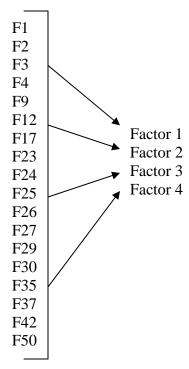
Jeff Spicer

Factor Analysis



For these items, -1=opposed to my values, 0= neutral and 7=of supreme importance.

- F1. Equality (equal opportunity for all)
- F2. Inner Harmony (at peace with myself)
- F3. Social Power (control over others, dominance)
- F4. Pleasure (gratification of desires)
- F9. An Exciting Life (stimulating experiences)
- F12. Wealth (material possessions, money)
- F17. A World at Peace (free of war and conflict)
- F23. Social Recognition (respect, approval by others)
- F24. Unity with Nature (fitting into nature)
- F25. A Varied Life (filled with challenge, novelty, and change)

- F26. Wisdom (a mature understanding of life)
- F27. Authority (the right to lead or command)
- F29. A World of Beauty (beauty of nature and the arts)
- F30. Social Justice (correcting injustice, care for the weak)
- F35. Broad-minded (tolerant of different ideas and beliefs)
- F37. Daring (seeking adventure, risk)
- F38. Protecting the Environment (preserving nature)
- F42. Healthy (not being sick physically or mentally)
- F46. Preserving my Public Image (protecting my "face")
- F50. Enjoying life (enjoying food, sex, leisure, etc.)

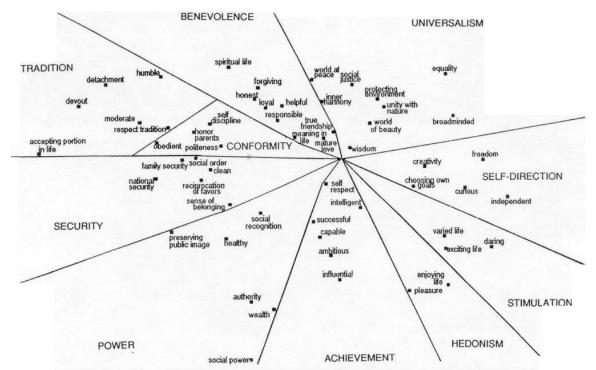


Fig. 4. Teacher samples. Individual-level value structure averaged across 15 countries: Two-dimensional smallest space analysis.

SOURCE: Schwartz, S.H. (1992). Universals in the content and structure of values: Theoretical advances and empirical tests in 20 countries. In M.P. Zanna (Ed.), Advances in Experimental Social Psychology (pp. 1-64). San Diego CA: Academic Press, Inc.

ANALYZE --> DATA REDUCTION --> FACTOR

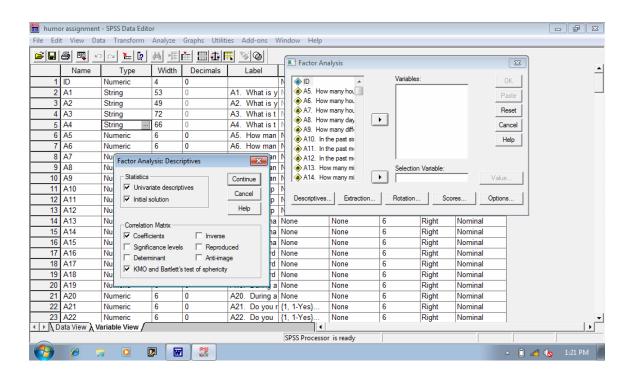
DESCRIPTIVES --> STATISTICS--> √UNIVARIATE DESCRIPTIVES,

√INITIAL SOLUTION

--> CORRELATION MATRIX --> √COEFFICIENTS,

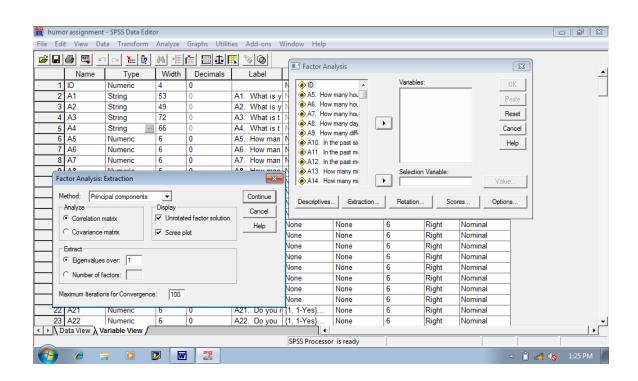
√KMO & BARTLETT"S

CONTINUE

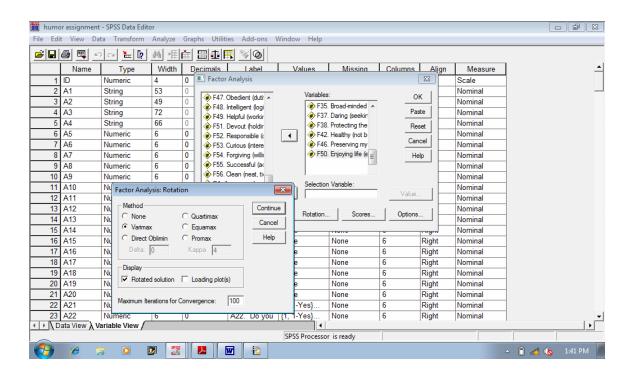


EXTRACTION --> METHOD --> PRINCIPAL COMPONENTS

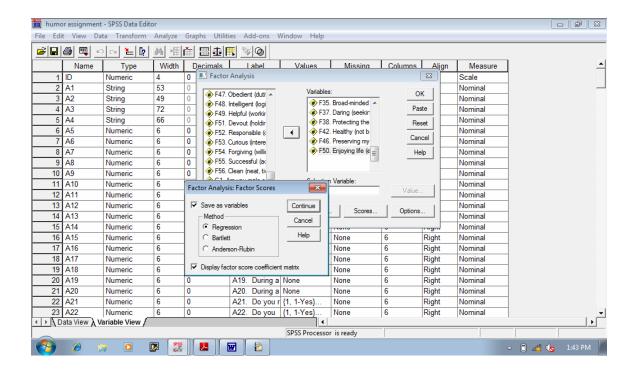
- --> ANALYZE --> √CORRELATION MATRIX
- --> DISPLAY --> $\sqrt{\text{UNROTATED FACTOR SOLUTION}}$, $\sqrt{\text{SCREE PLOT}}$
- --> EXTRACT --> √EIGENVALUES OVER 1
- --> MAXIMUM ITERATIONS FOR CONVERGENCE 100 CONTINUE



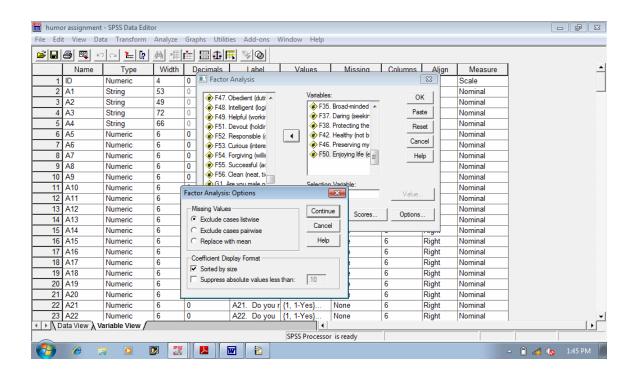
ROTATION --> METHOD --> √VARIMAX --> DISPLAY --> √ROTATED SOLUTION --> MAXIMUM ITERATIONS FOR CONVERGENCE 100 CONTINUE



SCORES --> √SAVE AS VARIABLES-->METHOD-->√REGRESSION --> √DISPLAY FACTOR SCORE COEFFICIENT MATRIX CONTINUE



OPTIONS --> MISSING VALUES --> √EXCLUDE CASES LISTWISE --> COEFFICIENT DISPLAY FORMAT --> √SORTED BY SIZE CONTINUE OK



```
FACTOR

/VARIABLES F1 F2 F3 F4 F9 F12 F17 F23 F24 F25 F26 F27 F29 F30 F35 F37 F38 F42 F46 F50 /MISSING LISTWISE /ANALYSIS F1 F2 F3
F4 F9 F12 F17 F23 F24 F25 F26 F27 F29 F30 F35 F37 F38 F42 F46 F50 /PRINT UNIVARIATE INITIAL CORRELATION KMO EXTRACTION ROTATION FSCORE /FORMAT SORT /PLOT EIGEN /CRITERIA MINEIGEN(1) ITERATE(100) /EXTRACTION PC /CRITERIA ITERATE(100) /ROTATION VARIMAX /SAVE REG(ALL) /METHOD=CORRELATION .
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Factor Analysis

Descriptive Statistics

	Mean	Std. Deviation	Analysis N
F1. Equality (equal	6.04	1.483	209
opportunity for all)			
F2. Inner Harmony (at peace with myself)	6.22	1.163	209
F3. Social Power (control			
over others, dominance)	2.97	2.439	209
F4. Pleasure (gratification	5.46	1.490	200
of desires)	5.46	1.490	209
F9. An Exciting Life	5.87	1.396	209
(stimulating experiences)			
F12. Wealth (material possessions, money)	4.42	2.106	209
F17. A World at Peace			
(free of war and conflict)	5.66	1.621	209
F23. Social Recognition			
(respect, approval by	5.26	1.724	209
others)			
F24. Unity with Nature (fitting into nature)	4.57	2.150	209
F25. A Varied Life (filled			
with challenge, novelty,	5.33	1.650	209
and change)	0.00	1.000	200
F26. Wisdom (a mature	6.08	1.196	209
understanding of life)	0.08	1.190	209
F27. Authority (the right to	4.49	1.979	209
lead or command) F29. A World of Beauty			
(beauty of nature and the	5.26	1.690	209
arts)	0.20	1.000	200
F30. Social Justice			
(correcting injustice, care	5.43	1.533	209
for the weak)			
F35. Broad-minded (tolerant of different ideas	5.78	1.588	209
and beliefs)	5.76	1.566	209
F37. Daring (seeking	5 40	4 754	200
adventure, risk)	5.12	1.751	209
F38. Protecting the			
Environment (preserving	4.74	1.983	209
nature)			
F42. Healthy (not being sick physically or mentally)	6.22	1.150	209
Sick physically of mentally)	0.22	1.130	209
F46. Preserving my Public			
Image (protecting my	4.69	2.015	209
"face")			
F50. Enjoying life (enjoying food, sex,	6 00	1 2 4 4	200
leisure, etc.)	6.20	1.344	209

		F1. Equality (equal opportunity for all)	F2. Inner Harmony (at peace with myself)	F3. Social Power (control over others, dominance)	F4. Pleasure (gratification of desires)
Correlation	F1. Equality (equal opportunity for all)	1.000	.553	030	.288
	F2. Inner Harmony (at peace with myself)	.553	1.000	074	.323
	F3. Social Power (control over others, dominance)	030	074	1.000	.198
	F4. Pleasure (gratification of desires)	.288	.323	.198	1.000
	F9. An Exciting Life (stimulating experiences)	.309	.417	.123	.479
	F12. Wealth (material possessions, money)	.064	.030	.366	.366
	F17. A World at Peace (free of war and conflict)	.593	.411	018	.298
	F23. Social Recognition (respect, approval by others)	.231	.289	.097	.371
	F24. Unity with Nature (fitting into nature)	.130	.314	.039	.085
	F25. A Varied Life (filled with challenge, novelty, and change)	.268	.394	.117	.323
	F26. Wisdom (a mature understanding of life)	.380	.488	087	.284
	F27. Authority (the right to lead or command)	.208	.165	.466	.320
	F29. A World of Beauty (beauty of nature and the arts)	.311	.446	.159	.291
	F30. Social Justice (correcting injustice, care for the weak)	.380	.377	.010	.240
	F35. Broad-minded (tolerant of different ideas and beliefs)	.316	.399	072	.269
	F37. Daring (seeking adventure, risk)	.183	.325	.207	.261
	F38. Protecting the Environment (preserving nature)	.234	.372	.049	.187
	F42. Healthy (not being sick physically or mentally)	.449	.490	.040	.413
	F46. Preserving my Public Image (protecting my "face")	.145	.153	.201	.353
	F50. Enjoying life (enjoying food, sex, leisure, etc.)	.372	.461	.112	.489

		F9. An Exciting Life (stimulating experiences)	F12. Wealth (material possessions, money)	F17. A World at Peace (free of war and conflict)	F23. Social Recognition (respect, approval by others)
Correlation	F1. Equality (equal opportunity for all)	.309	.064	.593	.231
	F2. Inner Harmony (at peace with myself)	.417	.030	.411	.289
	F3. Social Power (control over others, dominance)	.123	.366	018	.097
	F4. Pleasure (gratification of desires)	.479	.366	.298	.371
	F9. An Exciting Life (stimulating experiences)	1.000	.319	.352	.411
	F12. Wealth (material possessions, money)	.319	1.000	.091	.342
	F17. A World at Peace (free of war and conflict)	.352	.091	1.000	.302
	F23. Social Recognition (respect, approval by others)	.411	.342	.302	1.000
	F24. Unity with Nature (fitting into nature)	.242	.019	.336	.336
	F25. A Varied Life (filled with challenge, novelty, and change)	.572	.139	.335	.479
	F26. Wisdom (a mature understanding of life)	.478	.090	.470	.409
	F27. Authority (the right to lead or command)	.357	.541	.277	.341
	F29. A World of Beauty (beauty of nature and the arts)	.381	.161	.374	.314
	F30. Social Justice (correcting injustice, care for the weak)	.271	.085	.540	.280
	F35. Broad-minded (tolerant of different ideas and beliefs)	.390	.182	.362	.304
	F37. Daring (seeking adventure, risk)	.466	.220	.206	.399
	F38. Protecting the Environment (preserving nature)	.299	.090	.433	.316
	F42. Healthy (not being sick physically or mentally)	.517	.191	.526	.367
	F46. Preserving my Public Image (protecting my "face")	.293	.404	.212	.394
	F50. Enjoying life (enjoying food, sex, leisure, etc.)	.534	.240	.362	.397

		F24. Unity with Nature (fitting into nature)	F25. A Varied Life (filled with challenge, novelty, and change)	F26. Wisdom (a mature understanding of life)	F27. Authority (the right to lead or command)
Correlation	F1. Equality (equal opportunity for all)	.130	.268	.380	.208
	F2. Inner Harmony (at peace with myself)	.314	.394	.488	.165
	F3. Social Power (control over others, dominance)	.039	.117	087	.466
	F4. Pleasure (gratification of desires)	.085	.323	.284	.320
	F9. An Exciting Life (stimulating experiences)	.242	.572	.478	.357
	F12. Wealth (material possessions, money)	.019	.139	.090	.541
	F17. A World at Peace (free of war and conflict)	.336	.335	.470	.277
	F23. Social Recognition (respect, approval by others)	.336	.479	.409	.341
	F24. Unity with Nature (fitting into nature)	1.000	.455	.341	.195
	F25. A Varied Life (filled with challenge, novelty, and change)	.455	1.000	.561	.360
	F26. Wisdom (a mature understanding of life)	.341	.561	1.000	.308
	F27. Authority (the right to lead or command)	.195	.360	.308	1.000
	F29. A World of Beauty (beauty of nature and the arts)	.522	.474	.406	.263
	F30. Social Justice (correcting injustice, care for the weak)	.439	.387	.421	.202
	F35. Broad-minded (tolerant of different ideas and beliefs)	.353	.414	.374	.125
	F37. Daring (seeking adventure, risk)	.302	.529	.383	.291
	F38. Protecting the Environment (preserving nature)	.706	.398	.349	.223
	F42. Healthy (not being sick physically or mentally)	.218	.408	.543	.268
	F46. Preserving my Public Image (protecting my "face")	.231	.315	.182	.327
	F50. Enjoying life (enjoying food, sex, leisure, etc.)	.246	.438	.397	.249

		F29. A World of Beauty (beauty of nature and the arts)	F30. Social Justice (correcting injustice, care for the weak)	F35. Broad-minded (tolerant of different ideas and beliefs)	F37. Daring (seeking adventure, risk)
Correlation	F1. Equality (equal opportunity for all)	.311	.380	.316	.183
	F2. Inner Harmony (at peace with myself)	.446	.377	.399	.325
	F3. Social Power (control over others, dominance)	.159	.010	072	.207
	F4. Pleasure (gratification of desires)	.291	.240	.269	.261
	F9. An Exciting Life (stimulating experiences)	.381	.271	.390	.466
	F12. Wealth (material possessions, money)	.161	.085	.182	.220
	F17. A World at Peace (free of war and conflict)	.374	.540	.362	.206
	F23. Social Recognition (respect, approval by others)	.314	.280	.304	.399
	F24. Unity with Nature (fitting into nature)	.522	.439	.353	.302
	F25. A Varied Life (filled with challenge, novelty, and change)	.474	.387	.414	.529
	F26. Wisdom (a mature understanding of life)	.406	.421	.374	.383
	F27. Authority (the right to lead or command)	.263	.202	.125	.291
	F29. A World of Beauty (beauty of nature and the arts)	1.000	.553	.430	.318
	F30. Social Justice (correcting injustice, care for the weak)	.553	1.000	.298	.181
	F35. Broad-minded (tolerant of different ideas and beliefs)	.430	.298	1.000	.385
	F37. Daring (seeking adventure, risk)	.318	.181	.385	1.000
	F38. Protecting the Environment (preserving nature)	.465	.405	.444	.427
	F42. Healthy (not being sick physically or mentally)	.382	.373	.398	.312
	F46. Preserving my Public Image (protecting my "face")	.364	.291	.220	.306
	F50. Enjoying life (enjoying food, sex, leisure, etc.)	.369	.257	.440	.437

		F38. Protecting the Environment (preserving nature)	F42. Healthy (not being sick physically or mentally)	F46. Preserving my Public Image (protecting my "face")	F50. Enjoying life (enjoying food, sex, leisure, etc.)
Correlation	F1. Equality (equal opportunity for all)	.234	.449	.145	.372
	F2. Inner Harmony (at peace with myself)	.372	.490	.153	.461
	F3. Social Power (control over others, dominance)	.049	.040	.201	.112
	F4. Pleasure (gratification of desires)	.187	.413	.353	.489
	F9. An Exciting Life (stimulating experiences)	.299	.517	.293	.534
	F12. Wealth (material possessions, money)	.090	.191	.404	.240
	F17. A World at Peace (free of war and conflict)	.433	.526	.212	.362
	F23. Social Recognition (respect, approval by others)	.316	.367	.394	.397
	F24. Unity with Nature (fitting into nature)	.706	.218	.231	.246
	F25. A Varied Life (filled with challenge, novelty, and change)	.398	.408	.315	.438
	F26. Wisdom (a mature understanding of life)	.349	.543	.182	.397
	F27. Authority (the right to lead or command)	.223	.268	.327	.249
	F29. A World of Beauty (beauty of nature and the arts)	.465	.382	.364	.369
	F30. Social Justice (correcting injustice, care for the weak)	.405	.373	.291	.257
	F35. Broad-minded (tolerant of different ideas and beliefs)	.444	.398	.220	.440
	F37. Daring (seeking adventure, risk)	.427	.312	.306	.437
	F38. Protecting the Environment (preserving nature)	1.000	.336	.378	.391
	F42. Healthy (not being sick physically or mentally)	.336	1.000	.273	.510
	F46. Preserving my Public Image (protecting my "face")	.378	.273	1.000	.389
	F50. Enjoying life (enjoying food, sex, leisure, etc.)	.391	.510	.389	1.000

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Adequacy.	.886	
Bartlett's Test of Sphericity	Approx. Chi-Square df Sig.	1858.955 190 .000

Communalities

	Initial	Extraction
F1. Equality (equal	1.000	
opportunity for all)	1.000	.681
F2. Inner Harmony (at peace with myself)	1.000	.583
F3. Social Power (control over others, dominance)	1.000	.578
F4. Pleasure (gratification of desires)	1.000	.534
F9. An Exciting Life (stimulating experiences)	1.000	.642
F12. Wealth (material possessions, money)	1.000	.643
F17. A World at Peace (free of war and conflict)	1.000	.696
F23. Social Recognition (respect, approval by others)	1.000	.454
F24. Unity with Nature (fitting into nature)	1.000	.787
F25. A Varied Life (filled with challenge, novelty, and change)	1.000	.616
F26. Wisdom (a mature understanding of life)	1.000	.552
F27. Authority (the right to lead or command)	1.000	.635
F29. A World of Beauty (beauty of nature and the arts)	1.000	.589
F30. Social Justice (correcting injustice, care for the weak)	1.000	.659
F35. Broad-minded (tolerant of different ideas and beliefs)	1.000	.471
F37. Daring (seeking adventure, risk)	1.000	.611
F38. Protecting the Environment (preserving nature)	1.000	.694
F42. Healthy (not being sick physically or mentally)	1.000	.612
F46. Preserving my Public Image (protecting my "face")	1.000	.441
F50. Enjoying life (enjoying food, sex, leisure, etc.)	1.000	.586

Extraction Method: Principal Component Analysis.

Total Variance Explained

	Initial Eigenvalues				
Component	Total	% of Variance	Cumulative %		
1	7.256	36.281	36.281		
2	2.127	10.635	46.916		
3	1.500	7.498	54.415		
4	1.183	5.913	60.328		
5	.929	4.643	64.970		
6	.819	4.096	69.067		
7	.720	3.598	72.665		
8	.660	3.298	75.963		
9	.595	2.975	78.938		
10	.568	2.842	81.780		
11	.529	2.643	84.423		
12	.482	2.411	86.834		
13	.438	2.192	89.026		
14	.421	2.104	91.130		
15	.387	1.936	93.066		
16	.334	1.669	94.735		
17	.295	1.474	96.209		
18	.289	1.447	97.656		
19	.261	1.303	98.959		
20	.208	1.041	100.000		

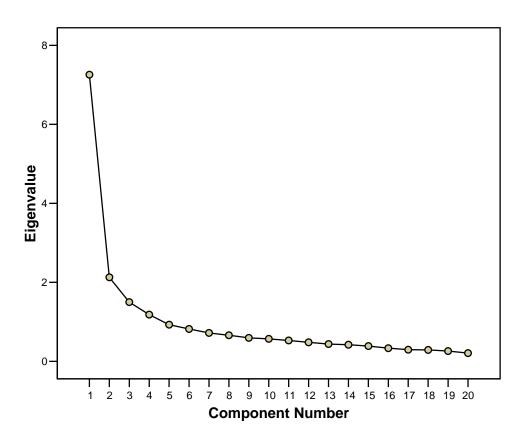
Extraction Method: Principal Component Analysis.

Total Variance Explained

	Extraction Sums of Squared Loadings			Rotation	n Sums of Square	d Loadings
Component	Total	% of Variance	Cumulative %	Total	% of Variance	Cumulative %
1	7.256	36.281	36.281	3.753	18.767	18.767
2	2.127	10.635	46.916	3.071	15.354	34.121
3	1.500	7.498	54.415	2.753	13.767	47.888
4	1.183	5.913	60.328	2.488	12.439	60.328
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

Extraction Method: Principal Component Analysis.

Scree Plot



Component Matrix^a

	Component			
	1	2	3	4
F25. A Varied Life (filled with challenge, novelty, and change)	.723	.008	.149	267
F9. An Exciting Life (stimulating experiences)	.703	.157	213	280
F42. Healthy (not being sick physically or mentally)	.696	099	342	.018
F50. Enjoying life (enjoying food, sex, leisure, etc.)	.693	.076	204	242
F26. Wisdom (a mature understanding of life)	.689	224	129	106
F29. A World of Beauty (beauty of nature and the arts)	.680	109	.281	.190
F2. Inner Harmony (at peace with myself)	.648	330	233	026
F17. A World at Peace (free of war and conflict)	.647	290	177	.403
F38. Protecting the Environment (preserving nature)	.643	188	.494	.016
F23. Social Recognition (respect, approval by others)	.620	.204	.045	163
F35. Broad-minded (tolerant of different ideas and beliefs)	.613	187	.042	241
F30. Social Justice (correcting injustice, care for the weak)	.602	274	.151	.446
F37. Daring (seeking adventure, risk)	.600	.170	.167	441
F4. Pleasure (gratification of desires)	.562	.308	351	013
F1. Equality (equal opportunity for all)	.552	283	441	.319
F46. Preserving my Public Image (protecting my "face")	.517	.362	.187	.089
F12. Wealth (material possessions, money)	.356	.702	073	.136
F3. Social Power (control over others, dominance)	.164	.674	.159	.268
F27. Authority (the right to lead or command)	.498	.551	.016	.288
F24. Unity with Nature (fitting into nature)	.561	244	.641	.051

Extraction Method: Principal Component Analysis.

a. 4 components extracted.

Rotated Component Matrix^a

	Component			
	1	2	3	4
F9. An Exciting Life (stimulating experiences)	.712	.275	.051	.239
F37. Daring (seeking adventure, risk)	.704	077	.281	.175
F50. Enjoying life (enjoying food, sex, leisure, etc.)	.668	.317	.084	.181
F25. A Varied Life (filled with challenge, novelty, and change)	.642	.152	.402	.138
F35. Broad-minded (tolerant of different ideas and beliefs)	.550	.242	.325	062
F23. Social Recognition (respect, approval by others)	.535	.134	.232	.311
F26. Wisdom (a mature understanding of life)	.524	.460	.256	026
F4. Pleasure (gratification of desires)	.461	.360	121	.422
F1. Equality (equal opportunity for all)	.166	.807	.033	.026
F17. A World at Peace (free of war and conflict)	.123	.759	.311	.094
F42. Healthy (not being sick physically or mentally)	.484	.598	.071	.121
F2. Inner Harmony (at peace with myself)	.444	.579	.197	106
F30. Social Justice (correcting injustice, care for the weak)	.010	.572	.562	.125
F24. Unity with Nature (fitting into nature)	.198	.063	.862	.012
F38. Protecting the Environment (preserving nature)	.307	.146	.757	.066
F29. A World of Beauty (beauty of nature and the arts)	.245	.343	.609	.202
F12. Wealth (material possessions, money)	.211	.026	074	.770
F3. Social Power (control over others, dominance)	051	121	.060	.747
F27. Authority (the right to lead or command)	.162	.190	.136	.744
F46. Preserving my Public Image (protecting my "face")	.275	.074	.302	.519

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 7 iterations.

Component Transformation Matrix

Component	1	2	3	4	
1	.648	.521	.459	.311	
2	.097	387	289	.870	
3	161	548	.819	.047	
4	738	.527	.186	.379	

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization.

Component Score Coefficient Matrix

	Component				
	1	2	3	4	
F1. Equality (equal opportunity for all)	115	.395	117	004	
F2. Inner Harmony (at peace with myself)	.084	.180	045	123	
F3. Social Power (control over others, dominance)	139	049	.048	.374	
F4. Pleasure (gratification of desires)	.110	.107	200	.135	
F9. An Exciting Life (stimulating experiences)	.267	025	137	002	
F12. Wealth (material possessions, money)	013	014	092	.344	
F17. A World at Peace (free of war and conflict)	188	.344	.047	.033	
F23. Social Recognition (respect, approval by others)	.161	082	.010	.060	
F24. Unity with Nature (fitting into nature)	062	127	.427	039	
F25. A Varied Life (filled with challenge, novelty, and change)	.215	123	.084	047	
F26. Wisdom (a mature understanding of life)	.131	.090	013	100	
F27. Authority (the right to lead or command)	111	.058	.011	.339	
F29. A World of Beauty (beauty of nature and the arts)	093	.051	.241	.054	
F30. Social Justice (correcting injustice, care for the weak)	253	.237	.228	.061	
F35. Broad-minded (tolerant of different ideas and beliefs)	.192	045	.049	126	
F37. Daring (seeking adventure, risk)	.319	245	.037	041	
F38. Protecting the Environment (preserving nature)	014	093	.339	029	
F42. Healthy (not being sick physically or mentally)	.083	.201	127	016	
F46. Preserving my Public Image (protecting my "face")	013	057	.099	.205	
F50. Enjoying life (enjoying food, sex, leisure, etc.)	.238	.003	116	023	

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. Component Scores.

Component Score Covariance Matrix

Component	1	2	3	4
1	1.000	.000	.000	.000
2	.000	1.000	.000	.000
3	.000	.000	1.000	.000
4	.000	.000	.000	1.000

Extraction Method: Principal Component Analysis. Rotation Method: Varimax with Kaiser Normalization. Component Scores.

	Factor Loadings				
	Open to	Harmony	Environment-	Worldly	Communality
	Experiences	•	alism	Power	•
	1	2	3	4	
F9—Exciting Life	.712	.275	.051	.239	.642
F37—Daring	.704	077	.281	.175	.611
F50—Enjoying Life	.668	.317	.084	.181	.586
F25—Varied Life	.642	.152	.402	.138	.616
F35—Broad Minded	.550	.242	.325	062	.471
F23—Social Recognition	.535	.134	.232	.311	.454
F26—Wisdom	.524	.460	.256	026	.552
F4—Pleasure	.461	.360	121	.422	.534
F1—Equality	.166	.807	.033	.026	.681
F17—World at Peace	.123	.759	.311	.094	.696
F42—Healthy	.484	.598	.071	.121	.612
F2—Inner Harmony	.444	.579	.197	106	.583
F30—Social Justice	.010	.572	.562	.125	.659
F24—Unity with Nature	.198	.063	.862	.012	.787
F38—Protecting the	.307	.146	.757	.066	.694
Environment					
F29—A World of Beauty	.245	.343	.609	.202	.589
F12—Wealth	.211	.026	074	.770	.643
F3—Social Power	051	121	.060	.747	.578
F27—Authority	.162	.190	.136	.744	.635
F46—Preserving Public	.275	.074	.302	.519	.441
Image					
Eigenvalue	3.753	3.071	2.753	2.488	[12.065]
Percent of Total Variance	18.767%	15.354%	13.767%	12.439%	[60.328%]
Percent of Common Variance	31.1%	25.5%	22.8%	20.6%	100%

KMO measure of sampling adequacy = .886

Bartlett's test of sphericity: approx. chi-square = 1858.995, df = 190, p<.001

Factor Analysis Writeup

The 20 value question responses were submitted to an exploratory factor analysis, with principal components factoring, orthogonal rotation and an extraction cutoff of eigenvalue=1.0 (i.e., latent root criterion). This resulted in four factors with eigenvalues ranging from 3.753 (18.767% of total variance) to 2.488 (12.439% of total variance). The full four-factor solution explained 60% of the total variance. The measure of sampling adequacy (MSA) was .886 (i.e., "meritorious" according to Hair et al.) and the Bartlett's test of sphericity resulted in a highly significant chi-square (1858.995, p<.001), indicating the appropriateness of this set of 20 items for factor analysis. Communalities ranged from a low of .441 to a high of .787, indicating a reasonable amount of shared variance for all items.

The four factors were given labels based on those items loading highly and cleanly on each factor. Factor 1 was titled "Open to Experiences" due to high loadings for responses on items measuring value constructs related to "Enjoyment of Life" and "Broad-mindedness," notably concepts such as "excitement and daring." Factor 2 was titled "Harmony" because of high loadings for items "World at Peace" and "Equality." Factor 3 was titled "Environmentalism" due to high loadings for items "Unity with Nature" and "World of Beauty." Factor 4 was titled "Worldly Power" because of high loadings for such items as "Wealth" and "Social Power."

Items such as "Wisdom," "Pleasure," "Healthy," "Inner Harmony," and "Social Justice," did not load very cleanly, and have relatively similar loadings from one factor to the next. For instance, under the Factors "Open to New Experiences" and "Harmony," the item "Wisdom" earned a .524 and .460 respectively.

While these specific results make a construct of four separate values somewhat more ambiguous, the output still seems to support a four-factor structure of separate values.