

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	hpsvol	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	Audi200QuattroWag	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	SBC	SSE	Variables in Model
1	0.9005	87.5687	-381.3345	-376.52106	0.74641	wt
1	0.8842	114.7723	-368.8604	-364.04691	0.86905	wt2
1	0.8784	124.3276	-364.8933	-360.07988	0.91212	spwt
1	0.7925	267.4556	-321.0253	-316.21186	1.55737	hpwt
1	0.7344	364.0888	-300.8003	-295.98684	1.99300	hp
2	0.9202	56.8688	-397.3765	-390.15632	0.59899	hp2 spwt
2	0.9179	60.6616	-395.0685	-387.84836	0.61609	sp wt
2	0.9179	60.6625	-395.0680	-387.84780	0.61610	hpsp spwt
2	0.9153	64.9094	-392.5585	-385.33838	0.63524	wt sp2
2	0.9152	65.0966	-392.4497	-385.22953	0.63608	hp wt
3	0.9261	48.9470	-401.7404	-392.11349	0.55426	sp sp2 spwt
3	0.9256	49.8105	-401.1665	-391.53962	0.55816	sp wt sp2
3	0.9242	52.1363	-399.6404	-390.01349	0.56864	sp hpsp spwt
3	0.9233	53.6298	-398.6752	-389.04830	0.57537	lowvol hp2 spwt
3	0.9230	54.1430	-398.3461	-388.71922	0.57769	hp wt hpsp
4	0.9326	40.2034	-407.2384	-395.20485	0.50583	sp wt hp2 hpsp
4	0.9299	44.7019	-404.0151	-391.98150	0.52611	sp wt hp2 sp2
4	0.9297	44.9436	-403.8454	-391.81184	0.52720	sp wt hihp sp2
4	0.9288	46.4848	-402.7718	-390.73821	0.53415	sp lowvol sp2 spwt
4	0.9287	46.6218	-402.6771	-390.64349	0.53476	sp hp2 hpsp spwt
5	0.9410	28.2867	-416.0973	-401.65696	0.44309	sp wt hp2 wt2 hpsp
5	0.9406	28.8650	-415.6162	-401.17591	0.44570	sp hp2 wt2 hpsp spwt
5	0.9404	29.1882	-415.3486	-400.90825	0.44716	hp2 sp2 wt2 hpsp spwt
5	0.9397	30.3128	-414.4241	-399.98380	0.45223	sp wt hp2 sp2 hpwt
5	0.9397	30.3274	-414.4122	-399.97188	0.45229	hp sp wt sp2 hpsp
6	0.9449	23.6747	-419.8080	-402.96093	0.41328	sp wt lowvol hp2 wt2 hpsp
6	0.9438	25.4899	-418.2002	-401.35314	0.42147	lowvol hp2 sp2 wt2 hpsp spwt

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

R-Square Selection Method

Number in Model	R-Square	C(p)	AIC	SBC	SSE	Variables in Model
6	0.9437	25.6364	-418.0718	-401.22477	0.42213	sp wt hp2 wt2 hpsp hpwt
6	0.9436	25.8334	-417.8995	-401.05246	0.42301	hp sp wt hp2 sp2 wt2
6	0.9436	25.8550	-417.8805	-401.03351	0.42311	sp wt hp2 sp2 wt2 hpsp
7	0.9468	22.4739	-420.7221	-401.46838	0.39885	sp wt lowvol hp2 wt2 hpsp hpwt
7	0.9466	22.8230	-420.3993	-401.14551	0.40043	sp wt lowvol hp2 sp2 wt2 hpsp
7	0.9466	22.9147	-420.3146	-401.06084	0.40084	hp sp wt lowvol hp2 wt2 hpsp
7	0.9465	23.0218	-420.2159	-400.96218	0.40132	hp sp wt lowvol hp2 sp2 wt2
7	0.9465	23.1126	-420.1323	-400.87853	0.40173	sp wt lowvol hp2 wt2 hpsp spwt
8	0.9484	21.8357	-421.2045	-399.54398	0.38696	sp wt lowvol hp2 wt2 hpsp hpvol hpwt
8	0.9484	21.9167	-421.1272	-399.46671	0.38733	sp lowvol hp2 wt2 vol2 hpsp spvol spwt
8	0.9484	21.9361	-421.1087	-399.44820	0.38741	hp sp wt lowvol hp2 sp2 wt2 spvol
8	0.9484	21.9713	-421.0751	-399.41460	0.38757	hp sp wt lowvol hp2 sp2 wt2 hpvol
8	0.9483	22.0802	-420.9713	-399.31079	0.38806	sp wt lowvol hp2 sp2 wt2 hpsp hpvol
9	0.9544	13.8531	-429.3427	-405.27551	0.34196	vol sp hp2 hpsp hpvol hpwt spvol spwt wtvol
9	0.9541	14.3884	-428.7661	-404.69886	0.34437	vol sp wt hp2 wt2 hpsp hpvol spvol wtvol
9	0.9530	16.2360	-426.8063	-402.73912	0.35270	vol hp sp wt sp2 hpsp hpvol spvol wtvol
9	0.9525	17.0884	-425.9177	-401.85053	0.35654	vol sp lowvol hp2 wt2 hpsp hpvol spvol spwt
9	0.9520	17.8309	-425.1515	-401.08432	0.35989	vol sp wt hp2 hpsp hpvol hpwt spvol wtvol
10	0.9560	13.1876	-430.2760	-403.80210	0.32994	vol hp sp wt sp2 wt2 hpsp hpvol spvol wtvol
10	0.9559	13.4838	-429.9449	-403.47098	0.33128	vol sp wt lowvol hp2 wt2 hpsp hpvol spvol wtvol
10	0.9556	13.8607	-429.5254	-403.05145	0.33298	vol hp sp wt sp2 hpsp hpvol hpwt spvol wtvol
10	0.9555	14.0134	-429.3559	-402.88203	0.33366	vol hp sp wt hp2 sp2 hpsp hpvol spvol wtvol
10	0.9555	14.0731	-429.2898	-402.81592	0.33393	vol hp sp wt hp2 sp2 wt2 hpvol spvol wtvol
11	0.9575	12.7884	-431.0091	-402.12847	0.31913	vol hp sp wt lowvol sp2 wt2 hpsp hpvol spvol wtvol
11	0.9570	13.5344	-430.1495	-401.26886	0.32249	vol hp sp wt lowvol hp2 sp2 wt2 hpvol spvol wtvol
11	0.9569	13.7543	-429.8978	-401.01716	0.32348	vol hp sp wt hihp sp2 wt2 hpsp hpvol spvol wtvol
11	0.9568	13.9342	-429.6926	-400.81192	0.32429	vol hp sp wt lowvol sp2 hpsp hpvol hpwt spvol wtvol
11	0.9567	14.1027	-429.5007	-400.62007	0.32505	vol hp sp wt lowvol hp2 sp2 hpsp hpvol spvol wtvol
12	0.9581	13.6640	-430.3220	-399.03470	0.31406	vol hp sp wt lowvol hihp sp2 wt2 hpsp hpvol spvol wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

R-Square Selection Method

Number in Model	R-Square	C(p)	AIC	SBC	SSE	Variables in Model
12	0.9577	14.4172	-429.4403	-398.15298	0.31745	vol hp sp wt lowvol sp2 wt2 hpsp hpvol hpwt spvol wtvol
12	0.9577	14.4673	-429.3820	-398.09463	0.31768	vol hp sp wt lowvol sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	0.9576	14.5175	-429.3236	-398.03622	0.31790	vol hp sp wt lowvol hihp sp2 hpsp hpvol hpwt spvol wtvol
12	0.9576	14.5317	-429.3070	-398.01969	0.31797	vol hp sp wt lowvol hihp hp2 sp2 hpsp hpvol spvol wtvol
13	0.9592	13.8316	-430.5079	-396.81384	0.30579	vol hp sp wt hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
13	0.9584	15.2556	-428.8042	-395.11017	0.31221	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol spvol wtvol
13	0.9582	15.5187	-428.4933	-394.79924	0.31340	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol spvol wtvol
13	0.9582	15.5368	-428.4720	-394.77792	0.31348	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt
13	0.9582	15.5942	-428.4043	-394.71027	0.31374	vol hp sp wt lowvol hihp sp2 wt2 hpsp hpvol hpwt spvol wtvol
14	0.9607	13.4779	-431.4037	-395.30295	0.29518	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
14	0.9598	14.9905	-429.5309	-393.43015	0.30200	vol hp sp wt hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
14	0.9593	15.8177	-428.5246	-392.42383	0.30573	vol hp sp wt hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
14	0.9585	17.1024	-426.9859	-390.88507	0.31152	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
14	0.9584	17.1708	-426.9047	-390.80390	0.31183	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
15	0.9609	15.0154	-429.9850	-391.47750	0.29310	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
15	0.9607	15.4656	-429.4191	-390.91161	0.29513	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
15	0.9598	16.9904	-427.5312	-389.02365	0.30200	vol hp sp wt hihp hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
15	0.9586	18.8821	-425.2477	-386.74021	0.31053	vol hp sp wt lowvol hihp hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
15	0.9585	19.1022	-424.9861	-386.47855	0.31152	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
16	0.9609	17.0000	-428.0044	-387.09018	0.29303	vol hp sp wt lowvol hihp hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol

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	16	7.21088	0.45068	99.97	<.0001
Error	65	0.29303	0.00451		
Corrected Total	81	7.50390			

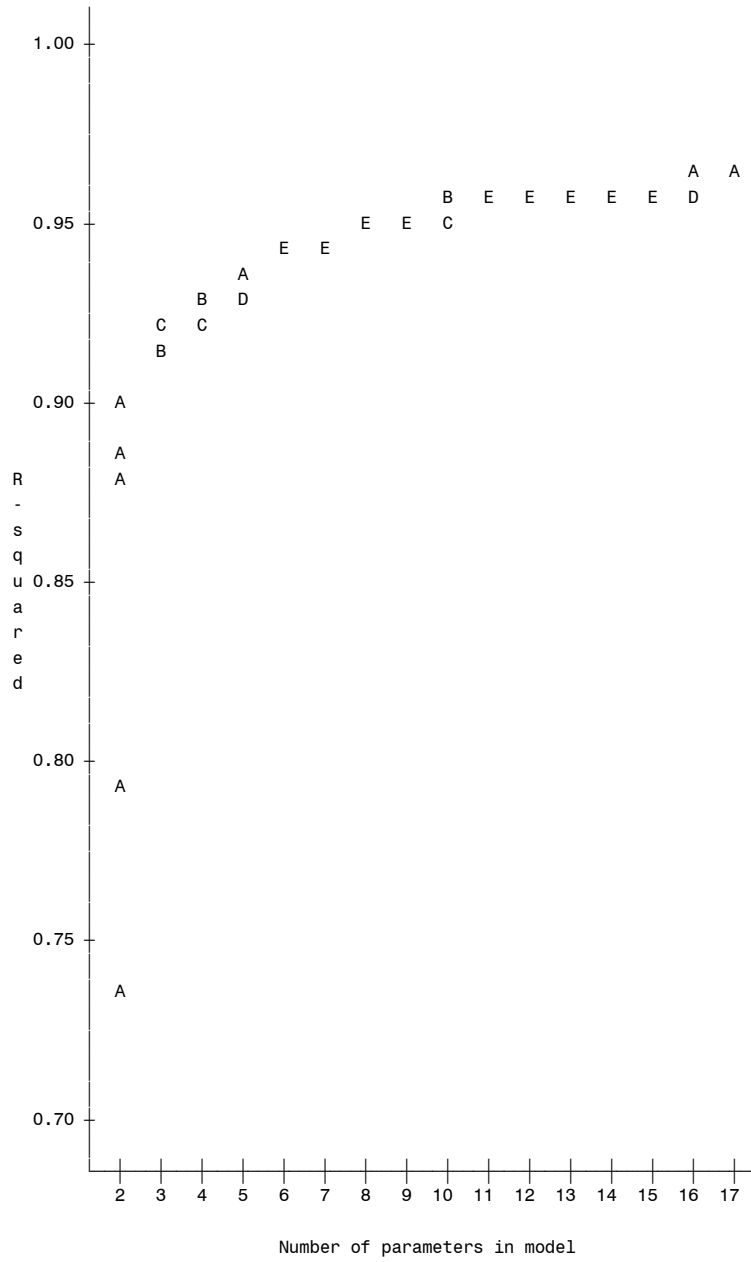
Root MSE	0.06714	R-Square	0.9609
Dependent Mean	3.47571	Adj R-Sq	0.9513
Coeff Var	1.93177		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	82.11021	27.42109	2.99	0.0039	0
vol	1	-0.06798	0.02459	-2.76	0.0074	5339.41301
hp	1	0.46592	0.19331	2.41	0.0188	2169353
sp	1	-1.49500	0.56417	-2.65	0.0101	1126961
wt	1	-1.07600	0.47144	-2.28	0.0257	264686
lowvol	1	0.16449	0.11659	1.41	0.1631	24.15903
hihp	1	0.01225	0.09875	0.12	0.9017	13.84857
hp2	1	0.00067099	0.00033129	2.03	0.0469	734312
sp2	1	0.00712	0.00290	2.46	0.0166	1888673
wt2	1	0.00494	0.00224	2.20	0.0311	26683
vol2	1	-0.00002413	0.00003537	-0.68	0.4974	389.95319
hpsp	1	-0.00431	0.00196	-2.20	0.0314	6164031
hpsvol	1	-0.00022634	0.00007811	-2.90	0.0051	4362.20459
hpwt	1	-0.00343	0.00169	-2.03	0.0462	466725
spvol	1	0.00075629	0.00024079	3.14	0.0025	8721.14411

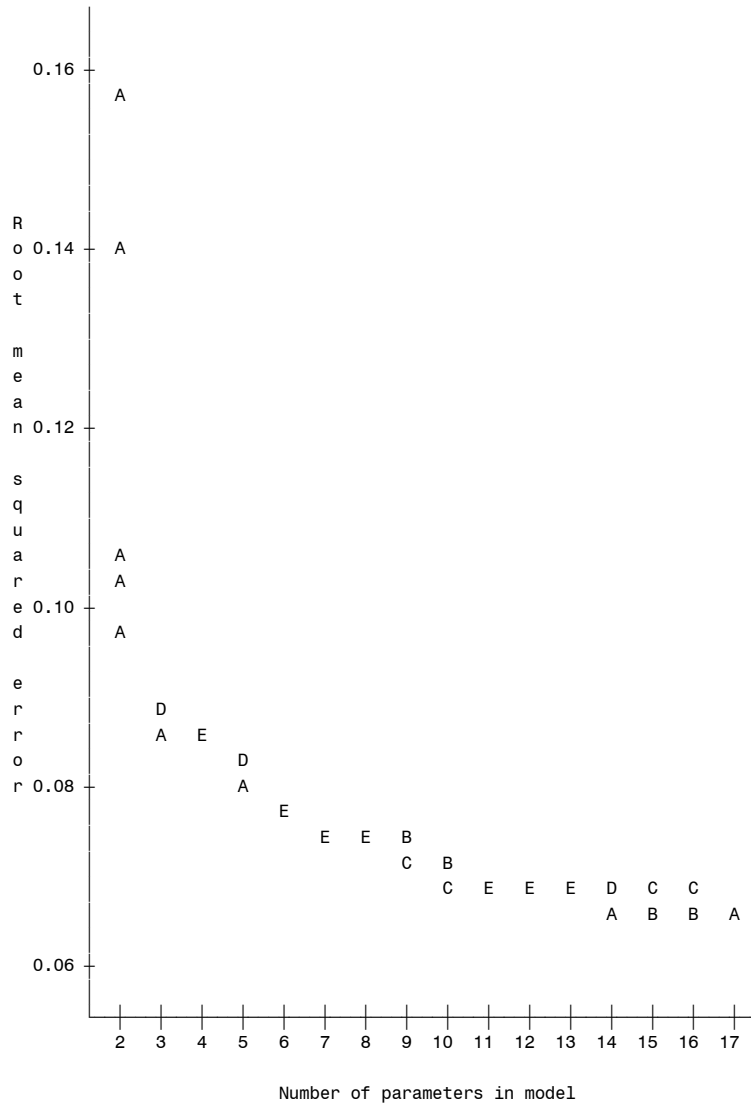
The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
spwt	1	0.00949	0.00481	1.97	0.0531	736390
wtvol	1	0.00048783	0.00022940	2.13	0.0373	1626.72649

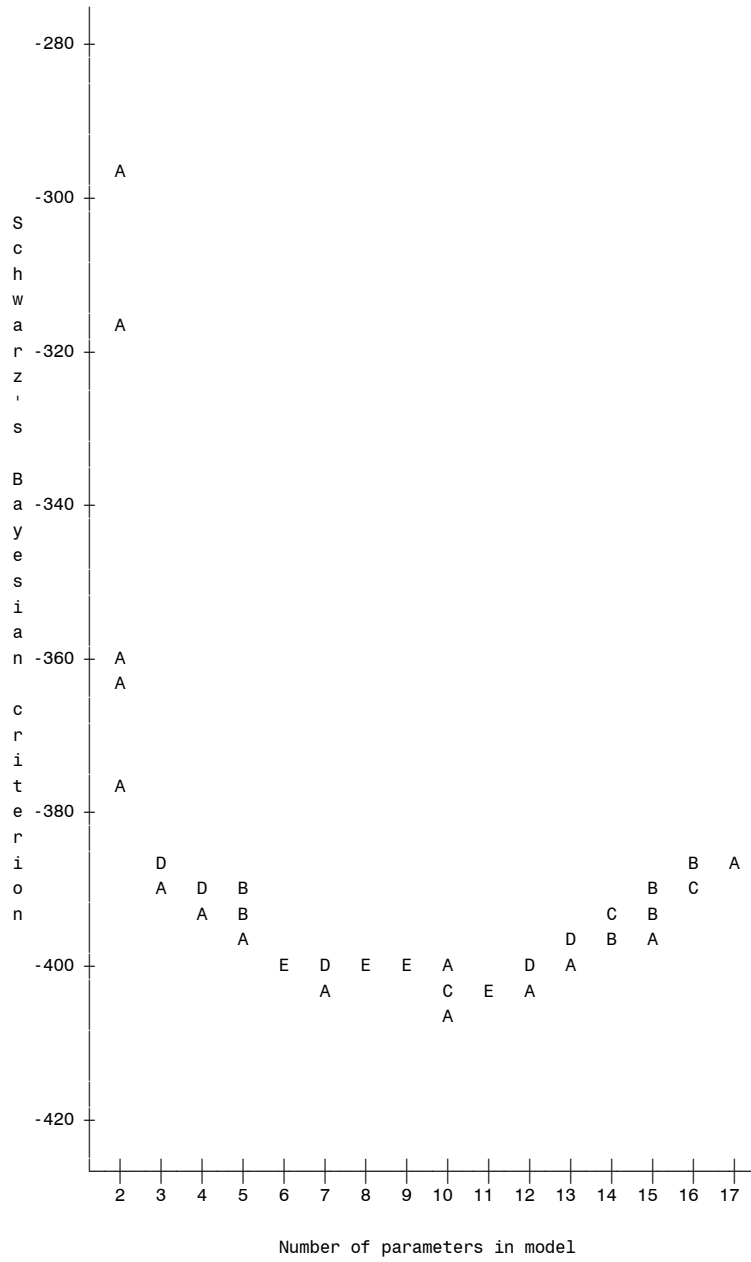
Plot of _RSQ*_P_. Legend: A = 1 obs, B = 2 obs, etc.



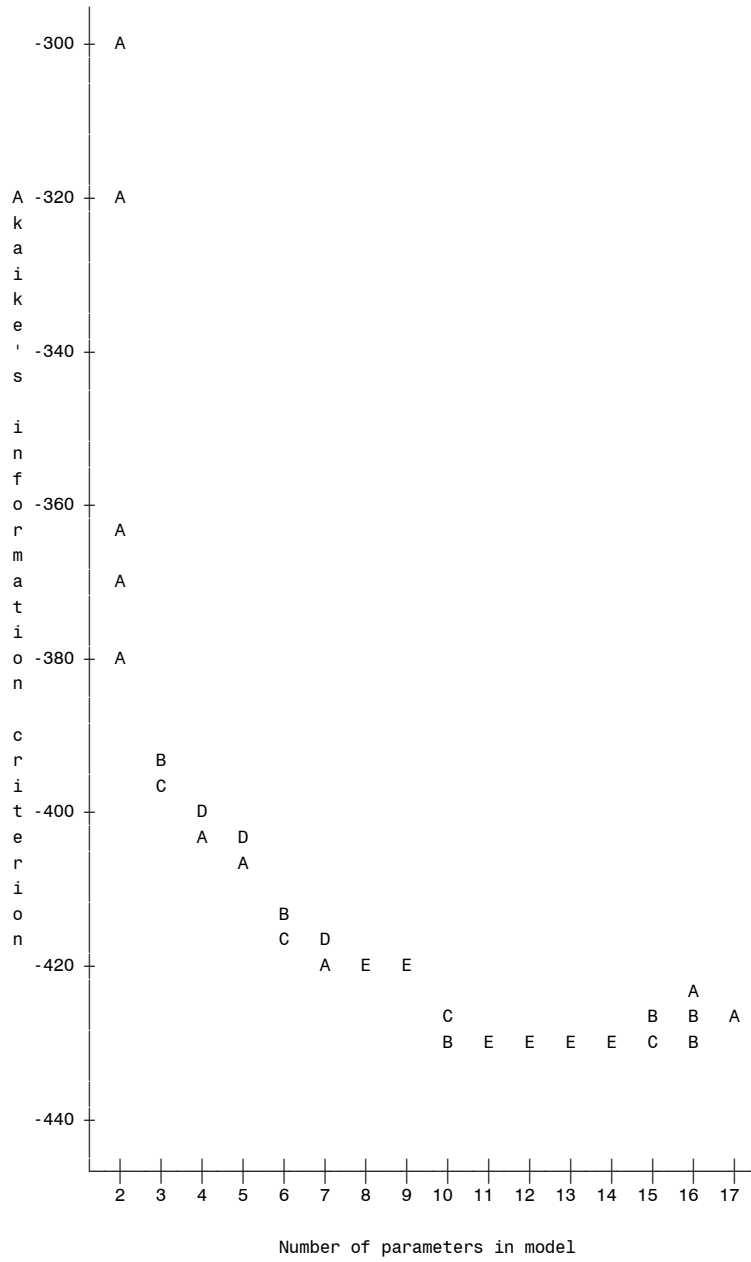
Plot of _RMSE*_P_. Legend: A = 1 obs, B = 2 obs, etc.



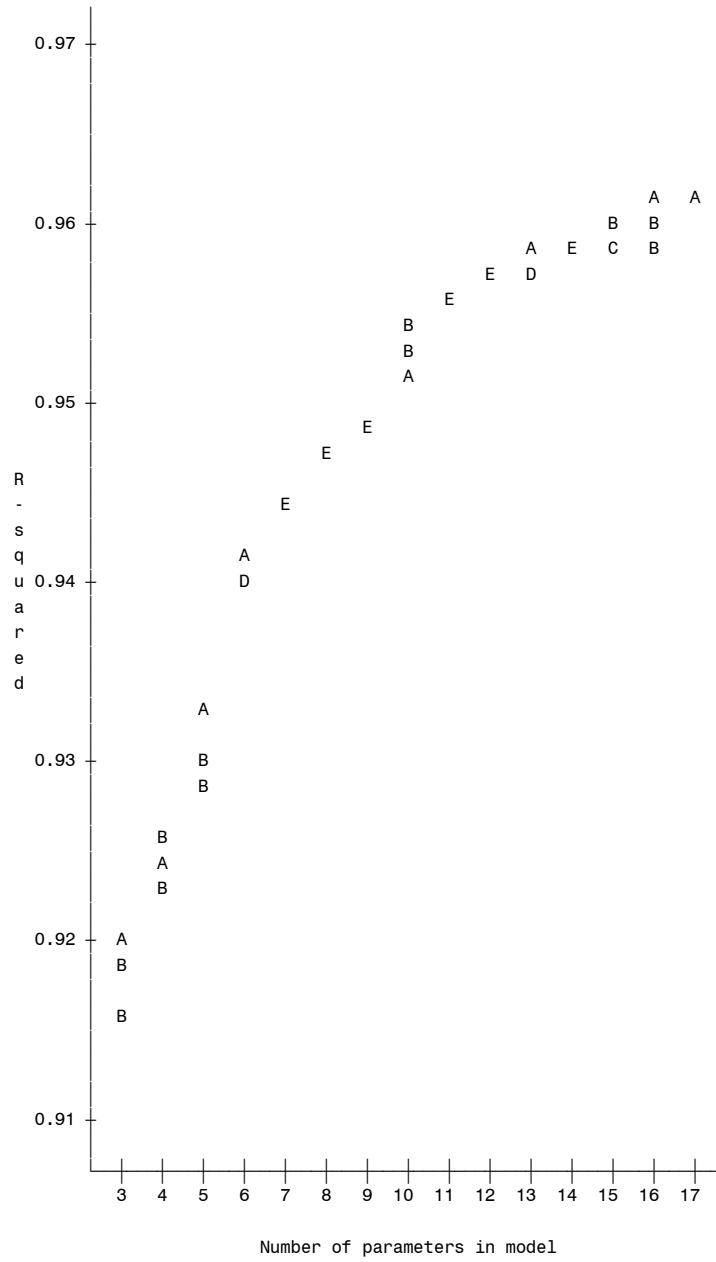
Plot of _SBC*_P_. Legend: A = 1 obs, B = 2 obs, etc.



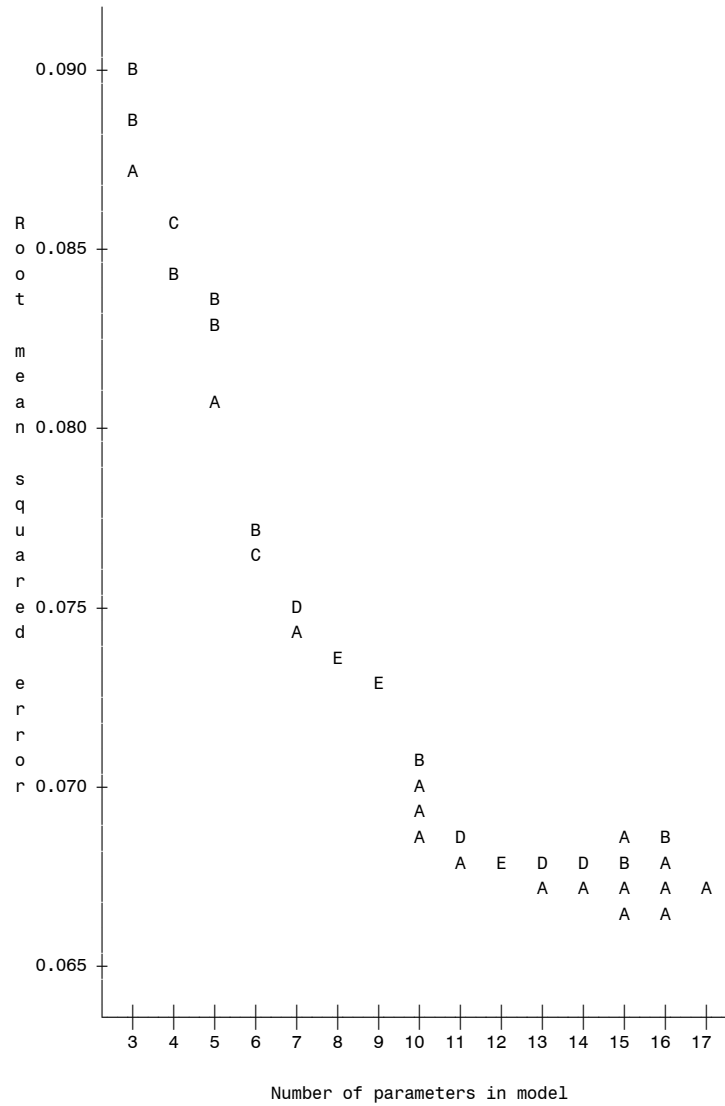
Plot of `_AIC*_P_`. Legend: A = 1 obs, B = 2 obs, etc.



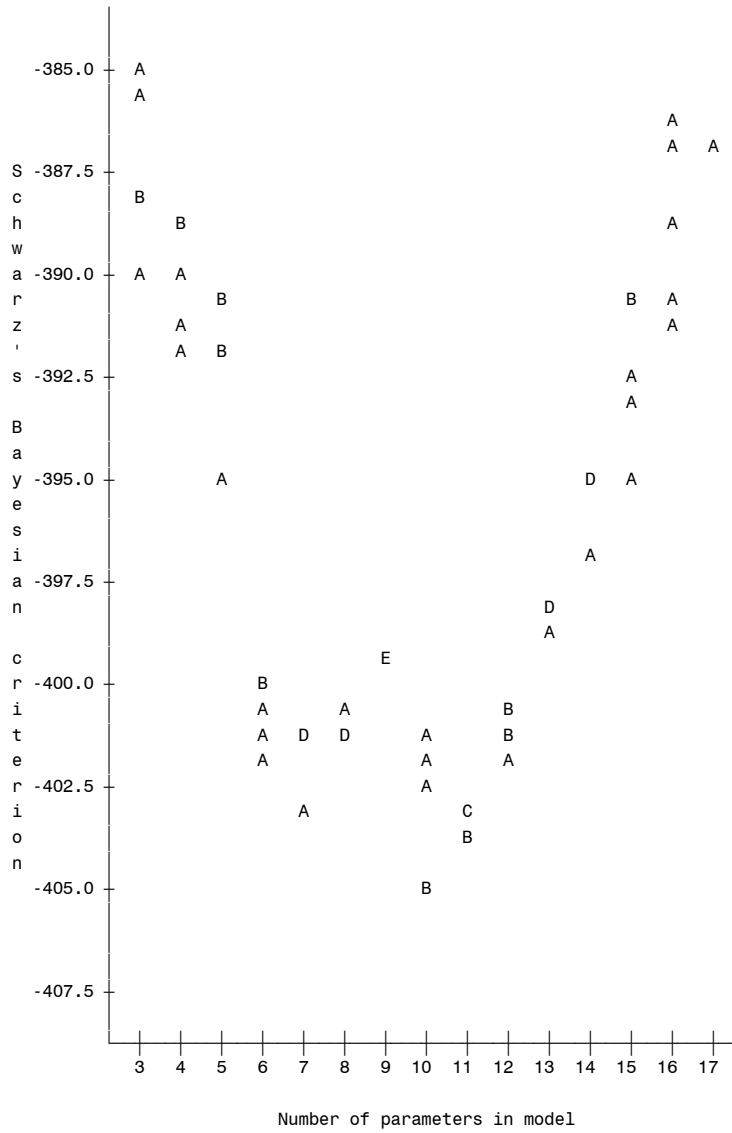
Plot of _RSQ*_P_. Legend: A = 1 obs, B = 2 obs, etc.



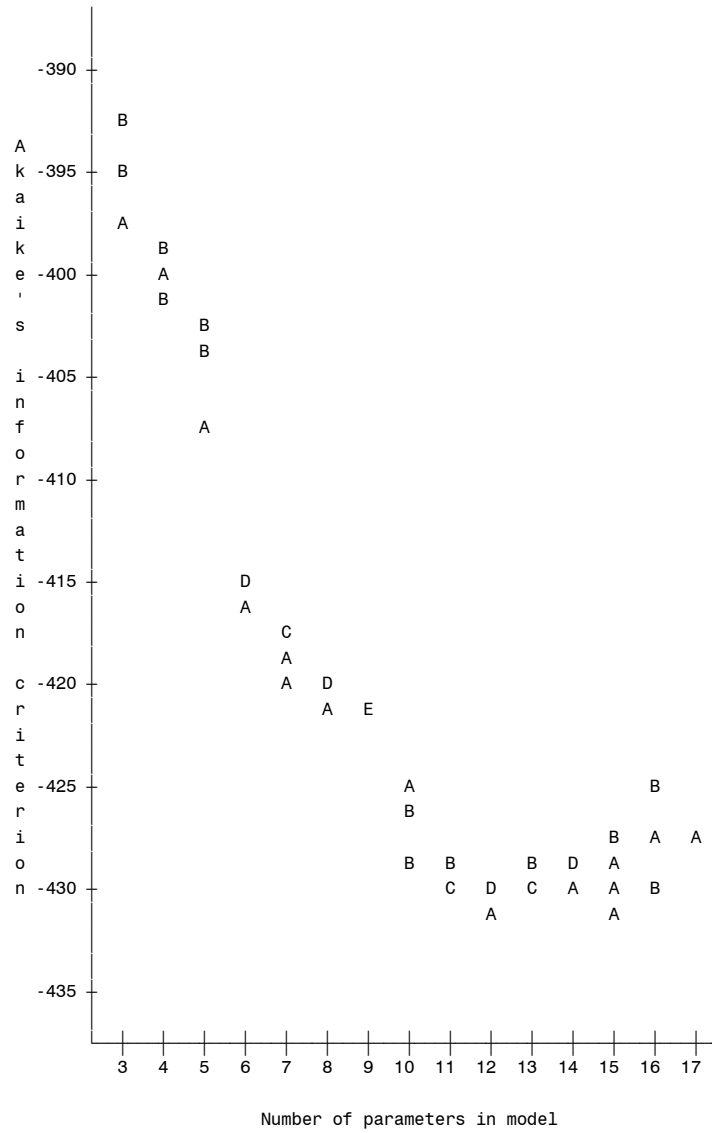
Plot of _RMSE*_P_. Legend: A = 1 obs, B = 2 obs, etc.



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 REG Procedure
Model: MODEL1
Dependent Variable: Impg

Number of Observations Read	82
Number of Observations Used	82

Stepwise Selection: Step 1

Variable wt Entered: R-Square = 0.9005 and C(p) = 87.5687

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	6.75750	6.75750	724.27	<.0001
Error	80	0.74641	0.00933		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.57248	0.04213	109.92158	11781.4	<.0001
wt	-0.03548	0.00132	6.75750	724.27	<.0001

Bounds on condition number: 1, 1

Stepwise Selection: Step 2

Variable sp Entered: R-Square = 0.9179 and C(p) = 60.6616

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6.88781	3.44391	441.60	<.0001
Error	79	0.61609	0.00780		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Stepwise Selection: Step 2

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.86906	0.08214	27.40243	3513.75	<.0001
sp	-0.00389	0.00095156	0.13032	16.71	0.0001
wt	-0.03093	0.00164	2.77082	355.30	<.0001

Bounds on condition number: 1.8533, 7.413

Stepwise Selection: Step 3

Variable sp2 Entered: R-Square = 0.9256 and C(p) = 49.8105

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.94575	2.31525	323.55	<.0001
Error	78	0.55816	0.00716		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.34210	0.52364	1.04969	146.69	<.0001
sp	-0.02819	0.00859	0.07708	10.77	0.0015
wt	-0.02933	0.00167	2.20896	308.69	<.0001
sp2	0.00009428	0.00003313	0.05793	8.10	0.0057

Bounds on condition number: 164.61, 966.8

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Stepwise Selection: Step 4

Variable hp2 Entered: R-Square = 0.9299 and C(p) = 44.7019

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	6.97780	1.74445	255.31	<.0001
Error	77	0.52611	0.00683		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	7.61674	0.77988	0.65173	95.39	<.0001
sp	-0.05763	0.01598	0.08892	13.01	0.0005
wt	-0.02343	0.00318	0.37171	54.40	<.0001
hp2	-0.00000928	0.00000429	0.03205	4.69	0.0334
sp2	0.00025086	0.00007922	0.06852	10.03	0.0022

Bounds on condition number: 931.3, 6466.5

Stepwise Selection: Step 5

Variable hpwt Entered: R-Square = 0.9397 and C(p) = 30.3128

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.05168	1.41034	237.02	<.0001
Error	76	0.45223	0.00595		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Stepwise Selection: Step 5

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	12.87035	1.65906	0.35809	60.18	<.0001
sp	-0.15484	0.03136	0.14509	24.38	<.0001
wt	-0.04392	0.00653	0.26935	45.27	<.0001
hp2	-0.00005736	0.00001422	0.09685	16.28	0.0001
sp2	0.00072883	0.00015448	0.13245	22.26	<.0001
hpwt	0.00024677	0.00007003	0.07388	12.42	0.0007

Bounds on condition number: 4066.5, 41889

Stepwise Selection: Step 6

Variable hihp Entered: R-Square = 0.9433 and C(p) = 26.4092

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.07829	1.17972	207.89	<.0001
Error	75	0.42561	0.00567		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	13.50516	1.64650	0.38179	67.28	<.0001
sp	-0.16348	0.03088	0.15903	28.02	<.0001
wt	-0.05036	0.00703	0.29084	51.25	<.0001
hihp	-0.17845	0.08240	0.02661	4.69	0.0335
hp2	-0.00005872	0.00001390	0.10129	17.85	<.0001
sp2	0.00076129	0.00015160	0.14310	25.22	<.0001
hpwt	0.00028609	0.00007076	0.09277	16.35	0.0001

Bounds on condition number: 4106.6, 51143

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Stepwise Selection: Step 7

Variable lowvol Entered: R-Square = 0.9451 and C(p) = 25.3261

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	7.09219	1.01317	182.10	<.0001
Error	74	0.41171	0.00556		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	13.24514	1.63858	0.36353	65.34	<.0001
sp	-0.15896	0.03071	0.14907	26.79	<.0001
wt	-0.04910	0.00701	0.27289	49.05	<.0001
lowvol	0.04674	0.02957	0.01390	2.50	0.1182
hihp	-0.16850	0.08183	0.02359	4.24	0.0430
hp2	-0.00005759	0.00001378	0.09715	17.46	<.0001
sp2	0.00073936	0.00015075	0.13383	24.05	<.0001
hpwt	0.00027849	0.00007023	0.08749	15.72	0.0002

Bounds on condition number: 4141.7, 60131

Stepwise Selection: Step 8

Variable hp Entered: R-Square = 0.9474 and C(p) = 23.5272

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	7.10932	0.88866	164.41	<.0001
Error	73	0.39459	0.00541		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Stepwise Selection: Step 8

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.20573	1.95492	0.32702	60.50	<.0001
hp	0.01173	0.00659	0.01713	3.17	0.0792
sp	-0.18245	0.03302	0.16502	30.53	<.0001
wt	-0.06491	0.01125	0.17982	33.27	<.0001
lowvol	0.05439	0.02946	0.01842	3.41	0.0689
hihp	-0.14948	0.08137	0.01824	3.38	0.0703
hp2	-0.00006499	0.00001421	0.11312	20.93	<.0001
sp2	0.00074663	0.00014865	0.13637	25.23	<.0001
hpwt	0.00023431	0.00007354	0.05488	10.15	0.0021

Bounds on condition number: 4144.8, 91758

Stepwise Selection: Step 9

Variable hpvol Entered: R-Square = 0.9489 and C(p) = 23.0241

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	7.12060	0.79118	148.62	<.0001
Error	72	0.38330	0.00532		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.77248	1.96279	0.30156	56.64	<.0001
hp	0.01052	0.00659	0.01355	2.55	0.1150
sp	-0.17512	0.03315	0.14853	27.90	<.0001
wt	-0.06199	0.01135	0.15885	29.84	<.0001
lowvol	0.09696	0.04135	0.02927	5.50	0.0218
hihp	-0.13100	0.08174	0.01367	2.57	0.1134
hp2	-0.00005987	0.00001453	0.09038	16.98	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Stepwise Selection: Step 9

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
sp2	0.00071607	0.00014901	0.12294	23.09	<.0001
hpvol	0.00000585	0.00000402	0.01128	2.12	0.1498
hpwt	0.00020744	0.00007528	0.04043	7.59	0.0074

Bounds on condition number: 4228.8, 106168

All variables left in the model are significant at the 0.1500 level.

No other variable met the 0.1500 significance level for entry into the model.

Summary of Stepwise Selection								
Step	Variable Entered	Variable Removed	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	wt		1	0.9005	0.9005	87.5687	724.27	<.0001
2	sp		2	0.0174	0.9179	60.6616	16.71	0.0001
3	sp2		3	0.0077	0.9256	49.8105	8.10	0.0057
4	hp2		4	0.0043	0.9299	44.7019	4.69	0.0334
5	hpwt		5	0.0098	0.9397	30.3128	12.42	0.0007
6	hihp		6	0.0035	0.9433	26.4092	4.69	0.0335
7	lowvol		7	0.0019	0.9451	25.3261	2.50	0.1182
8	hp		8	0.0023	0.9474	23.5272	3.17	0.0792
9	hpvol		9	0.0015	0.9489	23.0241	2.12	0.1498

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	9	7.12060	0.79118	148.62	<.0001
Error	72	0.38330	0.00532		
Corrected Total	81	7.50390			

Root MSE	0.07296	R-Square	0.9489
Dependent Mean	3.47571	Adj R-Sq	0.9425
Coeff Var	2.09923		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	14.77248	1.96279	7.53	<.0001	0
hp	1	0.01052	0.00659	1.60	0.1150	2137.28133
sp	1	-0.17512	0.03315	-5.28	<.0001	3295.73763
wt	1	-0.06199	0.01135	-5.46	<.0001	129.87158
lowvol	1	0.09696	0.04135	2.34	0.0218	2.57327
hihp	1	-0.13100	0.08174	-1.60	0.1134	8.03553
hp2	1	-0.00005987	0.00001453	-4.12	<.0001	1196.24481
sp2	1	0.00071607	0.00014901	4.81	<.0001	4228.75730
hpvol	1	0.00000585	0.00000402	1.46	0.1498	9.76382
hpwt	1	0.00020744	0.00007528	2.76	0.0074	788.18169

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	vol	hp	sp
1	MODEL1	PARMS	lmpg	0.072963	0.59976	14.7725	.	0.010520	-0.17512

Obs	wt	lowvol	hihp	hp2	sp2	wt2	vol2	hpsp	hpvol	hpwt
1	-0.061988	0.096961	-0.13100	-.00005987	.000716066000005846	.000207441

Obs	spvol	spwt	wtvol	lmpg	_IN_	_P_	_EDF_	_RSQ_	_CP_	_SBC_
1	.	.	.	-1	9	10	72	0.94892	23.0241	-395.916

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Number of Observations Read	82
Number of Observations Used	82

Backward Elimination: Step 0

All Variables Entered: R-Square = 0.9609 and C(p) = 17.0000

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	7.21088	0.45068	99.97	<.0001
Error	65	0.29303	0.00451		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	82.11021	27.42109	0.04042	8.97	0.0039
vol	-0.06798	0.02459	0.03445	7.64	0.0074
hp	0.46592	0.19331	0.02619	5.81	0.0188
sp	-1.49500	0.56417	0.03166	7.02	0.0101
wt	-1.07600	0.47144	0.02348	5.21	0.0257
lowvol	0.16449	0.11659	0.00897	1.99	0.1631
hihp	0.01225	0.09875	0.00006934	0.02	0.9017
hp2	0.00067099	0.00033129	0.01849	4.10	0.0469
sp2	0.00712	0.00290	0.02725	6.05	0.0166
wt2	0.00494	0.00224	0.02190	4.86	0.0311
vol2	-0.00002413	0.00003537	0.00210	0.47	0.4974
hpsp	-0.00431	0.00196	0.02182	4.84	0.0314
hpvol	-0.00022634	0.00007811	0.03786	8.40	0.0051
hpwt	-0.00343	0.00169	0.01863	4.13	0.0462
spvol	0.00075629	0.00024079	0.04447	9.86	0.0025
spwt	0.00949	0.00481	0.01750	3.88	0.0531
wtvol	0.00048783	0.00022940	0.02039	4.52	0.0373

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Backward Elimination: Step 1

Bounds on condition number: 5079541, 166632105

Backward Elimination: Step 2

Variable vol2 Removed: R-Square = 0.9607 and C(p) = 13.4779

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	7.20872	0.51491	116.87	<.0001
Error	67	0.29518	0.00441		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	81.33324	24.61872	0.04809	10.91	0.0015
vol	-0.07174	0.02370	0.04036	9.16	0.0035
hp	0.45675	0.17168	0.03118	7.08	0.0098
sp	-1.48089	0.51046	0.03708	8.42	0.0050
wt	-1.03556	0.40086	0.02940	6.67	0.0120
lowvol	0.09687	0.06242	0.01061	2.41	0.1254
hp2	0.00065631	0.00029304	0.02210	5.02	0.0284
sp2	0.00708	0.00264	0.03163	7.18	0.0093
wt2	0.00469	0.00185	0.02821	6.40	0.0137
hpsp	-0.00425	0.00176	0.02576	5.85	0.0183
hpvol	-0.00022018	0.00007671	0.03630	8.24	0.0055
hpwt	-0.00329	0.00142	0.02358	5.35	0.0238
spvol	0.00075280	0.00023799	0.04408	10.01	0.0023
spwt	0.00919	0.00414	0.02168	4.92	0.0299
wtvol	0.00043257	0.00021226	0.01830	4.15	0.0455

Bounds on condition number: 5073916, 155334270

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Backward Elimination: Step 3

Variable lowvol Removed: R-Square = 0.9592 and C(p) = 13.8316

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	7.19811	0.55370	123.13	<.0001
Error	68	0.30579	0.00450		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	84.06640	24.80863	0.05164	11.48	0.0012
vol	-0.08051	0.02325	0.05391	11.99	0.0009
hp	0.47091	0.17321	0.03324	7.39	0.0083
sp	-1.52819	0.51480	0.03963	8.81	0.0041
wt	-1.06887	0.40441	0.03141	6.99	0.0102
hp2	0.00067370	0.00029584	0.02332	5.19	0.0259
sp2	0.00731	0.00267	0.03376	7.51	0.0078
wt2	0.00454	0.00187	0.02651	5.89	0.0178
hpsp	-0.00438	0.00177	0.02748	6.11	0.0159
hpvol	-0.00024727	0.00007546	0.04828	10.74	0.0017
hpwt	-0.00332	0.00144	0.02408	5.35	0.0237
spvol	0.00080592	0.00023794	0.05159	11.47	0.0012
spwt	0.00949	0.00418	0.02321	5.16	0.0263
wtvol	0.00058367	0.00019055	0.04219	9.38	0.0031

Bounds on condition number: 5061522, 143857903

All variables left in the model are significant at the 0.1000 level.

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Summary of Backward Elimination							
Step	Variable Removed	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	hihp	15	0.0000	0.9609	15.0154	0.02	0.9017
2	vo12	14	0.0003	0.9607	13.4779	0.47	0.4956
3	lowvol	13	0.0014	0.9592	13.8316	2.41	0.1254

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	13	7.19811	0.55370	123.13	<.0001
Error	68	0.30579	0.00450		
Corrected Total	81	7.50390			

Root MSE	0.06706	R-Square	0.9592
Dependent Mean	3.47571	Adj R-Sq	0.9515
Coeff Var	1.92938		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	84.06640	24.80863	3.39	0.0012	0
vol	1	-0.08051	0.02325	-3.46	0.0009	4785.66358
hp	1	0.47091	0.17321	2.72	0.0083	1745848
sp	1	-1.52819	0.51480	-2.97	0.0041	940672
wt	1	-1.06887	0.40441	-2.64	0.0102	195256
hp2	1	0.00067370	0.00029584	2.28	0.0259	587026
sp2	1	0.00731	0.00267	2.74	0.0078	1602973
wt2	1	0.00454	0.00187	2.43	0.0178	18657
hpsp	1	-0.00438	0.00177	-2.47	0.0159	5061522
hpvol	1	-0.00024727	0.00007546	-3.28	0.0017	4082.10747
hpwt	1	-0.00332	0.00144	-2.31	0.0237	339560
spvol	1	0.00080592	0.00023794	3.39	0.0012	8536.98213
spwt	1	0.00949	0.00418	2.27	0.0263	555948
wtvol	1	0.00058367	0.00019055	3.06	0.0031	1125.21869

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	vol	hp	sp
1	MODEL1	PARMS	lmpg	0.067060	0.42477	84.0664	-0.080513	0.47091	-1.52819

Obs	wt	lowvol	hihp	hp2	sp2	wt2	vol2	hpsp	hpvol	hpwt
1	-1.06887	.	.	.000673698	.007305176	.004541879	.	-.004381354	-.00024727	-.003322999

Obs	spvol	spwt	wtvol	lmpg	_IN_	_P_	_EDF_	_RSQ_	_CP_	_SBC_
1	.000805916	.009493163	.000583671	-1	13	14	68	0.95925	13.8316	-396.814

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Number of Observations Read	82
Number of Observations Used	82

Forward Selection: Step 1

Variable wt Entered: R-Square = 0.9005 and C(p) = 87.5687

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	6.75750	6.75750	724.27	<.0001
Error	80	0.74641	0.00933		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.57248	0.04213	109.92158	11781.4	<.0001
wt	-0.03548	0.00132	6.75750	724.27	<.0001

Bounds on condition number: 1, 1

Forward Selection: Step 2

Variable sp Entered: R-Square = 0.9179 and C(p) = 60.6616

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6.88781	3.44391	441.60	<.0001
Error	79	0.61609	0.00780		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Forward Selection: Step 2

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.86906	0.08214	27.40243	3513.75	<.0001
sp	-0.00389	0.00095156	0.13032	16.71	0.0001
wt	-0.03093	0.00164	2.77082	355.30	<.0001

Bounds on condition number: 1.8533, 7.413

Forward Selection: Step 3

Variable sp2 Entered: R-Square = 0.9256 and C(p) = 49.8105

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.94575	2.31525	323.55	<.0001
Error	78	0.55816	0.00716		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.34210	0.52364	1.04969	146.69	<.0001
sp	-0.02819	0.00859	0.07708	10.77	0.0015
wt	-0.02933	0.00167	2.20896	308.69	<.0001
sp2	0.00009428	0.00003313	0.05793	8.10	0.0057

Bounds on condition number: 164.61, 966.8

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Forward Selection: Step 4

Variable hp2 Entered: R-Square = 0.9299 and C(p) = 44.7019

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	6.97780	1.74445	255.31	<.0001
Error	77	0.52611	0.00683		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	7.61674	0.77988	0.65173	95.39	<.0001
sp	-0.05763	0.01598	0.08892	13.01	0.0005
wt	-0.02343	0.00318	0.37171	54.40	<.0001
hp2	-0.00000928	0.00000429	0.03205	4.69	0.0334
sp2	0.00025086	0.00007922	0.06852	10.03	0.0022

Bounds on condition number: 931.3, 6466.5

Forward Selection: Step 5

Variable hpwt Entered: R-Square = 0.9397 and C(p) = 30.3128

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.05168	1.41034	237.02	<.0001
Error	76	0.45223	0.00595		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Forward Selection: Step 5

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	12.87035	1.65906	0.35809	60.18	<.0001
sp	-0.15484	0.03136	0.14509	24.38	<.0001
wt	-0.04392	0.00653	0.26935	45.27	<.0001
hp2	-0.00005736	0.00001422	0.09685	16.28	0.0001
sp2	0.00072883	0.00015448	0.13245	22.26	<.0001
hpwt	0.00024677	0.00007003	0.07388	12.42	0.0007

Bounds on condition number: 4066.5, 41889

Forward Selection: Step 6

Variable hihp Entered: R-Square = 0.9433 and C(p) = 26.4092

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.07829	1.17972	207.89	<.0001
Error	75	0.42561	0.00567		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	13.50516	1.64650	0.38179	67.28	<.0001
sp	-0.16348	0.03088	0.15903	28.02	<.0001
wt	-0.05036	0.00703	0.29084	51.25	<.0001
hihp	-0.17845	0.08240	0.02661	4.69	0.0335
hp2	-0.00005872	0.00001390	0.10129	17.85	<.0001
sp2	0.00076129	0.00015160	0.14310	25.22	<.0001
hpwt	0.00028609	0.00007076	0.09277	16.35	0.0001

Bounds on condition number: 4106.6, 51143

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Forward Selection: Step 7

Variable lowvol Entered: R-Square = 0.9451 and C(p) = 25.3261

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	7.09219	1.01317	182.10	<.0001
Error	74	0.41171	0.00556		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	13.24514	1.63858	0.36353	65.34	<.0001
sp	-0.15896	0.03071	0.14907	26.79	<.0001
wt	-0.04910	0.00701	0.27289	49.05	<.0001
lowvol	0.04674	0.02957	0.01390	2.50	0.1182
hihp	-0.16850	0.08183	0.02359	4.24	0.0430
hp2	-0.00005759	0.00001378	0.09715	17.46	<.0001
sp2	0.00073936	0.00015075	0.13383	24.05	<.0001
hpwt	0.00027849	0.00007023	0.08749	15.72	0.0002

Bounds on condition number: 4141.7, 60131

Forward Selection: Step 8

Variable hp Entered: R-Square = 0.9474 and C(p) = 23.5272

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	7.10932	0.88866	164.41	<.0001
Error	73	0.39459	0.00541		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Forward Selection: Step 8

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.20573	1.95492	0.32702	60.50	<.0001
hp	0.01173	0.00659	0.01713	3.17	0.0792
sp	-0.18245	0.03302	0.16502	30.53	<.0001
wt	-0.06491	0.01125	0.17982	33.27	<.0001
lowvol	0.05439	0.02946	0.01842	3.41	0.0689
hihp	-0.14948	0.08137	0.01824	3.38	0.0703
hp2	-0.00006499	0.00001421	0.11312	20.93	<.0001
sp2	0.00074663	0.00014865	0.13637	25.23	<.0001
hpwt	0.00023431	0.00007354	0.05488	10.15	0.0021

Bounds on condition number: 4144.8, 91758

Forward Selection: Step 9

Variable hpvol Entered: R-Square = 0.9489 and C(p) = 23.0241

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	7.12060	0.79118	148.62	<.0001
Error	72	0.38330	0.00532		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.77248	1.96279	0.30156	56.64	<.0001
hp	0.01052	0.00659	0.01355	2.55	0.1150
sp	-0.17512	0.03315	0.14853	27.90	<.0001
wt	-0.06199	0.01135	0.15885	29.84	<.0001
lowvol	0.09696	0.04135	0.02927	5.50	0.0218
hihp	-0.13100	0.08174	0.01367	2.57	0.1134
hp2	-0.00005987	0.00001453	0.09038	16.98	<.0001

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Forward Selection: Step 9

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
sp2	0.00071607	0.00014901	0.12294	23.09	<.0001
hpvol	0.00000585	0.00000402	0.01128	2.12	0.1498
hpwt	0.00020744	0.00007528	0.04043	7.59	0.0074

Bounds on condition number: 4228.8, 106168

Forward Selection: Step 10

Variable wt2 Entered: R-Square = 0.9497 and C(p) = 23.7113

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	7.12652	0.71265	134.08	<.0001
Error	71	0.37738	0.00532		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.91065	1.96561	0.30586	57.54	<.0001
hp	0.02310	0.01362	0.01528	2.88	0.0943
sp	-0.16345	0.03492	0.11642	21.90	<.0001
wt	-0.09781	0.03579	0.03970	7.47	0.0079
lowvol	0.09697	0.04132	0.02928	5.51	0.0217
hihp	-0.09890	0.08716	0.00684	1.29	0.2603
hp2	-0.00004385	0.00002101	0.02315	4.36	0.0405
sp2	0.00057829	0.00019803	0.04533	8.53	0.0047
wt2	0.00076194	0.00072207	0.00592	1.11	0.2949
hpvol	0.00000572	0.00000401	0.01080	2.03	0.1584
hpwt	-0.00006721	0.00027093	0.00032712	0.06	0.8048

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Forward Selection: Step 10

Bounds on condition number: 10226, 366810

Forward Selection: Step 11

Variable wtvol Entered: R-Square = 0.9501 and C(p) = 25.1018

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.12927	0.64812	121.10	<.0001
Error	70	0.37464	0.00535		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.99423	1.97582	0.30822	57.59	<.0001
hp	0.02403	0.01373	0.01639	3.06	0.0845
sp	-0.16354	0.03505	0.11654	21.78	<.0001
wt	-0.10121	0.03623	0.04178	7.81	0.0067
lowvol	0.08604	0.04418	0.02030	3.79	0.0555
hihp	-0.11267	0.08955	0.00847	1.58	0.2125
hp2	-0.00004010	0.00002172	0.01824	3.41	0.0691
sp2	0.00057252	0.00019887	0.04436	8.29	0.0053
wt2	0.00097565	0.00078355	0.00830	1.55	0.2172
hpvol	0.00001267	0.00001050	0.00779	1.46	0.2317
hpwt	-0.00012846	0.00028499	0.00109	0.20	0.6536
wtvol	-0.00003797	0.00005300	0.00275	0.51	0.4761

Bounds on condition number: 11237, 423413

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Forward Selection: Step 12

Variable spvol Entered: R-Square = 0.9510 and C(p) = 25.4805

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	7.13658	0.59471	111.71	<.0001
Error	69	0.36733	0.00532		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.14653	1.97486	0.31315	58.82	<.0001
hp	0.02598	0.01380	0.01888	3.55	0.0639
sp	-0.16732	0.03510	0.12096	22.72	<.0001
wt	-0.10633	0.03639	0.04545	8.54	0.0047
lowvol	0.14579	0.06739	0.02491	4.68	0.0340
hihp	-0.10643	0.08947	0.00753	1.42	0.2383
hp2	-0.00003552	0.00002201	0.01386	2.60	0.1112
sp2	0.00057165	0.00019835	0.04422	8.31	0.0053
wt2	0.00138	0.00085564	0.01393	2.62	0.1103
hpvol	0.00001177	0.00001050	0.00669	1.26	0.2663
hpwt	-0.00022063	0.00029492	0.00298	0.56	0.4569
spvol	0.00003882	0.00003313	0.00731	1.37	0.2453
wtvol	-0.00014661	0.00010673	0.01005	1.89	0.1740

Bounds on condition number: 12098, 486509

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Forward Selection: Step 13

Variable vol Entered: R-Square = 0.9575 and C(p) = 16.7754

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	7.18484	0.55268	117.79	<.0001
Error	68	0.31907	0.00469		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	21.84437	2.79269	0.28708	61.18	<.0001
vol	-0.07493	0.02336	0.04826	10.29	0.0020
hp	0.03860	0.01354	0.03816	8.13	0.0058
sp	-0.24570	0.04103	0.16828	35.86	<.0001
wt	-0.13867	0.03562	0.07110	15.15	0.0002
lowvol	0.09758	0.06503	0.01056	2.25	0.1381
hihp	-0.06042	0.08521	0.00236	0.50	0.4807
hp2	-0.00004720	0.00002099	0.02374	5.06	0.0277
sp2	0.00070004	0.00019047	0.06338	13.51	0.0005
wt2	0.00105	0.00080987	0.00794	1.69	0.1976
hpvol	-0.00022885	0.00007567	0.04291	9.15	0.0035
hpwt	-0.00007012	0.00028082	0.00029252	0.06	0.8036
spvol	0.00078630	0.00023514	0.05247	11.18	0.0013
wtvol	0.00044245	0.00020923	0.02098	4.47	0.0381

Bounds on condition number: 12446, 802598

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Forward Selection: Step 14

Variable hpsp Entered: R-Square = 0.9584 and C(p) = 17.3166

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	7.19142	0.51367	110.13	<.0001
Error	67	0.31249	0.00466		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	31.36153	8.48477	0.06372	13.66	0.0004
vol	-0.08121	0.02389	0.05391	11.56	0.0011
hp	0.10198	0.05505	0.01601	3.43	0.0684
sp	-0.45679	0.18241	0.02925	6.27	0.0147
wt	-0.14038	0.03555	0.07274	15.60	0.0002
lowvol	0.09394	0.06491	0.00977	2.09	0.1525
hihp	-0.08460	0.08736	0.00437	0.94	0.3363
hp2	0.00003923	0.00007573	0.00125	0.27	0.6062
sp2	0.00185	0.00098943	0.01636	3.51	0.0654
wt2	0.00075671	0.00084531	0.00374	0.80	0.3739
hpsp	-0.00063851	0.00053772	0.00658	1.41	0.2393
hpvol	-0.00024962	0.00007745	0.04845	10.39	0.0020
hpwt	-0.00012544	0.00028383	0.00091099	0.20	0.6599
spvol	0.00084704	0.00023995	0.05812	12.46	0.0008
wtvol	0.00050504	0.00021516	0.02570	5.51	0.0219

Bounds on condition number: 449236, 14276711

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Forward Selection: Step 15

Variable spwt Entered: R-Square = 0.9607 and C(p) = 15.4656

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	7.20878	0.48059	107.47	<.0001
Error	66	0.29513	0.00447		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	82.60271	27.30039	0.04094	9.15	0.0035
vol	-0.07172	0.02388	0.04034	9.02	0.0038
hp	0.46616	0.19253	0.02622	5.86	0.0182
sp	-1.50602	0.56165	0.03215	7.19	0.0093
wt	-1.06211	0.46908	0.02292	5.13	0.0269
lowvol	0.09792	0.06359	0.01060	2.37	0.1284
hihp	0.01094	0.09833	0.00005536	0.01	0.9117
hp2	0.00067270	0.00032994	0.01859	4.16	0.0455
sp2	0.00720	0.00288	0.02791	6.24	0.0150
wt2	0.00483	0.00223	0.02104	4.70	0.0337
hpsp	-0.00434	0.00195	0.02213	4.95	0.0295
hpvol	-0.00022027	0.00007728	0.03632	8.12	0.0058
hpwt	-0.00339	0.00168	0.01821	4.07	0.0477
spvol	0.00075282	0.00023976	0.04408	9.86	0.0025
spwt	0.00945	0.00480	0.01736	3.88	0.0530
wtvol	0.00043273	0.00021384	0.01831	4.09	0.0471

Bounds on condition number: 6161027, 203834617

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Forward Selection: Step 16

Variable vol2 Entered: R-Square = 0.9609 and C(p) = 17.0000

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	7.21088	0.45068	99.97	<.0001
Error	65	0.29303	0.00451		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	82.11021	27.42109	0.04042	8.97	0.0039
vol	-0.06798	0.02459	0.03445	7.64	0.0074
hp	0.46592	0.19331	0.02619	5.81	0.0188
sp	-1.49500	0.56417	0.03166	7.02	0.0101
wt	-1.07600	0.47144	0.02348	5.21	0.0257
lowvol	0.16449	0.11659	0.00897	1.99	0.1631
hihp	0.01225	0.09875	0.00006934	0.02	0.9017
hp2	0.00067099	0.00033129	0.01849	4.10	0.0469
sp2	0.00712	0.00290	0.02725	6.05	0.0166
wt2	0.00494	0.00224	0.02190	4.86	0.0311
vol2	-0.00002413	0.00003537	0.00210	0.47	0.4974
hpsp	-0.00431	0.00196	0.02182	4.84	0.0314
hpvol	-0.00022634	0.00007811	0.03786	8.40	0.0051
hpwt	-0.00343	0.00169	0.01863	4.13	0.0462
spvol	0.00075629	0.00024079	0.04447	9.86	0.0025
spwt	0.00949	0.00481	0.01750	3.88	0.0531
wtvol	0.00048783	0.00022940	0.02039	4.52	0.0373

Bounds on condition number: 6164031, 217572668

All variables have been entered into the model.

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Summary of Forward Selection							
Step	Variable Entered	Number Vars In	Partial R-Square	Model R-Square	C(p)	F Value	Pr > F
1	wt	1	0.9005	0.9005	87.5687	724.27	<.0001
2	sp	2	0.0174	0.9179	60.6616	16.71	0.0001
3	sp2	3	0.0077	0.9256	49.8105	8.10	0.0057
4	hp2	4	0.0043	0.9299	44.7019	4.69	0.0334
5	hplt	5	0.0098	0.9397	30.3128	12.42	0.0007
6	hihp	6	0.0035	0.9433	26.4092	4.69	0.0335
7	lowvol	7	0.0019	0.9451	25.3261	2.50	0.1182
8	hp	8	0.0023	0.9474	23.5272	3.17	0.0792
9	hplvol	9	0.0015	0.9489	23.0241	2.12	0.1498
10	wt2	10	0.0008	0.9497	23.7113	1.11	0.2949
11	wtvol	11	0.0004	0.9501	25.1018	0.51	0.4761
12	spvol	12	0.0010	0.9510	25.4805	1.37	0.2453
13	vol	13	0.0064	0.9575	16.7754	10.29	0.0020
14	hpsp	14	0.0009	0.9584	17.3166	1.41	0.2393
15	spwt	15	0.0023	0.9607	15.4656	3.88	0.0530
16	vol2	16	0.0003	0.9609	17.0000	0.47	0.4974

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	16	7.21088	0.45068	99.97	<.0001
Error	65	0.29303	0.00451		
Corrected Total	81	7.50390			

Root MSE	0.06714	R-Square	0.9609
Dependent Mean	3.47571	Adj R-Sq	0.9513
Coeff Var	1.93177		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	82.11021	27.42109	2.99	0.0039	0
vol	1	-0.06798	0.02459	-2.76	0.0074	5339.41301
hp	1	0.46592	0.19331	2.41	0.0188	2169353
sp	1	-1.49500	0.56417	-2.65	0.0101	1126961
wt	1	-1.07600	0.47144	-2.28	0.0257	264686
lowvol	1	0.16449	0.11659	1.41	0.1631	24.15903
hihp	1	0.01225	0.09875	0.12	0.9017	13.84857
hp2	1	0.00067099	0.00033129	2.03	0.0469	734312
sp2	1	0.00712	0.00290	2.46	0.0166	1888673
wt2	1	0.00494	0.00224	2.20	0.0311	26683
vol2	1	-0.00002413	0.00003537	-0.68	0.4974	389.95319
hpsp	1	-0.00431	0.00196	-2.20	0.0314	6164031
hpspvol	1	-0.00022634	0.00007811	-2.90	0.0051	4362.20459
hpwt	1	-0.00343	0.00169	-2.03	0.0462	466725
spvol	1	0.00075629	0.00024079	3.14	0.0025	8721.14411

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
spwt	1	0.00949	0.00481	1.97	0.0531	736390
wtvol	1	0.00048783	0.00022940	2.13	0.0373	1626.72649

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	vol	hp	sp
1	MODEL1	PARMS	lmpg	0.067143	0.44322	82.1102	-0.067982	0.46592	-1.49500

Obs	wt	lowvol	hihp	hp2	sp2	wt2	vol2	hpsp	hpvol
1	-1.07600	0.16449	0.012247	.000670994	.007124851	.004936609	-.000024134	-.004308279	-.000226344

Obs	hpwt	spvol	spwt	wtvol	lmpg	_IN_	_P_	_EDF_	_RSQ_	_CP_	_SBC_
1	-.003426317	.000756289	.009486905	.000487828	-1	16	17	65	0.96095	17	-387.090

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number of Observations Read	82
Number of Observations Used	82

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
11	12.7884	0.9575	0.06752	-402.12847	vol hp sp wt lowvol sp2 wt2 hpsp hpvol spvol wtvol
10	13.1876	0.9560	0.06817	-403.80210	vol hp sp wt sp2 wt2 hpsp hpvol spvol wtvol
14	13.4779	0.9607	0.06638	-395.30295	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
10	13.4838	0.9559	0.06831	-403.47098	vol sp wt lowvol hp2 wt2 hpsp hpvol spvol wtvol
11	13.5344	0.9570	0.06787	-401.26886	vol hp sp wt lowvol hp2 sp2 wt2 hpvol spvol wtvol
12	13.6640	0.9581	0.06747	-399.03470	vol hp sp wt lowvol hihp sp2 wt2 hpsp hpvol spvol wtvol
11	13.7543	0.9569	0.06798	-401.01716	vol hp sp wt hihp sp2 wt2 hpsp hpvol spvol wtvol
13	13.8316	0.9592	0.06706	-396.81384	vol hp sp wt hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
9	13.8531	0.9544	0.06892	-405.27551	vol sp hp2 hpsp hpvol hpwt spvol spwt wtvol
10	13.8607	0.9556	0.06848	-403.05145	vol hp sp wt sp2 hpsp hpvol hpwt spvol wtvol
11	13.9342	0.9568	0.06806	-400.81192	vol hp sp wt lowvol sp2 hpsp hpvol hpwt spvol wtvol
10	14.0134	0.9555	0.06855	-402.88203	vol hp sp wt hp2 sp2 hpsp hpvol spvol wtvol
10	14.0731	0.9555	0.06858	-402.81592	vol hp sp wt hp2 sp2 wt2 hpvol spvol wtvol
11	14.1027	0.9567	0.06814	-400.62007	vol hp sp wt lowvol hp2 sp2 hpsp hpvol spvol wtvol
11	14.1197	0.9567	0.06815	-400.60075	vol hp sp wt hihp sp2 hpsp hpvol hpwt spvol wtvol
11	14.1202	0.9567	0.06815	-400.60008	vol hp sp wt hihp hp2 sp2 hpsp hpvol spvol wtvol
11	14.1275	0.9567	0.06816	-400.59184	vol hp sp lowvol hp2 sp2 hpvol hpwt spvol spwt wtvol
10	14.1697	0.9554	0.06863	-402.70910	vol sp lowvol hp2 hpsp hpvol hpwt spvol spwt wtvol
11	14.2388	0.9566	0.06821	-400.46536	vol hp sp wt sp2 wt2 vol2 hpsp hpvol spvol wtvol
9	14.3884	0.9541	0.06916	-404.69886	vol sp wt hp2 wt2 hpsp hpvol spvol wtvol
12	14.4172	0.9577	0.06783	-398.15298	vol hp sp wt lowvol sp2 wt2 hpsp hpvol hpwt spvol wtvol
12	14.4673	0.9577	0.06785	-398.09463	vol hp sp wt lowvol sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	14.5175	0.9576	0.06788	-398.03622	vol hp sp wt lowvol hihp sp2 hpsp hpvol hpwt spvol wtvol
12	14.5317	0.9576	0.06788	-398.01969	vol hp sp wt lowvol hihp hp2 sp2 hpsp hpvol spvol wtvol
11	14.5707	0.9564	0.06836	-400.08948	vol sp lowvol hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
12	14.6206	0.9576	0.06793	-397.91643	vol hp sp lowvol hihp hp2 sp2 hpvol hpwt spvol spwt wtvol
12	14.7094	0.9575	0.06797	-397.81335	vol hp sp wt lowvol sp2 wt2 hpsp hpvol spvol spwt wtvol
12	14.7864	0.9575	0.06801	-397.72415	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol spvol wtvol
11	14.7881	0.9563	0.06847	-399.84420	vol sp lowvol hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
12	14.8403	0.9574	0.06803	-397.66177	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpvol spvol wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
11	14.8439	0.9562	0.06849	-399.78138	vol hp sp hihp hp2 sp2 hpvol hpwt spvol spwt wtvol
11	14.8530	0.9562	0.06850	-399.77110	vol sp wt lowvol hp2 wt2 vol2 hpsp hpvol spvol wtvol
10	14.8883	0.9550	0.06896	-401.91844	vol hp sp hp2 sp2 hpvol hpwt spvol spwt wtvol
14	14.9905	0.9598	0.06714	-393.43015	vol hp sp wt hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
15	15.0154	0.9609	0.06664	-391.47750	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
10	15.0157	0.9549	0.06902	-401.77910	vol sp hihp hp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.0414	0.9573	0.06813	-397.42928	vol hp sp wt hihp sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	15.0496	0.9573	0.06813	-397.41977	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpvol spvol wtvol
11	15.0703	0.9561	0.06860	-399.52688	vol hp sp wt sp2 vol2 hpsp hpvol hpwt spvol wtvol
11	15.0743	0.9561	0.06860	-399.52241	vol hp sp wt sp2 wt2 hpsp hpvol hpwt spvol wtvol
11	15.0933	0.9561	0.06861	-399.50111	vol sp wt lowvol hp2 wt2 hpsp hpvol spvol spwt wtvol
11	15.1230	0.9561	0.06862	-399.46782	vol hp sp wt hihp hp2 sp2 wt2 hpvol spvol wtvol
11	15.1375	0.9561	0.06863	-399.45157	vol sp wt lowvol hihp hp2 wt2 hpsp hpvol spvol wtvol
12	15.1456	0.9573	0.06818	-397.30907	vol hp sp lowvol hihp sp2 hpsp hpvol hpwt spvol spwt wtvol
11	15.1732	0.9560	0.06865	-399.41154	vol hp sp wt hp2 sp2 wt2 hpsp hpvol spvol wtvol
11	15.1764	0.9560	0.06865	-399.40792	vol sp lowvol hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	15.1855	0.9560	0.06865	-399.39772	vol hp sp wt sp2 wt2 hpsp hpvol spvol spwt wtvol
11	15.1893	0.9560	0.06866	-399.39344	vol hp sp lowvol sp2 hpsp hpvol hpwt spvol spwt wtvol
11	15.1904	0.9560	0.06866	-399.39228	vol hp sp wt hp2 sp2 wt2 vol2 hpvol spvol wtvol
12	15.1919	0.9572	0.06820	-397.25578	vol hp sp wt lowvol hp2 sp2 wt2 hpvol spvol spwt wtvol
11	15.2060	0.9560	0.06866	-399.37482	vol hp sp wt hp2 sp2 vol2 hpsp hpvol spvol wtvol
10	15.2459	0.9548	0.06912	-401.52784	vol sp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
13	15.2556	0.9584	0.06776	-395.11017	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	15.2987	0.9572	0.06825	-397.13285	vol hp sp wt lowvol hp2 sp2 wt2 hpvol hpwt spvol wtvol
10	15.3324	0.9547	0.06916	-401.43362	vol sp wt hp2 wt2 vol2 hpsp hpvol spvol wtvol
11	15.3388	0.9559	0.06873	-399.22612	vol hp sp lowvol hp2 hpsp hpvol hpwt spvol spwt wtvol
10	15.3959	0.9547	0.06919	-401.36448	vol hp sp wt hp2 sp2 hpvol hpwt spvol wtvol
11	15.3970	0.9559	0.06875	-399.16115	vol sp wt lowvol hp2 sp2 wt2 hpsp hpvol spvol wtvol
10	15.4121	0.9547	0.06920	-401.34691	vol sp hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	15.4154	0.9559	0.06876	-399.14052	vol sp wt lowvol hp2 wt2 hpsp hpvol hpwt spvol wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
15	15.4656	0.9607	0.06687	-390.91161	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	15.4837	0.9559	0.06879	-399.06426	vol hp sp wt lowvol hp2 wt2 hpsp hpvol spvol wtvol
10	15.5069	0.9546	0.06924	-401.24390	vol sp hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	15.5102	0.9570	0.06835	-396.88988	vol hp sp wt hihp hp2 sp2 wt2 hpsp hpvol spvol wtvol
13	15.5187	0.9582	0.06789	-394.79924	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol spvol wtvol
10	15.5198	0.9546	0.06925	-401.22984	vol hp sp hp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.5214	0.9570	0.06836	-396.87703	vol hp sp wt hihp hp2 sp2 vol2 hpsp hpvol spvol wtvol
13	15.5368	0.9582	0.06790	-394.77792	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt
12	15.5403	0.9570	0.06837	-396.85546	vol sp lowvol hihp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.5464	0.9570	0.06837	-396.84839	vol hp sp wt hihp sp2 vol2 hpsp hpvol hpwt spvol wtvol
11	15.5898	0.9558	0.06884	-398.94604	vol hp sp wt lowvol hp2 sp2 hpvol hpwt spvol wtvol
13	15.5942	0.9582	0.06793	-394.71027	vol hp sp wt lowvol hihp sp2 wt2 hpsp hpvol hpwt spvol wtvol
11	15.6059	0.9558	0.06885	-398.92803	vol sp hihp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
13	15.6061	0.9582	0.06793	-394.69616	vol hp sp wt lowvol hihp sp2 wt2 hpsp hpvol spvol spwt wtvol
11	15.6223	0.9558	0.06886	-398.90976	vol hp sp hp2 sp2 vol2 hpvol hpwt spvol spwt wtvol
10	15.6328	0.9546	0.06930	-401.10729	vol sp wt hihp hp2 wt2 hpsp hpvol spvol wtvol
11	15.6346	0.9558	0.06886	-398.89611	vol sp wt lowvol hp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.6886	0.9569	0.06844	-396.68566	vol hp sp wt lowvol sp2 vol2 hpsp hpvol hpwt spvol wtvol
11	15.7129	0.9557	0.06890	-398.80899	vol hp sp wt hp2 sp2 hpsp hpvol spvol spwt wtvol
11	15.7139	0.9557	0.06890	-398.80780	vol sp lowvol hihp hp2 hpsp hpvol hpwt spvol spwt wtvol
11	15.7357	0.9557	0.06891	-398.78360	vol hp sp wt hp2 sp2 hpsp hpvol hpwt spvol wtvol
12	15.7406	0.9569	0.06846	-396.62620	vol hp sp wt lowvol sp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.7521	0.9569	0.06847	-396.61296	vol hp sp wt hihp sp2 wt2 hpsp hpvol hpwt spvol wtvol
12	15.7541	0.9569	0.06847	-396.61076	vol hp sp wt hihp sp2 wt2 hpsp hpvol spvol spwt wtvol
10	15.7605	0.9545	0.06936	-400.96892	vol sp wt hp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.7615	0.9569	0.06847	-396.60228	vol hp sp wt lowvol hp2 sp2 hpsp hpvol hpwt spvol wtvol
12	15.7623	0.9569	0.06847	-396.60136	vol hp sp wt hihp hp2 sp2 hpsp hpvol spvol spwt wtvol
10	15.7882	0.9545	0.06937	-400.93895	vol hp sp wt sp2 hpsp hpvol spvol spwt wtvol
12	15.7921	0.9569	0.06849	-396.56735	vol hp sp wt hihp hp2 sp2 hpsp hpvol hpwt spvol wtvol
11	15.7959	0.9557	0.06894	-398.71666	vol hp sp hihp sp2 hpsp hpvol hpwt spvol spwt wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
11	15.8104	0.9557	0.06895	-398.70053	vol hp sp wt sp2 hpsp hpvol hpwt spvol spwt wtvol
14	15.8177	0.9593	0.06755	-392.42383	vol hp sp wt hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
12	15.8493	0.9568	0.06852	-396.50197	vol hp sp lowvol hp2 sp2 vol2 hpvol hpwt spvol spwt wtvol
12	15.8600	0.9568	0.06852	-396.48976	vol hp sp wt lowvol hp2 sp2 hpsp hpvol spvol spwt wtvol
12	15.8645	0.9568	0.06852	-396.48462	vol sp lowvol hihp hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
12	15.8817	0.9568	0.06853	-396.46502	vol hp sp wt lowvol hp2 sp2 vol2 hpsp hpvol spvol wtvol
13	15.9242	0.9580	0.06809	-394.32231	vol hp sp wt lowvol sp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
11	15.9475	0.9556	0.06901	-398.54838	vol hp sp wt hp2 sp2 wt2 hpvol spvol spwt wtvol
12	15.9599	0.9568	0.06857	-396.37590	vol hp sp wt hihp sp2 hpsp hpvol hpwt spvol spwt wtvol
12	15.9821	0.9568	0.06858	-396.35058	vol hp sp hihp hp2 sp2 vol2 hpvol hpwt spvol spwt wtvol
12	15.9942	0.9567	0.06858	-396.33680	vol sp lowvol hp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.0325	0.9567	0.06860	-396.29323	vol hp sp lowvol hp2 sp2 wt2 hpvol hpwt spvol spwt wtvol
11	16.0331	0.9555	0.06905	-398.45353	vol hp sp wt hp2 sp2 wt2 hpvol hpwt spvol wtvol
12	16.0372	0.9567	0.06860	-396.28786	vol hp sp wt lowvol hp2 sp2 hpvol hpwt spvol spwt wtvol
11	16.0682	0.9555	0.06907	-398.41471	vol hp sp wt hihp hp2 sp2 hpvol hpwt spvol wtvol
10	16.0996	0.9543	0.06951	-400.60271	vol hp sp wt hp2 wt2 hpsp hpvol spvol wtvol
12	16.1029	0.9567	0.06864	-396.21314	vol hp sp wt sp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
12	16.1274	0.9567	0.06865	-396.18525	vol hp sp lowvol hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
13	16.1457	0.9579	0.06819	-394.06299	vol hp sp wt lowvol hihp hp2 sp2 hpsp hpvol hpwt spvol wtvol
13	16.1764	0.9578	0.06821	-394.02716	vol hp sp wt lowvol hihp sp2 hpsp hpvol hpwt spvol spwt wtvol
11	16.2015	0.9554	0.06913	-398.26724	vol hp sp hihp hp2 hpsp hpvol hpwt spvol spwt wtvol
12	16.2103	0.9566	0.06869	-396.09108	vol hp sp wt hp2 sp2 wt2 vol2 hpsp hpvol spvol wtvol
13	16.2222	0.9578	0.06823	-393.97365	vol hp sp wt lowvol hihp sp2 vol2 hpsp hpvol hpwt spvol wtvol
12	16.2233	0.9566	0.06869	-396.07632	vol hp sp wt sp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
9	16.2360	0.9530	0.06999	-402.73912	vol hp sp wt sp2 hpsp hpvol spvol wtvol
13	16.2366	0.9578	0.06824	-393.95676	vol hp sp wt lowvol hihp hp2 sp2 hpsp hpvol spvol spwt wtvol
13	16.2445	0.9578	0.06824	-393.94753	vol hp sp lowvol hihp hp2 sp2 vol2 hpvol hpwt spvol spwt wtvol
10	16.2605	0.9542	0.06959	-400.42950	vol sp wt hp2 wt2 hpsp hpvol hpwt spvol wtvol
13	16.2753	0.9578	0.06826	-393.91159	vol hp sp wt lowvol hihp hp2 sp2 vol2 hpsp hpvol spvol wtvol
13	16.2772	0.9578	0.06826	-393.90942	vol hp sp wt lowvol hihp hp2 sp2 wt2 vol2 hpvol spvol wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
13	16.2869	0.9578	0.06826	-393.89807	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol wtvol
11	16.2893	0.9554	0.06917	-398.17023	vol sp hihp hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	16.2947	0.9554	0.06917	-398.16430	vol sp hp2 sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
10	16.3333	0.9541	0.06962	-400.35133	vol sp wt hp2 sp2 wt2 hpsp hpvol spvol wtvol
11	16.3482	0.9553	0.06920	-398.10524	vol hp sp wt hp2 sp2 hpvol hpwt spvol spwt wtvol
13	16.3600	0.9577	0.06830	-393.81285	vol hp sp wt lowvol sp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
12	16.3664	0.9565	0.06876	-395.91391	vol sp lowvol hp2 sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.3699	0.9565	0.06876	-395.91005	vol sp wt lowvol hihp hp2 wt2 vol2 hpsp hpvol spvol wtvol
13	16.3800	0.9577	0.06831	-393.78953	vol hp sp wt lowvol sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
10	16.3870	0.9541	0.06964	-400.29367	vol sp wt hp2 wt2 hpsp hpvol spvol spwt wtvol
12	16.4128	0.9565	0.06878	-395.86142	vol sp lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
12	16.4139	0.9565	0.06878	-395.86020	vol hp sp lowvol hihp hp2 hpsp hpvol hpwt spvol spwt wtvol
12	16.4227	0.9565	0.06879	-395.85025	vol hp sp wt hihp hp2 sp2 wt2 vol2 hpvol spvol wtvol
13	16.4650	0.9577	0.06835	-393.69052	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	16.4702	0.9565	0.06881	-395.79648	vol hp sp hihp sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	16.4841	0.9553	0.06926	-397.95546	vol sp hp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.4881	0.9565	0.06882	-395.77619	vol sp lowvol hihp hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.4938	0.9564	0.06882	-395.76970	vol sp wt lowvol hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
10	16.5013	0.9540	0.06970	-400.17099	vol hp sp sp2 hpsp hpvol hpwt spvol spwt wtvol
13	16.5191	0.9576	0.06838	-393.62766	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpvol spvol spwt wtvol
12	16.5376	0.9564	0.06884	-395.72020	vol hp sp wt lowvol hihp hp2 sp2 hpvol hpwt spvol wtvol
12	16.5423	0.9564	0.06884	-395.71489	vol hp sp lowvol hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
13	16.5572	0.9576	0.06839	-393.58333	vol hp sp lowvol hihp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
13	16.5816	0.9576	0.06841	-393.55500	vol hp sp lowvol hihp hp2 sp2 wt2 hpvol hpwt spvol spwt wtvol
12	16.6004	0.9564	0.06887	-395.64921	vol sp wt lowvol hp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
13	16.6132	0.9576	0.06842	-393.51826	vol hp sp wt lowvol hihp hp2 sp2 hpvol hpwt spvol spwt wtvol
12	16.6155	0.9564	0.06888	-395.63220	vol sp wt lowvol hihp hp2 wt2 hpsp hpvol spvol spwt wtvol
11	16.6278	0.9552	0.06933	-397.79747	vol hp sp sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.6370	0.9564	0.06889	-395.60791	vol hp sp wt hihp hp2 sp2 hpvol hpwt spvol spwt wtvol
13	16.6471	0.9576	0.06844	-393.47889	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpvol spvol spwt wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
12	16.6528	0.9564	0.06890	-395.59007	vol sp wt lowvol hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
11	16.6532	0.9552	0.06934	-397.76959	vol hp sp wt lowvol sp2 hpsp hpvol spvol spwt wtvol
13	16.6703	0.9575	0.06845	-393.45199	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpvol hpwt spvol wtvol
12	16.6866	0.9563	0.06891	-395.55194	vol hp sp wt lowvol hp2 wt2 hpsp hpvol spvol spwt wtvol
11	16.7051	0.9551	0.06936	-397.71257	vol sp wt hihp hp2 hpsp hpvol hpwt spvol spwt wtvol
13	16.7074	0.9575	0.06847	-393.40893	vol hp sp wt lowvol hp2 sp2 wt2 hpsp hpvol spvol spwt wtvol
12	16.7402	0.9563	0.06894	-395.49148	vol hp sp lowvol hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	16.7437	0.9551	0.06938	-397.67017	vol hp sp wt hp2 sp2 vol2 hpvol hpwt spvol wtvol
12	16.7578	0.9563	0.06895	-395.47162	vol hp sp hihp hp2 sp2 wt2 hpvol hpwt spvol spwt wtvol
13	16.7754	0.9575	0.06850	-393.33019	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpvol hpwt spvol wtvol
13	16.7822	0.9575	0.06850	-393.32229	vol hp sp wt hihp hp2 sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	16.7953	0.9563	0.06896	-395.42942	vol hp sp wt lowvol hp2 wt2 vol2 hpsp hpvol spvol wtvol
11	16.8105	0.9551	0.06941	-397.59697	vol hp sp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
11	16.8183	0.9551	0.06942	-397.58839	vol hp sp hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	16.8364	0.9550	0.06942	-397.56860	vol hp sp hp2 sp2 wt2 hpvol hpwt spvol spwt wtvol
12	16.8392	0.9562	0.06899	-395.38001	vol sp wt lowvol hp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
12	16.8419	0.9562	0.06899	-395.37691	vol hp sp hihp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
12	16.8506	0.9562	0.06899	-395.36718	vol sp wt lowvol hp2 sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	16.8571	0.9562	0.06899	-395.35984	vol sp wt lowvol hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	16.8721	0.9550	0.06944	-397.52949	vol sp hihp hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	16.8862	0.9550	0.06945	-397.51408	vol sp wt hihp hp2 wt2 vol2 hpsp hpvol spvol wtvol
12	16.8905	0.9562	0.06901	-395.32227	vol hp sp wt hp2 sp2 vol2 hpsp hpvol hpwt spvol wtvol
12	16.9077	0.9562	0.06902	-395.30284	vol hp sp wt hp2 sp2 vol2 hpsp hpvol spvol spwt wtvol
12	16.9112	0.9562	0.06902	-395.29899	vol sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol spvol wtvol
12	16.9126	0.9562	0.06902	-395.29740	vol sp hihp hp2 sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.9147	0.9562	0.06902	-395.29502	vol sp wt lowvol hihp hp2 hpsp hpvol hpwt spvol spwt wtvol
12	16.9202	0.9562	0.06902	-395.28883	vol hp sp wt lowvol hp2 hpsp hpvol hpwt spvol spwt wtvol
12	16.9582	0.9562	0.06904	-395.24612	vol hp sp wt sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
13	16.9752	0.9574	0.06860	-393.09898	vol hp sp lowvol hihp sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	16.9804	0.9562	0.06905	-395.22119	vol hp sp wt hp2 sp2 wt2 hpsp hpvol hpwt spvol wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
15	16.9904	0.9598	0.06764	-389.02365	vol hp sp wt hihp hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
16	17.0000	0.9609	0.06714	-387.09018	vol hp sp wt lowvol hihp hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	17.0037	0.9561	0.06906	-395.19498	vol hp sp wt hihp hp2 sp2 wt2 hpvol spvol spwt wtvol
12	17.0044	0.9561	0.06906	-395.19415	vol hp sp wt sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
12	17.0047	0.9561	0.06906	-395.19386	vol hp sp wt hp2 sp2 wt2 vol2 hpvol spvol spwt wtvol
12	17.0241	0.9561	0.06907	-395.17207	vol sp wt lowvol hp2 sp2 wt2 hpsp hpvol spvol spwt wtvol
13	17.0336	0.9573	0.06862	-393.03152	vol hp sp wt hihp sp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
12	17.0399	0.9561	0.06908	-395.15438	vol sp wt lowvol hihp hp2 wt2 hpsp hpvol hpwt spvol wtvol
13	17.0412	0.9573	0.06863	-393.02281	vol hp sp wt hihp sp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
13	17.0493	0.9573	0.06863	-393.01339	vol sp lowvol hihp hp2 sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
12	17.0864	0.9561	0.06910	-395.10212	vol hp sp lowvol sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
9	17.0884	0.9525	0.07037	-401.85053	vol sp lowvol hp2 wt2 hpsp hpvol spvol spwt
14	17.1024	0.9585	0.06819	-390.88507	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
13	17.1063	0.9573	0.06866	-392.94764	vol sp lowvol hihp hp2 wt2 vol2 hpsp hpvol hpwt spvol spwt wtvol
13	17.1078	0.9573	0.06866	-392.94592	vol hp sp lowvol hihp sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
12	17.1188	0.9561	0.06912	-395.06583	vol hp sp wt lowvol hihp hp2 wt2 hpsp hpvol spvol wtvol
12	17.1189	0.9561	0.06912	-395.06572	vol hp sp wt hihp hp2 sp2 wt2 hpvol hpwt spvol wtvol
12	17.1290	0.9561	0.06912	-395.05432	vol hp sp wt hp2 sp2 wt2 vol2 hpvol hpwt spvol wtvol
11	17.1442	0.9549	0.06957	-397.23204	vol hp sp lowvol hp2 sp2 wt2 hpvol spvol spwt wtvol
11	17.1451	0.9549	0.06957	-397.23104	vol sp wt hp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
11	17.1600	0.9548	0.06957	-397.21477	vol hp sp wt hihp sp2 hpsp hpvol spvol spwt wtvol
13	17.1608	0.9572	0.06869	-392.88480	vol hp sp wt hihp hp2 sp2 vol2 hpsp hpvol hpwt spvol wtvol
13	17.1623	0.9572	0.06869	-392.88308	vol hp sp wt hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt
13	17.1688	0.9572	0.06869	-392.87562	vol hp sp wt hihp hp2 sp2 vol2 hpsp hpvol spvol spwt wtvol
14	17.1708	0.9584	0.06822	-390.80390	vol hp sp wt lowvol hihp sp2 wt2 vol2 hpsp hpvol spvol spwt wtvol
14	17.1722	0.9584	0.06822	-390.80224	vol hp sp wt lowvol hihp hp2 sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	17.1731	0.9560	0.06914	-395.00494	vol hp sp wt hp2 sp2 wt2 hpsp hpvol spvol spwt wtvol
12	17.1741	0.9560	0.06914	-395.00376	vol hp sp wt lowvol hp2 wt2 hpsp hpvol hpwt spvol wtvol
12	17.1890	0.9560	0.06915	-394.98706	vol hp sp lowvol sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
13	17.1909	0.9572	0.06870	-392.85018	vol hp sp wt lowvol hp2 sp2 wt2 hpvol hpwt spvol spwt wtvol

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
11	17.2141	0.9548	0.06960	-397.15572	vol sp wt hp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	17.2272	0.9548	0.06960	-397.14150	vol sp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	17.2458	0.9548	0.06961	-397.12118	vol sp wt hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
11	17.2541	0.9548	0.06962	-397.11218	vol sp wt lowvol hp2 sp2 hpsp hpvol hpwt spvol wtvol
12	17.2572	0.9560	0.06918	-394.91070	vol hp sp wt lowvol hp2 sp2 vol2 hpvol hpwt spvol wtvol
10	17.2620	0.9536	0.07004	-399.35962	vol sp wt hp2 sp2 hpsp hpvol hpwt spvol wtvol
13	17.2878	0.9572	0.06875	-392.73862	vol sp wt lowvol hihp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
11	17.2887	0.9548	0.06963	-397.07442	vol sp wt hp2 sp2 wt2 vol2 hpsp hpvol spvol wtvol
12	17.2937	0.9560	0.06920	-394.86994	vol hp sp hihp sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
13	17.3104	0.9572	0.06876	-392.71264	vol hp sp wt hihp sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	17.3165	0.9548	0.06965	-397.04423	vol hp sp wt hp2 wt2 vol2 hpsp hpvol spvol wtvol
14	17.3166	0.9584	0.06829	-390.63122	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol wtvol
11	17.3193	0.9548	0.06965	-397.04113	vol sp wt hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	17.3301	0.9547	0.06965	-397.02935	vol sp wt hp2 wt2 vol2 hpsp hpvol hpwt spvol wtvol
10	17.3344	0.9535	0.07007	-399.28289	vol hp sp wt lowvol sp2 hpsp hpvol spvol wtvol
13	17.3431	0.9571	0.06877	-392.67505	vol sp lowvol hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	17.3737	0.9547	0.06967	-396.98194	vol hp sp hp2 wt2 hpsp hpvol hpwt spvol spwt wtvol
11	17.3945	0.9547	0.06968	-396.95932	vol hp sp lowvol sp2 wt2 hpsp hpvol spvol spwt wtvol
12	17.3967	0.9559	0.06925	-394.75472	vol sp wt lowvol hp2 sp2 wt2 hpsp hpvol hpwt spvol wtvol
10	17.4225	0.9535	0.07011	-399.18954	vol hp hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
12	17.4539	0.9559	0.06928	-394.69088	vol hp sp wt hp2 sp2 vol2 hpvol hpwt spvol spwt wtvol
11	17.4649	0.9547	0.06971	-396.88277	vol hp lowvol hp2 sp2 hpsp hpvol hpwt spvol spwt wtvol
11	17.4739	0.9547	0.06972	-396.87297	vol hp sp wt hp2 hpsp hpvol hpwt spvol spwt wtvol
13	17.4836	0.9571	0.06884	-392.51374	vol hp sp wt hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol wtvol
13	17.4876	0.9571	0.06884	-392.50913	vol hp sp wt hihp hp2 sp2 wt2 hpsp hpvol spvol spwt wtvol
13	17.4907	0.9571	0.06884	-392.50556	vol hp sp wt lowvol sp2 vol2 hpsp hpvol hpwt spvol spwt wtvol
11	17.4940	0.9546	0.06973	-396.85121	vol hp sp wt sp2 vol2 hpsp hpvol spvol spwt wtvol
14	17.5047	0.9582	0.06839	-390.40902	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol spvol spwt wtvol
14	17.5273	0.9582	0.06840	-390.38242	vol hp sp wt lowvol hihp hp2 sp2 wt2 hpsp hpvol hpwt spvol spwt

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

C(p) Selection Method

Number in Model	C(p)	R-Square	Root MSE	SBC	Variables in Model
14	17.5316	0.9582	0.06840	-390.37736	vol hp sp wt lowvol hp2 sp2 wt2 vol2 hpsp hpvol hpwt spvol spwt
11	17.5330	0.9546	0.06975	-396.80887	vol hp sp wt hihp hp2 wt2 hpsp hpvol spvol wtvol

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	11	7.18478	0.65316	143.27	<.0001
Error	70	0.31913	0.00456		
Corrected Total	81	7.50390			

Root MSE	0.06752	R-Square	0.9575
Dependent Mean	3.47571	Adj R-Sq	0.9508
Coeff Var	1.94262		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	28.49404	3.62074	7.87	<.0001	0
vol	1	-0.08597	0.02216	-3.88	0.0002	4287.08295
hp	1	0.07750	0.01436	5.40	<.0001	11834
sp	1	-0.39144	0.06009	-6.51	<.0001	12643
wt	1	-0.13156	0.02170	-6.06	<.0001	554.60146
lowvol	1	0.09621	0.06246	1.54	0.1280	6.85702
sp2	1	0.00149	0.00025876	5.75	<.0001	14891
wt2	1	0.00051388	0.00020198	2.54	0.0132	214.53113
hpsp	1	-0.00040997	0.00008060	-5.09	<.0001	10325
hpvol	1	-0.00026806	0.00007082	-3.79	0.0003	3546.26522
spvol	1	0.00089156	0.00022467	3.97	0.0002	7507.62691
wtvol	1	0.00056919	0.00018642	3.05	0.0032	1062.31692

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Number of Observations Read	82
Number of Observations Used	82

Maximum R-Square Improvement: Step 1

Variable wt Entered: R-Square = 0.9005 and C(p) = 87.5687

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	1	6.75750	6.75750	724.27	<.0001
Error	80	0.74641	0.00933		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.57248	0.04213	109.92158	11781.4	<.0001
wt	-0.03548	0.00132	6.75750	724.27	<.0001

Bounds on condition number: 1, 1

The above model is the best 1-variable model found.

Maximum R-Square Improvement: Step 2

Variable sp Entered: R-Square = 0.9179 and C(p) = 60.6616

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6.88781	3.44391	441.60	<.0001
Error	79	0.61609	0.00780		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 2

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	4.86906	0.08214	27.40243	3513.75	<.0001
sp	-0.00389	0.00095156	0.13032	16.71	0.0001
wt	-0.03093	0.00164	2.77082	355.30	<.0001

Bounds on condition number: 1.8533, 7.413

The above model is the best 2-variable model found.

Maximum R-Square Improvement: Step 3

Variable sp2 Entered: R-Square = 0.9256 and C(p) = 49.8105

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.94575	2.31525	323.55	<.0001
Error	78	0.55816	0.00716		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.34210	0.52364	1.04969	146.69	<.0001
sp	-0.02819	0.00859	0.07708	10.77	0.0015
wt	-0.02933	0.00167	2.20896	308.69	<.0001
sp2	0.00009428	0.00003313	0.05793	8.10	0.0057

Bounds on condition number: 164.61, 966.8

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 4

Variable wt Removed: R-Square = 0.9261 and C(p) = 48.9470

Variable spwt Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.94964	2.31655	326.00	<.0001
Error	78	0.55426	0.00711		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.30571	0.52252	1.03488	145.64	<.0001
sp	-0.03556	0.00840	0.12732	17.92	<.0001
sp2	0.00016266	0.00003192	0.18452	25.97	<.0001
spwt	-0.00025905	0.00001468	2.21286	311.41	<.0001

Bounds on condition number: 158.5, 924.7

The above model is the best 3-variable model found.

Maximum R-Square Improvement: Step 5

Variable lowvol Entered: R-Square = 0.9288 and C(p) = 46.4848

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	4	6.96976	1.74244	251.18	<.0001
Error	77	0.53415	0.00694		
Corrected Total	81	7.50390			

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 5

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.17621	0.52184	0.97172	140.08	<.0001
sp	-0.03316	0.00842	0.10763	15.52	0.0002
lowvol	0.05600	0.03289	0.02012	2.90	0.0926
sp2	0.00014993	0.00003241	0.14843	21.40	<.0001
spwt	-0.00025422	0.00001478	2.05277	295.92	<.0001

Bounds on condition number: 163.06, 1289.5

The above model is the best 4-variable model found.

Maximum R-Square Improvement: Step 6

Variable hpvol Entered: R-Square = 0.9349 and C(p) = 38.3958

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	5	7.01524	1.40305	218.21	<.0001
Error	76	0.48866	0.00643		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.68460	0.53753	0.99434	154.65	<.0001
sp	-0.04068	0.00858	0.14442	22.46	<.0001
lowvol	0.13604	0.04368	0.06237	9.70	0.0026
sp2	0.00017664	0.00003278	0.18669	29.04	<.0001
hpvol	0.00001115	0.00000419	0.04548	7.07	0.0095
spwt	-0.00029481	0.00002086	1.28381	199.67	<.0001

Bounds on condition number: 182.93, 1866.4

The above model is the best 5-variable model found.

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 7

Maximum R-Square Improvement: Step 7
Variable hihp Entered: R-Square = 0.9357 and C(p) = 38.9900

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.02158	1.17026	181.97	<.0001
Error	75	0.48233	0.00643		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	6.94911	0.60000	0.86266	134.14	<.0001
sp	-0.04582	0.01002	0.13438	20.90	<.0001
lowvol	0.13374	0.04375	0.06010	9.35	0.0031
hihp	-0.06932	0.06983	0.00634	0.99	0.3240
sp2	0.00020051	0.00004066	0.15642	24.32	<.0001
hpvol	0.00001100	0.00000420	0.04422	6.88	0.0106
spwt	-0.00029073	0.00002127	1.20202	186.91	<.0001

Bounds on condition number: 260.61, 3216.7

Maximum R-Square Improvement: Step 8

Variable spwt Removed: R-Square = 0.9365 and C(p) = 37.6195
Variable wt Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.02776	1.17129	184.49	<.0001
Error	75	0.47615	0.00635		
Corrected Total	81	7.50390			

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 8

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	7.20898	0.59559	0.93010	146.50	<.0001
sp	-0.04249	0.00998	0.11513	18.13	<.0001
wt	-0.03185	0.00231	1.20820	190.31	<.0001
lowvol	0.12012	0.04305	0.04942	7.78	0.0067
hihp	-0.14986	0.06849	0.03040	4.79	0.0318
sp2	0.00014960	0.00004066	0.08596	13.54	0.0004
hpvol	0.00000926	0.00000407	0.03281	5.17	0.0259

Bounds on condition number: 263.99, 3205.9

Maximum R-Square Improvement: Step 9

Variable hihp Removed: R-Square = 0.9386 and C(p) = 34.2689
 Variable hp2 Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.04286	1.17381	190.95	<.0001
Error	75	0.46104	0.00615		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	8.26649	0.79821	0.65931	107.25	<.0001
sp	-0.06795	0.01591	0.11207	18.23	<.0001
wt	-0.02605	0.00325	0.39516	64.28	<.0001
lowvol	0.13568	0.04267	0.06215	10.11	0.0021
hp2	-0.00001124	0.00000413	0.04550	7.40	0.0081
sp2	0.00028840	0.00007760	0.08490	13.81	0.0004
hpvol	0.00001094	0.00000407	0.04444	7.23	0.0088

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 9

Bounds on condition number: 993.31, 10530

Maximum R-Square Improvement: Step 10

Variable hpvol Removed: R-Square = 0.9420 and C(p) = 28.5585
Variable hpwt Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.06860	1.17810	202.98	<.0001
Error	75	0.43530	0.00580		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	12.62322	1.64492	0.34181	58.89	<.0001
sp	-0.15040	0.03108	0.13593	23.42	<.0001
wt	-0.04293	0.00647	0.25526	43.98	<.0001
lowvol	0.05142	0.03011	0.01693	2.92	0.0918
hp2	-0.00005620	0.00001406	0.09274	15.98	0.0001
sp2	0.00070670	0.00015312	0.12363	21.30	<.0001
hpwt	0.00024082	0.00006925	0.07018	12.09	0.0008

Bounds on condition number: 4095.8, 50587

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 11

Variable lowvol Removed: R-Square = 0.9433 and C(p) = 26.4092

Variable hihp Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	7.07829	1.17972	207.89	<.0001
Error	75	0.42561	0.00567		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	13.50516	1.64650	0.38179	67.28	<.0001
sp	-0.16348	0.03088	0.15903	28.02	<.0001
wt	-0.05036	0.00703	0.29084	51.25	<.0001
hihp	-0.17845	0.08240	0.02661	4.69	0.0335
hp2	-0.00005872	0.00001390	0.10129	17.85	<.0001
sp2	0.00076129	0.00015160	0.14310	25.22	<.0001
hpwt	0.00028609	0.00007076	0.09277	16.35	0.0001

Bounds on condition number: 4106.6, 51143

The above model is the best 6-variable model found.

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 12

Variable lowvol Entered: R-Square = 0.9451 and C(p) = 25.3261

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	7.09219	1.01317	182.10	<.0001
Error	74	0.41171	0.00556		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	13.24514	1.63858	0.36353	65.34	<.0001
sp	-0.15896	0.03071	0.14907	26.79	<.0001
wt	-0.04910	0.00701	0.27289	49.05	<.0001
lowvol	0.04674	0.02957	0.01390	2.50	0.1182
hihp	-0.16850	0.08183	0.02359	4.24	0.0430
hp2	-0.00005759	0.00001378	0.09715	17.46	<.0001
sp2	0.00073936	0.00015075	0.13383	24.05	<.0001
hpwt	0.00027849	0.00007023	0.08749	15.72	0.0002

Bounds on condition number: 4141.7, 60131

The above model is the best 7-variable model found.

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Maximum R-Square Improvement: Step 13

Variable hp Entered: R-Square = 0.9474 and C(p) = 23.5272

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	7.10932	0.88866	164.41	<.0001
Error	73	0.39459	0.00541		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.20573	1.95492	0.32702	60.50	<.0001
hp	0.01173	0.00659	0.01713	3.17	0.0792
sp	-0.18245	0.03302	0.16502	30.53	<.0001
wt	-0.06491	0.01125	0.17982	33.27	<.0001
lowvol	0.05439	0.02946	0.01842	3.41	0.0689
hihp	-0.14948	0.08137	0.01824	3.38	0.0703
hp2	-0.00006499	0.00001421	0.11312	20.93	<.0001
sp2	0.00074663	0.00014865	0.13637	25.23	<.0001
hpwt	0.00023431	0.00007354	0.05488	10.15	0.0021

Bounds on condition number: 4144.8, 91758

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 14

Variable hpwt Removed: R-Square = 0.9482 and C(p) = 22.1507

Variable wt2 Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	7.11552	0.88944	167.18	<.0001
Error	73	0.38838	0.00532		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.36827	1.93763	0.33469	62.91	<.0001
hp	0.02248	0.00625	0.06885	12.94	0.0006
sp	-0.17327	0.03056	0.17105	32.15	<.0001
wt	-0.09598	0.01600	0.19147	35.99	<.0001
lowvol	0.05501	0.02919	0.01889	3.55	0.0635
hihp	-0.12257	0.07858	0.01294	2.43	0.1231
hp2	-0.00005158	0.00001115	0.11394	21.42	<.0001
sp2	0.00063305	0.00011762	0.15412	28.97	<.0001
wt2	0.00065908	0.00019451	0.06109	11.48	0.0011

Bounds on condition number: 2801.5, 68008

The REG Procedure
Model: MODEL1
Dependent Variable: mpg

Maximum R-Square Improvement: Step 15

Variable hihp Removed: R-Square = 0.9484 and C(p) = 21.9361

Variable spvol Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	8	7.11649	0.88956	167.62	<.0001
Error	73	0.38741	0.00531		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.86636	1.95415	0.30715	57.88	<.0001
hp	0.02098	0.00632	0.05858	11.04	0.0014
sp	-0.16787	0.03077	0.15795	29.76	<.0001
wt	-0.08768	0.01583	0.16290	30.69	<.0001
lowvol	0.12469	0.05003	0.03296	6.21	0.0150
hp2	-0.00005066	0.00001123	0.10800	20.35	<.0001
sp2	0.00061526	0.00011849	0.14309	26.96	<.0001
wt2	0.00055126	0.00019398	0.04286	8.08	0.0058
spvol	0.00001071	0.00000661	0.01391	2.62	0.1098

Bounds on condition number: 2847.8, 69171

The above model is the best 8-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 16

Variable hihp Entered: R-Square = 0.9494 and C(p) = 22.2146

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	7.12425	0.79158	150.12	<.0001
Error	72	0.37965	0.00527		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.99463	1.95073	0.31155	59.08	<.0001
hp	0.02122	0.00630	0.05987	11.35	0.0012
sp	-0.16822	0.03067	0.15860	30.08	<.0001
wt	-0.09217	0.01620	0.17062	32.36	<.0001
lowvol	0.10957	0.05140	0.02395	4.54	0.0365
hihp	-0.09775	0.08058	0.00776	1.47	0.2290
hp2	-0.00004899	0.00001128	0.09954	18.88	<.0001
sp2	0.00061302	0.00011812	0.14201	26.93	<.0001
wt2	0.00060439	0.00019825	0.04901	9.29	0.0032
spvol	0.00000874	0.00000679	0.00873	1.66	0.2024

Bounds on condition number: 2848.1, 78220

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

Maximum R-Square Improvement: Step 17

Variable *spvol* Removed: R-Square = 0.9497 and C(p) = 21.7838

Variable *hpvol* Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	7.12619	0.79180	150.93	<.0001
Error	72	0.37771	0.00525		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	14.95051	1.94622	0.30957	59.01	<.0001
hp	0.02013	0.00642	0.05155	9.83	0.0025
sp	-0.16753	0.03061	0.15715	29.96	<.0001
wt	-0.08994	0.01644	0.15691	29.91	<.0001
lowvol	0.09626	0.04095	0.02899	5.53	0.0215
hihp	-0.10791	0.07871	0.00986	1.88	0.1746
hp2	-0.00004823	0.00001131	0.09532	18.17	<.0001
sp2	0.00061773	0.00011729	0.14552	27.74	<.0001
wt2	0.00058985	0.00019915	0.04602	8.77	0.0041
hpvol	0.00000568	0.00000398	0.01067	2.03	0.1581

Bounds on condition number: 2850.7, 79023

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 18

Variable hp2 Removed: R-Square = 0.9498 and C(p) = 21.5656

Variable hpsp Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	9	7.12718	0.79191	151.35	<.0001
Error	72	0.37673	0.00523		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	20.10025	3.09573	0.22058	42.16	<.0001
hp	0.05391	0.01362	0.08199	15.67	0.0002
sp	-0.28769	0.05777	0.12978	24.80	<.0001
wt	-0.08370	0.01522	0.15822	30.24	<.0001
lowvol	0.09654	0.04088	0.02917	5.58	0.0209
hihp	-0.13253	0.07801	0.01510	2.89	0.0937
sp2	0.00130	0.00026761	0.12380	23.66	<.0001
wt2	0.00034172	0.00017297	0.02042	3.90	0.0520
hpsp	-0.00036861	0.00008592	0.09630	18.40	<.0001
hpvol	0.00000614	0.00000396	0.01257	2.40	0.1255

Bounds on condition number: 13878, 395569

The above model is the best 9-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 19

Variable wtvol Entered: R-Square = 0.9500 and C(p) = 23.3003

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	7.12837	0.71284	134.77	<.0001
Error	71	0.37553	0.00529		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	20.14465	3.11391	0.22136	41.85	<.0001
hp	0.05269	0.01393	0.07564	14.30	0.0003
sp	-0.28957	0.05821	0.13087	24.74	<.0001
wt	-0.08112	0.01623	0.13213	24.98	<.0001
lowvol	0.08932	0.04382	0.02197	4.15	0.0452
hihp	-0.14652	0.08377	0.01618	3.06	0.0846
sp2	0.00132	0.00027144	0.12485	23.61	<.0001
wt2	0.00037592	0.00018819	0.02110	3.99	0.0496
hpsp	-0.00036842	0.00008639	0.09620	18.19	<.0001
hpvol	0.00001050	0.00001000	0.00583	1.10	0.2974
wtvol	-0.00002389	0.00005024	0.00120	0.23	0.6359

Bounds on condition number: 14124, 447457

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 20

Variable hpvol Removed: R-Square = 0.9500 and C(p) = 23.2151

Variable spvol Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	7.12876	0.71288	134.92	<.0001
Error	71	0.37515	0.00528		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	20.46751	3.11739	0.22777	43.11	<.0001
hp	0.05476	0.01355	0.08623	16.32	0.0001
sp	-0.29894	0.05887	0.13626	25.79	<.0001
wt	-0.08188	0.01589	0.14033	26.56	<.0001
lowvol	0.14445	0.06534	0.02582	4.89	0.0303
hihp	-0.13018	0.08096	0.01366	2.59	0.1123
sp2	0.00136	0.00027593	0.12793	24.21	<.0001
wt2	0.00046674	0.00022506	0.02273	4.30	0.0417
hpsp	-0.00038185	0.00008630	0.10344	19.58	<.0001
spvol	0.00003403	0.00003138	0.00621	1.18	0.2819
wtvol	-0.00007373	0.00009276	0.00334	0.63	0.4294

Bounds on condition number: 14611, 452466

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

Maximum R-Square Improvement: Step 21

Variable *wtvol* Removed: R-Square = 0.9508 and C(p) = 21.8199
 Variable *vol2* Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	7.13505	0.71350	137.34	<.0001
Error	71	0.36886	0.00520		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	20.31692	3.07770	0.22639	43.58	<.0001
hp	0.05284	0.01355	0.07899	15.20	0.0002
sp	-0.29442	0.05747	0.13635	26.24	<.0001
wt	-0.08387	0.01499	0.16260	31.30	<.0001
lowvol	0.15258	0.05889	0.03487	6.71	0.0116
hihp	-0.15174	0.08260	0.01753	3.37	0.0704
sp2	0.00133	0.00026713	0.12948	24.92	<.0001
wt2	0.00041536	0.00017764	0.02840	5.47	0.0222
vol2	-0.00001667	0.00001225	0.00963	1.85	0.1777
hpsp	-0.00036839	0.00008525	0.09702	18.68	<.0001
spvol	0.00003790	0.00002179	0.01571	3.02	0.0863

Bounds on condition number: 13927, 439556

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 22

Variable hpsp Removed: R-Square = 0.9509 and C(p) = 21.7332

Variable hp2 Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	10	7.13544	0.71354	137.49	<.0001
Error	71	0.36847	0.00519		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.24720	1.94289	0.31961	61.59	<.0001
hp	0.01902	0.00643	0.04544	8.76	0.0042
sp	-0.17578	0.03086	0.16835	32.44	<.0001
wt	-0.09026	0.01613	0.16259	31.33	<.0001
lowvol	0.15270	0.05885	0.03493	6.73	0.0115
hihp	-0.13066	0.08302	0.01286	2.48	0.1200
hp2	-0.00004849	0.00001119	0.09741	18.77	<.0001
sp2	0.00065704	0.00012096	0.15312	29.50	<.0001
wt2	0.00067154	0.00020193	0.05740	11.06	0.0014
vol2	-0.00001796	0.00001223	0.01119	2.16	0.1465
spvol	0.00003911	0.00002176	0.01677	3.23	0.0765

Bounds on condition number: 2929.6, 91725

The above model is the best 10-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 23

Variable hpvol Entered: R-Square = 0.9517 and C(p) = 22.4715

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.14113	0.64919	125.27	<.0001
Error	70	0.36278	0.00518		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	15.63825	1.97711	0.32423	62.56	<.0001
hp	0.02008	0.00650	0.04942	9.54	0.0029
sp	-0.18563	0.03224	0.17179	33.15	<.0001
wt	-0.09509	0.01676	0.16681	32.19	<.0001
lowvol	0.23854	0.10086	0.02899	5.59	0.0208
hihp	-0.13321	0.08300	0.01335	2.58	0.1130
hp2	-0.00005029	0.00001132	0.10236	19.75	<.0001
sp2	0.00068775	0.00012438	0.15845	30.57	<.0001
wt2	0.00078463	0.00022885	0.06092	11.76	0.0010
vol2	-0.00003646	0.00002148	0.01493	2.88	0.0941
hpvol	-0.00001740	0.00001661	0.00569	1.10	0.2984
spvol	0.00009725	0.00005961	0.01380	2.66	0.1073

Bounds on condition number: 3201.6, 114695

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 24

Variable vol2 Removed: R-Square = 0.9541 and C(p) = 18.4445

Variable vol Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.15928	0.65084	132.20	<.0001
Error	70	0.34462	0.00492		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	17.97704	2.21813	0.32338	65.68	<.0001
vol	-0.02870	0.01107	0.03309	6.72	0.0116
hp	0.02167	0.00636	0.05706	11.59	0.0011
sp	-0.21425	0.03470	0.18765	38.12	<.0001
wt	-0.09484	0.01617	0.16925	34.38	<.0001
lowvol	0.15640	0.05910	0.03448	7.00	0.0100
hihp	-0.12248	0.07980	0.01160	2.36	0.1294
hp2	-0.00005155	0.00001104	0.10736	21.81	<.0001
sp2	0.00075948	0.00012677	0.17670	35.89	<.0001
wt2	0.00096433	0.00024106	0.07879	16.00	0.0002
hpvol	-0.00007850	0.00003379	0.02657	5.40	0.0231
spvol	0.00034834	0.00013535	0.03261	6.62	0.0122

Bounds on condition number: 3904.6, 164541

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 25

Variable hihp Removed: R-Square = 0.9570 and C(p) = 13.5344

Variable wtvol Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.18142	0.65286	141.71	<.0001
Error	70	0.32249	0.00461		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	22.23647	2.71317	0.30945	67.17	<.0001
vol	-0.08022	0.02221	0.06009	13.04	0.0006
hp	0.03763	0.00847	0.09091	19.73	<.0001
sp	-0.25275	0.03673	0.21813	47.35	<.0001
wt	-0.13341	0.02212	0.16757	36.37	<.0001
lowvol	0.09894	0.06278	0.01144	2.48	0.1195
hp2	-0.00005282	0.00001059	0.11459	24.87	<.0001
sp2	0.00073089	0.00012287	0.16300	35.38	<.0001
wt2	0.00081449	0.00023066	0.05745	12.47	0.0007
hpvoll	-0.00024838	0.00007095	0.05647	12.26	0.0008
spvoll	0.00083665	0.00022511	0.06363	13.81	0.0004
wtvoll	0.00050711	0.00018741	0.03373	7.32	0.0085

Bounds on condition number: 7458.9, 329644

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 26

Variable hp2 Removed: R-Square = 0.9575 and C(p) = 12.7884

Variable hpsp Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	11	7.18478	0.65316	143.27	<.0001
Error	70	0.31913	0.00456		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	28.49404	3.62074	0.28234	61.93	<.0001
vol	-0.08597	0.02216	0.06861	15.05	0.0002
hp	0.07750	0.01436	0.13281	29.13	<.0001
sp	-0.39144	0.06009	0.19345	42.43	<.0001
wt	-0.13156	0.02170	0.16755	36.75	<.0001
lowvol	0.09621	0.06246	0.01082	2.37	0.1280
sp2	0.00149	0.00025876	0.15092	33.10	<.0001
wt2	0.00051388	0.00020198	0.02951	6.47	0.0132
hpsp	-0.00040997	0.00008060	0.11795	25.87	<.0001
hpvol	-0.00026806	0.00007082	0.06532	14.33	0.0003
spvol	0.00089156	0.00022467	0.07179	15.75	0.0002
wtvol	0.00056919	0.00018642	0.04250	9.32	0.0032

Bounds on condition number: 14891, 735605

The above model is the best 11-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 27

Variable hihp Entered: R-Square = 0.9581 and C(p) = 13.6640

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	12	7.18985	0.59915	131.64	<.0001
Error	69	0.31406	0.00455		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	28.11815	3.63529	0.27230	59.83	<.0001
vol	-0.08043	0.02276	0.05686	12.49	0.0007
hp	0.07504	0.01453	0.12136	26.66	<.0001
sp	-0.38712	0.06018	0.18832	41.37	<.0001
wt	-0.13013	0.02173	0.16330	35.88	<.0001
lowvol	0.09018	0.06267	0.00942	2.07	0.1547
hihp	-0.08434	0.07991	0.00507	1.11	0.2950
sp2	0.00149	0.00025855	0.15072	33.11	<.0001
wt2	0.00058388	0.00021244	0.03438	7.55	0.0076
hpsp	-0.00040306	0.00008080	0.11327	24.89	<.0001
hpvol	-0.00024790	0.00007330	0.05206	11.44	0.0012
spvol	0.00083712	0.00023034	0.06012	13.21	0.0005
wtvol	0.00050736	0.00019527	0.03073	6.75	0.0114

Bounds on condition number: 14892, 820150

The above model is the best 12-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 28

Variable vol2 Entered: R-Square = 0.9584 and C(p) = 15.2556

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	13	7.19169	0.55321	120.49	<.0001
Error	68	0.31221	0.00459		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	28.10967	3.65120	0.27214	59.27	<.0001
vol	-0.07783	0.02322	0.05158	11.23	0.0013
hp	0.07645	0.01477	0.12310	26.81	<.0001
sp	-0.38814	0.06047	0.18919	41.20	<.0001
wt	-0.13651	0.02403	0.14814	32.26	<.0001
lowvol	0.14958	0.11296	0.00805	1.75	0.1899
hihp	-0.08774	0.08044	0.00546	1.19	0.2792
sp2	0.00148	0.00025980	0.14954	32.57	<.0001
wt2	0.00056947	0.00021457	0.03234	7.04	0.0099
vol2	-0.00002212	0.00003493	0.00184	0.40	0.5287
hpsp	-0.00040369	0.00008116	0.11360	24.74	<.0001
hpvol	-0.00025639	0.00007483	0.05390	11.74	0.0010
spvol	0.00084750	0.00023192	0.06131	13.35	0.0005
wtvol	0.00056910	0.00021902	0.03100	6.75	0.0115

Bounds on condition number: 14906, 906928

The above model is the best 13-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 29

Variable hpwt Entered: R-Square = 0.9585 and C(p) = 17.1024

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	14	7.19238	0.51374	110.49	<.0001
Error	67	0.31152	0.00465		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	27.26823	4.27387	0.18927	40.71	<.0001
vol	-0.07560	0.02407	0.04585	9.86	0.0025
hp	0.07583	0.01495	0.11967	25.74	<.0001
sp	-0.36635	0.08307	0.09044	19.45	<.0001
wt	-0.14793	0.03825	0.06954	14.96	0.0003
lowvol	0.16191	0.11809	0.00874	1.88	0.1749
hihp	-0.07668	0.08590	0.00370	0.80	0.3752
sp2	0.00134	0.00044907	0.04152	8.93	0.0039
wt2	0.00088676	0.00085103	0.00505	1.09	0.3012
vol2	-0.00002471	0.00003579	0.00222	0.48	0.4922
hpsp	-0.00035517	0.00015005	0.02605	5.60	0.0208
hpvol	-0.00025020	0.00007699	0.04910	10.56	0.0018
hpwt	-0.00010233	0.00026549	0.00069077	0.15	0.7011
spvol	0.00083281	0.00023648	0.05767	12.40	0.0008
wtvol	0.00054591	0.00022847	0.02655	5.71	0.0197

Bounds on condition number: 43976, 2116649

The above model is the best 14-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 30

Variable hp2 Entered: R-Square = 0.9586 and C(p) = 18.8821

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	7.19337	0.47956	101.93	<.0001
Error	66	0.31053	0.00471		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	30.68325	8.58655	0.06008	12.77	0.0007
vol	-0.07764	0.02462	0.04678	9.94	0.0024
hp	0.10030	0.05535	0.01545	3.28	0.0745
sp	-0.44200	0.18464	0.02696	5.73	0.0195
wt	-0.15016	0.03878	0.07053	14.99	0.0003
lowvol	0.15823	0.11906	0.00831	1.77	0.1884
hihp	-0.08372	0.08776	0.00428	0.91	0.3436
hp2	0.00003507	0.00007634	0.00099324	0.21	0.6474
sp2	0.00175	0.00101	0.01433	3.05	0.0856
wt2	0.00084696	0.00086046	0.00456	0.97	0.3286
vol2	-0.00002331	0.00003613	0.00196	0.42	0.5210
hpsp	-0.00059540	0.00054420	0.00563	1.20	0.2779
hpvol	-0.00025561	0.00007834	0.05009	10.65	0.0017
hpwt	-0.00015185	0.00028800	0.00131	0.28	0.5998
spvol	0.00085076	0.00024107	0.05860	12.45	0.0008
wtvol	0.00055855	0.00023147	0.02740	5.82	0.0186

Bounds on condition number: 456111, 15534502

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 31

Variable hihp Removed: R-Square = 0.9609 and C(p) = 15.0154
 Variable spwt Entered

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	15	7.21081	0.48072	108.25	<.0001
Error	66	0.29310	0.00444		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	80.69148	24.73450	0.04726	10.64	0.0018
vol	-0.06802	0.02441	0.03449	7.77	0.0069
hp	0.45539	0.17238	0.03099	6.98	0.0103
sp	-1.46692	0.51290	0.03633	8.18	0.0057
wt	-1.04624	0.40276	0.02997	6.75	0.0116
lowvol	0.16308	0.11517	0.00890	2.01	0.1615
hp2	0.00065266	0.00029425	0.02185	4.92	0.0300
sp2	0.00699	0.00266	0.03071	6.91	0.0106
wt2	0.00479	0.00187	0.02919	6.57	0.0126
vol2	-0.00002405	0.00003510	0.00209	0.47	0.4956
hpsp	-0.00421	0.00176	0.02524	5.68	0.0200
hpvol	-0.00022622	0.00007752	0.03782	8.52	0.0048
hpwt	-0.00332	0.00143	0.02397	5.40	0.0233
spvol	0.00075625	0.00023899	0.04447	10.01	0.0024
spwt	0.00919	0.00416	0.02171	4.89	0.0305
wtvol	0.00048746	0.00022766	0.02036	4.58	0.0360

Bounds on condition number: 5079541, 166632105

The above model is the best 15-variable model found.

The REG Procedure
 Model: MODEL1
 Dependent Variable: Impg

Maximum R-Square Improvement: Step 32

Variable hihp Entered: R-Square = 0.9609 and C(p) = 17.0000

Analysis of Variance					
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	7.21088	0.45068	99.97	<.0001
Error	65	0.29303	0.00451		
Corrected Total	81	7.50390			

Variable	Parameter Estimate	Standard Error	Type II SS	F Value	Pr > F
Intercept	82.11021	27.42109	0.04042	8.97	0.0039
vol	-0.06798	0.02459	0.03445	7.64	0.0074
hp	0.46592	0.19331	0.02619	5.81	0.0188
sp	-1.49500	0.56417	0.03166	7.02	0.0101
wt	-1.07600	0.47144	0.02348	5.21	0.0257
lowvol	0.16449	0.11659	0.00897	1.99	0.1631
hihp	0.01225	0.09875	0.00006934	0.02	0.9017
hp2	0.00067099	0.00033129	0.01849	4.10	0.0469
sp2	0.00712	0.00290	0.02725	6.05	0.0166
wt2	0.00494	0.00224	0.02190	4.86	0.0311
vol2	-0.00002413	0.00003537	0.00210	0.47	0.4974
hpsp	-0.00431	0.00196	0.02182	4.84	0.0314
hpvol	-0.00022634	0.00007811	0.03786	8.40	0.0051
hpwt	-0.00343	0.00169	0.01863	4.13	0.0462
spvol	0.00075629	0.00024079	0.04447	9.86	0.0025
spwt	0.00949	0.00481	0.01750	3.88	0.0531
wtvol	0.00048783	0.00022940	0.02039	4.52	0.0373

Bounds on condition number: 6164031, 217572668

The above model is the best 16-variable model found.

No further improvement in R-Square is possible.

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	16	7.21088	0.45068	99.97	<.0001
Error	65	0.29303	0.00451		
Corrected Total	81	7.50390			

Root MSE	0.06714	R-Square	0.9609
Dependent Mean	3.47571	Adj R-Sq	0.9513
Coeff Var	1.93177		

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
Intercept	1	82.11021	27.42109	2.99	0.0039	0
vol	1	-0.06798	0.02459	-2.76	0.0074	5339.41301
hp	1	0.46592	0.19331	2.41	0.0188	2169353
sp	1	-1.49500	0.56417	-2.65	0.0101	1126961
wt	1	-1.07600	0.47144	-2.28	0.0257	264686
lowvol	1	0.16449	0.11659	1.41	0.1631	24.15903
hihp	1	0.01225	0.09875	0.12	0.9017	13.84857
hp2	1	0.00067099	0.00033129	2.03	0.0469	734312
sp2	1	0.00712	0.00290	2.46	0.0166	1888673
wt2	1	0.00494	0.00224	2.20	0.0311	26683
vol2	1	-0.00002413	0.00003537	-0.68	0.4974	389.95319
hpsp	1	-0.00431	0.00196	-2.20	0.0314	6164031
hpspvol	1	-0.00022634	0.00007811	-2.90	0.0051	4362.20459
hpwt	1	-0.00343	0.00169	-2.03	0.0462	466725
spvol	1	0.00075629	0.00024079	3.14	0.0025	8721.14411

The REG Procedure
Model: MODEL1
Dependent Variable: Impg

Parameter Estimates						
Variable	DF	Parameter Estimate	Standard Error	t Value	Pr > t	Variance Inflation
spwt	1	0.00949	0.00481	1.97	0.0531	736390
wtvol	1	0.00048783	0.00022940	2.13	0.0373	1626.72649

Obs	_MODEL_	_TYPE_	_DEPVAR_	_RMSE_	_PRESS_	Intercept	vol	hp	sp
1	MODEL1	PARMS	lmpg	0.067143	0.44322	82.1102	-0.067982	0.46592	-1.49500

Obs	wt	lowvol	hihp	hp2	sp2	wt2	vol2	hpsp	hpvol
1	-1.07600	0.16449	0.012247	.000670994	.007124851	.004936609	-.000024134	-.004308279	-.000226344

Obs	hpwt	spvol	spwt	wtvol	lmpg	_IN_	_P_	_EDF_	_RSQ_	_CP_	_BIC_
1	-.003426317	.000756289	.009486905	.000487828	-1	16	17	65	0.96095	17	-417.249