

Obs	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10
1	7.69	7.31	7.47	7.76	7.87	7.51	7.24	7.70	7.91	7.95
2	6.59	5.56	6.21	6.04	5.81	6.64	6.11	6.53	6.44	6.64
3	4.55	4.18	4.36	4.25	4.53	4.60	3.66	4.04	3.68	4.43
4	6.78	6.11	6.30	5.98	5.56	6.37	6.29	5.43	5.32	5.28
5	6.47	6.24	6.02	5.42	5.88	6.00	5.60	4.60	5.40	5.95
6	6.96	6.81	6.91	6.48	6.23	7.09	7.27	7.13	6.86	7.36
7	6.57	5.70	5.89	5.16	5.30	6.07	5.56	4.50	4.92	5.33
8	7.32	6.95	6.02	4.98	4.88	6.82	6.40	5.53	5.61	5.33
9	6.51	6.15	5.51	4.68	4.16	5.17	4.81	4.70	4.86	3.82
10	6.86	6.05	5.85	6.14	6.75	6.71	5.39	5.42	6.03	6.59

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### The FACTOR Procedure

Input Data Type	Raw Data
Number of Records Read	100
Number of Records Used	100
N for Significance Tests	100

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### The FACTOR Procedure

Initial Factor Method: Principal Components

Prior Communality Estimates: ONE

Eigenvalues of the Correlation Matrix: Total = 10 Average = 1				
	Eigenvalue	Difference	Proportion	Cumulative
1	6.82795512	5.06608201	0.6828	0.6828
2	1.76187311	1.00742187	0.1762	0.8590
3	0.75445124	0.49207487	0.0754	0.9344
4	0.26237637	0.14082435	0.0262	0.9607
5	0.12155202	0.02358655	0.0122	0.9728
6	0.09796547	0.02586580	0.0098	0.9826
7	0.07209967	0.02801926	0.0072	0.9898
8	0.04408041	0.00832792	0.0044	0.9942
9	0.03575249	0.01385842	0.0036	0.9978
10	0.02189408		0.0022	1.0000

3 factors will be retained by the NFACTOR criterion.

Factor Pattern				
		Factor1	Factor2	Factor3
X01	M(-15)	0.74741	-0.59244	0.16808
X02	M(16-20)	0.86579	-0.31836	0.29190
X03	M(21-30)	0.84491	0.22079	0.38417
X04	M(31-40)	0.78216	0.47602	0.32604
X05	M(41-)	0.68129	0.67325	0.11067
X06	F(-15)	0.80647	-0.54140	-0.07270
X07	F(16-20)	0.89959	-0.33542	-0.14888

Factor Pattern				
		Factor1	Factor2	Factor3
X08	F(21-30)	0.90901	-0.04289	-0.25110
X09	F(31-40)	0.90316	0.21817	-0.27989
X10	F(41-)	0.79262	0.35477	-0.45389

Variance Explained by Each Factor		
Factor1	Factor2	Factor3
6.8279551	1.7618731	0.7544512

Final Community Estimates: Total = 9.344279									
X01	X02	X03	X04	X05	X06	X07	X08	X09	X10
0.93786990	0.93615660	0.91021020	0.94467297	0.92966229	0.94880526	0.94393897	0.89119742	0.94163724	0.96012863

The FACTOR Procedure  
Rotation Method: Varimax

Orthogonal Transformation Matrix			
	1	2	3
1	0.65777	0.53529	0.52990
2	-0.73396	0.61357	0.29126
3	0.16922	0.58051	-0.79647

Rotated Factor Pattern				
		Factor1	Factor2	Factor3
X01	M(-15)	0.95490	0.13415	0.08963
X02	M(16-20)	0.85255	0.43757	0.13357
X03	M(21-30)	0.45872	0.81076	0.20605
X04	M(31-40)	0.22027	0.90003	0.29343
X05	M(41-)	-0.02727	0.84202	0.46896
X06	F(-15)	0.91555	0.05731	0.32756
X07	F(16-20)	0.81272	0.18932	0.49758
X08	F(21-30)	0.58692	0.31451	0.66919
X09	F(31-40)	0.38658	0.45484	0.76506
X10	F(41-)	0.18417	0.37847	0.88485

Variance Explained by Each Factor		
Factor1	Factor2	Factor3
3.9249494	2.8740019	2.5453282

Final Community Estimates: Total = 9.344279									
X01	X02	X03	X04	X05	X06	X07	X08	X09	X10
0.93786990	0.93615660	0.91021020	0.94467297	0.92966229	0.94880526	0.94393897	0.89119742	0.94163724	0.96012863

The FACTOR Procedure  
Rotation Method: Varimax

Scoring Coefficients Estimated by Regression

Squared Multiple Correlations of the Variables with Each Factor		
Factor1	Factor2	Factor3
1.000000	1.000000	1.000000

Standardized Scoring Coefficients				
		Factor1	Factor2	Factor3
X01	M(-15)	0.35650	-0.01839	-0.21738
X02	M(16-20)	0.28150	0.18161	-0.29360
X03	M(21-30)	0.07559	0.43873	-0.30350
X04	M(31-40)	-0.04982	0.47796	-0.20481
X05	M(41-)	-0.19000	0.37303	0.04733
X06	F(-15)	0.28692	-0.18126	0.04983
X07	F(16-20)	0.19300	-0.16084	0.17154
X08	F(21-30)	0.04912	-0.13688	0.32854
X09	F(31-40)	-0.06666	-0.06858	0.40164
X10	F(41-)	-0.17324	-0.16356	0.59933

Obs	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	Factor1	Factor2	Factor3
1	7.69	7.31	7.47	7.76	7.87	7.51	7.24	7.70	7.91	7.95	0.66956	1.82121	1.58069
2	6.59	5.56	6.21	6.04	5.81	6.64	6.11	6.53	6.44	6.64	0.16626	-0.19916	1.19252
3	4.55	4.18	4.36	4.25	4.53	4.60	3.66	4.04	3.68	4.43	-1.03468	-1.43973	-0.47173
4	6.78	6.11	6.30	5.98	5.56	6.37	6.29	5.43	5.32	5.28	0.63900	0.22553	-0.50004
5	6.47	6.24	6.02	5.42	5.88	6.00	5.60	4.60	5.40	5.95	0.18242	0.09152	-0.20811
6	6.96	6.81	6.91	6.48	6.23	7.09	7.27	7.13	6.86	7.36	0.74034	0.36710	1.34854
7	6.57	5.70	5.89	5.16	5.30	6.07	5.56	4.50	4.92	5.33	0.32215	-0.32438	-0.54816
8	7.32	6.95	6.02	4.98	4.88	6.82	6.40	5.53	5.61	5.33	1.29334	-0.70969	-0.33933
9	6.51	6.15	5.51	4.68	4.16	5.17	4.81	4.70	4.86	3.82	0.58581	-0.75180	-1.38820
10	6.86	6.05	5.85	6.14	6.75	6.71	5.39	5.42	6.03	6.59	0.02089	0.39898	0.55070
11	7.04	6.03	6.53	6.02	6.68	6.78	5.91	6.26	5.76	5.95	0.40396	0.58950	0.17643
12	6.59	6.30	6.29	5.94	6.10	5.93	5.52	5.35	5.45	5.85	0.19873	0.54822	-0.27773
13	5.93	4.76	5.09	5.51	5.79	5.49	4.97	4.69	5.30	5.61	-0.59976	-0.44330	0.31921
14	7.00	6.31	6.82	6.26	5.26	6.69	6.27	5.94	5.78	5.26	0.91645	0.42072	-0.53512
15	6.63	5.47	5.54	4.88	4.70	5.89	4.64	4.43	4.00	3.98	0.46299	-0.53468	-1.57421
16	6.56	6.57	5.74	4.76	4.39	6.56	6.29	5.61	5.22	4.72	1.10983	-1.07931	-0.45219
17	5.80	5.44	4.75	4.69	4.65	5.23	4.83	4.66	4.72	4.98	-0.14082	-1.22226	-0.20589
18	6.39	6.14	6.21	5.48	5.40	6.32	6.19	6.44	5.49	5.49	0.56184	-0.28434	0.15426
19	7.19	6.66	6.58	5.33	5.03	7.13	7.19	6.62	5.78	5.23	1.42653	-0.49615	-0.05011
20	5.76	6.63	7.02	7.37	7.27	5.93	5.89	6.70	6.82	6.97	-0.35458	1.77691	0.83294
21	5.74	5.71	5.93	6.12	6.24	5.42	5.69	6.10	6.25	6.45	-0.47609	0.23502	0.99736
22	5.52	5.28	5.17	4.69	4.87	4.86	4.66	4.10	4.62	4.10	-0.26670	-0.65297	-0.96281
23	4.89	4.75	5.02	5.14	4.65	4.96	4.17	3.89	4.61	4.01	-0.63572	-0.58225	-0.93958
24	6.46	6.88	6.93	6.74	6.52	6.14	6.64	5.81	6.14	6.59	0.33485	1.19537	0.15897
25	6.42	6.79	7.26	6.68	6.48	6.32	5.85	5.14	6.21	5.55	0.37726	1.61696	-0.74595
26	5.89	6.51	6.46	6.31	5.76	5.54	4.38	4.51	5.75	5.11	-0.09263	1.13454	-1.07814
27	4.16	4.73	5.75	5.79	5.29	3.35	4.16	4.33	5.49	4.72	-1.46303	0.43324	-0.39566
28	5.99	6.10	5.84	5.49	4.82	5.04	4.44	4.09	5.01	4.31	0.06605	0.18580	-1.46840
29	6.97	5.84	5.47	4.58	4.75	6.71	5.90	5.08	4.87	5.01	0.86173	-1.22071	-0.34885

Obs	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	Factor1	Factor2	Factor3
30	7.15	6.76	6.56	5.73	5.13	6.99	6.27	5.75	5.58	4.98	1.22928	0.06302	-0.75360
31	5.38	5.74	5.87	5.16	5.15	5.33	4.89	4.71	5.28	4.96	-0.21004	-0.17526	-0.46939
32	7.38	7.84	8.04	7.58	7.25	6.68	6.31	6.29	6.68	6.14	0.88025	2.62575	-0.74318
33	7.00	6.52	6.49	5.90	5.60	6.58	5.94	5.02	5.71	5.14	0.79438	0.43247	-0.78770
34	5.81	6.66	7.28	6.54	7.38	5.73	6.10	6.29	6.43	7.06	-0.30293	1.59537	0.70789
35	3.32	4.09	5.13	5.52	5.24	3.27	3.74	4.35	4.92	5.22	-2.03482	-0.12605	0.20052
36	4.97	4.67	5.16	5.26	6.04	4.86	4.43	4.62	5.85	6.05	-1.26849	-0.36328	0.88423
37	3.84	3.84	4.47	4.29	5.37	3.97	3.73	3.88	5.08	5.50	-1.89509	-1.20621	0.80434
38	6.12	6.57	6.66	7.02	6.97	5.40	4.76	3.72	5.33	6.09	-0.41669	2.08005	-1.13148
39	4.14	4.28	5.60	4.74	5.53	3.99	4.35	4.25	4.95	5.17	-1.46357	-0.30651	0.09232
40	4.57	4.64	5.80	4.50	5.67	4.20	4.97	4.57	4.92	5.35	-1.10443	-0.38650	0.17771
41	4.34	5.11	6.85	6.34	6.58	3.60	5.13	5.67	5.79	5.97	-1.45301	1.38140	0.33073
42	4.97	5.06	6.13	6.35	6.96	4.74	5.04	5.54	5.73	6.51	-1.27992	0.94078	0.77229
43	5.83	5.34	5.89	5.80	5.87	6.01	5.23	5.42	5.99	6.31	-0.39322	-0.07497	0.73287
44	5.27	4.31	4.65	3.73	3.72	5.29	3.71	3.19	3.50	3.35	-0.26212	-1.71808	-1.52731
45	5.31	4.88	5.35	5.47	5.63	4.37	3.79	3.67	4.00	4.24	-0.87551	0.36442	-1.45428
46	6.47	6.00	6.68	6.88	7.08	6.29	6.48	6.28	6.67	7.31	-0.16998	1.02070	1.20891
47	7.22	6.59	6.60	6.38	6.34	6.66	6.33	6.53	5.88	6.46	0.63583	0.61175	0.31454
48	6.74	6.59	6.61	6.88	6.44	6.48	6.38	6.09	6.03	6.52	0.37990	0.98077	0.25102
49	6.76	6.36	6.33	5.82	5.11	6.05	5.81	5.47	5.42	4.88	0.71664	0.16859	-0.80951
50	7.16	6.39	6.21	5.61	5.85	6.67	6.53	6.04	5.96	5.80	0.78488	-0.11712	0.23883
51	4.44	5.32	5.47	5.55	5.68	5.00	5.98	6.32	5.79	6.22	-0.81773	-0.53556	1.38938
52	5.11	4.48	6.07	6.46	6.45	5.25	5.56	6.13	6.40	6.70	-1.14870	0.36039	1.51598
53	4.54	4.50	4.60	4.88	5.03	4.66	5.23	5.12	5.41	5.54	-1.03690	-1.34709	1.05532
54	4.53	4.15	4.14	4.27	4.98	4.43	4.12	3.68	4.97	5.55	-1.40109	-1.60511	0.69883
55	5.16	5.54	6.74	6.82	7.08	5.89	5.88	7.25	6.86	7.25	-0.81069	0.97495	1.78581
56	6.33	6.39	5.49	5.86	5.68	5.81	5.42	5.91	5.71	6.31	0.06391	-0.19805	0.52323
57	4.84	5.58	5.74	5.55	6.00	5.07	5.17	5.72	6.01	6.30	-0.84558	-0.07022	1.00204
58	4.61	3.71	4.35	4.47	4.86	4.33	4.27	3.92	4.94	5.58	-1.45353	-1.55624	0.77366
59	3.51	3.39	4.69	4.61	4.42	3.18	2.93	3.56	4.14	3.61	-1.87419	-0.80189	-0.82669
60	5.31	5.09	5.11	4.17	4.46	5.25	5.15	4.69	4.41	4.20	-0.07720	-1.35315	-0.52660
61	5.83	6.38	7.23	5.48	5.59	6.46	7.44	7.06	6.49	6.13	0.61713	-0.03729	0.92253
62	4.18	4.61	5.45	4.60	4.67	4.68	4.73	5.04	4.95	5.25	-0.94621	-1.02106	0.38761
63	4.60	5.08	6.11	6.02	5.50	4.64	5.74	5.75	6.14	5.81	-0.86946	0.11766	0.78482
64	4.83	5.14	6.23	5.88	6.29	5.48	5.59	5.58	6.05	5.97	-0.80243	0.35516	0.76695
65	4.55	4.49	4.65	4.98	5.34	4.57	4.02	4.62	5.01	5.59	-1.32497	-0.88147	0.57518
66	4.00	3.95	5.51	5.00	5.15	4.45	4.63	5.38	4.06	5.22	-1.28652	-0.62238	0.22935
67	7.60	6.75	7.19	7.40	7.29	7.50	7.09	7.11	7.69	7.49	0.64219	1.31803	1.38206
68	5.12	5.31	6.21	6.12	6.74	4.99	5.11	5.06	5.59	5.93	-0.95775	0.91945	0.20168
69	5.66	5.92	6.95	6.42	6.55	5.48	6.17	5.83	6.09	6.27	-0.31366	1.09840	0.36063
70	5.09	4.61	5.11	5.06	5.35	4.63	4.48	4.17	5.53	6.00	-1.12961	-0.68850	0.61995
71	4.97	3.72	4.16	3.64	4.31	4.19	3.49	3.16	3.79	3.93	-1.06469	-1.79143	-0.73646
72	4.58	4.96	6.02	5.43	5.39	4.66	4.23	4.22	4.14	4.39	-0.82067	0.42431	-1.22803
73	3.91	3.91	5.09	5.98	5.79	2.83	2.32	2.76	2.75	2.70	-1.93151	1.24431	-2.79268
74	4.56	5.13	6.68	7.15	6.45	3.32	3.64	4.22	4.28	3.59	-1.32110	2.52444	-2.34921
75	3.92	4.19	4.95	4.85	4.76	2.09	2.56	2.66	2.07	1.79	-1.52764	0.45513	-3.39881
76	6.13	6.29	7.05	6.76	6.63	6.52	6.81	7.21	6.83	7.35	0.07719	0.81349	1.46672
77	6.08	6.73	6.56	5.80	5.48	5.77	6.00	5.96	5.68	5.75	0.40443	0.32165	-0.13129

Obs	X01	X02	X03	X04	X05	X06	X07	X08	X09	X10	Factor1	Factor2	Factor3
78	6.20	6.75	6.23	6.58	5.49	5.02	6.31	6.28	6.18	5.76	0.23362	0.54820	0.10203
79	7.40	7.27	6.75	6.70	6.82	6.27	6.25	5.04	6.36	5.16	0.76876	1.58079	-0.97364
80	8.05	6.84	6.72	6.34	5.90	7.82	7.02	6.29	6.73	6.11	1.40748	0.26684	0.26412
81	7.80	6.59	6.42	6.18	5.78	7.60	6.57	5.94	5.91	5.21	1.32866	0.25338	-0.45881
82	6.97	5.31	5.25	4.83	4.21	6.73	5.06	4.73	4.16	4.25	0.81477	-1.21591	-1.10941
83	6.87	6.86	6.23	5.56	4.96	5.60	5.77	4.49	3.87	3.34	1.11000	0.51805	-2.62294
84	7.60	6.60	5.80	5.32	5.33	6.90	6.35	5.51	5.49	5.67	1.10777	-0.56784	-0.13750
85	6.96	5.61	4.34	4.28	4.15	6.46	5.70	5.31	4.77	4.19	0.89228	-2.11145	-0.27693
86	5.71	5.58	5.46	5.10	5.57	5.46	5.94	5.19	5.78	6.23	-0.28930	-0.71721	0.87336
87	5.30	5.88	5.35	5.24	5.68	5.17	5.91	5.06	5.56	6.10	-0.40745	-0.50315	0.66564
88	7.09	6.39	5.60	6.18	5.81	7.12	6.69	5.96	6.28	6.60	0.66531	-0.37165	0.91312
89	6.93	6.73	5.60	5.63	6.13	7.13	6.66	6.42	6.44	6.50	0.69530	-0.51156	1.12591
90	7.46	6.19	5.42	4.70	3.68	7.33	6.73	5.58	4.18	3.39	1.90502	-1.56170	-1.44041
91	6.38	5.28	5.07	3.96	4.25	6.28	5.21	4.65	4.49	4.64	0.49897	-1.77171	-0.41636
92	7.41	6.97	5.91	4.96	4.86	7.19	6.72	5.98	5.53	5.52	1.45010	-0.95718	-0.05537
93	7.77	6.47	5.71	5.26	4.91	7.72	7.03	6.42	5.52	5.46	1.56939	-1.13958	0.19104
94	7.96	7.13	6.36	6.18	5.71	7.92	7.59	6.87	6.77	6.43	1.56607	-0.24713	0.79737
95	7.62	6.48	5.75	4.69	4.65	7.82	7.17	6.31	5.53	5.58	1.64067	-1.55930	0.37290
96	8.44	7.52	6.82	6.88	6.05	8.48	8.33	7.25	6.83	6.55	1.98050	0.32064	0.62257
97	7.81	7.31	6.93	7.42	6.60	8.10	7.56	7.79	7.82	7.67	1.18183	0.72874	1.67768
98	8.29	7.45	7.00	6.76	6.69	8.14	7.09	6.83	6.83	7.13	1.41879	0.79717	0.65509
99	7.20	6.42	6.23	5.92	5.91	6.98	6.44	6.04	6.14	6.02	0.78515	0.01022	0.33641
100	7.62	7.33	6.91	6.90	6.47	7.33	6.69	7.23	6.79	6.70	1.06596	0.90241	0.58097



