23.41	<.0001
D40	1	-202.54831	6.59281	-30.72	<.0001
D41	1	-217.99876	14.06469	-15.50	<.0001
D42	1	91.03809	14.88990	6.11	<.0001
D43	1	43.55456	16.04076	2.72	0.0074
D44	1	-203.44574	15.06206	-13.51	<.0001
D45	1	5.97911	19.49908	0.31	0.7595
D46	1	-140.61780	6.58985	-21.34	<.0001
D47	1	-151.29652	11.42232	-13.25	<.0001
D48	1	-104.50729	13.42724	-7.78	<.0001
D49	1	-157.95320	11.03933	-14.31	<.0001
D50	1	101.41619	10.53724	9.62	<.0001

The SAS System

The REG Procedure
Model: model_4
Dependent Variable: tsat

Number of Observations Read	204
Number of Observations Used	204

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	52	2849530	54799	796.86	<.0001
Error	151	10384	68.76864		
Corrected Total	203	2859914			

Root MSE	8.29269	R-Square	0.9964
Dependent Mean	1592.75000	Adj R-Sq	0.9951
Coeff Var	0.52065		

Parameter Estimates

Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > |t|
Intercept	1	1673.16043	29.45693	56.80	<.0001
rexppp	1	0.00131	0.00164	0.80	0.4260
pertake	1	-2.27977	0.35631	-6.40	<.0001
D1	1	-17.80867	13.27573	-1.34	0.1818
D2	1	-64.39242	16.55914	-3.89	0.0002
D3	1	-87.05163	15.57351	-5.59	<.0001
D4	1	17.67575	12.52320	1.41	0.1602
D5	1	-59.68929	19.50676	-3.06	0.0026
D6	1	52.02099	13.21937	3.94	0.0001
D7	1	30.95176	28.73830	1.08	0.2832

D8	1	-56.72029	24.33302	-2.33	0.0211
D9	1	-132.52768	29.32177	-4.52	<.0001
D10	1	-85.02547	22.08535	-3.85	0.0002
D11	1	-63.35352	26.21195	-2.42	0.0168
D12	1	-103.82020	20.35275	-5.10	<.0001
D13	1	-41.79975	16.79709	-2.49	0.0139
D14	1	98.93871	8.54191	11.58	<.0001
D15	1	-62.65414	23.32978	-2.69	0.0081
D16	1	115.32320	12.21216	9.44	<.0001
D17	1	64.63248	10.73195	6.02	<.0001
D18	1	33.31597	11.99906	2.78	0.0062
D19	1	-6.10920	10.32909	-0.59	0.5551
D20	1	-95.16660	30.73356	-3.10	0.0023
D21	1	-36.20728	23.82188	-1.52	0.1306
D22	1	49.86539	29.02288	1.72	0.0878
D23	1	82.08823	10.12403	8.11	<.0001
D24	1	108.46141	10.40178	10.43	<.0001
D25	1	-1.95067	14.81249	-0.13	0.8954
D26	1	94.38772	11.93192	7.91	<.0001
D27	1	-34.66242	12.00034	-2.89	0.0044
D28	1	64.50803	9.77820	6.60	<.0001
D29	1	-113.68614	18.43089	-6.17	<.0001
D30	1	36.66237	25.72871	1.42	0.1562
D31	1	-18.63719	26.61643	-0.70	0.4849
D32	1	-27.65390	13.05125	-2.12	0.0357
D33	1	-41.01600	30.64937	-1.34	0.1828
D34	1	-56.23552	24.00797	-2.34	0.0205
D35	1	70.90022	11.66115	6.08	<.0001
D36	1	-35.51014	10.61478	-3.35	0.0010

D37	1	20.14300	15.05020	1.34	0.1828
D38	1	-19.50483	19.78185	-0.99	0.3257
D39	1	-54.01162	24.26266	-2.23	0.0275
D40	1	-62.19806	22.70646	-2.74	0.0069
D41	1	-87.86565	23.88120	-3.68	0.0003
D42	1	77.49204	13.41856	5.77	<.0001
D43	1	45.11056	14.27672	3.16	0.0019
D44	1	-103.70243	20.55904	-5.04	<.0001
D45	1	-4.66231	17.43172	-0.27	0.7895
D46	1	-3.77470	22.17669	-0.17	0.8651
D47	1	-13.38061	23.83143	-0.56	0.5753
D48	1	-1.24248	20.08116	-0.06	0.9507
D49	1	-135.98705	10.40649	-13.07	<.0001
D50	1	94.74220	9.43491	10.04	<.0001