

Replace=FULL Radius=0 Maxclusters=20 Maxiter=1

Initial Seeds		
Cluster	VALP	HINCP
1	8.12156746	7.50487629
2	-0.81876503	5.70542512
3	3.51906446	2.98666406
4	8.12156746	4.65132920
5	2.19786609	11.96894371
6	3.12467689	9.06931592
7	1.21189716	4.06956041
8	0.65975455	8.87116893
9	-0.81829176	-0.12378292
10	8.12156746	10.83190254
11	-0.81651702	2.37494282
12	3.51906446	5.37134007
13	1.62600411	6.66735964
14	1.54712659	-0.88987449
15	-0.28677563	13.44698203
16	8.12156746	-0.96590764
17	0.56115766	15.50909317
18	1.44852970	1.50056161
19	3.71625825	0.57894769
20	8.12156746	1.80008614

Criterion Based on Final Seeds =	0.3640
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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	44	0.4379	1.5673		4	2.3254
2	238	0.4181	1.5691		7	1.5346
3	256	0.5062	1.4042		19	1.9998
4	120	0.3205	1.4123		1	2.3254
5	14	0.6589	1.6308		6	2.4364
6	13	0.7782	1.8772		8	1.8908
7	354	0.6315	1.6526		2	1.5346
8	17	0.7060	1.6678		6	1.8908
9	29427	0.3398	1.1452		14	1.1618

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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
10	11	0.3102	0.7394		1	3.2493
11	1614	0.4770	1.5808		18	0.9596
12	162	0.4797	1.5171		13	1.7517
13	112	0.6052	1.6249		12	1.7517
14	9713	0.3386	1.4389		9	1.1618
15	22	.	0.0374		17	2.1440
16	2491	0.0809	0.9190		20	2.0825
17	49	0.1102	0.6565		15	2.1440
18	4050	0.4427	1.5095		11	0.9596
19	1368	0.4093	1.4946		3	1.9998
20	142	0.3441	1.4674		16	2.0825

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

Statistics for Variables				
Variable	Total STD	Within STD	R-Square	RSQ/(1-RSQ)
VALP	1.00000	0.32491	0.894488	8.477584
HINCP	1.00000	0.37215	0.861559	6.223305
OVER-ALL	1.00000	0.35285	0.875554	7.035606

Pseudo F Statistic = 18587.70

Approximate Expected Over-All R-Squared = 0.95004

Cubic Clustering Criterion = -217.217

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

Cluster Means		
Cluster	VALP	HINCP
1	8.12156746	7.08932846
2	0.03373441	5.09626783
3	2.38736083	2.40348153
4	8.12156746	4.76389301
5	2.25843275	10.91072147
6	2.68903031	8.51262566

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Cluster Means		
Cluster	VALP	HINCP
7	1.05849282	3.95392385
8	0.82423737	8.20024167
9	-0.32735427	-0.19976031
10	8.12156746	10.33863068
11	-0.11026050	1.57483124
12	2.66138749	4.91746193
13	1.58468556	6.29924530
14	0.75126853	-0.63152078
15	-0.27619887	13.44698203
16	8.12156746	-0.36349228
17	0.31060082	15.50909317
18	0.63624397	0.97189702
19	2.58413649	0.41339083
20	8.12156746	1.71897251

Cluster Standard Deviations		
Cluster	VALP	HINCP
1	0.0000000000	0.6192237945
2	0.3614502602	0.4678549637
3	0.5097549266	0.5025804186
4	0.0000000000	0.4532508221
5	0.6864394011	0.6302099290
6	0.5877601459	0.9304715460
7	0.5027854573	0.7381736835
8	0.6016362165	0.7967840398
9	0.2861017234	0.3861804782
10	0.0000000000	0.4387444611
11	0.3461767669	0.5790301964
12	0.4643440588	0.4944928247
13	0.6176179894	0.5924246073
14	0.4164103588	0.2364068246
15	0.0101383117	.
16	0.0000000000	0.1144171403
17	0.1559039032	0.0000000000
18	0.4418034397	0.4435036703

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Cluster Standard Deviations		
Cluster	VALP	HINCP
19	0.4529718557	0.3603378936
20	0.0000000000	0.4865617627

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Distance Between Cluster Centroids								
Nearest Cluster	1	2	3	4	5	6	7	8
1	.	8.32978596	7.40528778	2.32543545	6.99852793	5.61589128	7.72772835	7.38140600
2	8.32978596	.	3.57640257	8.09465975	6.22552439	4.32690388	1.53462685	3.20305301
3	7.40528778	3.57640257	.	6.20102153	8.50821685	6.11658782	2.04199941	6.00381405
4	2.32543545	8.09465975	6.20102153	.	8.49469533	6.60041335	7.10936519	8.06594809
5	6.99852793	6.22552439	8.50821685	8.49469533	.	2.43644777	7.05952470	3.06653178
6	5.61589128	4.32690388	6.11658782	6.60041335	2.43644777	.	4.84153021	1.89077668
7	7.72772835	1.53462685	2.04199941	7.10936519	7.05952470	4.84153021	.	4.25277447
8	7.38140600	3.20305301	6.00381405	8.06594809	3.06653178	1.89077668	4.25277447	.
9	11.15863313	5.30832356	3.76118946	9.79908835	11.40741425	9.21977469	4.37877429	8.47857279
10	3.24930222	9.63822658	9.79018476	5.57473767	5.89097924	5.73120879	9.52110837	7.60419187
11	9.90821230	3.52437940	2.63149646	8.82797295	9.63169529	7.48124458	2.65067274	6.69099019
12	5.87627174	2.63372972	2.52887090	5.46233913	6.00679053	3.59527001	1.87020773	3.76188296
13	6.58445566	1.96280520	3.97759512	6.71476966	4.66043429	2.47358646	2.40362466	2.04745419
14	10.67393176	5.77255727	3.44790328	9.13410073	11.64022767	9.34721000	4.59572510	8.83206388
15	10.53291214	8.35646375	11.36016961	12.07967360	3.58566243	5.75677486	9.58642559	5.36089958
16	7.45282073	9.75817728	6.36688854	5.12738528	12.70764511	10.40662912	8.27811001	11.25115841
17	11.48493090	10.41650549	13.26913670	13.28422096	4.99390344	7.38968771	11.57934716	7.32687742
18	9.66711100	4.16814735	2.26182326	8.39102504	10.07033902	7.81514685	3.01177325	7.23078889
19	8.67359700	5.33234355	1.99979540	7.04201753	10.50238228	8.09991405	3.85525131	7.98325065
20	5.37035595	8.76465442	5.77491803	3.04492050	10.90250419	8.69863110	7.40824074	9.76001416

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Distance Between Cluster Centroids								
Nearest Cluster	9	10	11	12	13	14	15	16
1	11.15863313	3.24930222	9.90821230	5.87627174	6.58445566	10.67393176	10.53291214	7.45282073
2	5.30832356	9.63822658	3.52437940	2.63372972	1.96280520	5.77255727	8.35646375	9.75817728
3	3.76118946	9.79018476	2.63149646	2.52887090	3.97759512	3.44790328	11.36016961	6.36688854
4	9.79908835	5.57473767	8.82797295	5.46233913	6.71476966	9.13410073	12.07967360	5.12738528
5	11.40741425	5.89097924	9.63169529	6.00679053	4.66043429	11.64022767	3.58566243	12.70764511
6	9.21977469	5.73120879	7.48124458	3.59527001	2.47358646	9.34721000	5.75677486	10.40662912
7	4.37877429	9.52110837	2.65067274	1.87020773	2.40362466	4.59572510	9.58642559	8.27811001
8	8.47857279	7.60419187	6.69099019	3.76188296	2.04745419	8.83206388	5.36089958	11.25115841
9	.	13.50710787	1.78782126	5.92608983	6.77443504	1.16182797	13.64683822	8.45050806
10	13.50710787	.	12.02360895	7.69432492	7.68423446	13.21610870	8.95457020	10.70212296
11	1.78782126	12.02360895	.	4.34225891	5.01925595	2.36859061	11.87331040	8.45695510
12	5.92608983	7.69432492	4.34225891	.	1.75174551	5.86854015	9.02120429	7.59618606
13	6.77443504	7.68423446	5.01925595	1.75174551	.	6.98069497	7.38600239	9.33396469
14	1.16182797	13.21610870	2.36859061	5.86854015	6.98069497	.	14.11594597	7.37517089
15	13.64683822	8.95457020	11.87331040	9.02120429	7.38600239	14.11594597	.	16.16328184
16	8.45050806	10.70212296	8.45695510	7.59618606	9.33396469	7.37517089	16.16328184	.
17	15.72180220	9.36722383	13.94061619	10.84937097	9.29755827	16.14662834	2.14397673	17.69039764
18	1.51700444	11.99023633	0.95958251	4.43493954	5.41111644	1.60753827	12.50840909	7.60350789
19	2.97535422	11.36545326	2.93406186	4.50473353	5.97010762	2.10979744	13.34376326	5.59166246
20	8.66405297	8.61965817	8.23308983	6.32802496	7.98183712	7.73602773	14.42458618	2.08246479

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Distance Between Cluster Centroids				
Nearest Cluster	17	18	19	20
1	11.48493090	9.66711100	8.67359700	5.37035595
2	10.41650549	4.16814735	5.33234355	8.76465442
3	13.26913670	2.26182326	1.99979540	5.77491803
4	13.28422096	8.39102504	7.04201753	3.04492050
5	4.99390344	10.07033902	10.50238228	10.90250419
6	7.38968771	7.81514685	8.09991405	8.69863110
7	11.57934716	3.01177325	3.85525131	7.40824074
8	7.32687742	7.23078889	7.98325065	9.76001416
9	15.72180220	1.51700444	2.97535422	8.66405297
10	9.36722383	11.99023633	11.36545326	8.61965817
11	13.94061619	0.95958251	2.93406186	8.23308983
12	10.84937097	4.43493954	4.50473353	6.32802496
13	9.29755827	5.41111644	5.97010762	7.98183712
14	16.14662834	1.60753827	2.10979744	7.73602773
15	2.14397673	12.50840909	13.34376326	14.42458618
16	17.69039764	7.60350789	5.59166246	2.08246479
17	.	14.54084301	15.26594883	15.84861596
18	14.54084301	.	2.02637964	7.52251218
19	15.26594883	2.02637964	.	5.68926052
20	15.84861596	7.52251218	5.68926052	.

