

Using METHOD=WARD S

The CLUSTER Procedure Ward's Minimum Variance Cluster Analysis

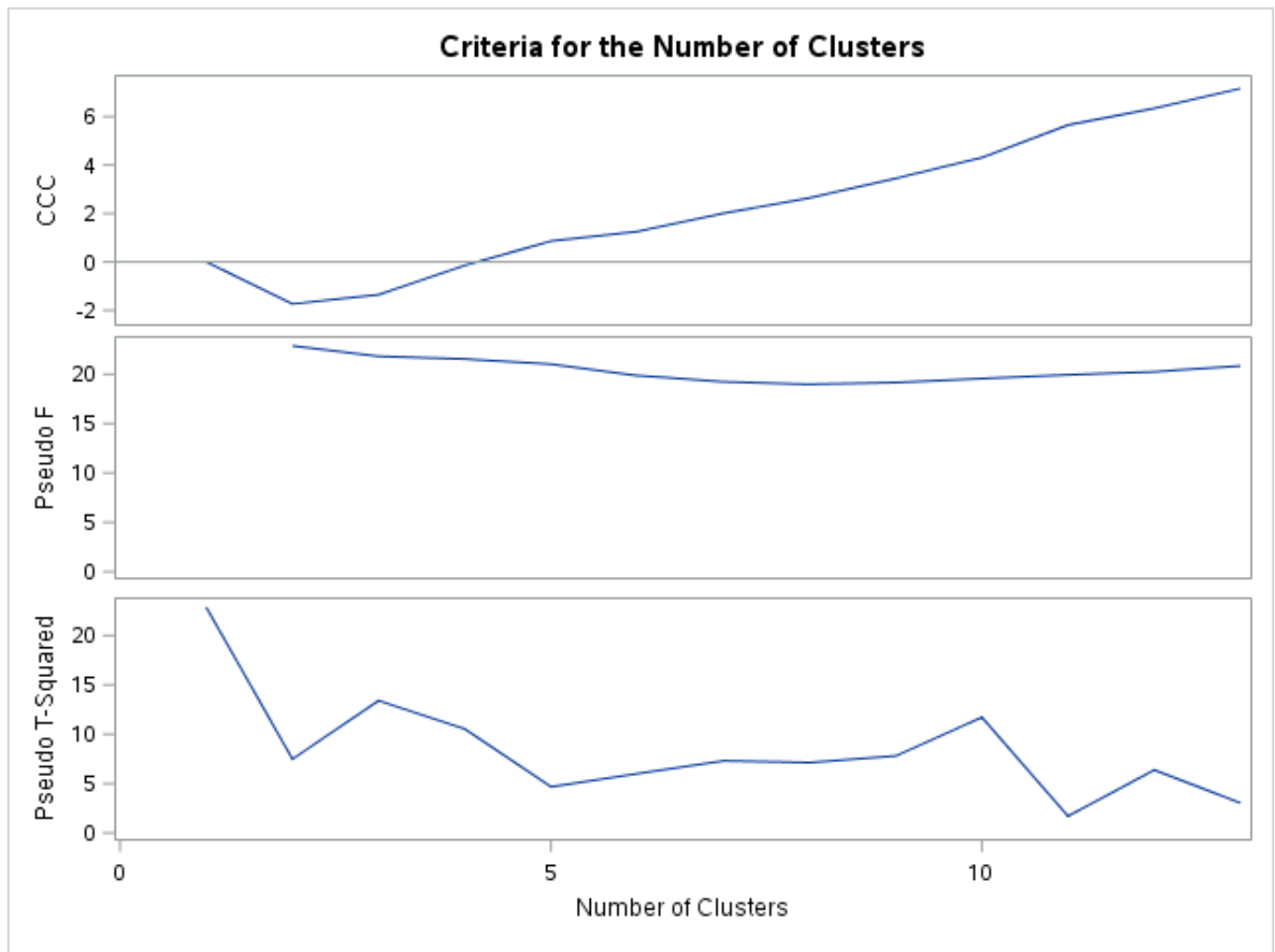
Eigenvalues of the Covariance Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	8.94336402	4.54991146	0.4106	0.4106
2	4.39345257	1.88766914	0.2017	0.6124
3	2.50578342	1.21769435	0.1151	0.7274
4	1.28808908	0.23901607	0.0591	0.7865
5	1.04907301	0.09841346	0.0482	0.8347
6	0.95065955	0.11459159	0.0436	0.8784
7	0.83606797	0.08972330	0.0384	0.9167
8	0.74634467	0.05896644	0.0343	0.9510
9	0.68737823	0.47818391	0.0316	0.9826
10	0.20919431	0.11986510	0.0096	0.9922
11	0.08932921	0.04637658	0.0041	0.9963
12	0.04295263	0.01972804	0.0020	0.9983
13	0.02322459	0.00908623	0.0011	0.9993
14	0.01413835	0.01350527	0.0006	1.0000
15	0.00063308		0.0000	1.0000

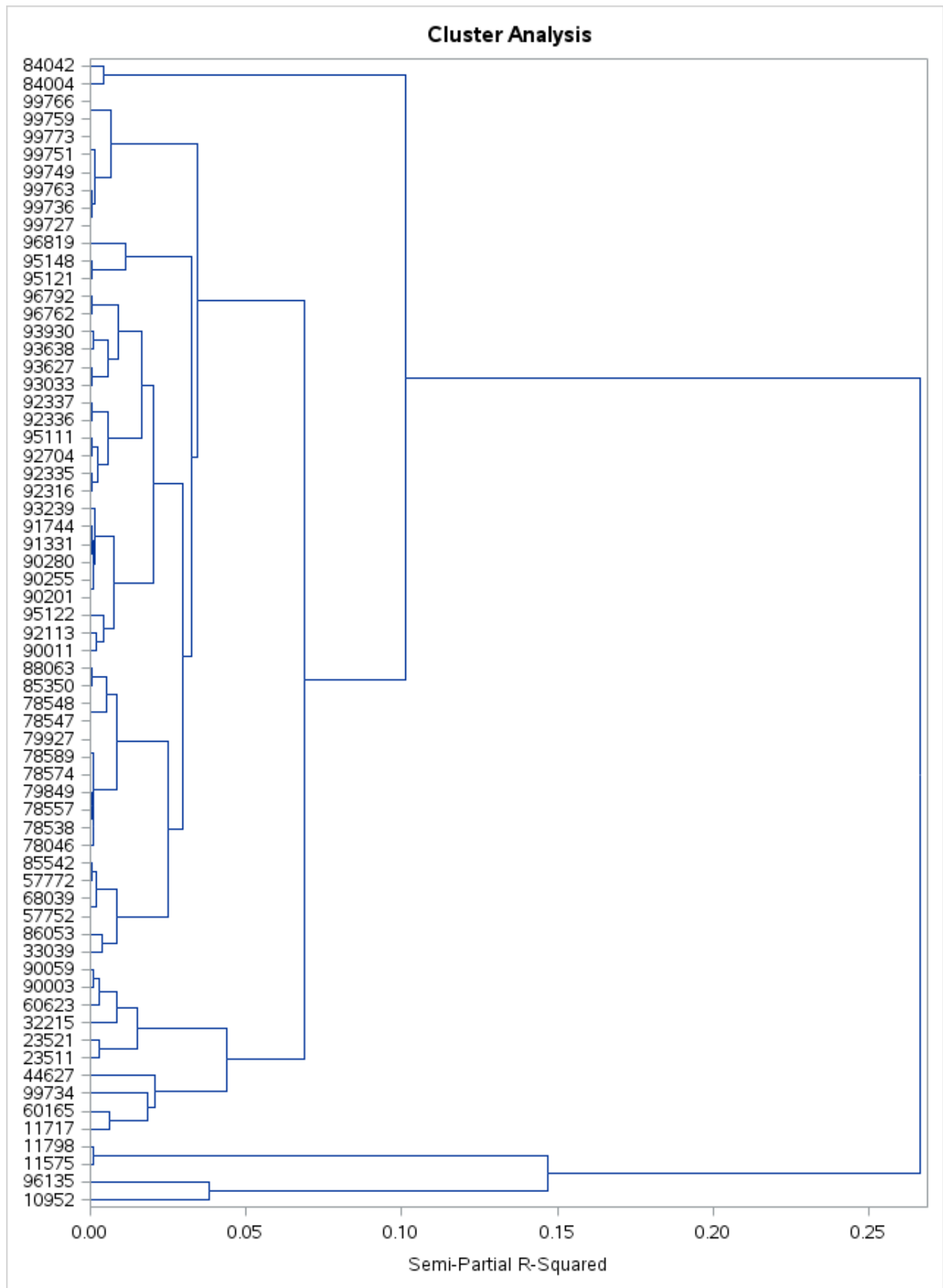
Root-Mean-Square Total-Sample Standard Deviation	1.204981
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Root-Mean-Square Distance Between Observations	6.599952
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Cluster History										
Number of Clusters	Clusters Joined		Freq	Semipartial R-Square	R-Square	Approximate Expected R-Square	Cubic Clustering Criterion	Pseudo F Statistic	Pseudo t-Squared	Tie
64	99727	99736	2	0.0000	1.00	.	.	66E3	.	
63	99759	99766	2	0.0000	1.00	.	.	21E3	.	
62	78547	78548	2	0.0000	1.00	.	.	5803	.	
61	90201	90255	2	0.0001	1.00	.	.	850	.	
60	78574	78589	2	0.0001	1.00	.	.	552	.	
59	99749	99751	2	0.0001	1.00	.	.	451	.	
58	90280	91331	2	0.0001	1.00	.	.	356	.	
57	57752	68039	2	0.0001	1.00	.	.	309	.	
56	CL59	99773	3	0.0001	.999	.	.	277	1.7	
55	78538	78557	2	0.0002	.999	.	.	245	.	
54	CL60	79927	3	0.0003	.999	.	.	206	3.4	
53	CL58	91744	3	0.0003	.999	.	.	177	2.5	
52	CL55	79849	3	0.0003	.998	.	.	159	1.8	
51	92316	92335	2	0.0003	.998	.	.	145	.	
50	57772	85542	2	0.0004	.998	.	.	130	.	
49	92336	92337	2	0.0004	.997	.	.	119	.	
48	95121	95148	2	0.0004	.997	.	.	111	.	
47	96762	96792	2	0.0006	.996	.	.	103	.	
46	85350	88063	2	0.0006	.996	.	.	95.7	.	

45	93033	93627	2	0.0007	.995	.	.	89.6	.	
44	92704	95111	2	0.0007	.994	.	.	84.7	.	
43	CL64	99763	3	0.0007	.994	.	.	81.1	2863	
42	93638	93930	2	0.0008	.993	.	.	77.1	.	
41	78046	CL52	4	0.0008	.992	.	.	73.8	3.6	
40	CL61	CL53	5	0.0009	.991	.	.	70.7	5.8	
39	90003	90059	2	0.0010	.990	.	.	68.2	.	
38	11575	11798	2	0.0010	.989	.	.	66.2	.	
37	CL41	CL54	7	0.0011	.988	.	.	64.1	3.3	
36	CL43	CL56	6	0.0015	.987	.	.	60.6	6.7	
35	CL40	93239	6	0.0015	.985	.	.	57.9	4.3	
34	CL57	CL50	4	0.0019	.983	.	.	54.5	7.1	
33	90011	92113	2	0.0020	.981	.	.	51.8	.	
32	CL51	CL44	4	0.0023	.979	.	.	48.9	4.6	
31	60623	CL39	3	0.0026	.976	.	.	46.2	2.8	
30	23511	23521	2	0.0027	.973	.	.	44.2	.	
29	33039	86053	2	0.0038	.970	.	.	41.1	.	
28	CL33	95122	3	0.0042	.965	.	.	38.3	2.1	
27	84004	84042	2	0.0043	.961	.	.	36.2	.	
26	CL62	CL46	4	0.0052	.956	.	.	33.9	16.9	
25	CL45	CL42	4	0.0057	.950	.	.	31.9	7.8	
24	CL32	CL49	6	0.0059	.944	.	.	30.3	6.2	
23	11717	60165	2	0.0061	.938	.	.	29.1	.	
22	CL36	CL63	8	0.0066	.932	.	.	27.9	16.6	
21	CL28	CL35	9	0.0076	.924	.	.	26.8	5.9	
20	32215	CL31	4	0.0085	.916	.	.	25.7	4.7	
19	CL37	CL26	11	0.0085	.907	.	.	24.9	9.1	
18	CL29	CL34	6	0.0087	.898	.	.	24.4	5.6	
17	CL25	CL47	6	0.0090	.889	.	.	24.1	4.7	
16	CL48	96819	3	0.0115	.878	.	.	23.5	26.2	
15	CL30	CL20	6	0.0149	.863	.	.	22.5	4.0	
14	CL24	CL17	12	0.0166	.846	.	.	21.6	6.3	
13	CL23	99734	3	0.0185	.828	.745	7.16	20.8	3.0	
12	CL21	CL14	21	0.0201	.808	.730	6.34	20.2	6.4	
11	CL13	44627	4	0.0208	.787	.713	5.65	19.9	1.7	
10	CL18	CL19	17	0.0250	.762	.696	4.31	19.6	11.7	
9	CL10	CL12	38	0.0296	.732	.677	3.45	19.2	7.8	
8	CL9	CL16	41	0.0326	.700	.655	2.64	19.0	7.1	
7	CL8	CL22	49	0.0342	.666	.630	2.01	19.2	7.3	
6	10952	96135	2	0.0382	.627	.601	1.26	19.9	.	
5	CL11	CL15	10	0.0439	.583	.565	0.86	21.0	4.7	
4	CL5	CL7	59	0.0689	.514	.518	-.14	21.5	10.5	
3	CL4	CL27	61	0.1014	.413	.450	-1.3	21.8	13.4	
2	CL6	CL38	4	0.1467	.266	.322	-1.7	22.9	7.5	
1	CL2	CL3	65	0.2664	.000	.000	0.00	.	22.9	





The TREE Procedure
Ward's Minimum Variance Cluster Analysis

PLOTTING HORIZONTAL TREE DIAGRAM WITH RESPECT TO R_SQUARED

