

Obs	model	vol	hp	mpg	sp	wt	lmpg	hp2	sp2	wt2	vol2
1	GM/GeoMetroXF1	89	49	65.4	96	17.5	4.18052	2401	9216	306.25	7921
2	GM/GeoMetro	92	55	56.0	97	20.0	4.02535	3025	9409	400.00	8464
3	GM/GeoMetroLSI	92	55	55.9	97	20.0	4.02356	3025	9409	400.00	8464
4	SuzukiSwift	92	70	49.0	105	20.0	3.89182	4900	11025	400.00	8464
5	DaihatsuCharade	92	53	46.5	96	20.0	3.83945	2809	9216	400.00	8464
6	GM/GeoSprintTurbo	89	70	46.2	105	20.0	3.83298	4900	11025	400.00	7921
7	GM/GeoSprint	92	55	45.4	97	20.0	3.81551	3025	9409	400.00	8464
8	HondaCivicCRXHF	50	62	59.2	98	22.5	4.08092	3844	9604	506.25	2500
9	HondaCivicCRXHF	50	62	53.3	98	22.5	3.97594	3844	9604	506.25	2500
10	DaihatsuCharade	94	80	43.4	107	22.5	3.77046	6400	11449	506.25	8836
11	SubaruJusty	89	73	41.1	103	22.5	3.71601	5329	10609	506.25	7921
12	HondaCivicCRX	50	92	40.9	113	22.5	3.71113	8464	12769	506.25	2500
13	HondaCivic	99	92	40.9	113	22.5	3.71113	8464	12769	506.25	9801
14	SubaruJusty	89	73	40.4	103	22.5	3.69883	5329	10609	506.25	7921
15	SubaruJusty	89	66	39.6	100	22.5	3.67883	4356	10000	506.25	7921
16	SubaruJusty4wd	89	73	39.3	103	22.5	3.67122	5329	10609	506.25	7921

Obs	hpsp	hpsvol	hpwt	spvol	spwt	wtvol	lowvol	hihp
1	4704	4361	857.5	8544	1680.0	1557.5	0	0
2	5335	5060	1100.0	8924	1940.0	1840.0	0	0
3	5335	5060	1100.0	8924	1940.0	1840.0	0	0
4	7350	6440	1400.0	9660	2100.0	1840.0	0	0
5	5088	4876	1060.0	8832	1920.0	1840.0	0	0
6	7350	6230	1400.0	9345	2100.0	1780.0	0	0
7	5335	5060	1100.0	8924	1940.0	1840.0	0	0
8	6076	3100	1395.0	4900	2205.0	1125.0	1	0
9	6076	3100	1395.0	4900	2205.0	1125.0	1	0
10	8560	7520	1800.0	10058	2407.5	2115.0	0	0
11	7519	6497	1642.5	9167	2317.5	2002.5	0	0
12	10396	4600	2070.0	5650	2542.5	1125.0	1	0
13	10396	9108	2070.0	11187	2542.5	2227.5	0	0
14	7519	6497	1642.5	9167	2317.5	2002.5	0	0
15	6600	5874	1485.0	8900	2250.0	2002.5	0	0
16	7519	6497	1642.5	9167	2317.5	2002.5	0	0

Obs	model	vol	hp	mpg	sp	wt	lmpg	hp2	sp2	wt2	vol2
17	ToyotaTercel	91	78	38.9	106	22.5	3.66099	6084	11236	506.25	8281
18	HondaCivicCRX	50	92	38.8	113	22.5	3.65842	8464	12769	506.25	2500
19	ToyotaTercel	91	78	38.2	106	22.5	3.64284	6084	11236	506.25	8281
20	FordEscort	103	90	42.2	109	25.0	3.74242	8100	11881	625.00	10609
21	HondaCivic	99	92	40.9	110	25.0	3.71113	8464	12100	625.00	9801
22	PontiacLeMans	107	74	40.7	101	25.0	3.70623	5476	10201	625.00	11449
23	IsuzuStylus	101	95	40.0	111	25.0	3.68888	9025	12321	625.00	10201
24	DodgeColt	96	81	39.3	105	25.0	3.67122	6561	11025	625.00	9216
25	GM/GeoStorm	89	95	38.8	111	25.0	3.65842	9025	12321	625.00	7921
26	HondaCivicCRX	50	92	38.4	110	25.0	3.64806	8464	12100	625.00	2500
27	HondaCivicWagon	117	92	38.4	110	25.0	3.64806	8464	12100	625.00	13689
28	HondaCivic	99	92	38.4	110	25.0	3.64806	8464	12100	625.00	9801
29	SubaruLoyale	102	90	29.5	109	25.0	3.38439	8100	11881	625.00	10404
30	VolksJettaDiesel	104	52	46.9	90	27.5	3.84802	2704	8100	756.25	10816
31	Mazda323Protege	107	103	36.3	112	27.5	3.59182	10609	12544	756.25	11449
32	FordEscortWagon	114	84	36.1	103	27.5	3.58629	7056	10609	756.25	12996

Obs	hpsp	hpvol	hpwt	spvol	spwt	wtvol	lowvol	hihp
17	8268	7098	1755.0	9646	2385.0	2047.5	0	0
18	10396	4600	2070.0	5650	2542.5	1125.0	1	0
19	8268	7098	1755.0	9646	2385.0	2047.5	0	0
20	9810	9270	2250.0	11227	2725.0	2575.0	0	0
21	10120	9108	2300.0	10890	2750.0	2475.0	0	0
22	7474	7918	1850.0	10807	2525.0	2675.0	0	0
23	10545	9595	2375.0	11211	2775.0	2525.0	0	0
24	8505	7776	2025.0	10080	2625.0	2400.0	0	0
25	10545	8455	2375.0	9879	2775.0	2225.0	0	0
26	10120	4600	2300.0	5500	2750.0	1250.0	1	0
27	10120	10764	2300.0	12870	2750.0	2925.0	0	0
28	10120	9108	2300.0	10890	2750.0	2475.0	0	0
29	9810	9180	2250.0	11118	2725.0	2550.0	0	0
30	4680	5408	1430.0	9360	2475.0	2860.0	0	0
31	11536	11021	2832.5	11984	3080.0	2942.5	0	0
32	8652	9576	2310.0	11742	2832.5	3135.0	0	0

Obs	model	vol	hp	mpg	sp	wt	lmpg	hp2	sp2	wt2	vol2
33	FordEscort	101	84	36.1	103	27.5	3.58629	7056	10609	756.25	10201
34	GM/GeoPrism	97	102	35.4	111	27.5	3.56671	10404	12321	756.25	9409
35	ToyotaCorolla	113	102	35.3	111	27.5	3.56388	10404	12321	756.25	12769
36	EagleSummit	101	81	35.1	102	27.5	3.55820	6561	10404	756.25	10201
37	NissanCentraCoupe	98	90	35.1	106	27.5	3.55820	8100	11236	756.25	9604
38	NissanCentraWagon	88	90	35.0	106	27.5	3.55535	8100	11236	756.25	7744
39	ToyotaCelica	86	102	33.2	109	30.0	3.50255	10404	11881	900.00	7396
40	ToyotaCelica	86	102	32.9	109	30.0	3.49347	10404	11881	900.00	7396
41	ToyotaCorolla	92	130	32.3	120	30.0	3.47507	16900	14400	900.00	8464
42	ChevroletCorsica	113	95	32.2	106	30.0	3.47197	9025	11236	900.00	12769
43	ChevroletBeretta	106	95	32.2	106	30.0	3.47197	9025	11236	900.00	11236
44	ToyotaCorolla	92	102	32.2	109	30.0	3.47197	10404	11881	900.00	8464
45	PontiacSunbirdConv	88	95	32.2	106	30.0	3.47197	9025	11236	900.00	7744
46	DodgeShadow	102	93	31.5	105	30.0	3.44999	8649	11025	900.00	10404
47	DodgeDaytona	99	100	31.5	108	30.0	3.44999	10000	11664	900.00	9801
48	EagleSpirit	111	100	31.4	108	30.0	3.44681	10000	11664	900.00	12321

Obs	hpsp	hpvol	hpwt	spvol	spwt	wtvol	lowvol	hihp
33	8652	8484	2310.0	10403	2832.5	2777.5	0	0
34	11322	9894	2805.0	10767	3052.5	2667.5	0	0
35	11322	11526	2805.0	12543	3052.5	3107.5	0	0
36	8262	8181	2227.5	10302	2805.0	2777.5	0	0
37	9540	8820	2475.0	10388	2915.0	2695.0	0	0
38	9540	7920	2475.0	9328	2915.0	2420.0	0	0
39	11118	8772	3060.0	9374	3270.0	2580.0	0	0
40	11118	8772	3060.0	9374	3270.0	2580.0	0	0
41	15600	11960	3900.0	11040	3600.0	2760.0	0	0
42	10070	10735	2850.0	11978	3180.0	3390.0	0	0
43	10070	10070	2850.0	11236	3180.0	3180.0	0	0
44	11118	9384	3060.0	10028	3270.0	2760.0	0	0
45	10070	8360	2850.0	9328	3180.0	2640.0	0	0
46	9765	9486	2790.0	10710	3150.0	3060.0	0	0
47	10800	9900	3000.0	10692	3240.0	2970.0	0	0
48	10800	11100	3000.0	11988	3240.0	3330.0	0	0

Obs	model	vol	hp	mpg	sp	wt	lmpg	hp2	sp2	wt2	vol2
49	FordTempo	103	98	31.4	107	30.0	3.44681	9604	11449	900.00	10609
50	ToyotaCelica	86	130	31.2	120	30.0	3.44042	16900	14400	900.00	7396
51	ToyotaCamry	101	115	33.7	109	35.0	3.51750	13225	11881	1225.00	10201
52	ToyotaCamry	101	115	32.6	109	35.0	3.48431	13225	11881	1225.00	10201
53	ToyotaCamry	101	115	31.3	109	35.0	3.44362	13225	11881	1225.00	10201
54	ToyotaCamryWagon	124	115	31.3	109	35.0	3.44362	13225	11881	1225.00	15376
55	OldsCutlassSup	113	180	30.4	133	35.0	3.41444	32400	17689	1225.00	12769
56	OldsCutlassSup	113	160	28.9	125	35.0	3.36384	25600	15625	1225.00	12769
57	Saab9000	124	130	28.0	115	35.0	3.33220	16900	13225	1225.00	15376
58	FordMustang	92	96	28.0	102	35.0	3.33220	9216	10404	1225.00	8464
59	ToyotaCamry	101	115	28.0	109	35.0	3.33220	13225	11881	1225.00	10201
60	ChryslerLebaronConv	94	100	28.0	104	35.0	3.33220	10000	10816	1225.00	8836
61	DodgeDynasty	115	100	28.0	105	35.0	3.33220	10000	11025	1225.00	13225
62	Volvo740	111	145	27.7	120	35.0	3.32143	21025	14400	1225.00	12321
63	FordThunderbird	116	120	25.6	107	40.0	3.24259	14400	11449	1600.00	13456
64	ChevroletCaprice	131	140	25.3	114	40.0	3.23080	19600	12996	1600.00	17161

Obs	hpsp	hpvol	hpwt	spvol	spwt	wtvol	lowvol	hihp
49	10486	10094	2940.0	11021	3210.0	3090.0	0	0
50	15600	11180	3900.0	10320	3600.0	2580.0	0	0
51	12535	11615	4025.0	11009	3815.0	3535.0	0	0
52	12535	11615	4025.0	11009	3815.0	3535.0	0	0
53	12535	11615	4025.0	11009	3815.0	3535.0	0	0
54	12535	14260	4025.0	13516	3815.0	4340.0	0	0
55	23940	20340	6300.0	15029	4655.0	3955.0	0	0
56	20000	18080	5600.0	14125	4375.0	3955.0	0	0
57	14950	16120	4550.0	14260	4025.0	4340.0	0	0
58	9792	8832	3360.0	9384	3570.0	3220.0	0	0
59	12535	11615	4025.0	11009	3815.0	3535.0	0	0
60	10400	9400	3500.0	9776	3640.0	3290.0	0	0
61	10500	11500	3500.0	12075	3675.0	4025.0	0	0
62	17400	16095	5075.0	13320	4200.0	3885.0	0	0
63	12840	13920	4800.0	12412	4280.0	4640.0	0	0
64	15960	18340	5600.0	14934	4560.0	5240.0	0	0

Obs	model	vol	hp	mpg	sp	wt	lmpg	hp2	sp2	wt2	vol2
65	LincolnContinental	123	140	23.9	114	40.0	3.17388	19600	12996	1600.00	15129
66	ChryslerNewYorker	121	150	23.6	117	40.0	3.16125	22500	13689	1600.00	14641
67	BuickReatta	50	165	23.6	122	40.0	3.16125	27225	14884	1600.00	2500
68	OldsTrof/Toronado	114	165	23.6	122	40.0	3.16125	27225	14884	1600.00	12996
69	Oldsmobile98	127	165	23.6	122	40.0	3.16125	27225	14884	1600.00	16129
70	PontiacBonneville	123	165	23.6	122	40.0	3.16125	27225	14884	1600.00	15129
71	LexusLS400	112	245	23.5	148	40.0	3.15700	60025	21904	1600.00	12544
72	Nissan300ZX	50	280	23.4	160	40.0	3.15274	78400	25600	1600.00	2500
73	Volvo760Wagon	135	162	23.4	121	40.0	3.15274	26244	14641	1600.00	18225
74	Audi200QuatroWag	132	162	23.1	121	40.0	3.13983	26244	14641	1600.00	17424
75	BuickElectraWagon	160	140	22.9	110	45.0	3.13114	19600	12100	2025.00	25600
76	CadillacBrougham	129	140	22.9	110	45.0	3.13114	19600	12100	2025.00	16641
77	CadillacBrougham	129	175	19.5	121	45.0	2.97041	30625	14641	2025.00	16641
78	Mercedes500SL	50	322	18.1	165	45.0	2.89591	103684	27225	2025.00	2500
79	Mercedes560SEL	115	238	17.2	140	45.0	2.84491	56644	19600	2025.00	13225
80	JaguarXJSCovert	50	263	17.0	147	45.0	2.83321	69169	21609	2025.00	2500

Obs	hpsp	hpvol	hpwt	spvol	spwt	wtvol	lowvol	hihp
65	15960	17220	5600.0	14022	4560.0	4920.0	0	0
66	17550	18150	6000.0	14157	4680.0	4840.0	0	0
67	20130	8250	6600.0	6100	4880.0	2000.0	1	0
68	20130	18810	6600.0	13908	4880.0	4560.0	0	0
69	20130	20955	6600.0	15494	4880.0	5080.0	0	0
70	20130	20295	6600.0	15006	4880.0	4920.0	0	0
71	36260	27440	9800.0	16576	5920.0	4480.0	0	1
72	44800	14000	11200.0	8000	6400.0	2000.0	1	1
73	19602	21870	6480.0	16335	4840.0	5400.0	0	0
74	19602	21384	6480.0	15972	4840.0	5280.0	0	0
75	15400	22400	6300.0	17600	4950.0	7200.0	0	0
76	15400	18060	6300.0	14190	4950.0	5805.0	0	0
77	21175	22575	7875.0	15609	5445.0	5805.0	0	0
78	53130	16100	14490.0	8250	7425.0	2250.0	1	1
79	33320	27370	10710.0	16100	6300.0	5175.0	0	1
80	38661	13150	11835.0	7350	6615.0	2250.0	1	1

Obs	model	vol	hp	mpg	sp	wt	lmpg	hp2	sp2	wt2	vol2
81	BMW750IL	119	295	16.7	157	45.0	2.81541	87025	24649	2025.00	14161
82	Rolls-RoyceVarious	107	236	13.2	130	55.0	2.58022	55696	16900	3025.00	11449

Obs	hpsp	hpvol	hpwt	spvol	spwt	wtvol	lowvol	hihp
81	46315	35105	13275.0	18683	7065.0	5355.0	0	1
82	30680	25252	12980.0	13910	7150.0	5885.0	0	1

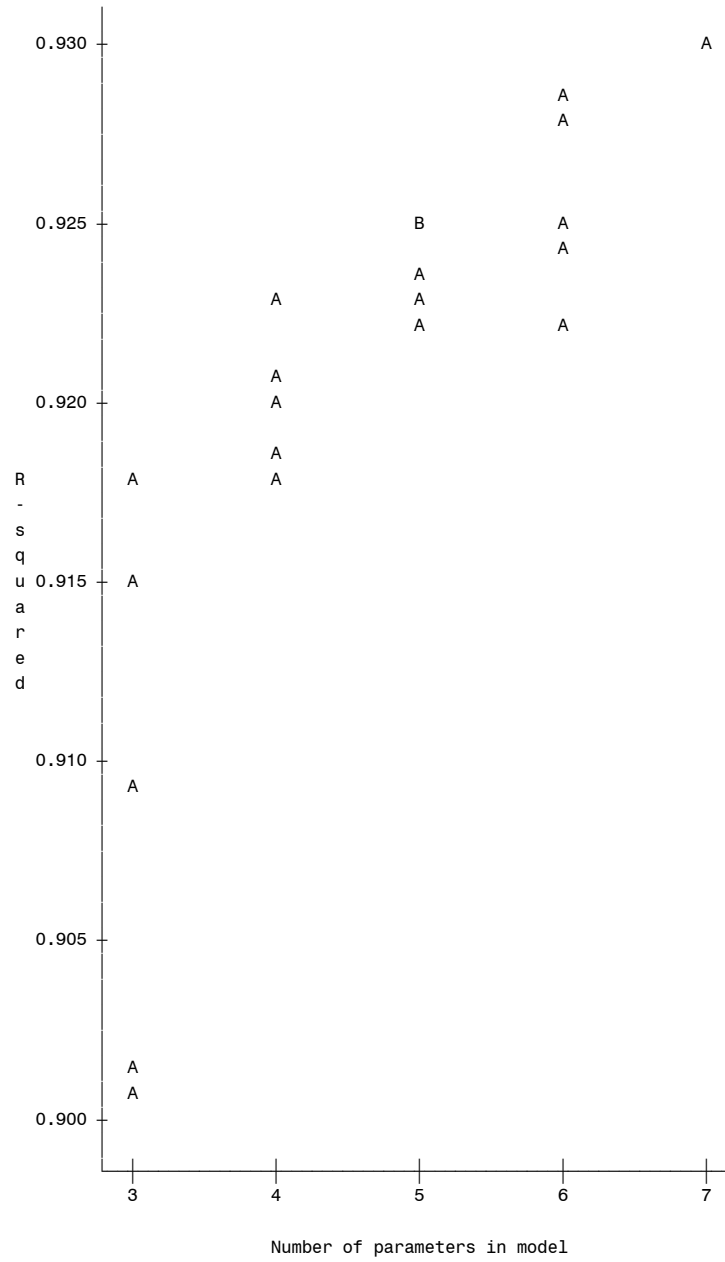
**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Impg**

**R-Square Selection Method**

Number of Observations Read	82
Number of Observations Used	82

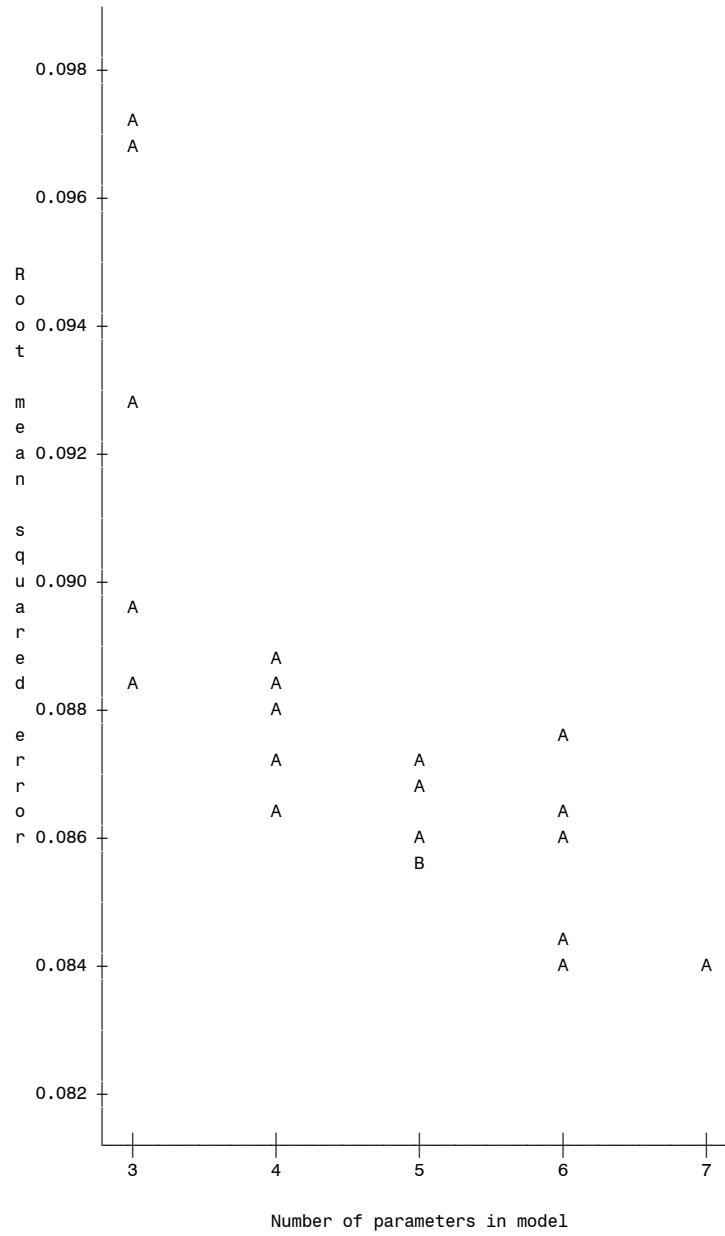
Number in Model	R-Square	C(p)	AIC	Root MSE	SBC	Variables in Model
1	0.9005	28.1942	-381.3345	0.09659	-376.52106	wt
1	0.7344	205.5516	-300.8003	0.15784	-295.98684	hp
1	0.5486	403.8681	-257.3176	0.20576	-252.50419	sp
1	0.3415	625.0076	-226.3465	0.24853	-221.53303	hihp
1	0.1126	869.4104	-201.8806	0.28851	-197.06712	vol
2	0.9179	11.6535	-395.0685	0.08831	-387.84836	sp wt
2	0.9152	14.4981	-392.4497	0.08973	-385.22953	hp wt
2	0.9094	20.7318	-386.9874	0.09277	-379.76723	wt hihp
2	0.9016	29.0834	-380.1967	0.09669	-372.97657	vol wt
2	0.9006	30.0908	-379.4144	0.09715	-372.19424	wt lowvol
3	0.9227	8.5487	-397.9888	0.08625	-388.36190	sp wt lowvol
3	0.9208	10.5456	-396.0288	0.08728	-386.40189	hp sp wt
3	0.9197	11.7277	-394.8902	0.08789	-385.26334	hp wt lowvol
3	0.9188	12.6870	-393.9777	0.08838	-384.35082	vol sp wt
3	0.9179	13.6464	-393.0752	0.08887	-383.44830	sp wt hihp
4	0.9250	8.0877	-398.4706	0.08550	-386.43698	vol sp wt lowvol
4	0.9247	8.3661	-398.1861	0.08565	-386.15246	hp sp wt lowvol
4	0.9238	9.3885	-397.1494	0.08619	-385.11584	hp sp wt hihp
4	0.9227	10.5374	-396.0000	0.08680	-383.96641	sp wt lowvol hihp
4	0.9218	11.4911	-395.0579	0.08730	-383.02431	vol hp wt lowvol
5	0.9283	6.5913	-400.1310	0.08416	-385.69067	vol hp sp wt lowvol
5	0.9276	7.3427	-399.3305	0.08457	-384.89015	hp sp wt lowvol hihp
5	0.9252	9.8799	-396.6836	0.08595	-382.24326	vol sp wt lowvol hihp
5	0.9244	10.6819	-395.8645	0.08638	-381.42414	vol hp sp wt hihp
5	0.9222	13.1120	-393.4311	0.08767	-378.99080	vol hp wt lowvol hihp
6	0.9297	7.0000	-399.8526	0.08384	-383.00555	vol hp sp wt lowvol hihp

Plot of \_RSQ\*\_P\_. Legend: A = 1 obs, B = 2 obs, etc.

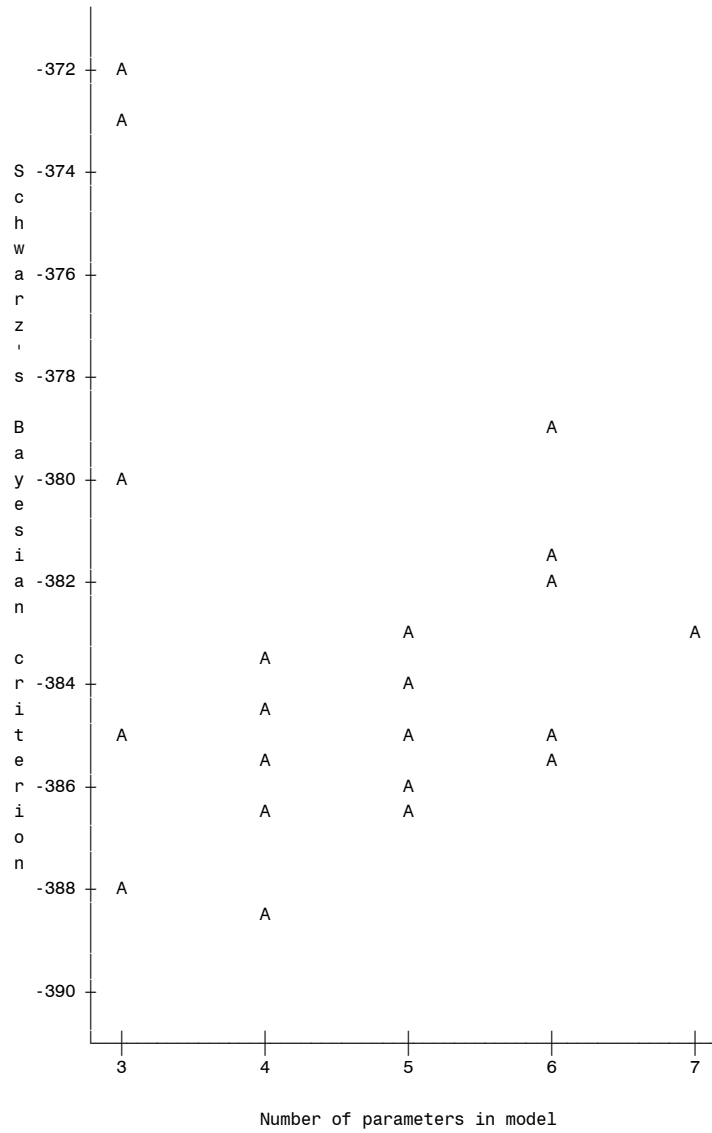




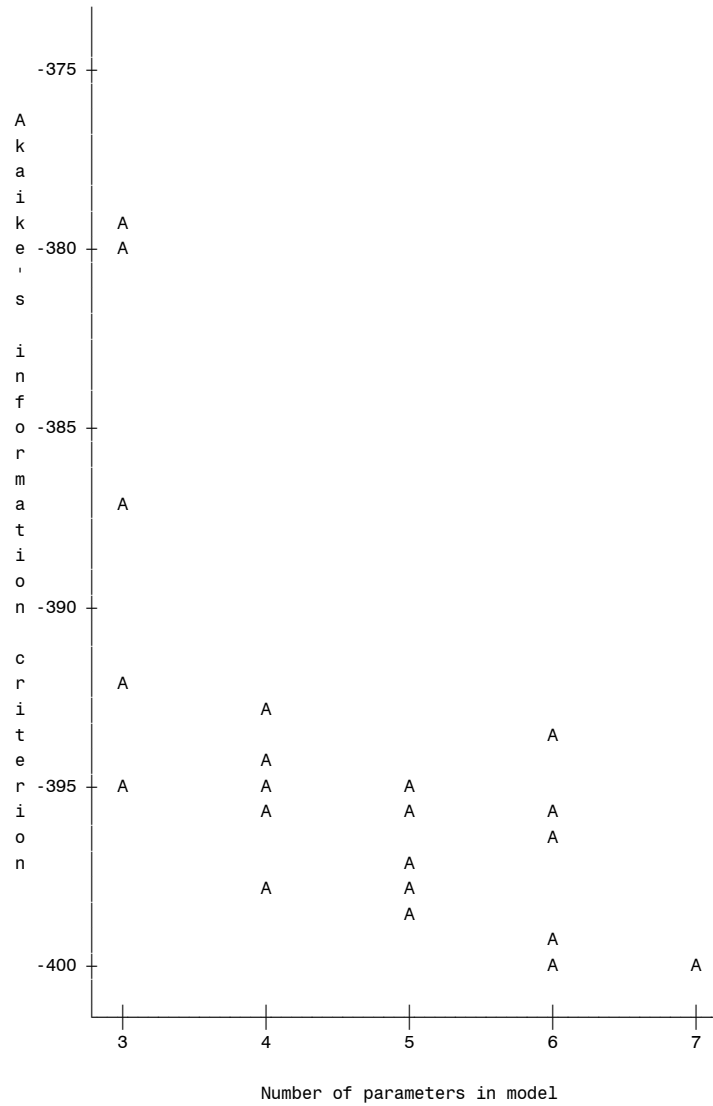
Plot of \_RMSE\*\_P\_. Legend: A = 1 obs, B = 2 obs, etc.



Plot of \_SBC\*\_P\_. Legend: A = 1 obs, B = 2 obs, etc.



Plot of `_AIC*_P_`. Legend: A = 1 obs, B = 2 obs, etc.



The CORR Procedure

<b>4 Variables:</b>	lmpg	sp	wt	lowvol
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Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum
<b>lmpg</b>	82	3.47571	0.30437	285.00847	2.58022	4.18052
<b>sp</b>	82	112.41463	14.03782	9218	90.00000	165.00000
<b>wt</b>	82	30.91463	8.14142	2535	17.50000	55.00000
<b>lowvol</b>	82	0.10976	0.31451	9.00000	0	1.00000

Pearson Correlation Coefficients, N = 82 Prob >  r  under H0: Rho=0				
	lmpg	sp	wt	lowvol
lmpg	1.00000	-0.74071 <.0001	-0.94896 <.0001	-0.02113 0.8505
sp	-0.74071 <.0001	1.00000	0.67853 <.0001	0.31953 0.0034
wt	-0.94896 <.0001	0.67853 <.0001	1.00000	0.03263 0.7710
lowvol	-0.02113 0.8505	0.31953 0.0034	0.03263 0.7710	1.00000

**The REG Procedure**  
**Model: MODEL1**  
**Dependent Variable: Impg**

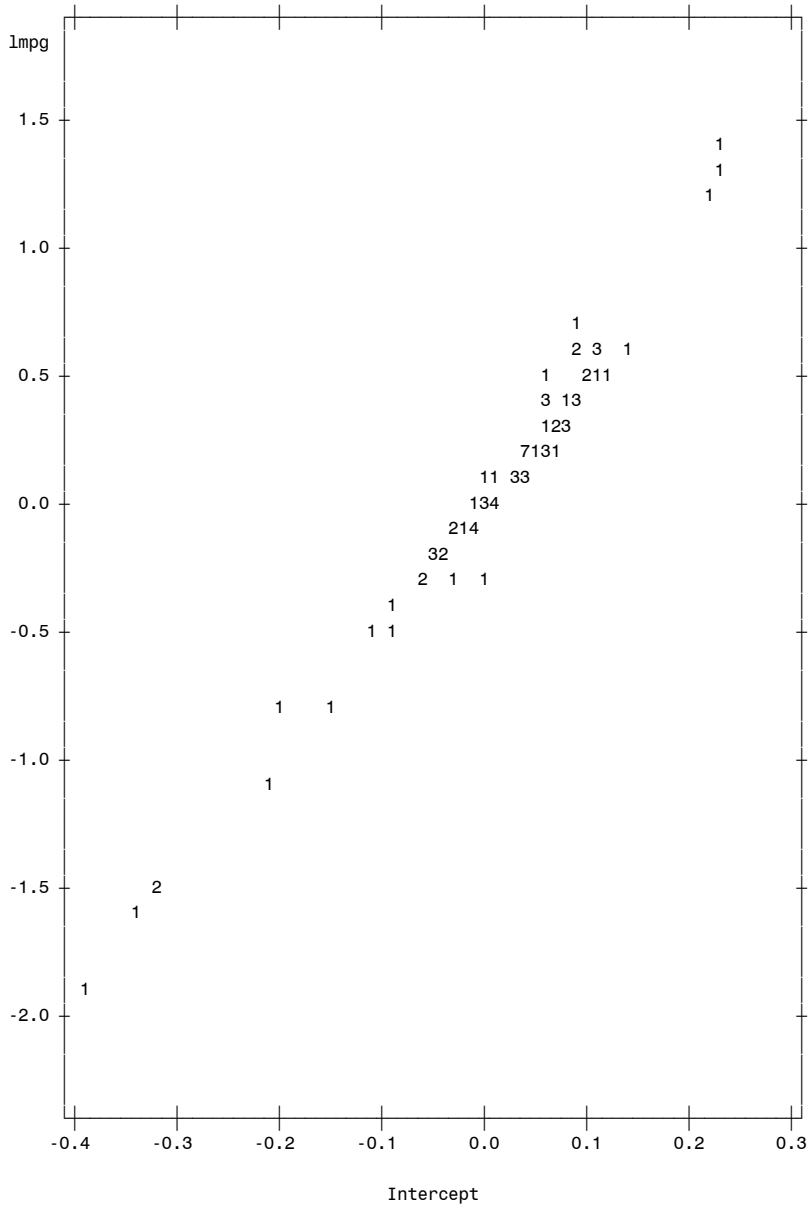
Number of Observations Read	82
Number of Observations Used	82

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.92369	2.30790	310.26	<.0001
Error	78	0.58021	0.00744		
Corrected Total	81	7.50390			

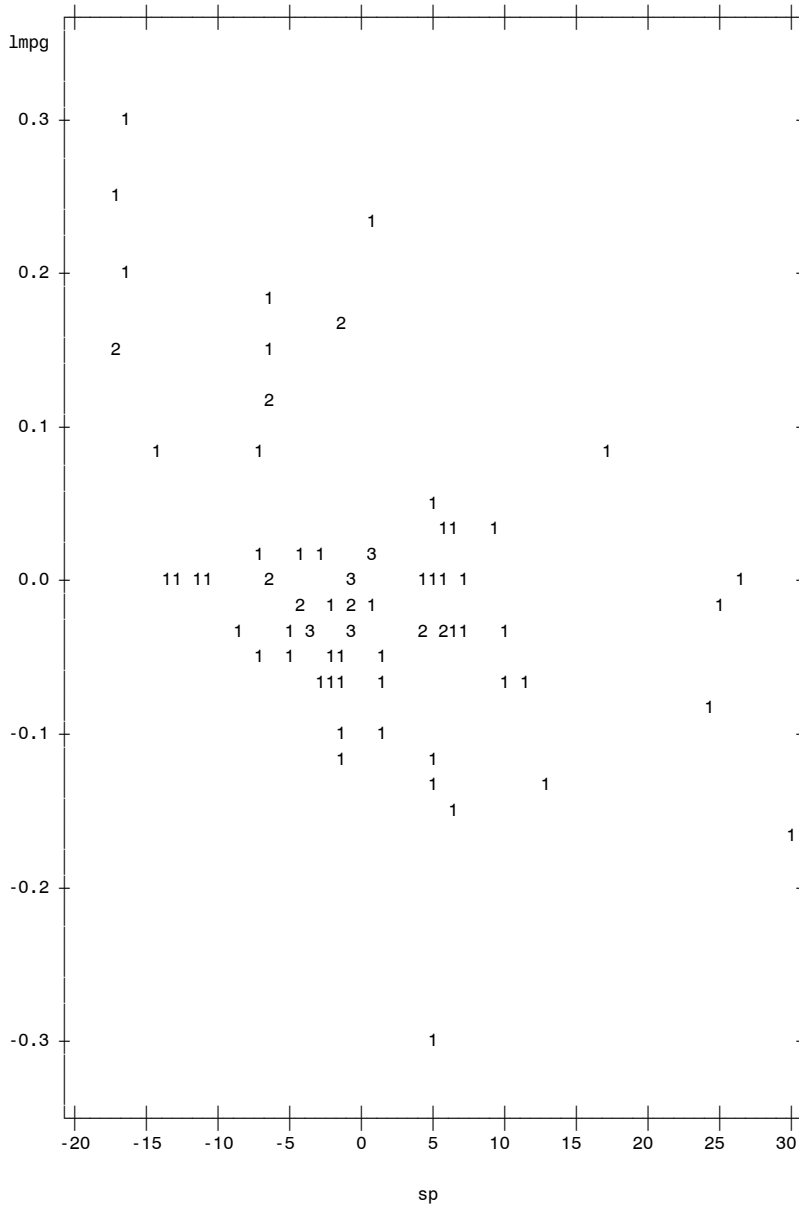
Root MSE	0.08625	R-Square	0.9227
Dependent Mean	3.47571	Adj R-Sq	0.9197
Coeff Var	2.48143		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr >  t	Variance Inflation
Intercept	1	4.93282	0.08531	57.82	<.0001	0
sp	1	-0.00479	0.00102	-4.72	<.0001	2.21700
wt	1	-0.02996	0.00166	-18.03	<.0001	1.99277
lowvol	1	0.07323	0.03334	2.20	0.0310	1.19755

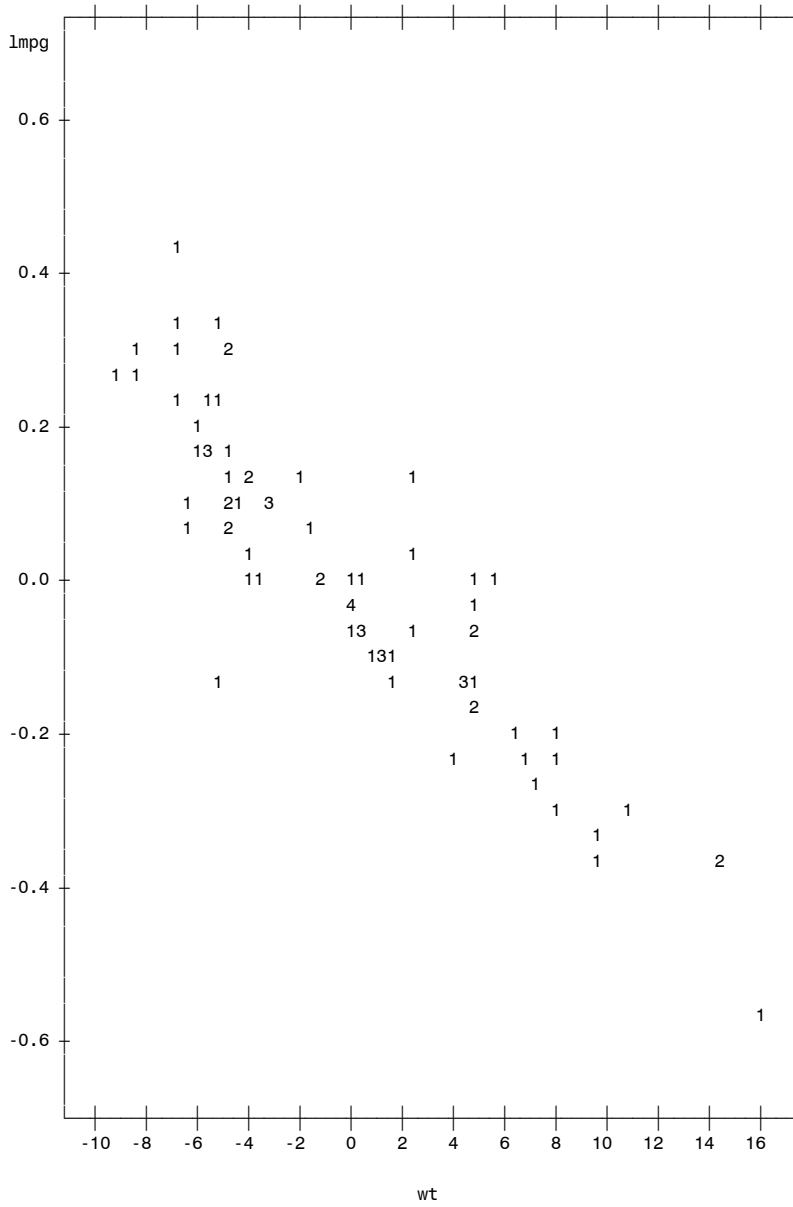
**The REG Procedure**  
**Model: MODEL1**  
**Partial Regression Residual Plot**



**The REG Procedure**  
**Model: MODEL1**  
**Partial Regression Residual Plot**

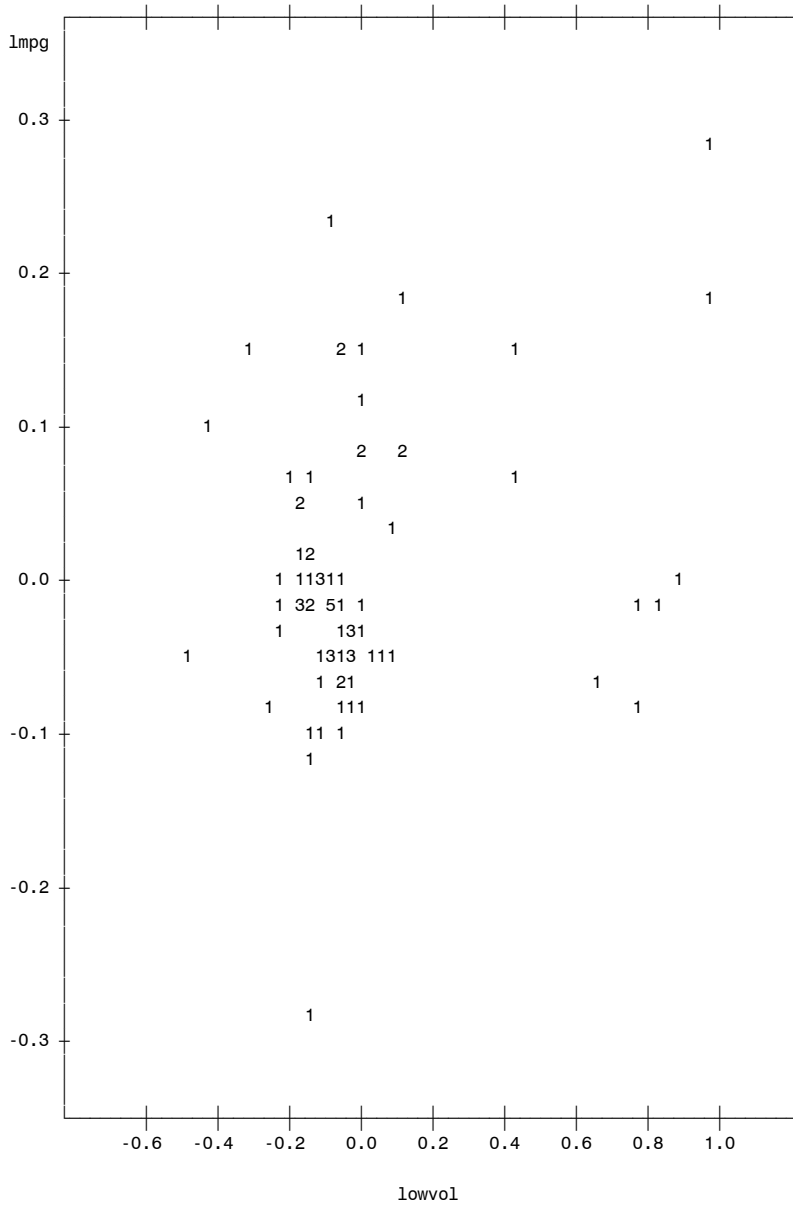


**The REG Procedure**  
**Model: MODEL1**  
**Partial Regression Residual Plot**

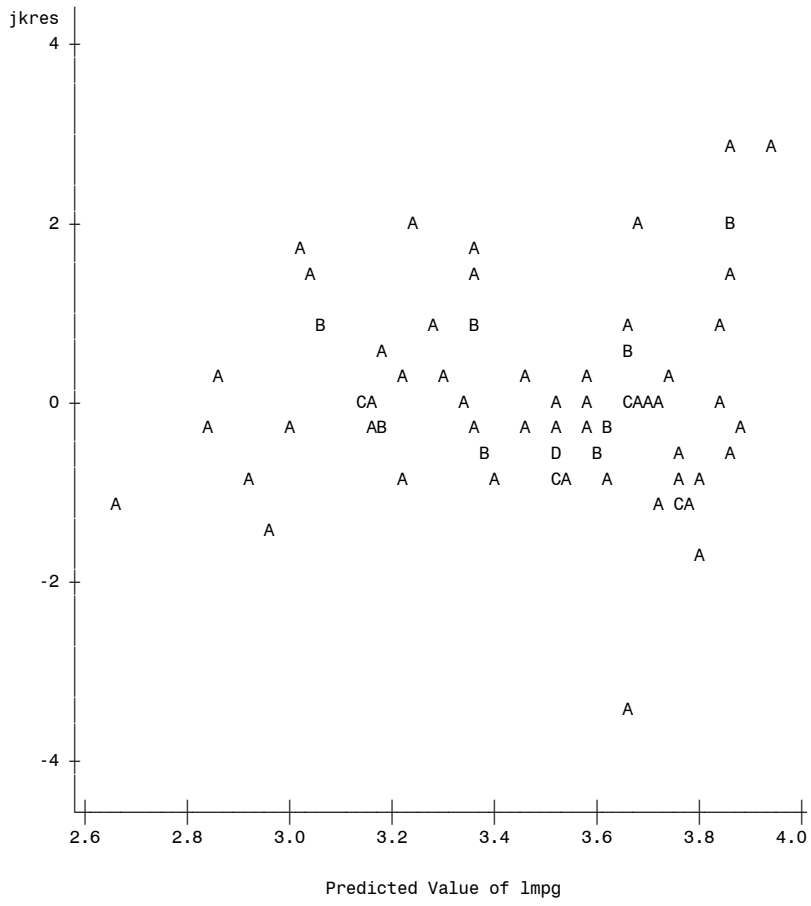




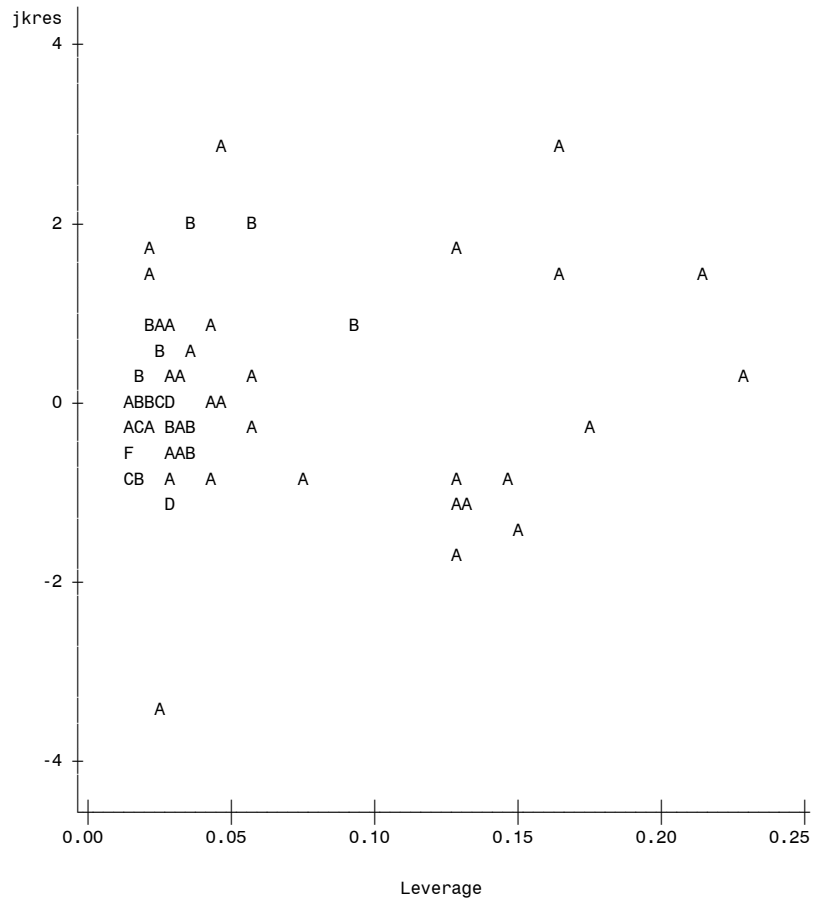
*The REG Procedure*  
*Model: MODEL1*  
*Partial Regression Residual Plot*



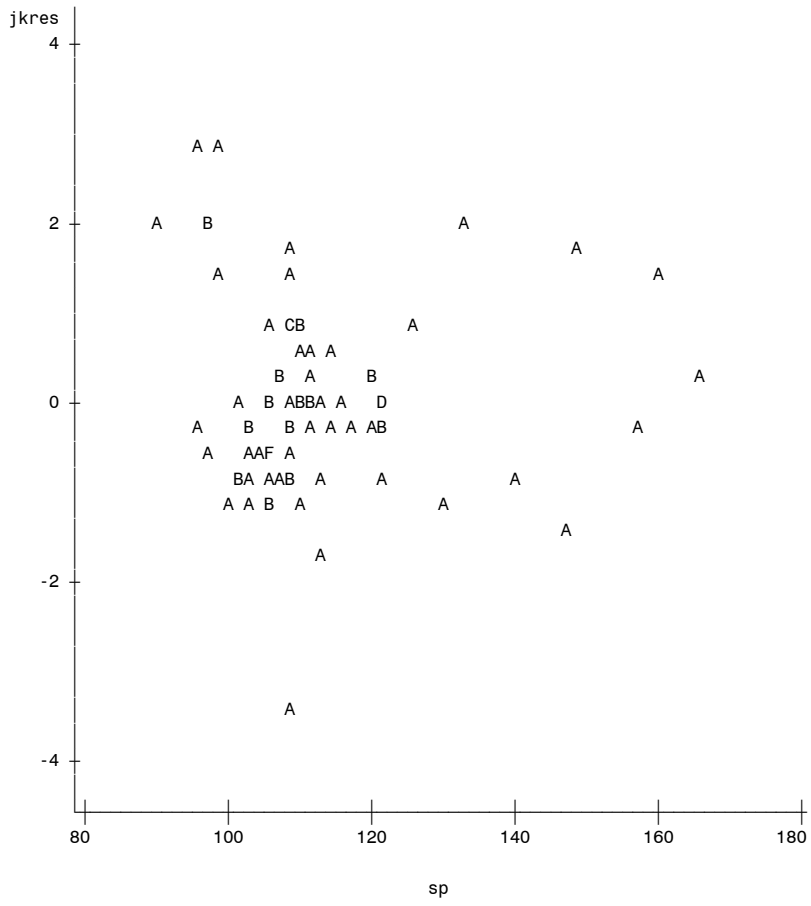
Plot of jkres\*pred. Legend: A = 1 obs, B = 2 obs, etc.



Plot of jkres\*hat. Legend: A = 1 obs, B = 2 obs, etc.



Plot of jkres\*sp. Legend: A = 1 obs, B = 2 obs, etc.



Plot of jkres\*wt. Legend: A = 1 obs, B = 2 obs, etc.

