

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=25 Maxiter=1

Initial Seeds		
Cluster	VALP	HINCP
1	490000.000	238800.000
2	750000.000	250000.000
3	655000.000	12000.000
4	200000.000	170000.000
5	550000.000	755000.000
6	135000.000	1246000.000
7	350000.000	1425000.000
8	400000.000	0.000
9	340000.000	1027000.000
10	700000.000	1007600.000
11	430.000	346000.000
12	900000.000	675000.000
13	280000.000	680700.000
14	350.000	606000.000
15	2267000.000	1019000.000
16	1175000.000	475000.000
17	600000.000	488000.000
18	1100000.000	0.000
19	2267000.000	676000.000
20	2267000.000	-5100.000
21	300000.000	415500.000
22	130.000	0.000
23	1000000.000	966000.000
24	2267000.000	337000.000
25	1000000.000	295500.000

Criterion Based on Final Seeds =	42915.4
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Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
1	2055	62727.4	171405		8	153411
2	436	65789.8	182377		3	211841
3	8558	53016.3	153382		2	211841
4	14130	45174.0	169141		22	125907

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Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
5	44	69571.1	158420		17	211364
6	138	90588.6	91968.7		7	281798
7	14	.	62225.4		6	281798
8	4724	46414.5	153057		4	148020
9	13	66934.4	140201		5	324373
10	11	68069.7	167705		23	238386
11	489	55784.6	159610		22	191396
12	105	77459.5	218509		16	181700
13	102	63090.4	169810		14	217539
14	114	47919.8	212268		13	217539
15	20	50691.7	160182		19	349856
16	77	57575.3	231859		12	181700
17	239	74814.1	186124		5	211364
18	1000	54114.0	189025		25	172054
19	80	56942.6	156559		24	230207
20	1223	14586.2	139425		24	299638
21	371	76489.6	166421		13	219223
22	15997	34008.7	132826		4	125907
23	8	76982.3	179705		10	238386
24	119	68861.8	140460		19	230207
25	150	55878.0	197635		18	172054

7989 Observation(s) were omitted due to missing values.

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
VALP	253558	46059	0.967025	29.325596
HINCP	86804	37706	0.811408	4.302465
OVER-ALL	177923	41462	0.945726	17.425159

Pseudo F Statistic =	36441.82
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Approximate Expected Over-All R-Squared =	0.97551
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Cubic Clustering Criterion =	-183.493
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WARNING: The two values above are invalid for correlated variables.

Cluster Means		
Cluster	VALP	HINCP
1	438573.377	184295.312
2	722966.667	214043.931
3	635054.726	21305.225
4	191748.545	93372.376
5	575341.463	685829.048
6	123507.246	1335500.000
7	390714.286	1425000.000
8	337700.029	68712.085
9	351615.385	920700.000
10	730454.545	961566.667
11	68225.251	239642.306
12	852831.683	550400.610
13	301811.881	585276.267
14	94326.321	519907.484
15	2267000.000	944321.500
16	1024090.909	489696.316
17	606235.808	476734.770
18	967985.075	77939.037
19	2267000.000	594465.138
20	2267000.000	64620.437
21	308338.753	366150.809
22	74170.600	48339.005
23	968750.000	968120.000
24	2267000.000	364258.328
25	944948.718	248444.100

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Cluster Standard Deviations		
Cluster	VALP	HINCP
1	70463.4703	53892.1150
2	71773.5063	59204.4745
3	72541.3769	18952.4645
4	44002.7333	46315.6668
5	74863.4122	63841.5696
6	19800.9240	126572.1138
7	18734.7007	.
8	53986.4986	37337.3284
9	40495.9637	85559.8816
10	41137.2426	87032.6519
11	55183.3256	56379.4676
12	72025.6995	82536.2495
13	62438.7240	63735.4379
14	48362.8423	47472.6957
15	0.0000	71688.8646
16	59667.9928	55403.5601
17	85982.9457	61654.2376
18	74652.2751	16842.7993
19	0.0000	80528.9352
20	0.0000	20628.0700
21	68825.9986	83452.4021
22	37698.1911	29866.8774
23	37201.1905	102316.2656
24	0.0000	97385.2856
25	60891.6287	50367.7183

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Distance Between Cluster Centroids									
Nearest Cluster	1	2	3	4	5	6	7	8	9
1	.	285944.966	255285.505	263038.928	519847.667	1193540.490	1241627.406	153410.934	741521.110
2	285944.966	.	211841.257	544751.610	494342.388	1271619.169	1255709.459	411766.594	798288.528
3	255285.505	211841.257	.	449125.867	667201.308	1410244.210	1424802.187	301109.991	942999.906
4	263038.928	544751.610	449125.867	.	705796.312	1244000.767	1346409.854	148020.153	842631.831
5	519847.667	494342.388	667201.308	705796.312	.	791344.745	761879.841	661291.764	324372.814
6	1193540.490	1271619.169	1410244.210	1244000.767	791344.745	.	281797.537	1284768.528	473383.949
7	1241627.406	1255709.459	1424802.187	1346409.854	761879.841	281797.537	.	1357323.624	505813.418
8	153410.934	411766.594	301109.991	148020.153	661291.764	1284768.528	1357323.624	.	852101.546
9	741521.110	798288.528	942999.906	842631.831	324372.814	473383.949	505813.418	852101.546	.
10	830268.255	747560.237	945088.728	1021746.290	316372.095	712889.305	574625.007	975420.634	381036.999
11	374460.979	655241.634	607426.321	191449.463	675462.406	1097251.195	1228442.933	319114.081	737664.931
12	552849.919	360556.151	572161.454	803682.600	308774.487	1071585.362	989179.753	705254.887	623168.851
13	423661.932	561413.217	655068.035	504066.836	291426.310	771121.387	844416.713	517809.340	339100.973
14	480771.844	699100.277	735521.190	437519.471	508827.606	816114.378	952385.578	512648.076	476269.150
15	1980096.897	1708023.496	1874887.842	2242940.706	1711293.941	2178894.629	1936878.907	2118700.126	1915530.266
16	660379.098	408240.182	608883.705	921882.029	489738.822	1235489.703	1129583.520	805208.149	798741.201
17	337092.758	287458.815	456340.444	564594.027	211364.324	985141.911	972448.699	488460.823	511797.504
18	539989.262	280283.004	337712.904	776389.939	723670.692	1514794.500	1465542.494	630352.580	1044106.142
19	1873868.512	1590207.291	1729669.813	2134891.696	1694123.953	2267971.308	2051886.020	1999653.633	1942968.711
20	1832338.940	1551246.697	1632520.010	2075450.620	1802112.300	2491926.173	2317559.198	1929304.310	2097992.003
21	223679.411	441647.833	475038.739	296650.215	416514.854	986813.326	1062048.651	298884.391	556235.267
22	388938.943	669622.624	561535.242	125907.020	810904.303	1288106.181	1412584.653	264315.762	915417.563
23	946291.917	793120.523	1003897.781	1170006.267	484209.106	921630.825	736793.473	1098707.724	618953.787
24	1837261.713	1551323.080	1667591.739	2092856.373	1721951.315	2353268.274	2155370.264	1951805.820	1994574.030
25	510422.426	224631.705	384221.752	768997.880	572638.730	1362518.485	1300561.260	633288.692	896645.102

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Distance Between Cluster Centroids									
Nearest Cluster	10	11	12	13	14	15	16	17	18
1	830268.255	374460.979	552849.919	423661.932	480771.844	1980096.897	660379.098	337092.758	539989.262
2	747560.237	655241.634	360556.151	561413.217	699100.277	1708023.496	408240.182	287458.815	280283.004
3	945088.728	607426.321	572161.454	655068.035	735521.190	1874887.842	608883.705	456340.444	337712.904
4	1021746.290	191449.463	803682.600	504066.836	437519.471	2242940.706	921882.029	564594.027	776389.939
5	316372.095	675462.406	308774.487	291426.310	508827.606	1711293.941	489738.822	211364.324	723670.692
6	712889.305	1097251.195	1071585.362	771121.387	816114.378	2178894.629	1235489.703	985141.911	1514794.500
7	574625.007	1228442.933	989179.753	844416.713	952385.578	1936878.907	1129583.520	972448.699	1465542.494
8	975420.634	319114.081	705254.887	517809.340	512648.076	2118700.126	805208.149	488460.823	630352.580
9	381036.999	737664.931	623168.851	339100.973	476269.150	1915530.266	798741.201	511797.504	1044106.142
10	.	979654.236	428991.481	570376.191	774417.169	1536642.226	555773.283	500492.021	914996.470
11	979654.236	.	843906.379	417163.695	281477.949	2308935.505	988031.459	587935.538	914174.867
12	428991.481	843906.379	.	552122.390	759118.051	1468007.390	181699.570	257363.909	486292.341
13	570376.191	417163.695	552122.390	.	217539.274	1997718.154	728575.680	323195.272	837363.594
14	774417.169	281477.949	759118.051	217539.274	.	2213738.506	930255.290	513726.782	979089.233
15	1536642.226	2308935.505	1468007.390	1997718.154	2213738.506	.	1323445.151	1725333.316	1561428.304
16	555773.283	988031.459	181699.570	728575.680	930255.290	1323445.151	.	418056.082	415562.175
17	500492.021	587935.538	257363.909	323195.272	513726.782	1725333.316	418056.082	.	538424.153
18	914996.470	914174.867	486292.341	837363.594	979089.233	1561428.304	415562.175	538424.153	.
19	1579789.691	2227220.160	1414854.661	1965209.601	2173952.566	349856.363	1247316.926	1664931.873	1397940.982
20	1779180.843	2205729.597	1495277.367	2032989.630	2219864.233	879701.063	1313587.649	1711132.936	1299083.200
21	729864.224	271401.723	574822.181	219222.641	263519.328	2042213.316	726336.451	317760.079	719860.608
22	1124585.870	191395.664	926487.419	583199.945	471999.029	2368815.191	1047446.834	683093.198	894304.465
23	238385.549	1158285.187	433504.954	769009.609	982604.310	1298468.109	481613.785	610635.721	890181.292
24	1648559.731	2202303.238	1426366.355	1977577.627	2178241.854	580063.172	1249222.837	1664568.608	1330194.915
25	744682.177	876767.649	315694.919	726003.374	892889.036	1494009.688	253901.788	408464.277	172054.207

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Distance Between Cluster Centroids							
Nearest Cluster	19	20	21	22	23	24	25
1	1873868.512	1832338.940	223679.411	388938.943	946291.917	1837261.713	510422.426
2	1590207.291	1551246.697	441647.833	669622.624	793120.523	1551323.080	224631.705
3	1729669.813	1632520.010	475038.739	561535.242	1003897.781	1667591.739	384221.752
4	2134891.696	2075450.620	296650.215	125907.020	1170006.267	2092856.373	768997.880
5	1694123.953	1802112.300	416514.854	810904.303	484209.106	1721951.315	572638.730
6	2267971.308	2491926.173	986813.326	1288106.181	921630.825	2353268.274	1362518.485
7	2051886.020	2317559.198	1062048.651	1412584.653	736793.473	2155370.264	1300561.260
8	1999653.633	1929304.310	298884.391	264315.762	1098707.724	1951805.820	633288.692
9	1942968.711	2097992.003	556235.267	915417.563	618953.787	1994574.030	896645.102
10	1579789.691	1779180.843	729864.224	1124585.870	238385.549	1648559.731	744682.177
11	2227220.160	2205729.597	271401.723	191395.664	1158285.187	2202303.238	876767.649
12	1414854.661	1495277.367	574822.181	926487.419	433504.954	1426366.355	315694.919
13	1965209.601	2032989.630	219222.641	583199.945	769009.609	1977577.627	726003.374
14	2173952.566	2219864.233	263519.328	471999.029	982604.310	2178241.854	892889.036
15	349856.363	879701.063	2042213.316	2368815.191	1298468.109	580063.172	1494009.688
16	1247316.926	1313587.649	726336.451	1047446.834	481613.785	1249222.837	253901.788
17	1664931.873	1711132.936	317760.079	683093.198	610635.721	1664568.608	408464.277
18	1397940.982	1299083.200	719860.608	894304.465	890181.292	1330194.915	172054.207
19	.	529844.701	1971923.252	2259812.941	1350951.894	230206.810	1366583.386
20	529844.701	.	1981735.210	2192889.843	1581696.723	299637.891	1334769.917
21	1971923.252	1981735.210	.	394764.571	893593.824	1958662.161	647400.275
22	2259812.941	2192889.843	394764.571	.	1283070.295	2215469.656	893474.443
23	1350951.894	1581696.723	893593.824	1283070.295	.	1431817.719	720069.373
24	230206.810	299637.891	1958662.161	2215469.656	1431817.719	.	1327114.361
25	1366583.386	1334769.917	647400.275	893474.443	720069.373	1327114.361	.

