

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Initial Seeds		
Cluster	VALP	HINCP
1	2267000.000	1019000.000
2	700000.000	12400.000
3	120000.000	1425000.000
4	400000.000	505600.000
5	800000.000	380000.000
6	340000.000	1027000.000
7	316000.000	11500.000
8	470.000	217030.000
9	1150000.000	129000.000
10	1100000.000	712000.000
11	675000.000	821000.000
12	2267000.000	509000.000
13	950000.000	1106000.000
14	350.000	606000.000
15	2267000.000	-5100.000

Minimum Distance Between Initial Seeds =	376565.7
---	----------

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History												
Iteration	Criterion	Relative Change in Cluster Seeds										
		1	2	3	4	5	6	7	8	9	10	11
1	107961	0.2278	0.1613	0.1592	0.2803	0.1096	0.2854	0.2729	0.4374	0.3736	0.3503	0.2688
2	55663.5	0.1109	0.2439	0.0592	0.2316	0.1248	0.3649	0.0552	0.0393	0.1426	0.2145	0.2346
3	49864.1	0.1027	0.1210	0.0448	0.1402	0.1067	0.2502	0.00756	0.0115	0.1119	0.0767	0.1945
4	47275.2	0.1621	0.0811	0.0454	0.0908	0.1229	0.2015	0.0167	0.000973	0.0524	0.0590	0.0956
5	45791.2	0.0465	0.0477	0.2247	0.0649	0.0922	0.1595	0.0166	0.00331	0.00753	0.0269	0.0352
6	44864.2	0.0361	0.0492	0.00288	0.0494	0.0568	0.0639	0.0194	0.00436	0.00857	0.0194	0.0172
7	43986.9	0.00843	0.0479	0.00284	0.0323	0.0524	0.0469	0.0196	0.00560	0.00459	0.0108	0.0209
8	43290.5	0.00597	0.0295	0.00267	0.0358	0.0647	0.0467	0.0146	0.00569	0.0126	0.0129	0.0277
9	42617.5	0	0.0241	0.00110	0.0237	0.0446	0.0415	0.0154	0.00554	0.0213	0.00562	0.0144
10	42078.7	0.00855	0.0147	0.00224	0.0205	0.0354	0.0332	0.0131	0.00586	0.0236	0.000045	0.0173
11	41654.4	0	0.0101	0.00721	0.0179	0.0311	0.0217	0.0128	0.00577	0.0299	0.00166	0.0108
12	41305.2	0.00852	0.0176	0.0119	0.0179	0.0258	0.0268	0.0162	0.00544	0.0159	0.00321	0.0219
13	40929.5	0.0242	0.00785	0.00216	0.0267	0.0284	0.0301	0.0101	0.00418	0.00555	0.0173	0.0125
14	40610.7	0.0301	0.00934	0.00183	0.0175	0.0120	0.0339	0.00844	0.00363	0.00424	0.00778	0.00312
15	40367.4	0.00716	0.0185	0	0.0132	0.0163	0.0205	0.00721	0.00291	0.00152	0	0.00263
16	40131.7	0.0147	0.0245	0.00120	0.0131	0.0150	0.0207	0.00656	0.00332	0.0153	0.00390	0.00348
17	39942.0	0.0185	0.0171	0.00312	0.0103	0.0184	0.0129	0.00474	0.00328	0.0187	0.00154	0.000610
18	39822.5	0.00692	0.0150	0.00250	0.00841	0.0165	0.00509	0.00297	0.00277	0.0304	0.00568	0.00198
19	39718.7	0.0108	0.0108	0.0269	0.00789	0.0175	0.00527	0.00197	0.00261	0.0198	0.00406	0.00265
20	39637.8	0.0104	0.0131	0.0131	0.00662	0.0169	0.00386	0.00139	0.00228	0.0177	0.00789	0.00434
21	39574.1	0.00384	0.0145	0.00669	0.00679	0.00994	0.000198	0.00134	0.00186	0.00216	0.00161	0.00611
22	39521.6	0	0.0144	0.00622	0.00694	0.00886	0.000251	0.00127	0.00211	0.000112	0.000161	0.00574
23	39467.5	0	0.0104	0.00367	0.0134	0.0224	0.00139	0.000866	0.00115	0.000799	0	0.00435
24	39405.6	0	0.00944	0	0.00772	0.00793	0.00431	0.000832	0.000891	0.00105	0.000197	0.0127
25	39380.3	0	0.00493	0.000684	0.00589	0.00543	0.00208	0.00123	0.00112	0.00291	0.00296	0.0191
26	39362.0	0	0.00349	0	0.00430	0.00363	0.00689	0.00114	0.000484	0.00186	0.0161	0.0203
27	39346.2	0	0.00346	0	0.00396	0.00409	0.00429	0.00104	0.000570	0.00115	0.0143	0.0221
28	39328.5	0	0.00253	0	0.00232	0.00323	0.00620	0.000966	0.000233	0.000864	0.0252	0.0256
29	39313.5	0	0.00155	0	0.00166	0.00359	0.00794	0.000788	0.000427	0.000527	0.00445	0.0171
30	39305.6	0	0.00189	0	0.00150	0.00582	0.00430	0.000498	0.000481	0.0100	0.00336	0.00958
31	39294.8	0	0.00163	0	0.00190	0.00330	0.00339	0.000387	0.000456	0.00344	0.00267	0.0126
32	39287.2	0.00110	0.000987	0	0.00161	0.00394	0	0.000486	0.000731	0.00305	0	0.0107
33	39280.5	0	0.00103	0.00448	0.00205	0.00491	0.00387	0.000706	0.000557	0.00148	0	0.0146
34	39270.6	0	0.00133	0.00217	0.00300	0.00609	0.0119	0.000397	0.000421	0.00223	0	0.0204

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History				
Iteration	Relative Change in Cluster Seeds			
	12	13	14	15
1	0.0257	0.2139	0.3165	0.0599
2	0.0182	0.2341	0.2066	0.00286
3	0.0166	0.0290	0.1357	0.00711
4	0.0511	0.0913	0.0904	0.000124
5	0.0451	0.1023	0.0942	0.000670
6	0.0159	0.0649	0.1116	0.000214
7	0.0223	0.0219	0.0994	0.000495
8	0.0112	0.0702	0.0826	0.000380
9	0.0146	0.0352	0.0729	0.000809
10	0.0176	0.0159	0.0584	0.000459
11	0.0116	0.0163	0.0441	0.00116
12	0.0154	0.0295	0.0369	0.000626
13	0.0307	0.0511	0.0331	0.000335
14	0.0337	0.0308	0.0276	0.000446
15	0.0152	0.0231	0.0295	0.000599
16	0.0198	0.0457	0.0210	0.000708
17	0.00870	0.0210	0.0138	0.000782
18	0.00242	0.0188	0.0132	0.000320
19	0.00377	0.00945	0.0101	0.000322
20	0.00375	0	0.00822	0.000162
21	0.00138	0	0.00678	0.000205
22	0.00332	0.00876	0.00550	0.00117
23	0	0.0111	0.00390	0.000254
24	0.00417	0	0.00307	0.000087
25	0.000540	0.0224	0.00336	0.000087
26	0	0.0188	0.00225	0.000081
27	0.00134	0.0223	0.00209	0.000312
28	0.000812	0.0150	0.00191	0.000052
29	0	0.0153	0.00215	0.000086
30	0	0.0291	0.00216	5.753E-6
31	0	0.0304	0.00216	0.000052
32	0	0.0182	0.00226	0.000052
33	0.000401	0.0115	0.00249	0.000086
34	0	0.0111	0.00188	0.000023

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History												
Iteration	Criterion	Relative Change in Cluster Seeds										
		1	2	3	4	5	6	7	8	9	10	11
35	39257.7	0	0.00143	0.00468	0.00294	0.00430	0.0142	0.000254	0.000330	0.000815	0.00738	0.0175
36	39245.8	0	0.00123	0.00126	0.00294	0.00329	0.00950	0.000102	0.000383	0	0.00355	0.0141
37	39237.2	0	0.00167	0	0.00321	0.00525	0.00307	0.000271	0.000390	0.000386	0.00220	0.0119
38	39229.5	0	0.00144	0	0.00321	0.00391	0.000628	0.000177	0.000397	0	0	0.00957
39	39223.4	0	0.000998	0	0.00305	0.00323	0.000117	0.000269	0.000481	0.000023	0.00218	0.00565
40	39219.5	0	0.000666	0.000378	0.00331	0.00301	0	0.000220	0.000518	0.000818	0.00229	0.00269
41	39215.0	0	0.000889	0	0.00444	0.00402	0	0.000253	0.000648	0.000236	0	0.00407
42	39208.6	0	0.000501	0.00109	0.00516	0.00393	0	0.000319	0.000685	0	0	0.00410
43	39200.9	0	0.000493	0.00191	0.00584	0.00419	0	0.000328	0.000652	0.000792	0.00253	0.00491
44	39193.3	0.0211	0.000389	0	0.00431	0.00244	0.00179	0.000358	0.000557	0.000805	0	0.00632
45	39186.5	0	0.000538	0	0.00238	0.00168	0.00225	0.000035	0.000565	0	0.00460	0.00719
46	39182.7	0	0.000498	0	0.00259	0.00116	0.00202	0.000281	0.000420	0.00223	0.00864	0.00611
47	39177.9	0	0.000429	0	0.00165	0.000244	0.00273	0.000104	0.000592	0	0.00844	0.00448
48	39174.1	0	0.000192	0	0.00219	0.000390	0.00241	0.000186	0.000340	0	0.00399	0.00557
49	39171.3	0	0.000329	0	0.00172	0.00185	0.000139	0.000218	0.000377	0.000051	0.000252	0.0117
50	39164.6	0.000967	0.000375	0	0.00190	0.00193	0.00103	0.000285	0.000272	0.000160	0.00340	0.0239
51	39138.3	0.00130	0.000634	0	0.00169	0.00288	0.00132	0.000100	0.000323	0	0.0178	0.0411
52	39076.3	0.0213	0.000590	0	0.00228	0.00508	0.00372	0.000128	0.000319	0.000649	0.0148	0.0399
53	39010.6	0.0146	0.000574	0	0.00240	0.00805	0	0.000087	0.000208	0.000693	0.0245	0.0492
54	38925.1	0.0151	0.000434	0	0.00379	0.0103	0.00468	0.000380	0.000246	0.000868	0.00328	0.0515
55	38825.9	0	0.00121	0	0.00535	0.0133	0.00562	0.000536	0.000528	0.000671	0.0187	0.0541
56	38692.0	0	0.00253	0	0.00626	0.0155	0.00564	0.000563	0.000411	0.00194	0.0256	0.0468
57	38567.5	0.00363	0.00363	0	0.00747	0.0267	0.00643	0.000822	0.000473	0.00395	0.0161	0.0433
58	38444.9	0	0.00143	0	0.00663	0.0220	0.00121	0.000603	0.000618	0.00287	0.0101	0.0371
59	38361.3	0	0.000829	0	0.00779	0.0111	0.00178	0.000855	0.000663	0.000800	0.0115	0.0293
60	38300.4	0	0.00122	0	0.00936	0.0113	0.00313	0.00107	0.000538	0.00100	0.00630	0.0285
61	38240.0	0	0.00122	0	0.00890	0.0103	0.00316	0.00132	0.000588	0.00175	0.00344	0.0264
62	38187.6	0	0.00256	0	0.00674	0.00865	0.00103	0.00115	0.000929	0.00218	0.0201	0.0235
63	38141.2	0	0.00268	0.1743	0.00462	0.00824	0.00196	0.000910	0.000997	0.00119	0.00738	0.0217
64	38101.2	0	0.00179	0.000775	0.00394	0.00667	0.00400	0.000598	0.000796	0.00224	0.00332	0.0184
65	38073.6	0	0.00250	0	0.00458	0.00474	0.00334	0.000318	0.000547	0.00512	0.00974	0.0165
66	38050.9	0	0.00163	0	0.00483	0.00360	0.00136	0.000659	0.000604	0.00269	0.00295	0.0133
67	38033.6	0	0.00192	0	0.00432	0.00382	0.000516	0.000589	0.000739	0.00161	0.0215	0.0128
68	38014.8	0	0.00188	0	0.00364	0.00174	0.00447	0.000562	0.000653	0.000786	0.00780	0.00976

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History				
Iteration	Relative Change in Cluster Seeds			
	12	13	14	15
35	0	0.0163	0.00165	5.658E-6
36	0	0.0254	0.00180	0.000045
37	0	0.0240	0.00186	0.000011
38	0	0.0213	0.00183	0.000039
39	0	0.00616	0.00204	5.606E-6
40	0	0.00432	0.00215	0.000050
41	0	0	0.00243	0.000542
42	0	0.00514	0.00297	0.000125
43	0	0.0131	0.00210	0.000057
44	0.000154	0.0197	0.00196	0.000073
45	0.000142	0.0135	0.00180	0.000096
46	0.000121	0.0164	0.00150	5.598E-6
47	0.00137	0.0239	0.00145	0.000056
48	0	0.0115	0.00110	0
49	0	0.0175	0.00112	0.000028
50	0	0.0456	0.000802	0
51	0.0507	0.0481	0.000780	5.554E-6
52	0.0124	0.0461	0.000860	0.000079
53	0.0256	0.0489	0.000898	0.000439
54	0.0114	0.0334	0.00131	0.000214
55	0.00166	0.0463	0.00145	0
56	0.000927	0.0449	0.00146	0
57	0.00221	0.0216	0.00150	0
58	0.00362	0.0172	0.00176	0.000049
59	0	0.0196	0.00231	0
60	0.00133	0.00701	0.00201	0.000049
61	0.00139	0.00969	0.00215	0.000022
62	0	0.0148	0.00220	5.379E-6
63	0.00143	0.0203	0.00229	0.000413
64	0	0.0148	0.00204	0.000033
65	0.00148	0.00913	0.00156	0.000038
66	0.00321	0.00951	0.00174	0.000090
67	0	0.0138	0.00164	0.000049
68	0	0.0157	0.00152	0.000075

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History													
Iteration	Criterion	Relative Change in Cluster Seeds											
		1	2	3	4	5	6	7	8	9	10	11	12
69	38002.5	0	0.00149	0	0.00364	0.00108	0.00287	0.000551	0.000622	0.000707	0.0130	0.00804	0.00150
70	37990.0	0	0.00172	0	0.00391	0.00185	0.00501	0.000298	0.000683	0.00153	0.0120	0.00953	0.00298
71	37976.7	0	0.00116	0	0.00386	0.00158	0.00226	0.000291	0.000640	0.000974	0.00531	0.00778	0
72	37966.3	0	0.000857	0	0.00530	0.00187	0.00170	0.000504	0.000724	0.0107	0.0115	0.00727	0.00149
73	37951.6	0	0.000928	0	0.00370	0.00167	0.00124	0.000625	0.000611	0.00205	0.0134	0.00683	0.00309
74	37941.3	0	0.00124	0	0.00362	0.00190	0.000227	0.000726	0.000588	0	0.0107	0.00768	0.00148
75	37932.4	0	0.000714	0	0.00370	0.00205	0.00271	0.000653	0.000513	0.00145	0.00274	0.00686	0
76	37926.2	0	0.000599	0	0.00326	0.00266	0.00119	0.000391	0.000510	0.00102	0	0.00711	0.00294
77	37919.7	0	0.000369	0	0.00307	0.00408	0.00119	0.000197	0.000408	0.00342	0	0.00805	0
78	37911.3	0	0.000596	0	0.00330	0.00355	0.00120	0.000216	0.000547	0.000974	0	0.00854	0.00147
79	37903.0	0	0.000718	0	0.00373	0.00220	0	0.000245	0.000351	0.00140	0.00214	0.00804	0
80	37894.0	0	0.00114	0.000775	0.00418	0.00187	0.000511	0.000177	0.000546	0.000354	0.00634	0.00783	0
81	37886.3	0	0.000954	0	0.00317	0.00108	0.000107	0.000344	0.000515	0.000017	0	0.00526	0.00148
82	37881.8	0	0.000451	0.00105	0.00271	0.000955	0	0.000596	0.000683	0.00102	0	0.00348	0.00146
83	37878.6	0	0.000163	0	0.00172	0.000558	0.000663	0.000523	0.000591	0.000136	0	0.00218	0
84	37876.9	0	0.000253	0	0.00162	0.000984	0.00109	0.000384	0.000571	0	0	0.00142	0
85	37875.3	0	0.000376	0	0.00144	0.000434	0	0.000764	0.000650	0	0	0.00127	0
86	37873.6	0	0.000083	0.00834	0.00163	0.000599	0	0.000867	0.000726	0.000019	0	0.00167	0
87	37871.2	0	0.000282	0.00156	0.00183	0.00157	0	0.000930	0.000889	0	0	0.00290	0
88	37868.1	0	0.000365	0	0.00192	0.000636	0	0.00112	0.000802	0	0	0.00228	0.00147
89	37864.9	0	0.000092	0	0.00125	0.000468	0.00124	0.00136	0.000831	0.000247	0	0.00162	0
90	37862.6	0	0.000066	0	0.00136	0.000761	0.000353	0.00134	0.000712	0	0	0.00147	0.00146
91	37860.3	0	0.000093	0	0.00143	0.00101	0.00119	0.00116	0.000797	0	0	0.00246	0
92	37857.8	0	0.000089	0	0.00159	0.000624	0	0.00145	0.000804	0	0	0.00143	0
93	37855.3	0	0.000465	0	0.00136	0.000087	0	0.00119	0.000728	0	0	0.000999	0
94	37853.4	0	0.000108	0	0.000943	0.000133	0	0.00112	0.000633	0.000018	0	0.000961	0
95	37851.9	0	0.000034	0	0.00119	0.000538	0	0.00106	0.000587	0	0	0.000406	0
96	37850.4	0	0.000101	0	0.00136	0.000166	0.000281	0.000795	0.000610	0	0	0.000286	0
97	37849.1	0	0.000267	0	0.00101	0.000121	0	0.00101	0.000382	0	0	0.000115	0
98	37848.3	0	0.000204	0	0.000707	0.000061	0	0.000868	0.000217	0	0	0	0
99	37847.8	0	0.000338	0	0.000626	0.000520	0	0.000705	0.000271	0	0	0.000067	0
100	37847.3	0	0.000393	0	0.000761	0.000030	0	0.000757	0.000138	0	0	0.000299	0
101	37847.0	0	0.000152	0	0.000432	0.000185	0	0.000604	0.000217	0	0	0.000236	0

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History			
Iteration	Relative Change in Cluster Seeds		
	13	14	15
69	0.0165	0.00169	0.000081
70	0.0129	0.00177	0.000016
71	0.0103	0.00191	0.000070
72	0.0142	0.00171	5.34E-6
73	0.0110	0.00156	0.000138
74	0.0104	0.00129	0.000053
75	0.00470	0.00105	5.322E-6
76	0.00135	0.00106	0
77	0.00618	0.00103	0.000053
78	0.00499	0.000964	0
79	0.00721	0.00101	0
80	0.00550	0.00123	5.279E-6
81	0.00365	0.00142	0.000384
82	0.00453	0.00157	0.000043
83	0.00337	0.00126	0
84	0	0.00130	0
85	0	0.00154	0
86	0	0.00157	0
87	0	0.00180	0
88	0	0.00205	0.000043
89	0.00123	0.00170	0
90	0	0.00160	0
91	0	0.00151	0.000384
92	0	0.00175	0.000058
93	0	0.00159	0.000053
94	0	0.00137	5.344E-6
95	0	0.00136	0
96	0	0.00144	0.000059
97	0	0.000991	0
98	0	0.000732	0.000070
99	0	0.000747	5.375E-6
100	0	0.000446	0.000011
101	0	0.000302	0

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

[illegible]

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Iteration History			
Iteration	Relative Change in Cluster Seeds		
	13	14	15
102	0	0.000462	0.000075
103	0	0.000179	5.393E-6
104	0	0.000197	0
105	0	0.000118	0
106	0	0.000115	0
107	0	0.000251	0
108	0	0.000225	0
109	0	0.000051	0.000065
110	0	0.000095	5.4E-6
111	0	0.000095	0
112	0	0.000071	0
113	0	0.000042	0
114	0	0.000029	0
115	0	0.000027	0
116	0	0.000031	0
117	0	0	0
118	0	0	0
119	0	0	0

Convergence criterion is satisfied.

Criterion Based on Final Seeds = 37846.3

Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
1	66	95470.1	293386		12	337682
2	4088	37706.7	139979		7	126935
3	91	159578	416052		6	772389
4	3886	38920.7	272324		7	94673.0
5	2080	60931.5	197029		11	183531
6	381	100835	413580		11	278502
7	7869	27997.0	89955.0		14	84435.9
8	12319	26140.2	168902		14	74745.1

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Cluster Summary						
Cluster	Frequency	RMS Std Deviation	Maximum Distance from Seed to Observation	Radius Exceeded	Nearest Cluster	Distance Between Cluster Centroids
9	727	98764.6	319463		5	317354
10	224	131710	569515		13	330902
11	1876	49090.0	175296		2	129768
12	171	75380.9	183923		1	337682
13	382	97330.8	405671		6	323466
14	10049	29451.2	252806		8	74745.1
15	6008	10741.5	185607		12	373539

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

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
VALP	253558	40104	0.974994	38.989973
HINCP	86804	36099	0.827100	4.783676
OVER-ALL	177923	37853	0.954752	21.100626

Pseudo F Statistic =	75663.83
----------------------	----------

Approximate Expected Over-All R-Squared =	0.95917
---	---------

Cubic Clustering Criterion =	-24.156
------------------------------	---------

WARNING: The two values above are invalid for correlated variables.

Cluster Means		
Cluster	VALP	HINCP
1	2267000.000	725614.350
2	321443.084	75020.063
3	101967.033	1215200.000
4	202300.968	146518.618
5	522164.601	124371.227
6	245023.737	456174.451
7	196609.668	52016.850
8	50879.463	38870.659
9	838005.034	155327.818
10	885294.686	561034.457

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Cluster Means		
Cluster	VALP	HINCP
11	355097.852	200348.251
12	2267000.000	387932.760
13	568340.909	465973.341
14	115685.201	76113.639
15	2267000.000	14393.631

Cluster Standard Deviations		
Cluster	VALP	HINCP
1	0.0000	135015.1280
2	42009.5038	32845.0410
3	51410.6454	219743.4868
4	39848.4597	37970.3535
5	63389.2924	58370.3538
6	101573.8375	100090.1983
7	32000.6001	23315.8738
8	28206.9429	23895.3319
9	115186.6369	78999.4524
10	116668.2922	145200.9330
11	50941.1246	47166.2577
12	0.0000	106604.6456
13	85034.5847	108238.9890
14	25641.8505	32821.3834
15	0.0000	15190.8220

The FASTCLUS Procedure
Replace=FULL Radius=0 Maxclusters=15 Maxiter=200 Converge=0

Distance Between Cluster Centroids								
Nearest Cluster	1	2	3	4	5	6	7	8
1	.	2051454.274	2219698.596	2144372.626	1845519.944	2039849.472	2177211.454	2320087.742
2	2051454.274	.	1161111.547	138949.225	206699.454	388739.738	126935.139	272967.860
3	2219698.596	1161111.547	.	1073381.011	1168962.535	772389.153	1167027.107	1177438.176
4	2144372.626	138949.225	1073381.011	.	320629.459	312589.139	94672.990	185786.316
5	1845519.944	206699.454	1168962.535	320629.459	.	432319.833	333498.380	478978.108
6	2039849.472	388739.738	772389.153	312589.139	432319.833	.	407047.035	460254.771
7	2177211.454	126935.139	1167027.107	94672.990	333498.380	407047.035	.	146321.957
8	2320087.742	272967.860	1177438.176	185786.316	478978.108	460254.771	146321.957	.
9	1538588.100	522767.236	1290380.169	635765.099	317353.887	664932.715	649662.351	795693.995
10	1391472.643	744404.876	1020556.108	798939.171	567924.498	648800.824	856379.576	984329.110
11	1982744.133	129768.247	1045944.207	162001.596	183531.487	278501.985	217073.049	344418.119
12	337681.590	1970559.836	2317701.196	2078764.749	1764628.928	2023127.514	2097464.094	2243442.574
13	1718387.663	462388.366	882522.055	485835.938	344708.944	323465.627	556366.868	670956.816
14	2247221.960	205760.789	1139168.963	111620.572	409333.967	401465.662	84435.920	74745.055
15	711220.719	1946501.291	2475743.057	2068922.208	1748297.927	2069675.893	2070732.149	2216255.707

Distance Between Cluster Centroids							
Nearest Cluster	9	10	11	12	13	14	15
1	1538588.100	1391472.643	1982744.133	337681.590	1718387.663	2247221.960	711220.719
2	522767.236	744404.876	129768.247	1970559.836	462388.366	205760.789	1946501.291
3	1290380.169	1020556.108	1045944.207	2317701.196	882522.055	1139168.963	2475743.057
4	635765.099	798939.171	162001.596	2078764.749	485835.938	111620.572	2068922.208
5	317353.887	567924.498	183531.487	1764628.928	344708.944	409333.967	1748297.927
6	664932.715	648800.824	278501.985	2023127.514	323465.627	401465.662	2069675.893
7	649662.351	856379.576	217073.049	2097464.094	556366.868	84435.920	2070732.149
8	795693.995	984329.110	344418.119	2243442.574	670956.816	74745.055	2216255.707
9	.	408453.410	485001.222	1447802.360	411362.834	726650.415	1435927.944
10	408453.410	.	641251.294	1392506.292	330902.270	909641.115	1485909.071
11	485001.222	641251.294	.	1921082.448	340630.724	269727.003	1920923.982
12	1447802.360	1392506.292	1921082.448	.	1700450.834	2173795.420	373539.129
13	411362.834	330902.270	340630.724	1700450.834	.	597400.851	1757659.507
14	726650.415	909641.115	269727.003	2173795.420	597400.851	.	2152199.973
15	1435927.944	1485909.071	1920923.982	373539.129	1757659.507	2152199.973	.

