

Appendix 4
Column Vectors of Means Associated with Each Cluster in Each
Cluster Solution Produced by Ward's Hierarchical Clustering

1. Number of cases = 370 for all cluster solutions
2. Numbers indicate mean values associate with each cluster in each cluster solutions

Eight-Cluster Solution

	Cluster							
	1	2	3	4	5	6	7	8
epdissat6	32.94	17.43	40.00	50.63	30.58	33.95	59.64	60.32
epdissat9	33.47	16.57	51.38	48.18	23.44	43.84	23.57	73.83
epdissat10	34.06	14.52	50.62	43.16	24.82	42.00	32.21	72.80
epdissat12	36.12	15.31	53.34	49.24	26.38	53.21	48.50	77.88
epdissat13	34.78	15.63	51.76	50.37	28.18	58.79	71.07	69.67
epdissat14	33.81	14.89	35.34	48.55	23.12	73.26	23.14	63.04
epdissat18	42.02	15.75	41.28	65.37	29.23	36.68	46.36	71.75

Nine-Cluster Solution

	Cluster								
	1	2	3	4	5	6	7	8	9
epdissat6	32.94	20.65	40.00	50.63	30.58	33.95	59.64	60.33	10.38
epdissat9	33.47	20.46	51.38	48.18	23.45	43.84	23.57	73.83	8.04
epdissat10	34.06	18.11	50.62	43.16	24.82	42.00	32.21	72.79	6.65
epdissat12	36.12	18.26	53.34	49.24	26.38	53.21	48.50	77.88	8.85
epdissat13	34.78	19.33	51.76	50.37	28.18	58.79	71.07	69.67	7.50
epdissat14	33.81	17.61	35.34	48.55	23.12	73.26	23.14	63.04	8.92
epdissat18	42.02	18.07	41.28	65.37	29.23	36.68	46.36	71.75	10.65

Ten-Cluster Solution

	Cluster									
	1	2	3	4	5	6	7	8	9	10
epdissat6	32.94	20.65	40.00	50.63	30.58	33.95	59.64	57.33	65.33	10.38
epdissat9	33.47	20.46	51.38	48.18	23.44	43.84	23.57	78.93	82.00	8.04
epdissat10	34.06	18.11	50.62	43.16	24.82	42.00	32.21	69.27	78.67	6.65
epdissat12	36.12	18.26	53.35	42.24	26.38	53.21	48.50	73.13	85.78	8.85
epdissat13	34.78	19.33	51.76	50.37	28.18	58.79	71.07	58.73	87.89	7.50
epdissat14	33.81	17.61	35.34	48.55	23.12	73.26	23.14	55.47	75.67	8.92
epdissat18	42.02	18.07	41.28	65.37	29.23	36.68	46.36	63.73	89.11	10.65

Eleven –Cluster Solution

	Cluster										
	1	2	3	4	5	6	7	8	9	10	11
epdissat6	31.17	33.22	20.65	40.00	50.63	30.58	33.95	59.64	57.33	65.33	10.38
epdissat9	28.50	34.25	20.46	51.38	48.18	23.45	43.84	23.57	68.93	82.00	8.04
epdissat10	33.83	34.09	18.11	50.62	43.16	24.82	42.00	32.21	69.27	78.67	6.65
epdissat12	30.58	36.99	18.26	63.34	49.24	26.38	53.21	48.50	73.13	85.78	8.85
epdissat13	30.75	35.40	19.33	51.76	50.37	28.18	58.79	71.70	58.73	87.89	7.50
epdissat14	31.25	34.21	17.61	35.34	48.55	23.12	73.26	23.14	55.47	75.67	8.92
epdissat18	79.83	37.69	18.07	41.28	65.37	29.23	36.68	46.36	63.73	85.11	10.65

Appendix 5
Column Vectors of Means Associated with Each Cluster in Each
Cluster Solution Produced by *K* means Clustering on the *D1* Test Sample

1. Number of cases = 185 for all cluster solutions
2. Numbers indicate mean values associate with each cluster in each cluster solutions

Eight-Cluster Solution

	Cluster							
	1	2	3	4	5	6	7	8
epdissat6	31.41	17.51	37.91	49.58	32.65	49.00	66.92	71.60
epdissat9	37.63	16.59	41.82	59.08	30.25	55.63	36.69	86.00
epdissat10	34.09	15.80	50.09	54.50	28.77	41.38	37.08	80.00
epdissat12	39.56	15.27	51.91	59.75	31.67	57.38	47.62	88.00
epdissat13	37.03	16.24	48.77	51.17	32.08	59.25	64.62	80.00
epdissat14	38.16	15.68	43.64	56.33	26.69	74.38	28.15	38.80
epdissat18	59.50	15.29	43.18	74.00	30.06	39.38	44.15	77.00

Nine-Cluster Solution

	Cluster								
	1	2	3	4	5	6	7	8	9
epdissat6	31.41	20.74	37.91	49.58	32.84	49.00	66.92	71.60	9.00
epdissat9	37.63	19.51	41.82	59.08	30.49	55.63	36.69	86.00	8.44
epdissat10	34.09	18.54	50.09	54.50	29.04	41.38	37.08	80.00	8.00
epdissat12	39.56	17.46	51.91	59.75	32.10	57.38	47.62	88.00	9.89
epdissat13	37.03	19.60	48.77	51.17	32.57	59.25	64.62	80.00	5.78
epdissat14	38.16	17.57	43.64	56.33	27.43	74.38	28.15	38.80	8.00
epdissat18	59.50	17.63	43.18	74.00	30.69	39.38	44.15	77.00	7.67

Ten-Cluster Solution

	Cluster									
	1	2	3	4	5	6	7	8	9	10
epdissat6	30.94	20.74	39.30	44.82	32.80	49.00	66.92	59.33	90.00	9.00
epdissat9	36.53	19.51	42.70	53.41	30.07	55.63	36.69	86.67	85.00	8.44
epdissat10	34.18	18.54	51.70	48.65	28.34	41.38	37.08	83.33	75.00	8.00
epdissat12	37.09	17.46	51.50	59.41	31.75	57.38	47.62	83.33	95.00	9.89
epdissat13	34.74	19.60	48.75	49.94	33.25	59.25	64.62	70.00	95.00	5.78
epdissat14	38.44	17.57	42.45	52.06	26.36	74.38	28.15	25.00	59.50	8.00
epdissat18	52.97	17.63	42.25	76.35	29.59	39.38	44.15	65.00	95.00	7.67

Eleven-Cluster Solution

	Cluster										
	1	2	3	4	5	6	7	8	9	10	11
epdissat6	36.36	31.39	19.83	47.00	59.50	31.93	27.00	74.33	57.44	90.00	9.13
epdissat9	40.50	35.94	18.74	50.50	82.50	29.50	35.78	29.67	63.67	85.00	9.50
epdissat10	39.50	35.06	18.14	50.59	75.00	27.93	36.78	33.22	54.11	75.00	7.75
epdissat12	43.00	37.67	17.40	48.82	75.00	31.13	63.22	50.44	62.11	95.00	8.88
epdissat13	34.29	35.58	19.29	50.82	68.50	32.88	57.44	63.00	63.78	95.00	4.50
epdissat14	44.29	37.76	18.09	39.95	26.25	23.68	60.56	33.00	66.44	59.50	6.75
epdissat18	79.00	44.88	17.46	40.27	68.75	29.00	52.67	48.22	59.78	95.00	6.38