

TABLE 1 - Cluster Analysis Agglomeration Schedule

David J. Peters, Economic Development Quarterly 2004

	FUSION					
STAGE	COEFF	CHG	MOJENA	SLOPE	ACCEL	CLUSTER
1	5.443	0.000	13960.638	0.000	0.000	346
2	11.647	6.204	13960.638	113.981	0.000	345
3	18.779	7.132	13960.638	61.235	-46.277	344
4	27.587	8.808	13960.638	46.903	-23.404	343
5	38.317	10.730	13960.638	38.895	-17.074	342
6	49.137	10.820	13960.638	28.238	-27.399	341
7	60.263	11.126	13960.638	22.643	-19.815	340
8	72.842	12.579	13960.638	20.874	-7.814	339
9	85.800	12.958	13960.638	17.789	-14.776	338
10	99.552	13.752	13960.638	16.028	-9.900	337
11	113.474	13.922	13960.638	13.985	-12.748	336
12	127.412	13.938	13960.638	12.283	-12.168	335
13	141.384	13.972	13960.638	10.966	-10.722	334
14	155.869	14.485	13960.638	10.245	-6.574	333
15	170.558	14.689	13960.638	9.424	-8.016	332
16	187.140	16.582	13960.638	9.722	3.165	331
17	204.167	17.027	13960.638	9.099	-6.415	330
18	221.664	17.497	13960.638	8.570	-5.810	329
19	239.537	17.873	13960.638	8.063	-5.914	328
20	257.698	18.161	13960.638	7.582	-5.970	327
21	276.006	18.308	13960.638	7.104	-6.295	326
22	294.654	18.648	13960.638	6.756	-4.899	325
23	313.516	18.862	13960.638	6.401	-5.254	324
24	332.622	19.106	13960.638	6.094	-4.801	323
25	351.786	19.164	13960.638	5.761	-5.458	322
26	370.970	19.184	13960.638	5.453	-5.349	321
27	390.429	19.459	13960.638	5.245	-3.812	320
28	410.980	20.551	13960.638	5.264	0.348	319
29	431.771	20.791	13960.638	5.059	-3.891	318
30	452.923	21.152	13960.638	4.899	-3.163	317
31	474.374	21.451	13960.638	4.736	-3.323	316
32	496.009	21.635	13960.638	4.561	-3.703	315
33	517.753	21.744	13960.638	4.384	-3.880	314
34	539.531	21.778	13960.638	4.206	-4.050	313
35	561.868	22.337	13960.638	4.140	-1.573	312
36	584.722	22.854	13960.638	4.068	-1.753	311
37	607.749	23.027	13960.638	3.938	-3.181	310
38	630.950	23.201	13960.638	3.818	-3.062	309
39	654.334	23.384	13960.638	3.706	-2.917	308
40	678.065	23.731	13960.638	3.627	-2.143	307
41	701.813	23.748	13960.638	3.502	-3.431	306
42	725.594	23.781	13960.638	3.389	-3.250	305
43	750.154	24.560	13960.638	3.385	-0.109	304
44	775.024	24.870	13960.638	3.315	-2.053	303
45	799.946	24.922	13960.638	3.216	-3.007	302
46	824.946	25.000	13960.638	3.125	-2.812	301
47	849.950	25.004	13960.638	3.031	-3.015	300
48	875.167	25.217	13960.638	2.967	-2.115	299
49	900.436	25.269	13960.638	2.887	-2.681	298
50	925.721	25.285	13960.638	2.808	-2.745	297

SOURCE: Occupational Employment Statistics, US Bureau of Labor Statistics.
 ANALYSIS: David J. Peters, OSEDA, University of Missouri-Columbia.

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51	951.019	25.298	13960.638	2.733	-2.681	296
52	976.430	25.411	13960.638	2.672	-2.225	295
53	1001.915	25.485	13960.638	2.610	-2.319	294
54	1027.404	25.489	13960.638	2.544	-2.528	293
55	1053.365	25.961	13960.638	2.527	-0.675	292
56	1079.497	26.132	13960.638	2.481	-1.822	291
57	1105.847	26.350	13960.638	2.441	-1.607	290
58	1132.206	26.359	13960.638	2.384	-2.349	289
59	1158.652	26.446	13960.638	2.336	-2.006	288
60	1185.115	26.463	13960.638	2.284	-2.220	287
61	1211.592	26.477	13960.638	2.234	-2.181	286
62	1238.195	26.603	13960.638	2.196	-1.720	285
63	1265.067	26.872	13960.638	2.170	-1.159	284
64	1292.088	27.021	13960.638	2.136	-1.581	283
65	1319.173	27.085	13960.638	2.096	-1.859	282
66	1346.393	27.220	13960.638	2.063	-1.565	281
67	1373.991	27.598	13960.638	2.050	-0.661	280
68	1401.814	27.823	13960.638	2.025	-1.210	279
69	1429.871	28.057	13960.638	2.001	-1.160	278
70	1458.190	28.319	13960.638	1.981	-1.047	277
71	1486.663	28.473	13960.638	1.953	-1.409	276
72	1515.315	28.652	13960.638	1.927	-1.299	275
73	1544.008	28.693	13960.638	1.894	-1.750	274
74	1572.722	28.714	13960.638	1.860	-1.787	273
75	1601.482	28.760	13960.638	1.829	-1.668	272
76	1630.275	28.793	13960.638	1.798	-1.683	271
77	1659.403	29.128	13960.638	1.787	-0.623	270
78	1688.899	29.496	13960.638	1.778	-0.514	269
79	1718.514	29.615	13960.638	1.754	-1.350	268
80	1748.309	29.795	13960.638	1.734	-1.126	267
81	1778.232	29.923	13960.638	1.712	-1.282	266
82	1808.536	30.304	13960.638	1.704	-0.431	265
83	1838.933	30.397	13960.638	1.681	-1.374	264
84	1869.448	30.515	13960.638	1.659	-1.271	263
85	1899.994	30.546	13960.638	1.634	-1.532	262
86	1930.734	30.740	13960.638	1.618	-0.983	261
87	1961.989	31.255	13960.638	1.619	0.057	260
88	1993.635	31.646	13960.638	1.613	-0.362	259
89	2025.283	31.648	13960.638	1.587	-1.581	258
90	2057.053	31.770	13960.638	1.569	-1.183	257
91	2088.986	31.933	13960.638	1.552	-1.039	256
92	2121.292	32.306	13960.638	1.546	-0.378	255
93	2153.752	32.460	13960.638	1.530	-1.054	254
94	2186.401	32.649	13960.638	1.516	-0.934	253
95	2219.249	32.848	13960.638	1.502	-0.893	252
96	2252.160	32.911	13960.638	1.483	-1.291	251
97	2285.177	33.017	13960.638	1.466	-1.144	250
98	2318.204	33.027	13960.638	1.445	-1.415	249
99	2351.232	33.028	13960.638	1.425	-1.422	248
100	2384.290	33.058	13960.638	1.406	-1.315	247
101	2417.411	33.121	13960.638	1.389	-1.199	246
102	2450.621	33.210	13960.638	1.374	-1.105	245

SOURCE: Occupational Employment Statistics, US Bureau of Labor Statistics.
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103	2483.981	33.360	13960.638	1.361	-0.910	244
104	2517.435	33.454	13960.638	1.347	-1.065	243
105	2550.898	33.463	13960.638	1.329	-1.302	242
106	2584.373	33.475	13960.638	1.312	-1.276	241
107	2618.372	33.999	13960.638	1.316	0.250	240
108	2652.489	34.117	13960.638	1.303	-0.956	239
109	2686.674	34.185	13960.638	1.289	-1.089	238
110	2721.213	34.539	13960.638	1.286	-0.250	237
111	2755.905	34.692	13960.638	1.275	-0.832	236
112	2790.640	34.735	13960.638	1.260	-1.136	235
113	2825.442	34.802	13960.638	1.247	-1.054	234
114	2860.326	34.884	13960.638	1.235	-0.999	233
115	2895.278	34.952	13960.638	1.222	-1.027	232
116	2930.989	35.711	13960.638	1.233	0.938	231
117	2966.938	35.949	13960.638	1.227	-0.560	230
118	3003.197	36.259	13960.638	1.222	-0.360	229
119	3039.531	36.334	13960.638	1.210	-1.003	228
120	3076.118	36.587	13960.638	1.204	-0.507	227
121	3113.032	36.914	13960.638	1.200	-0.306	226
122	3150.170	37.138	13960.638	1.193	-0.586	225
123	3187.514	37.344	13960.638	1.185	-0.631	224
124	3224.869	37.355	13960.638	1.172	-1.142	223
125	3262.307	37.438	13960.638	1.161	-0.939	222
126	3300.022	37.715	13960.638	1.156	-0.416	221
127	3337.738	37.716	13960.638	1.143	-1.140	220
128	3375.591	37.853	13960.638	1.134	-0.771	219
129	3413.445	37.854	13960.638	1.121	-1.119	218
130	3451.325	37.880	13960.638	1.110	-1.041	217
131	3489.224	37.899	13960.638	1.098	-1.048	216
132	3527.272	38.048	13960.638	1.090	-0.697	215
133	3565.369	38.097	13960.638	1.080	-0.951	214
134	3603.467	38.098	13960.638	1.069	-1.066	213
135	3641.587	38.120	13960.638	1.058	-1.000	212
136	3679.849	38.262	13960.638	1.051	-0.678	211
137	3718.269	38.420	13960.638	1.044	-0.631	210
138	3756.787	38.518	13960.638	1.036	-0.781	209
139	3795.431	38.644	13960.638	1.029	-0.702	208
140	3834.442	39.011	13960.638	1.028	-0.078	207
141	3873.625	39.183	13960.638	1.022	-0.581	206
142	3913.036	39.411	13960.638	1.017	-0.436	205
143	3952.540	39.504	13960.638	1.010	-0.774	204
144	3992.049	39.509	13960.638	1.000	-0.987	203
145	4031.638	39.589	13960.638	0.992	-0.789	202
146	4071.252	39.614	13960.638	0.983	-0.919	201
147	4110.893	39.641	13960.638	0.974	-0.906	200
148	4150.719	39.826	13960.638	0.969	-0.502	199
149	4190.864	40.145	13960.638	0.967	-0.166	198
150	4231.080	40.216	13960.638	0.960	-0.783	197
151	4271.422	40.342	13960.638	0.953	-0.640	196
152	4311.937	40.515	13960.638	0.949	-0.520	195
153	4352.678	40.741	13960.638	0.945	-0.387	194
154	4394.193	41.515	13960.638	0.954	0.946	193

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155	4435.722	41.529	13960.638	0.945	-0.911	192
156	4477.445	41.723	13960.638	0.941	-0.473	191
157	4519.280	41.835	13960.638	0.934	-0.666	190
158	4561.128	41.848	13960.638	0.926	-0.895	189
159	4603.030	41.902	13960.638	0.919	-0.790	188
160	4645.259	42.229	13960.638	0.917	-0.137	187
161	4687.514	42.255	13960.638	0.910	-0.848	186
162	4730.018	42.504	13960.638	0.907	-0.317	185
163	4772.675	42.657	13960.638	0.902	-0.542	184
164	4815.462	42.787	13960.638	0.896	-0.592	183
165	4858.319	42.857	13960.638	0.890	-0.726	182
166	4901.528	43.209	13960.638	0.889	-0.068	181
167	4945.010	43.482	13960.638	0.887	-0.255	180
168	4988.592	43.582	13960.638	0.881	-0.651	179
169	5032.196	43.604	13960.638	0.874	-0.824	178
170	5076.040	43.844	13960.638	0.871	-0.321	177
171	5120.022	43.982	13960.638	0.866	-0.552	176
172	5164.557	44.535	13960.638	0.870	0.388	175
173	5209.222	44.665	13960.638	0.865	-0.573	174
174	5254.120	44.898	13960.638	0.862	-0.340	173
175	5299.028	44.908	13960.638	0.855	-0.832	172
176	5343.937	44.909	13960.638	0.847	-0.845	171
177	5389.056	45.119	13960.638	0.844	-0.377	170
178	5434.716	45.660	13960.638	0.847	0.352	169
179	5480.388	45.672	13960.638	0.840	-0.814	168
180	5526.115	45.727	13960.638	0.834	-0.714	167
181	5571.955	45.840	13960.638	0.830	-0.582	166
182	5618.302	46.347	13960.638	0.832	0.274	165
183	5664.690	46.388	13960.638	0.826	-0.737	164
184	5711.386	46.696	13960.638	0.824	-0.160	163
185	5758.341	46.955	13960.638	0.822	-0.267	162
186	5805.432	47.091	13960.638	0.818	-0.528	161
187	5852.714	47.282	13960.638	0.814	-0.409	160
188	5900.526	47.812	13960.638	0.817	0.304	159
189	5948.617	48.091	13960.638	0.815	-0.231	158
190	5996.939	48.322	13960.638	0.812	-0.332	157
191	6045.500	48.561	13960.638	0.810	-0.315	156
192	6094.205	48.705	13960.638	0.806	-0.509	155
193	6143.220	49.015	13960.638	0.804	-0.168	154
194	6192.261	49.041	13960.638	0.798	-0.745	153
195	6241.979	49.718	13960.638	0.803	0.578	152
196	6292.011	50.032	13960.638	0.802	-0.170	151
197	6342.109	50.098	13960.638	0.796	-0.664	150
198	6392.339	50.230	13960.638	0.792	-0.529	149
199	6442.841	50.502	13960.638	0.790	-0.249	148
200	6493.404	50.563	13960.638	0.785	-0.664	147
201	6543.984	50.580	13960.638	0.779	-0.745	146
202	6595.073	51.089	13960.638	0.781	0.226	145
203	6646.297	51.224	13960.638	0.777	-0.512	144
204	6697.547	51.250	13960.638	0.771	-0.720	143
205	6749.085	51.538	13960.638	0.770	-0.208	142
206	6801.002	51.917	13960.638	0.769	-0.034	141

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207	6853.273	52.271	13960.638	0.769	-0.087	140
208	6905.661	52.388	13960.638	0.764	-0.541	139
209	6958.113	52.452	13960.638	0.760	-0.637	138
210	7010.773	52.660	13960.638	0.757	-0.360	137
211	7063.722	52.949	13960.638	0.755	-0.206	136
212	7116.741	53.019	13960.638	0.751	-0.618	135
213	7169.967	53.226	13960.638	0.748	-0.357	134
214	7224.103	54.136	13960.638	0.755	0.955	133
215	7278.461	54.358	13960.638	0.752	-0.342	132
216	7332.964	54.503	13960.638	0.749	-0.482	131
217	7387.805	54.841	13960.638	0.748	-0.128	130
218	7442.674	54.869	13960.638	0.743	-0.692	129
219	7497.601	54.927	13960.638	0.738	-0.632	128
220	7552.562	54.961	13960.638	0.733	-0.671	127
221	7607.603	55.041	13960.638	0.729	-0.583	126
222	7662.649	55.046	13960.638	0.724	-0.714	125
223	7718.075	55.426	13960.638	0.723	-0.033	124
224	7773.520	55.445	13960.638	0.718	-0.684	123
225	7829.155	55.635	13960.638	0.716	-0.373	122
226	7885.778	56.623	13960.638	0.723	1.053	121
227	7943.391	57.613	13960.638	0.731	1.018	120
228	8001.513	58.122	13960.638	0.732	0.152	119
229	8060.202	58.689	13960.638	0.733	0.242	118
230	8119.679	59.477	13960.638	0.738	0.605	117
231	8179.869	60.190	13960.638	0.741	0.457	116
232	8240.303	60.434	13960.638	0.739	-0.333	115
233	8300.856	60.553	13960.638	0.735	-0.538	114
234	8362.203	61.347	13960.638	0.739	0.572	113
235	8423.637	61.434	13960.638	0.735	-0.593	112
236	8485.404	61.767	13960.638	0.733	-0.191	111
237	8547.196	61.792	13960.638	0.728	-0.688	110
238	8609.853	62.657	13960.638	0.733	0.667	109
239	8672.913	63.060	13960.638	0.732	-0.089	108
240	8736.902	63.989	13960.638	0.738	0.735	107
241	8801.349	64.447	13960.638	0.738	-0.022	106
242	8866.055	64.706	13960.638	0.735	-0.333	105
243	8931.049	64.994	13960.638	0.733	-0.288	104
244	8996.256	65.207	13960.638	0.730	-0.402	103
245	9062.730	66.474	13960.638	0.739	1.204	102
246	9129.228	66.498	13960.638	0.734	-0.698	101
247	9195.757	66.529	13960.638	0.729	-0.682	100
248	9262.334	66.577	13960.638	0.724	-0.652	99
249	9329.075	66.741	13960.638	0.721	-0.474	98
250	9396.427	67.352	13960.638	0.722	0.194	97
251	9463.936	67.509	13960.638	0.718	-0.485	96
252	9532.208	68.272	13960.638	0.721	0.409	95
253	9601.483	69.275	13960.638	0.727	0.742	94
254	9670.965	69.482	13960.638	0.724	-0.425	93
255	9740.636	69.671	13960.638	0.720	-0.448	92
256	9810.585	69.949	13960.638	0.718	-0.319	91
257	9880.622	70.037	13960.638	0.714	-0.588	90
258	9950.768	70.146	13960.638	0.710	-0.554	89

SOURCE: Occupational Employment Statistics, US Bureau of Labor Statistics.
 ANALYSIS: David J. Peters, OSEDA, University of Missouri-Columbia.

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259	10021.336	70.568	13960.638	0.709	-0.108	88
260	10092.696	71.360	13960.638	0.712	0.410	87
261	10165.134	72.438	13960.638	0.718	0.793	86
262	10238.875	73.741	13960.638	0.725	1.073	85
263	10313.289	74.414	13960.638	0.727	0.186	84
264	10388.593	75.304	13960.638	0.730	0.466	83
265	10463.940	75.347	13960.638	0.725	-0.668	82
266	10540.614	76.674	13960.638	0.733	1.028	81
267	10617.745	77.131	13960.638	0.732	-0.136	80
268	10695.335	77.590	13960.638	0.731	-0.136	79
269	10773.949	78.614	13960.638	0.735	0.585	78
270	10853.234	79.285	13960.638	0.736	0.118	77
271	10932.840	79.606	13960.638	0.733	-0.329	76
272	11013.516	80.676	13960.638	0.738	0.606	75
273	11095.095	81.579	13960.638	0.741	0.379	74
274	11176.752	81.657	13960.638	0.736	-0.640	73
275	11258.425	81.673	13960.638	0.731	-0.711	72
276	11340.130	81.705	13960.638	0.726	-0.687	71
277	11422.230	82.100	13960.638	0.724	-0.241	70
278	11508.086	85.856	13960.638	0.752	3.823	69
279	11594.315	86.229	13960.638	0.749	-0.315	68
280	11681.095	86.780	13960.638	0.748	-0.109	67
281	11770.179	89.084	13960.638	0.763	1.892	66
282	11859.459	89.280	13960.638	0.759	-0.539	65
283	11950.555	91.096	13960.638	0.768	1.266	64
284	12042.513	91.958	13960.638	0.769	0.177	63
285	12134.717	92.204	13960.638	0.766	-0.498	62
286	12227.396	92.679	13960.638	0.764	-0.249	61
287	12320.798	93.402	13960.638	0.764	0.016	60
288	12414.831	94.033	13960.638	0.763	-0.088	59
289	12509.039	94.208	13960.638	0.759	-0.573	58
290	12603.493	94.454	13960.638	0.755	-0.494	57
291	12698.169	94.676	13960.638	0.751	-0.516	56
292	12796.003	97.834	13960.638	0.770	2.565	55
293	12895.273	99.270	13960.638	0.776	0.692	54
294	12995.342	100.069	13960.638	0.776	0.029	53
295	13097.136	101.794	13960.638	0.783	0.940	52
296	13200.475	103.339	13960.638	0.789	0.729	51
297	13305.947	105.472	13960.638	0.799	1.265	50
298	13411.453	105.506	13960.638	0.793	-0.761	49
299	13518.337	106.884	13960.638	0.797	0.509	48
300	13627.208	108.871	13960.638	0.805	1.054	47
301	13737.748	110.540	13960.638	0.811	0.722	46
302	13850.678	112.930	13960.638	0.822	1.340	45
303	13964.827	114.149	13960.638	0.824	0.255	44
304	14079.093	114.266	13960.638	0.818	-0.716	43
305	14193.970	114.877	13960.638	0.816	-0.281	42
306	14323.654	129.684	13960.638	0.914	11.976	41
307	14454.591	130.937	13960.638	0.914	0.052	40
308	14586.457	131.866	13960.638	0.912	-0.203	39
309	14719.489	133.032	13960.638	0.912	-0.028	38
310	14852.800	133.311	13960.638	0.906	-0.696	37

SOURCE: Occupational Employment Statistics, US Bureau of Labor Statistics.
 ANALYSIS: David J. Peters, OSEDA, University of Missouri-Columbia.

TABLE 1 - Cluster Analysis Agglomeration Schedule

David J. Peters, Economic Development Quarterly 2004

311	14988.307	135.507	13960.638	0.912	0.735	36
312	15127.846	139.539	13960.638	0.931	2.045	35
313	15269.223	141.377	13960.638	0.935	0.383	34
314	15413.523	144.300	13960.638	0.945	1.122	33
315	15565.016	151.493	13960.638	0.983	4.002	32
316	15720.274	155.258	13960.638	0.997	1.488	31
317	15884.411	164.137	13960.638	1.044	4.675	30
318	16048.581	164.170	13960.638	1.034	-1.013	29
319	16215.199	166.618	13960.638	1.038	0.453	28
320	16397.439	182.240	13960.638	1.124	8.252	27
321	16583.377	185.938	13960.638	1.134	0.895	26
322	16773.903	190.526	13960.638	1.149	1.319	25
323	16965.806	191.903	13960.638	1.144	-0.421	24
324	17159.605	193.799	13960.638	1.142	-0.154	23
325	17355.122	195.517	13960.638	1.139	-0.253	22
326	17557.612	202.490	13960.638	1.167	2.400	21
327	17769.521	211.909	13960.638	1.207	3.445	20
328	18008.906	239.385	13960.638	1.347	11.619	19
329	18254.420	245.514	13960.638	1.363	1.197	18
330	18508.881	254.461	13960.638	1.394	2.250	17
331	18772.714	263.833	13960.638	1.425	2.258	16
332	19048.620	275.906	13960.638	1.470	3.106	15
333	19324.548	275.928	13960.638	1.449	-1.441	14
334	19618.671	294.123	13960.638	1.522	5.072	13
335	19912.899	294.228	13960.638	1.500	-1.464	12
336	20245.941	333.042	13960.638	1.672	11.519	11
337	20593.955	348.014	13960.638	1.719	2.777	10
338	20949.531	355.576	13960.638	1.727	0.446	9
339	21373.968	424.437	13960.638	2.026	17.340	8
340	21815.180	441.212	13960.638	2.064	1.888	7
341	22423.900	608.720	13960.638	2.790	35.175	6
342	23168.675	744.775	13960.638	3.321	19.030	5
343	23956.410	787.735	13960.638	3.400	2.368	4
344	24785.208	828.798	13960.638	3.460	1.753	3
345	26134.210	1349.002	13960.638	5.443	57.323	2
346	27788.970	1654.760	13960.638	6.332	16.334	1

SOURCE: Occupational Employment Statistics, US Bureau of Labor Statistics.
 ANALYSIS: David J. Peters, OSEDA, University of Missouri-Columbia.