

The CLUSTER Procedure
Ward's Minimum Variance Cluster Analysis

Eigenvalues of the Covariance Matrix				
	Eigenvalue	Difference	Proportion	Cumulative
1	2.17294649	0.27267926	0.2716	0.2716
2	1.90026724	0.57679267	0.2375	0.5092
3	1.32347457	0.32673173	0.1654	0.6746
4	0.99674283	0.34772246	0.1246	0.7992
5	0.64902037	0.07736127	0.0811	0.8803
6	0.57165910	0.35515607	0.0715	0.9518
7	0.21650303	0.04711667	0.0271	0.9788
8	0.16938636		0.0212	1.0000

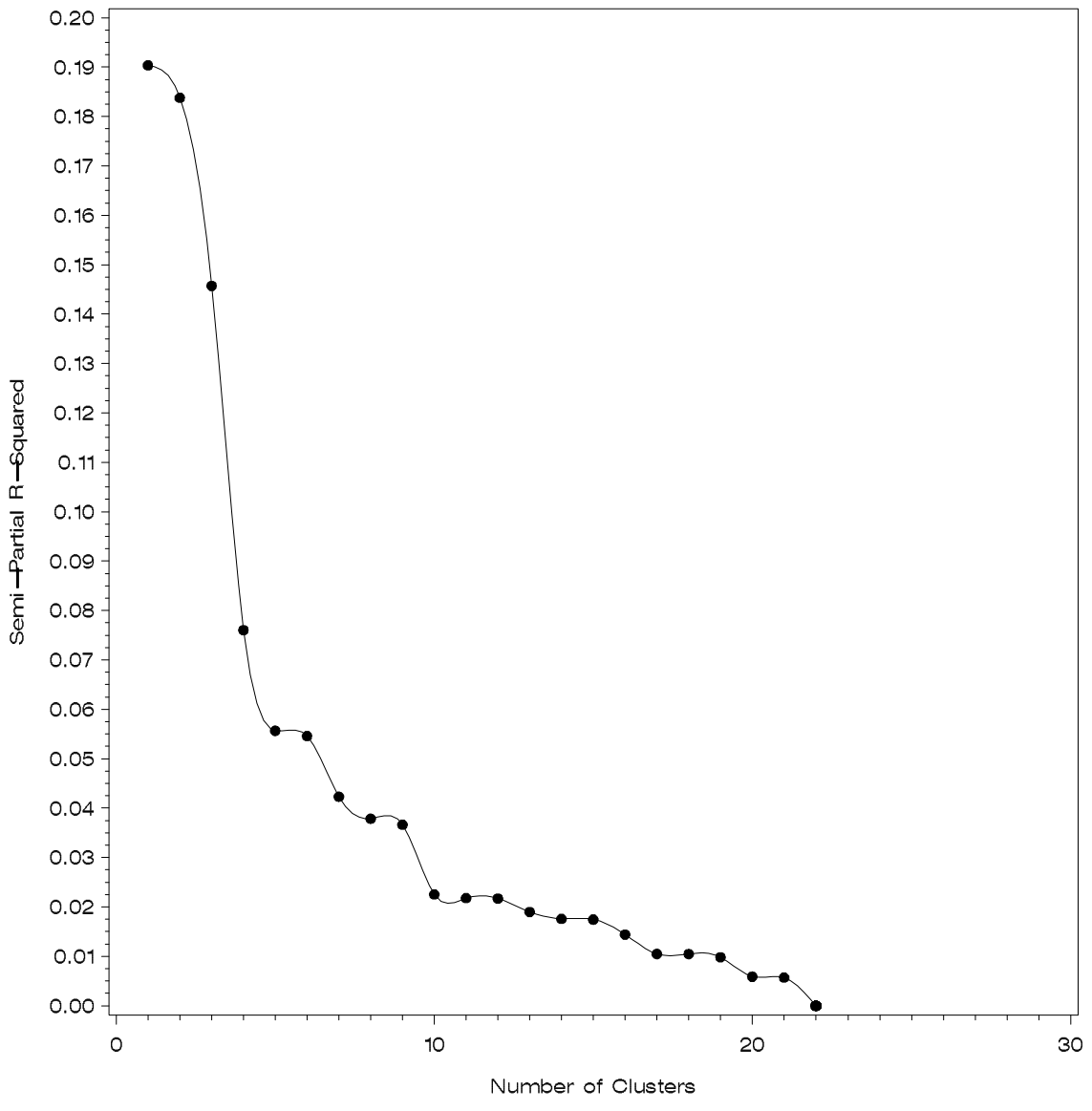
Root-Mean-Square Total-Sample Standard Deviation = 1

Root-Mean-Square Distance Between Observations = 4

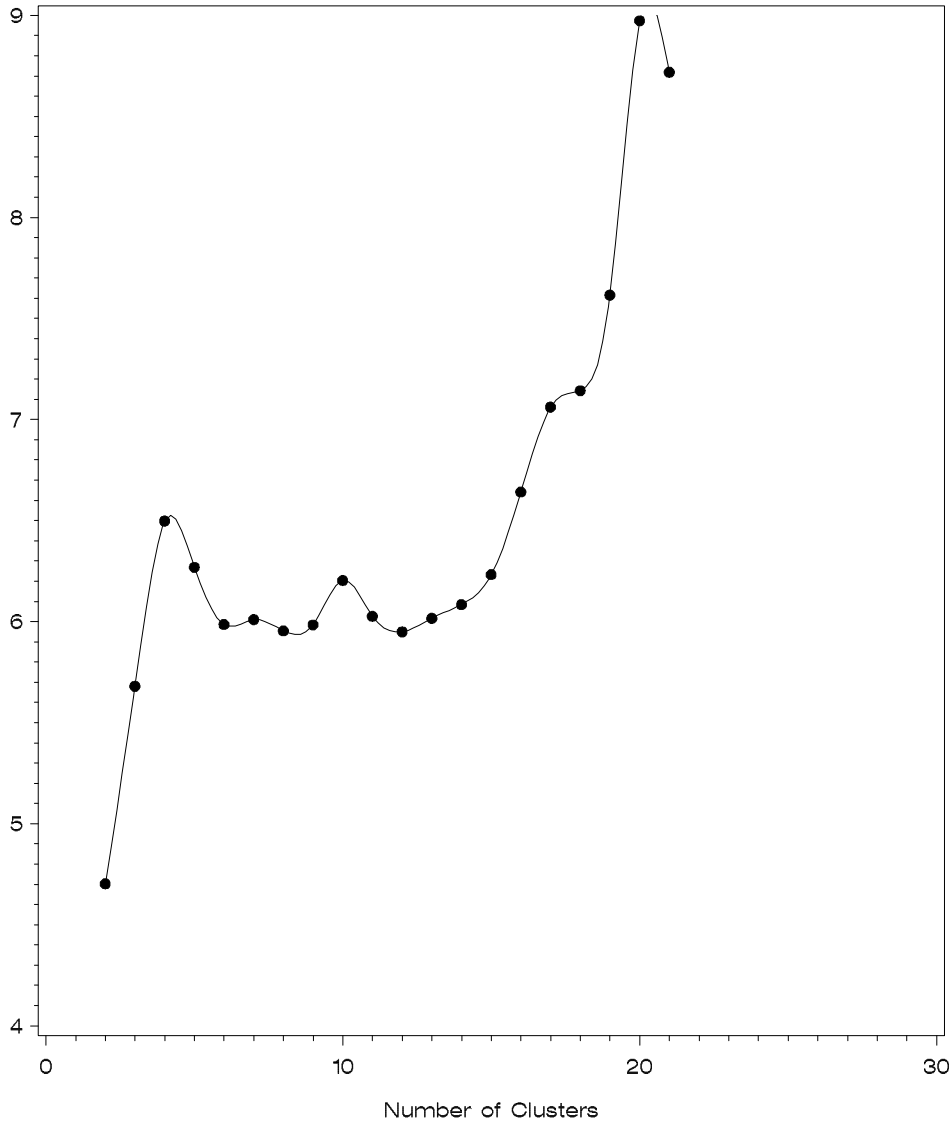
Cluster History								
NCL	Clusters Joined		FREQ	SPRSQ	RSQ	PSF	PST2	T i e
21	NewEngla	United	2	0.0057	.994	8.7	.	
20	Madison	Northern	2	0.0059	.988	9.0	.	
19	Common	Wisconsi	2	0.0098	.979	7.6	.	
18	Oklahoma	Texas	2	0.0105	.968	7.1	.	
17	Arizona	Southern	2	0.0105	.958	7.1	.	
16	Idaho	Puget	2	0.0144	.943	6.6	.	
15	Boston	Virginia	2	0.0175	.926	6.2	.	
14	CL21	Pacific	3	0.0176	.908	6.1	3.1	
13	CL19	CL20	4	0.0190	.889	6.0	2.4	
12	Hawaiian	CL14	4	0.0217	.867	5.9	1.9	
11	CL17	CL18	4	0.0218	.846	6.0	2.1	
10	Central	Kentucky	2	0.0226	.823	6.2	.	
9	CL15	CL13	6	0.0367	.786	6.0	2.8	
8	CL10	Florida	3	0.0379	.749	6.0	1.7	
7	CL16	Nevada	3	0.0423	.706	6.0	2.9	
6	CL11	CL8	7	0.0546	.652	6.0	2.6	
5	CL12	SanDiego	5	0.0557	.596	6.3	3.7	
4	CL9	Consolid	7	0.0760	.520	6.5	4.3	
3	CL6	CL4	14	0.1457	.374	5.7	5.4	

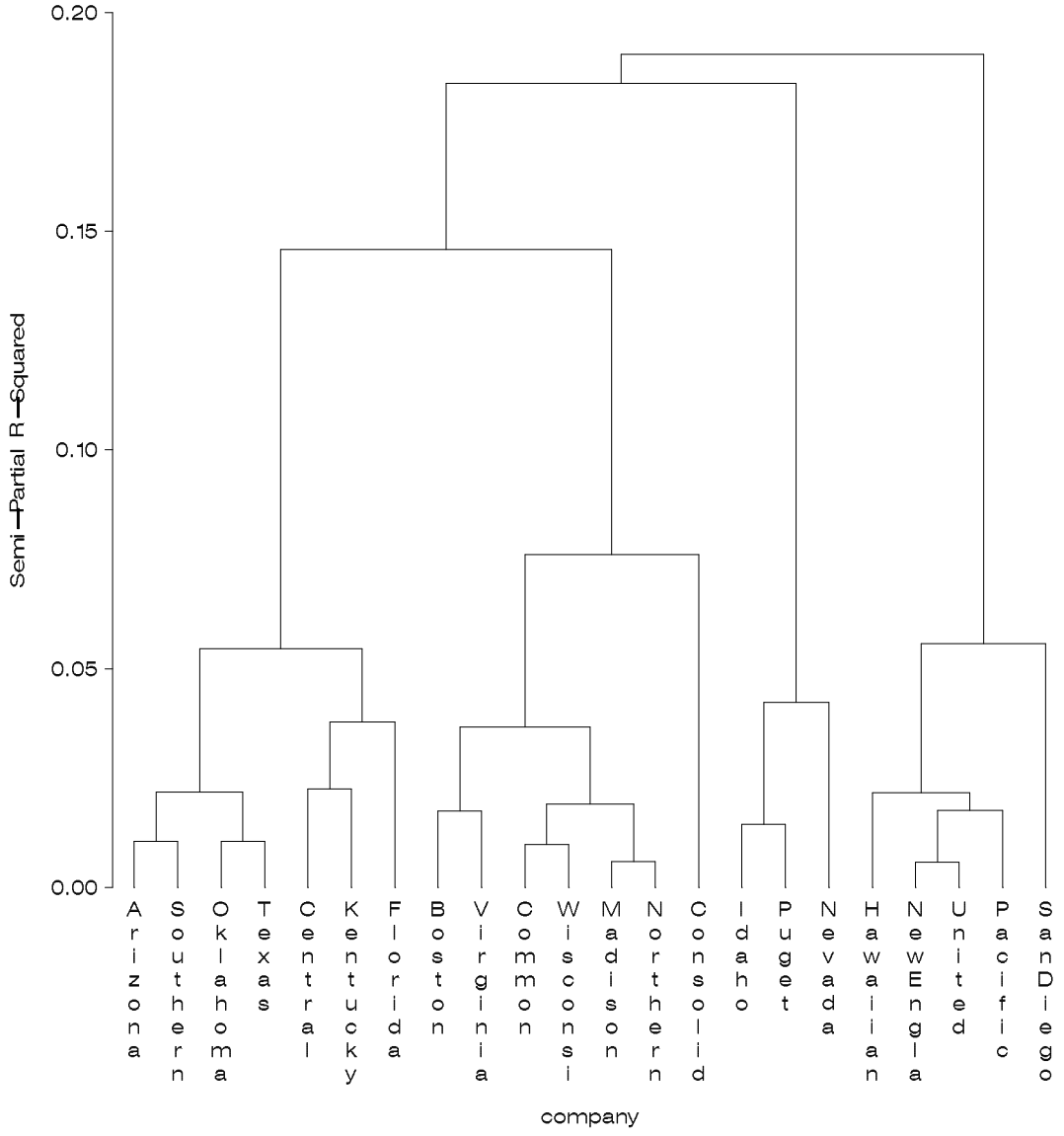
The CLUSTER Procedure
Ward's Minimum Variance Cluster Analysis

Cluster History								
NCL	Clusters Joined		FREQ	SPRSQ	RSQ	PSF	PST2	T i e
2	CL3	CL7	17	0.1838	.190	4.7	5.3	
1	CL2	CL5	22	0.1904	.000	.	4.7	



Pseudo F Statistic





The PRINCOMP Procedure

Observations	22
Variables	8

Simple Statistics								
	x1	x2	x3	x4	x5	x6	x7	x8
Mean	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
StD	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000	1.000000000

Correlation Matrix								
	x1	x2	x3	x4	x5	x6	x7	x8
x1	1.0000	0.6427	-.1028	-.0820	-.2591	-.1517	0.0448	-.0134
x2	0.6427	1.0000	-.3476	-.0863	-.2601	-.0096	0.2114	-.3277
x3	-.1028	-.3476	1.0000	0.1003	0.4354	0.0280	0.1147	0.0052
x4	-.0820	-.0863	0.1003	1.0000	0.0335	-.2879	-.1642	0.4855
x5	-.2591	-.2601	0.4354	0.0335	1.0000	0.1764	-.0191	-.0071
x6	-.1517	-.0096	0.0280	-.2879	0.1764	1.0000	-.3737	-.5605
x7	0.0448	0.2114	0.1147	-.1642	-.0191	-.3737	1.0000	-.1851
x8	-.0134	-.3277	0.0052	0.4855	-.0071	-.5605	-.1851	1.0000

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8	0.16938636		0.0212	1.0000

The PRINCOMP Procedure

Eigenvectors								
	Prin1	Prin2	Prin3	Prin4	Prin5	Prin6	Prin7	Prin8
x1	-.445545	0.232177	0.067128	0.555498	-.400840	0.006540	0.205782	-.481080
x2	-.571190	0.100535	0.071234	0.332096	0.335942	0.133260	-.150267	0.628551
x3	0.348691	-.161302	0.467331	0.409084	-.268568	-.537502	-.117629	0.302943
x4	0.288901	0.409184	-.142598	0.333739	0.680071	-.298904	0.064293	-.247819
x5	0.355361	-.282933	0.281464	0.391397	0.162637	0.719170	-.051553	-.122230
x6	-.053833	-.603095	-.331991	0.190865	0.131972	-.149534	0.660502	0.103396
x7	-.167970	0.085361	0.737684	-.333487	0.249646	-.026441	0.488792	-.084666
x8	0.335840	0.539885	-.134424	0.039601	-.292666	0.252353	0.489147	0.433010

