



## Findings on Happiness & NATION'S CONDITION

Correlate Code: N 4

<b>Classification of Findings</b>		<b>Number of Studies on this Subject</b>
Correlate Code	Correlate Name	
N 4	NATION'S CONDITION	0
N 4.1	Demographic condition	1
N 4.1.1	Population density	0
N 4.1.2	Population growth	0
N 4.1.3	Population composition	0
N 4.2	Geographic condition of the nation	0
N 4.2.1	Size of the nation	0
N 4.2.2	Habitability of land	1
N 4.2.3	Climate	0
N 4.2.4	Urbanization	0
N 4.3	Economic condition of the nation	1
N 4.3.1	Economic affluence	1
N 4.3.1.1	. GNP per capita (raw)	3
N 4.3.1.2	. purchasing power ('real' GNP pc)	1
N 4.3.2	Economic growth/decline	0
N 4.3.3	Inflation	2
N 4.3.4	Unemployment	1
N 4.4	Standard of living in the nation	0
N 4.4.1	Purchasing power of average citizen	0
N 4.4.2	Quality\quantity of facilities in nation	0
N 4.4.2.1	. housing	0
N 4.4.2.2	. health care	0
N 4.4.2.3	. schools	0
N 4.4.3	Prevalence of below-standard living in nation	0
N 4.4.3.1	. homelessness	0
N 4.4.3.2	. malnutrition	1
N 4.4.3.3	. poverty	1
N 4.5	Socio-economic regime in the nation	0
N 4.5.1	State welfare effort	0
N 4.5.1.1	. public education	0
N 4.5.1.2	. public health	2
N 4.5.1.3	. public housing	0
N 4.5.1.4	. social security	2
N 4.5.2	State control of economy	0
N 4.6	Political conditions in the nation	0
N 4.6.1	Political freedom	3
N 4.6.1.1	. freedom of press	2
N 4.6.2	Political democracy	1

N 4.6.2.1	. interest democracy (interest-groups)	3
N 4.6.2.2	. parliamentary democracy	2
N 4.6.3	Political participation	1
N 4.6.3.1	. political protest	1
N 4.6.3.2	. political violence	2
N 4.6.4	Civil war	6
N 4.6.5	Political role of armed forces	0
N 4.6.5.1	. defense-spending	1
N 4.7	Socio-cultural conditions the nation	1
N 4.7.1	Literacy and schooling	1
N 4.7.2	Mass media attendance	0
N 4.7.3	Religiousness	0
N 4.7.4	Cultural pluralism	1
N 4.8	Social equality in the nation	0
N 4.8.1	Gender inequality (women emancipation)	2
N 4.8.2	Income inequality	4
N 4.8.3	Presence of minority groups	0
N 4.8.4	Status differentiation (stratification)	0
N 4.8.5	Inequality in (apparent) quality of life	0
N 4.8.5.1	. inequality in happiness	0
N 4.8.5.2	. inequality in health	0
N 4.9	Justice in the nation	0
N 4.9.1	Crime	0
N 4.9.2	Human-rights protection	0
N 4.10	Value climate in the nation	0
N 4.10.1	Prevalence of materialistic values	0
N 4.10.2	Prevalence of hedonistic values	0
N 4.10.3	Prevalence of individualistic values	0
N 4.11	Pattern of intimacy in nation	0
N 4.11.1	Friendship density	1
N 4.11.2	Marriage pattern	0
N 4.11.2.1	. divorce rate	0
N 4.11.2.2	. % living alone	0
N 4.12	Overall development (modernity) of nation	2
N 4.13	Summed nation characteristics	1
N 4.3.5	Working hours	0

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Appendix 1: Happiness queries used  
 Appendix 2: Statistics used  
 Appendix 3: About the World Database of Happiness  
 Appendix 4: Further Findings in the World Database of Happiness  
 Appendix 5: Related Topics

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 World Database of Happiness. Internet: [www.eur.nl/fsw/research/happiness](http://www.eur.nl/fsw/research/happiness)  
 Erasmus University Rotterdam, 2003, Netherlands

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Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

## Measured Correlate

Class: Demographic condition Code: N 4.1

Measurement: Index of:  
 - population size  
 - birth rate  
 - death rate  
 - rate of population increase  
 - % of population under 15 years

Source: Estes, R. J. -The social progress of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Happiness	Demographic score
O-H*/sq/vt/11/a	r=-.55 p<.01				
			Austral ia	7. 75	18
			Austri a	6. 68	20
			Bel gi um	7. 57	20
			Brazi l	7. 22	6
			Canada	7. 76	18
			Denmark	7. 67	20
			Fi nl and	7. 35	20
			France	7. 24	19
			Germany	6. 98	20
			Greece	5. 61	18
			Great Bri tai n	7. 74	16
			I tal y	6. 47	19
			Indi a	5. 16	-9
			I rel and	7. 82	16
			Japan	6. 94	17
			Mexi co	6. 31	5

	Mt'	Li fe Sati sfacti on	Demographi c score
O-SL*/sq/nt/11/a	r=-.74	p<.001	
Netherl ands	7. 63	19	
Norway	7. 45	20	
Phi l i ppi nes	6. 47	5	
Portugal	6. 20	17	
Si ngapore	7. 24	16	
S. Afri ca	7. 03	7	
S. Korea	6. 21	11	
Spai n	6. 84	17	
Sweden	7. 62	21	
Swi tzerl and	6. 99	22	
Uni ted States	7. 55	12	
Austral ia	7. 67	18	
Austri a	7. 10	20	
Bel gi um	7. 07	20	
Brazi l	7. 03	6	
Canada	7. 60	18	
Denmark	7. 92	20	
Fi nl and	7. 68	19	
France	6. 29	19	
Germany	6. 94	20	
Greece	5. 70	19	
Great Bri tai n	7. 41	16	
I tal y	6. 24	19	
I ndi a	3. 35	-9	
I rel and	7. 58	16	
Japan	6. 20	17	
Mexi co	4. 32	5	
Netherl ands	7. 46	19	
Norway	7. 67	20	
Phi l i ppi nes	6. 60	5	
Portugal	6. 74	17	
Si ngapore	7. 12	16	
S. Afri ca	6. 43	7	
S. Korea	5. 50	11	
Spai n	6. 22	17	
Sweden	7. 80	21	
Swi tzerl and	8. 60	22	
Uni ted States	6. 94	12	

Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

## Measured Correlate

Class: Habitability of land Code: N 4.2.2

Measurement: Index of:  
 - % arable land mass  
 - number of natural disasters - lives lost in natural disasters  
 per million population

Source: Estes, R. J. -The social progress of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mean Happiness	Geographic score
O-H*/sq/vt/11/a	r=-.01 ns			
		Australia	7.75	14
		Austria	6.68	12
		Belgium	7.57	13
		Brazil	7.22	6
		Canada	7.76	5
		Denmark	7.67	16
		Finland	7.35	5
		France	7.24	14
		Germany	6.98	13
		Greece	5.61	12
		Great Britain	7.74	15
		Italy	6.47	15
		India	5.16	6
		Ireland	7.82	16
		Japan	6.94	1
		Mexico	6.31	11
		Netherlands	7.63	13
		Norway	7.45	6
		Philippines	6.47	7

O-SL*/sq/nt/11/a	r=+.10	ns	Mt'	Life Satisfaction	Geographic score
Portugal	6. 20			13	
Singapore	7. 24			9	
S. Africa	7. 03			18	
S. Korea	6. 21			1	
Spain	6. 84			15	
Sweden	7. 62			6	
Switzerland	6. 99			14	
United States	7. 55			-21	
Australia	7. 67			14	
Austria	7. 10			12	
Belgium	7. 07			13	
Brazil	7. 03			6	
Canada	7. 60			5	
Denmark	7. 92			16	
Finland	7. 68			5	
France	6. 29			14	
Germany	6. 94			13	
Greece	5. 70			12	
Great Britain	7. 41			15	
Italy	6. 24			15	
India	3. 35			6	
Ireland	7. 58			16	
Japan	6. 20			1	
Mexico	4. 32			11	
Netherlands	7. 46			13	
Norway	7. 67			6	
Philippines	6. 60			7	
Portugal	6. 74			13	
Singapore	7. 12			9	
S. Africa	6. 43			18	
S. Korea	5. 50			1	
Spain	6. 22			15	
Sweden	7. 80			19	
Switzerland	8. 60			14	
United States	6. 94			-21	

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Study	OUWEN 1994	Page in Report:
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Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

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### Measured Correlate

Class: Economic condition of the nation Code: N 4.3

Measurement: Index of:  
- per capita economic growth - per capita estimated income (\$) -  
average annual rate of inflation - per capita food production  
index (1970=100)

Source: Estes, R. J. -The social progress  
of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

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### Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Happiness	Economy score
O-H*/sq/vt/11/a	r=+.58 p<.001				
		Austral ia	7. 75	16	
		Austri a	6. 68	15	
		Bel gi um	7. 57	16	
		Brazi l	7. 22	15	
		Canada	7. 76	16	
		Denmark	7. 67	15	
		Fi nl and	7. 35	13	
		France	7. 24	15	
		Germany	6. 98	14	
		Greece	5. 61	12	
		Great Bri tai n	7. 74	10	
		I tal y	6. 47	9	
		I ndi a	5. 16	6	
		I rel and	7. 82	11	
		Japan	6. 94	14	
		Mexi co	6. 31	8	
		Netherl ands	7. 63	15	
		Norway	7. 45	18	
		Phi l i ppi nes	6. 47	12	

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O-SL*/sq/nt/11/a	r=+.61	p<.001	Mean	Life Satisfaction	Economy score
Portugal			6. 20	11	
Singapore			7. 24	13	
S. Africa			7. 03	9	
S. Korea			6. 21	16	
Spain			6. 84	13	
Sweden			7. 62	16	
Switzerland			6. 99	14	
United States			7. 55	18	
Australia			7. 67	16	
Austria			7. 10	15	
Belgium			7. 07	16	
Brazil			7. 03	15	
Canada			7. 60	16	
Denmark			7. 92	15	
Finland			7. 68	13	
France			6. 29	15	
Germany			6. 94	14	
Greece			5. 70	12	
Great Britain			7. 41	10	
Italy			6. 24	9	
India			3. 35	6	
Ireland			7. 58	11	
Japan			6. 20	14	
Mexico			4. 32	8	
Netherlands			7. 46	15	
Norway			7. 67	18	
Philippines			6. 60	12	
Portugal			6. 74	11	
Singapore			7. 12	13	
S. Africa			6. 43	9	
S. Korea			5. 50	16	
Spain			6. 22	13	
Sweden			7. 80	16	
Switzerland			8. 60	14	
United States			6. 94	18	

<b>Study</b>	<b>MATLI 1966/1</b>	<i>Page in Report:</i>	5
<i>Reported in:</i>	Matlin, N. The demography of happiness University of Puerto Rico, School of Medicine, Department of Public Health, 1966, San Juan.		
<i>Population:</i>	20+ aged, general public, Puerto Rico, 1963-64		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	1417 (excluding validation sample)		

### Measured Correlate

<i>Class:</i>	Economic affluence Code: N 4.3.1
<i>Measurement:</i>	Inhabitants of Puerto Rico vs inhabitants of highest income areas in the USA.
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

### Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HL/c/sq/v/3/af	G=+.44 p<.01	Analysis on the basis of a comparison with data from Bradburn & Caplovitz (BRADB 1965)

Study	VEENH 1984/1	Page in Report:	149
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

## Measured Correlate

*Class:* . GNP per capita (raw) Code: N 4.3.1.1

*Measurement:* GNP data from the World Bank Atlas, 1977.

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	\$ GNP per capi ta
O-BW/c/sq/m/11/a	r=+.84 p<.01		Austral ia	7. 0	5700
			North Ameri ca	6. 7	7102
			Western Europe	6. 3	4731
			Latin Ameri ca	6. 0	1048
			Afri ca (South of the Sahara)	4. 6	435
			Asi a (exc. Japan)	3. 8	219
			Japan	5. 8	4450

Study	VEENH 1984/2	Page in Report:	149
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, world population, 14 nations and regions, 1974-76		
Sample:			
Non-Response:			
N:	6563		

## Measured Correlate

Class: . GNP per capita (raw) Code: N 4.3.1.1

Measurement: GNP data from the World bank Atlas, 1977.

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	\$ GNP per capi ta
O-BW/c/sq/m/11/a	r=+.74 p<.001		Austral ia	7. 0	5700
			USA	6. 7	7120
			Canada	7. 0	6930
			Great Bri tai n	6. 8	3780
			France	5. 8	5950
			W-Germany	6. 6	6670
			It al y	5. 6	2810
			Benel ux	6. 0	5968
			Scandi navi a	7. 6	7003
			Brasi l	6. 2	1030
			Mexi co	6. 2	1050
			Afri ca (South of the Sahara)	4. 6	435
			Indi a	3. 4	140
			Japan	5. 8	4450

Study	VEENH 1984/3	Page in Report:	150
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
Sample:			
Non-Response:			
N:	12996		

## Measured Correlate

Class: . GNP per capita (raw) Code: N 4.3.1.1

Measurement: GNP data from the World Bank Atlas.

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks				
O-H*/sq/vt/3/a	r=+.66 p<.05		Mean happiness	GNP per capita		
			Great Britain	1. 95	3780	
			France	1. 89	5450	
			W-Germany	1. 89	6670	
			Italy	1. 61	2810	
			Belgium	2. 27	6270	
			The Netherlands	2. 22	5750	
			Luxembourg	2. 03	6020	
			Denmark	2. 54	6810	
			Ireland	1. 88	2390	
O-SL*/sq/vt/3/a	r=+.15 ns		Mean satisfaction	GNP per capita		
			Great Britain	7. 5	3780	
			France	6. 7	5450	
			W-Germany	7. 0	6670	
			Italy	6. 3	2810	
			Belgium	7. 8	6270	
			The Netherlands	7. 5	5750	
			Luxembourg	7. 7	6020	
			Denmark	8. 3	6810	
			Ireland	8. 2	2390	

Study	VEENH 1998	Page in Report:	630
<i>Reported in:</i>	Veenhoven, R. & Timmermans, D. Welvaart en geluk (Prosperity and happiness; in Dutch) Economisch-Statistische Berichten, 1998, vol. 83, pp 628-631.		
<i>Population:</i>	18+ aged, general public, 45 nations, 1990		
<i>Sample:</i>	Probability multi-stage cluster sample		
<i>Non-Response:</i>			
<i>N:</i>	45		

### Measured Correlate

*Class:* . purchasing power ('real' GNP pc) Code: N 4.3.1.2

*Measurement:* Purchasing power per head in nation  
Data Human Development Report 1992

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks
O-HL/u/sq/v/4/a	r=+.66	<p>Nations</p> <p>19 West Europe</p> <p>10 East Europe (former communist)</p> <p>2 Anglo-America (Canada, USA)</p> <p>4 Latin-America (Argentina, Brazil, Chile, Mexico)</p> <p>2 Middle East (Turkey, Israel)</p> <p>2 Africa (Nigeria, South-Africa)</p> <p>5 Asia (China, India, Japan, Philippines, S Korea)</p> <p>1 Australia (Australia)</p>
		Relationship: L-shaped, concave.

Study	VEENH 1984/2	Page in Report:	154
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

### Measured Correlate

<i>Class:</i>	Inflation Code: N 4.3.3
<i>Measurement:</i>	Rate of inflation per country over 5 years (1970-1975). Data drawn from Kuriian (1979: 89).
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks				
O-BW/c/sq/m/11/a	r=-.08 ns		of	Mt	happi ness	Rate
			i n f l a t i o n			
			Austral i a	7. 0		185
			USA	6. 7		147
			Canada	7. 0		153
			Great Bri tai n	6. 8		215
			France	5. 8		168
			W-Germany	6. 6		141
			Ital y	5. 6		200
			Benel ux	6. 0		164
			Scandi navi a	7. 6		173
			Brasi l	6. 2		254
			Mexi co	6. 2		204
			Afri ca (South of the Sahara)	4. 6		217
			Indi a	3. 4		161
			Japan	5. 8		188

Study	VEENH 1984/3	Page in Report:	154
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

### Measured Correlate

<i>Class:</i>	Inflation Code: N 4.3.3
<i>Measurement:</i>	Rate of inflation per country over 5 years (1970-1975). Data drawn from Kuri an (1979: 89).
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks			
O-H*/sqvt/3/a	r=+.10 ns				
		Great Britain	1. 95		215
		France	1. 89		168
		W-Germany	1. 89		141
		Italy	1. 61		200
		Belgium	2. 27		163
		The Netherlands	2. 22		165
		Luxembourg	2. 03		156
		Denmark	2. 54		170
		Ireland	1. 88		220

Study	VEENH 1984/3	Page in Report:	156
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

## Measured Correlate

*Class:* Unemployment Code: N 4.3.4

*Measurement:* Percentage of people per country who are unemployed.

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happiness	%	Unemployed
O-H*/sq/vt/3/a	r=+.17 ns	Great Britain	1. 95		3. 8	
		France	1. 89		3. 9	
		W-Germany	1. 89		4. 2	
		Italy	1. 61		5. 3	
		Belgium	2. 27		5. 3	
		The Netherlands	2. 22		4. 0	
		Luxembourg	2. 03		0. 2	
		Denmark	2. 54		4. 6	
		Ireland	1. 88		8. 7	

Study	VEENH 1984/1	Page in Report:	150
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

## Measured Correlate

*Class:* . malnutrition Code: N 4.4.3.2

*Measurement:* Frequency of mal nutrition per country. Average sufficiency of food consumption in calories per day based on estimates about what is biologically required in the climatic conditions in the various nations.  
Data derived from Kuri an (1979: 307)

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt happiness	Mal nutrition in calories
O-BW/c/sq/m/11/a	r=-.64 p<.01			
			Australia	7.0
			North America	6.7
			Western Europe	6.3
			Latin America	6.0
			Africa (South of the Sahara)	4.6
			Asia (exc. Japan)	3.8
			Japan	5.8

Study	VEENH 1984/1	Page in Report:	150
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

### Measured Correlate

*Class:* . poverty Code: N 4.4.3.3

*Measurement:* Percentage of people per country living in absolute (extreme) poverty.  
Data derived from Kuran (1979: 87)

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks																																
O-BW/c/sq/m/11/a	r=-.81 p<.01	<p>Extreme poverty</p> <table> <thead> <tr> <th></th> <th>Mt</th> <th>happiness</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Australia</td> <td>7.0</td> <td></td> <td>0</td> </tr> <tr> <td>North America</td> <td>6.7</td> <td></td> <td>0</td> </tr> <tr> <td>Western Europe</td> <td>6.3</td> <td></td> <td>0</td> </tr> <tr> <td>Latin America</td> <td>6.0</td> <td>± 10</td> <td></td> </tr> <tr> <td>Africa (South of the Sahara)</td> <td>4.6</td> <td>± 40</td> <td></td> </tr> <tr> <td>Asia (exc. Japan)</td> <td>3.8</td> <td>± 35</td> <td></td> </tr> <tr> <td>Japan</td> <td>5.8</td> <td>0</td> <td></td> </tr> </tbody> </table> <p>Happiness is higher in countries where no extreme poverty exists.</p>		Mt	happiness	%	Australia	7.0		0	North America	6.7		0	Western Europe	6.3		0	Latin America	6.0	± 10		Africa (South of the Sahara)	4.6	± 40		Asia (exc. Japan)	3.8	± 35		Japan	5.8	0	
	Mt	happiness	%																															
Australia	7.0		0																															
North America	6.7		0																															
Western Europe	6.3		0																															
Latin America	6.0	± 10																																
Africa (South of the Sahara)	4.6	± 40																																
Asia (exc. Japan)	3.8	± 35																																
Japan	5.8	0																																

Study	VEENH 1984/1	Page in Report:	155
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

### Measured Correlate

<i>Class:</i>	. public health Code: N 4.5.1.2
<i>Measurement:</i>	Health expenditure per capita. Data derived from Kuriian (1979: 90/91).
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks				
O-BW/c/sq/m/11/a	r=+.83 p<.05		Expenditure per capita	Mt	happiness	\$
			Australia	7.0	293.0	
			North America	6.7	237.0	
			Western Europe	6.3	257.0	
			Latin America	6.0	11.0	
			Africa (South of the Sahara)	4.6	3.0	
			Asia (exc. Japan)	3.8	1.5	
			Japan	5.8	173.0	

Study	VEENH 1984/2	Page in Report:	155
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

### Measured Correlate

<i>Class:</i>	. public health	Code: N 4.5.1.2
<i>Measurement:</i>	Data drawn from Kuri an (1979: 90/91).	
<i>Measured Values:</i>		
<i>Error Estimates:</i>		
<i>Remarks:</i>		

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	\$	Expendi ture per capi ta
O-BW/c/sq/m/11/a	r=+.69 p<.001					
			Austral ia	7. 0		293. 0
			USA	6. 7		218. 0
			Canada	7. 0		413. 0
			Great Bri tai n	6. 8		193. 0
			France	5. 8		340. 0
			W-Germany	6. 6		424. 0
			I tal y	5. 6		137. 0
			Benel ux	6. 0		321. 0
			Scandi navi a	7. 6		464. 0
			Brasi l	6. 2		9. 0
			Mexi co	6. 2		8. 0
			Afri ca (South of the Sahara)	4. 6		3. 0
			Indi a	3. 4		1. 0
			Japan	5. 8		173. 0

Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

## Measured Correlate

Class: . social security Code: N 4.5.1.4

Measurement: Index of:  
 - years since first law on old age,  
 invalidity, and death  
 - years since first law on sickness and  
 maternity  
 - years since first law on work injury  
 - years since first law on unemployment  
 - years since first law on family  
 allowances

Source: Estes, R. J. -The social progress  
 of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Happiness	Welfare score
O-H*/sq/vt/11/a	r=+.53 p<.01				
		Australia	7.75	22	
		Austria	6.68	28	
		Belgium	7.57	25	
		Brazil	7.22	16	
		Canada	7.76	16	
		Denmark	7.67	28	
		Finland	7.35	18	
		France	7.24	26	
		Germany	6.98	29	
		Greece	5.61	16	
		Great Britain	7.74	25	
		Italy	6.47	26	
		India	5.16	6	
		Ireland	7.82	25	

	Mt'	Li fe Satisfacti on	Wel fare I level
Japan	6. 94	12	
Mexi co	6. 31	5	
Netherl ands	7. 63	25	
Norway	7. 45	24	
Phi l i ppi nes	6. 47	4	
Portugal	6. 20	13	
Si ngapore	7. 24	4	
S. Afri ca	7. 03	18	
S. Korea	6. 21	0	
Spai n	6. 84	21	
Sweden	7. 62	23	
Swi tzerl and	6. 99	19	
Uni ted States	7. 55	13	
O-SL*/sq/nt/11/a	r=+.55	p<.01	
Austral i a	7. 67	22	
Austri a	7. 10	28	
Bel gi um	7. 07	25	
Brazi l	7. 03	16	
Canada	7. 60	16	
Denmark	7. 92	28	
Fi nl and	7. 68	18	
France	6. 29	26	
Germany	6. 94	29	
Greece	5. 70	16	
Great Bri tai n	7. 41	25	
I tal y	6. 24	26	
I ndi a	3. 35	6	
I rel and	7. 58	25	
Japan	6. 20	12	
Mexi co	4. 32	5	
Netherl ands	7. 46	25	
Norway	7. 67	24	
Phi l i ppi nes	6. 60	4	
Portugal	6. 74	13	
Si ngapore	7. 12	4	
S. Afri ca	6. 43	18	
S. Korea	5. 50	0	
Spai n	6. 22	21	
Sweden	7. 80	23	
Swi tzerl and	8. 60	19	
Uni ted States	6. 94	13	

Study	VEENH 1984/3	Page in Report:	156
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

### Measured Correlate

<i>Class:</i>	. social security Code: N 4.5.1.4
<i>Measurement:</i>	Expenditures on social security as a percentage of a country's BNP.
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happi ness	%
O-H*/sqvt/3/a	r=-.33 ns	Soci al securi ty			
		Great Bri tain	1. 95		14. 6
		France	1. 89		21. 6
		W-Germany	1. 89		20. 3
		I tal y	1. 61		21. 4
		Bel gi um	2. 27		20. 9
		The Netherl ands	2. 22		24. 8
		Luxembourg	2. 03		17. 2
		Denmark	2. 54		21. 0
		I rel and	1. 88		15. 8

Study	VEENH 1984/1	Page in Report:	161
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
Sample:			
Non-Response:			
N:	8433		

## Measured Correlate

Class: Political freedom Code: N 4.6.1

Measurement: Degree of government coercion rated on the basis of the following criteria:

1. the extent to which civil rights are violated;
2. the extent to which political opposition is oppressed;
3. how undemocratic the policy is.

Data drawn from Feierabend & Feierabend (1972: 160) and Bertrand (1981: 195).

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt happiness	Rate of coercion
O-BW/c/sq/m/11/a	r=-.76 p<.05			
		Australia	7.0	1.0
		North America	6.7	1.0
		Western Europe	6.3	2.3
		Latin America	6.0	3.3
		Africa (South of the Sahara)	4.6	5.5
		Asia (exc. Japan)	3.8	3.3
		Japan	5.8	3.0

Study	VEENH 1984/2	Page in Report:	161
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

## Measured Correlate

*Class:* Political freedom Code: N 4.6.1

*Measurement:* Degree of government coercion rated on the basis of the following criteria:

1. the extent to which civil rights are violated;
2. the extent to which political opposition is oppressed;
3. how undemocratic the policy is.

Data drawn from Feierabend & Feierabend (1972: 160) and Bertrand (1981: 195).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	Rate	of coercion
O-BW/c/sq/m/11/a	r=-.67 p<.005		Austral ia	7. 0	1. 0	
			USA	6. 7	1. 0	
			Canada	7. 0	1. 0	
			Great Bri tain	6. 8	1. 0	
			France	5. 8	3. 0	
			W-Germany	6. 6	2. 0	
			It al y	5. 6	2. 0	
			Benel ux	6. 0	1. 0	
			Scandi navi a	7. 6	1. 0	
			Brasi l	6. 2	3. 0	
			Mexi co	6. 2	2. 0	
			Afri ca (South of the Sahara)	4. 6	5. 5	
			Indi a	3. 4	3. 0	
			Japan	5. 8	3. 0	

Study	VEENH 1984/3	Page in Report:	160
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
Sample:			
Non-Response:			
N:	12996		

## Measured Correlate

Class: Political freedom Code: N 4.6.1

Measurement: Degree of government coercion rated on the basis of the following criteria:

1. the extent to which civil rights are violated;
2. the extent to which political opposition is oppressed;
3. how undemocratic the policy is.

Data drawn from Feierabend & Feierabend (1972: 160) and Bertrand (1981: 195).

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happi ness	Rate of govern- ment coerci on
O-H*/sq/vt/3/a	r=-.65 p<.05				
		Great Britain	1. 95		1. 0
		France	1. 89		3. 0
		W-Germany	1. 89		2. 0
		Italy	1. 61		2. 0
		Belgium	2. 27		2. 0
		The Netherlands	2. 22		1. 0
		Luxembourg	2. 03		2. 0
		Denmark	2. 54		1. 0
		Ireland	1. 88		1. 0

Study	VEENH 1984/2	Page in Report:	162
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, world population, 14 nations and regions, 1974-76		
Sample:			
Non-Response:			
N:	6563		

## Measured Correlate

Class: . freedom of press Code: N 4.6.1.1

Measurement: Press freedom rated on the basis of 'the press freedom index' (Missouri School of Journalism) consisting of 23 items rated on a scale from -4 to 4.  
Examples of items are:  
1. legal controls;  
2. favoritism in the release of government news;  
3. censorship.  
Data drawn from Kuran (1979: 362).

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	Rate of	of press
O-BW/c/sq/m/11/a	r=+.65 p<.005	freedom				
		Australia		7.0		2.53
		USA		6.7		2.72
		Canada		7.0		2.78
		Great Britain		6.8		2.37
		France		5.8		1.92
		W-Germany		6.6		2.43
		Italy		5.6		1.98
		Benelux		6.0		2.82
		Scandinavia		7.6		2.81
		Brasil		6.2		1.25
		Mexico		6.2		1.46
		Africa (South of the Sahara)		4.6		0.49
		India		3.4		0.98
		Japan		5.8		2.44

Study	VEENH 1984/3	Page in Report:	162
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
Sample:			
Non-Response:			
N:	12996		

## Measured Correlate

Class: . freedom of press Code: N 4.6.1.1

Measurement: Press freedom rated on the basis of 'the press freedom index' (Missouri School of Journalism) consisting of 23 items rated on a scale from -4 to 4. Examples of items are:  
 1. legal controls;  
 2. favoritism in the release of government news;  
 3. censorship.  
 Data drawn from Kuran (1979: 362).

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happi ness	Rate of freedom of press
O-H*/sq/vt/3/a	r=+.63 p<.05				
		Great Britain	1. 95		2. 37
		France	1. 89		1. 92
		W-Germany	1. 89		2. 43
		Italy	1. 61		1. 98
		Belgium	2. 27		2. 53
		The Netherlands	2. 22		3. 02
		Luxembourg	2. 03		no data
		Denmark	2. 54		2. 65
		Ireland	1. 88		2. 37

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Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

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## Measured Correlate

Class: Political democracy16 Code: N 4.6.2

Measurement: Index of:  
 - years since independence  
 - years since most recent constitution - presence of functioning  
 parliamentary system  
 - presence of functioning political party system  
 - degree of influence of military - the number of elections held

Source: Estes, R. J. -The social progress of nations (1984,  
 N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

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## Observed Relation with Happiness

Happiness Query	Statistics	Remarks
O-H*/sq/vt/11/a	r=+.46 p<.01	Mt' Happiness
		Political participation
		Australia 7.75 18
		Austria 6.68 16
		Belgium 7.57 21
		Brazil 7.22 12
		Canada 7.76 27
		Denmark 7.67 18
		Finland 7.35 14
		France 7.24 16
		Germany 6.98 16
		Greece 5.61 15
		Great Britain 7.74 32
		Italy 6.47 16
		India 5.16 17
		Ireland 7.82 15
		Japan 6.94 16

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Mexico	6. 31	13
Netherlands	7. 63	23
Norway	7. 45	20
Philippines	6. 47	5
Portugal	6. 20	10
Singapore	7. 24	10
S. Africa	7. 03	14
S. Korea	6. 21	12
Spain	6. 84	18
Sweden	7. 62	15
Switzerland	6. 99	22
United States	7. 55	23

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<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

## Measured Correlate

*Class:* . interest democracy (interest-groups) Code: N 4.6.2.1

*Measurement:* Degree to which the political system leaves room for non-parliamentary articulation of interest; rated on the basis of the following indicators:  
 1. influence of 'organized' interest groups;  
 2. limitedness of the role of 'institutional interest groups';  
 3. limitedness of the role of 'ascriptive interest groups';  
 4. limitedness of the role of 'irregular interest groups'.  
 Data drawn from Bertrand (1981: 162).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt happiness	Rate of interest democracy
O-BW/c/sq/m/11/a	r=+.90 p<.01			
			Australia	7.0
			North America	6.7
			Western Europe	6.3
			Latin America	6.0
			Africa (South of the Sahara)	4.6
			Asia (exc. Japan)	3.8
			Japan	5.8

Study	VEENH 1984/2	Page in Report:	164
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, world population, 14 nations and regions, 1974-76		
Sample:			
Non-Response:			
N:	6563		

## Measured Correlate

Class: . interest democracy (interest-groups) Code: N 4.6.2.1

Measurement: Degree to which the political system leaves room for non-parliamentary articulation of interest; based on the following indicators:  
 1. influence of 'organized' interest groups;  
 2. limitedness of the role of 'institutional interest groups';  
 3. limitedness of the role of 'ascriptive interest groups';  
 4. limitedness of the role of 'irregular interest groups'.  
 Data drawn from Bertrand (1981: 162).

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happiness	Rate of	
O-BW/c/sq/m/11/a	r=+.80 p<.001	interest				democracy
		Australia		7.0		12
		USA		6.7		10
		Canada		7.0		9
		Great Britain		6.8		11
		France		5.8		9
		W-Germany		6.6		10
		Italy		5.6		8
		Belgium		6.0		10
		Scandinavia		7.6		12
		Brazil		6.2		5
		Mexico		6.2		5
		Africa (South of the Sahara)		4.6		2
		India		3.4		3
		Japan		5.8		6



Study	VEENH 1984/3	Page in Report:	164
Reported in:	Veenhoven, R.		
	Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2)		
	D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
Sample:			
Non-Response:			
N:	12996		

## Measured Correlate

Class: . interest democracy (interest-groups) Code: N 4.6.2.1

Measurement: Degree to which the political system leaves room for non-parliamentary articulation of interest; based on the following indicators:

1. influence of 'organized' interest groups;
2. limitedness of the role of 'institutional interest groups' ;
3. limitedness of the role of 'ascriptive interest groups' ;
4. limitedness of the role of 'irregular interest groups' .

Data drawn from Bertrand (1981: 162).

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M happiness	Rate of interest democracy
O-H*/sq/vt/3/a	r=+.56 ns			
			Great Britain	1. 95
			France	1. 89
			W-Germany	1. 89
			Italy	1. 61
			Belgium	2. 27
			The Netherlands	2. 22
			Luxembourg	2. 03
			Denmark	2. 54
			Ireland	1. 88

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<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

## Measured Correlate

*Class:* . parliamentary democracy Code: N 4.6.2.2

*Measurement:* Degree to which the political reality in the various countries matched the ideal of a parliamentary democracy, based on the following indicators:

1. the constitutional status of the regime;
2. separation between legislative and executive powers;
3. freedom of press;
4. freedom of opposition;
5. free elections;
6. representativeness of the regime;
7. absence of bans on any political party;
8. existence of a multi-party system;
9. actual interest articulation by political parties;
10. actual interest integration in the parliament;
11. legislative influence of the parliament;
12. dominance of the political leader in the country;
13. relative dominance of the biggest party;
14. possibilities of opposition and coalitions;
15. absence of restrictions for minority groups.

Data drawn from Bertand (1981: 162).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

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<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>	Mt happiness	Rate of liberal democracy
O-BW/c/sq/m/11/a	r=+.47 p<.05			
Australia			7.0	40.5
USA			6.7	38.5
Canada			7.0	37.5
Great Britain			6.8	39.5
France			5.8	35.5
W-Germany			6.6	37.5
Italy			5.6	39.5
Belgium			6.0	43.1
Scandinavia			7.6	42.2
Brazil			6.2	35.5
Mexico			6.2	25.0
Africa (South of the Sahara)			4.6	9.3
India			3.4	36.0
Japan			5.8	38.5

Study	VEENH 1984/3	Page in Report:	164
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

## Measured Correlate

*Class:* . parliamentary democracy Code: N 4.6.2.2

*Measurement:* Degree to which the political reality in the various countries matched the ideal of a parliamentary democracy, based on the following indicators:

1. the constitutional status of the regime;
2. separation between legislative and executive powers;
3. freedom of press;
4. freedom of opposition;
5. free elections;
6. representativeness of the regime;
7. absence of bans on any political party;
8. existence of a multi-party system;
9. actual interest articulation by political parties;
10. actual interest integration in the parliament;
11. legislative influence of the parliament;
12. dominance of the political leader in the country;
13. relative dominance of the biggest party;
14. possibilities of opposition and coalitions;
15. absence of restrictions for minority groups.

Data drawn from Bertand (1981: 162).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

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<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>		
O-H*/*sq/vt/3/a	r=+.67 p<.05		M happiness	Rate of liberal democracy
		Great Britain	1. 95	39. 5
		France	1. 89	35. 5
		W-Germany	1. 89	37. 5
		Italy	1. 61	39. 5
		Belgium	2. 27	42. 5
		The Netherlands	2. 22	43. 5
		Luxembourg	2. 03	43. 5
		Denmark	2. 54	43. 5
		Ireland	1. 88	40. 5

Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

## Measured Correlate

Class: Political participation Code: N 4.6.3

Measurement: Index of:  
 - years since independence  
 - years since most recent constitution - presence of functioning  
 parliamentary system  
 - presence of functioning political party system  
 - degree of influence of military - the number of elections held

Source: Estes, R. J. -The social progress of nations (1984,  
 N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Life Satisfaction	Political participation
O-SL*/sq/nt/11/a	r=+.31 ns				
			Austral ia	7. 67	18
			Austria	7. 10	16
			Bel gi um	7. 07	21
			Brazi l	7. 03	12
			Canada	7. 60	27
			Denmark	7. 92	18
			Fin nl and	7. 68	14
			France	6. 29	16
			Germany	6. 94	16
			Greece	5. 70	15
			Great Bri tai n	7. 41	32
			I tal y	6. 24	16
			I ndia	3. 35	17
			I rel and	7. 58	15
			Japan	6. 20	16
			Mexi co	4. 32	13

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Netherl ands	7. 46	23
Norway	7. 67	20
Phi l i ppi nes	6. 60	5
Portugal	6. 74	10
Si ngapore	7. 12	10
S. Afri ca	6. 43	14
S. Korea	5. 50	12
Spai n	6. 22	18
Sweden	7. 80	15
Swi tzerl and	8. 60	22
Uni ted States	6. 94	23

Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

## Measured Correlate

Class: . political protest Code: N 4.6.3.1

Measurement: Index of:  
 - the number of protest demonstrations - the number of riots  
 - the number of strikes  
 - the number of armed attacks  
 - the number of deaths from domestic violence per million population

Source: Estes, R. J. -The social progress of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Happiness	Political	stability
O-H*/sq/vt/11/a	r=+.02 ns					
		Austral ia	7. 75		11	
		Austri a	6. 68		12	
		Bel gi um	7. 57		12	
		Brazi l	7. 22		8	
		Canada	7. 76		12	
		Denmark	7. 67		12	
		Fi nl and	7. 35		12	
		France	7. 24		1	
		Germany	6. 98		9	
		Greece	5. 61		9	
		Great Bri tai n	7. 74		-28	
		Ital y	6. 47		-8	
		Indi a	5. 16		4	
		Irel and	7. 82		11	
		Japan	6. 94		11	
		Mexi co	6. 31		6	
		Netherl ands	7. 63		10	

O-SL*/sq/nt/11/a	r=+.19	ns	Mt'	Li fe Satisfacti on	Pol i ti cal stabi l i ty
Norway	7. 45				12
Phi l i ppi nes	6. 47				10
Portugal	6. 20				9
Si ngapore	7. 24				12
S. Afri ca	7. 03				-3
S. Korea	6. 21				10
Spai n	6. 84				-29
Sweden	7. 62				12
Swi tzerl and	6. 99				12
Uni ted States	7. 55				-2
Austral i a	7. 67				11
Austri a	7. 10				12
Bel gi um	7. 07				12
Brazi l	7. 03				8
Canada	7. 60				12
Denmark	7. 92				12
Fi nl and	7. 68				12
France	6. 29				1
Germany	6. 94				9
Greece	5. 70				9
Great Bri tai n	7. 41				-28
Ital y	6. 24				-8
Indi a	3. 35				4
Irel and	7. 58				11
Japan	6. 20				11
Mexi co	4. 32				6
Netherl ands	7. 46				10
Norway	7. 67				12
Phi l i ppi nes	6. 60				10
Portugal	6. 74				9
Si ngapore	7. 12				12
S. Afri ca	6. 43				-3
S. Korea	5. 50				10
Spai n	6. 22				-29
Sweden	7. 80				12
Swi tzerl and	8. 60				12
Uni ted States	6. 94				-2

Study	VEENH 1984/2	Page in Report:	167
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

## Measured Correlate

*Class:* . political violence Code: N 4.6.3.2

*Measurement:* Index of 'Collective protest'  
(Hibbs: 1973), consists of 3 items:  
incidence of:  
1. riots;  
2. anti-government demonstrations;  
3. political strikes.  
Data drawn from Hibbs (1973: tabel 5.2).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happiness	Rate of protest
O-BW/c/sq/m/11/a	r=-.53 p<.01		Australia	7.0	1.1
			USA	6.7	7.1
			Canada	7.0	3.7
			Great Britain	6.8	5.1
			France	5.8	5.2
			W-Germany	6.6	4.5
			Italy	5.6	4.9
			Belgium	6.0	2.5
			Scandinavia	7.6	1.9
			Brazil	6.2	5.3
			Mexico	6.2	5.0
			Africa (South of the Sahara)	4.6	4.1
			India	3.4	7.3
			Japan	5.8	5.1

Study	VEENH 1984/3	Page in Report:	167
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

## Measured Correlate

*Class:* . political violence Code: N 4.6.3.2

*Measurement:* Index of 'Collective protest'  
(Hibbs: 1973), consists of 3 items:  
incidence of:  
1. riots;  
2. anti-government demonstrations;  
3. political strikes.  
Data drawn from Hibbs (1973: tabel 5.2).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happiness	Rate of protest
O-H*/sqvt/3/a	r=-.62 p<.05		Great Britain	1. 95	5. 1
			France	1. 89	5. 2
			W-Germany	1. 89	4. 5
			Italy	1. 61	4. 9
			Belgium	2. 27	4. 5
			The Netherlands	2. 22	1. 1
			Luxembourg	2. 03	no data
			Denmark	2. 54	2. 8
			Ireland	1. 88	1. 4

Study	BRADB 1969	Page in Report:	216
<i>Reported in:</i>	Bradburn, N.M. The structure of psychological well-being Aldine Publishing Company, 1969, Chicago, USA		
<i>Population:</i>	21-60 aged, general public, urban areas, USA, 1963 - 64		
<i>Sample:</i>			
<i>Non-Response:</i>	± 20%, Attrition ± 30%		
<i>N:</i>	2787		

## Measured Correlate

*Class:* Civil war Code: N 4.6.4

*Measurement:* Happiness assessed before and after assassination in November 1963.

Before:

T1: January 1963

T2: June 1963

T3: October 1963

After:

T3b: November 1963 (subsample N=366)

T4: January 1964

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks
A-BB/cm/mq/v/2/a	D% = ns	Shortterm chance in some specific affects, but not in (summed) Affect Balance.

Study	VEENH 1984/1	Page in Report:	168
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

## Measured Correlate

*Class:* Civil war Code: N 4.6.4

*Measurement:* Degree of internal war rated on the basis of the following indicators:  
 1. incidence of insurgent attacks;  
 2. actual and attempted assassinations of political leaders;  
 3. the number of people being killed in anti-state or intergroup conflict situations.  
 Data drawn from Higgs (1973: tabel 5.2).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt happiness	Rate of internal war
O-BW/c/sq/m/11/a	r=-.63 ns			
			Australia	7.0
			North America	6.7
			Western Europe	6.3
			Latin America	6.0
			Africa (South of the Sahara)	4.6
			Asia (exc. Japan)	3.8
			Japan	5.8

Study	VEENH 1984/2	Page in Report:	168
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

## Measured Correlate

*Class:* Civil war Code: N 4.6.4

*Measurement:* Based on the following indicators:  
incidence of:  
1. insurgent attacks;  
2. actual and attempted assassinations  
of political leaders;  
3. anti-state or intergroup conflict  
situations.  
Data drawn from Hibbs (1973: tabel 5.2).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt happiness	Rate of internal war
O-BW/c/sq/m/11/a	r=-.71 p<.001			
		Australia	7.0	1.9
		USA	6.7	6.4
		Canada	7.0	4.7
		Great Britain	6.8	2.8
		France	5.8	6.4
		W-Germany	6.6	2.8
		Italy	5.6	5.2
		Benelux	6.0	2.6
		Scandinavia	7.6	0.3
		Brazil	6.2	5.4
		Mexico	6.2	5.7
		Africa (South of the Sahara)	4.6	6.0
		India	3.4	7.7
		Japan	5.8	2.2

Study	VEENH 1984/2	Page in Report:	167
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, world population, 14 nations and regions, 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	6563		

## Measured Correlate

*Class:* Civil war Code: N 4.6.4

*Measurement:* 'Ci vi c di sorder i ndex' (Kuri an: 1979),  
consisti ng of the fol lowi ng i tems:  
i nci dence of:  
1. pol i ti cal assassi nati ons;  
2. general stri kes;  
3. guerilla i nci dents;  
4. government cri ses;  
5. purges;  
6. ri ots;  
7. revoluti ons;  
8. anti -government demonstrati ons.  
Data drawn from Kuri an (1979: 57).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt happiness	Index of ci vi c di sorder
O-BW/c/sq/m/11/a	r=-.44 ns			
			Austral ia	7. 0
			USA	6. 7
			Canada	7. 0
			Great Bri tai n	6. 8
			France	5. 8
			W-Germany	6. 6
			I tal y	5. 6
			Benel ux	6. 0
			Scandi navi a	7. 6
			Brasi l	6. 2
			Mexi co	6. 2
			Afri ca (South of the Sahara)	4. 6
			I ndi a	3. 4
			Japan	5. 8



Study	VEENH 1984/3	Page in Report:	167
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

## Measured Correlate

*Class:* Civil war Code: N 4.6.4

*Measurement:* Based on the following indicators:  
incidence of:  
1. insurgent attacks;  
2. actual and attempted assassinations  
of political leaders;  
3. anti-state or intergroup conflict  
situations.  
Data drawn from Hibbs (1973: tabel 5.2).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happiness	Rate of internal war
O-H*/sqvt/3/a	r=-.53 ns				
		Great Britain	1. 95		2. 8
		France	1. 89		6. 4
		W-Germany	1. 89		2. 8
		Italy	1. 61		5. 2
		Belgium	2. 27		6. 3
		The Netherlands	2. 22		0. 0
		Luxembourg	2. 03		no data
		Denmark	2. 54		0. 0
		Ireland	1. 88		2. 8

Study	VEENH 1984/3	Page in Report:	169
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	12996		

## Measured Correlate

*Class:* Civil war Code: N 4.6.4

*Measurement:* 'Civic disorder index' (Kuran: 1979), consisting of the following items:  
incidence of:  
1. political assassinations;  
2. general strikes;  
3. guerrilla incidents;  
4. government crises;  
5. purges;  
6. riots;  
7. revolutions;  
8. anti-government demonstrations.  
Data drawn from Kuran (1979: 57).

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M happiness	Index of civic disorder
O-H*/sq/vt/3/a	r=-.79 p<.01			
			Great Britain	1.95
			France	1.89
			W-Germany	1.89
			Italy	1.61
			Belgium	2.27
			The Netherlands	2.22
			Luxembourg	2.03
			Denmark	2.54
			Ireland	1.88

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<b>Study</b>	<b>OUWEN 1994</b>	<i>Page in Report:</i>
<i>Reported in:</i>	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
<i>Population:</i>	Adult, general public, 27 nations, ±1980	
<i>Sample:</i>		
<i>Non-Response:</i>	n.a.	
<i>N:</i>	27	

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### Measured Correlate

*Class:* . defense-spending Code: N 4.6.5.1

*Measurement:* Defense spending in % GNP

Source: Estes, R. J. -The social progress  
of nations (1984, N. Y., Praeger)

*Measured Values:*

*Error Estimates:*

*Remarks:*

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### Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>	<i>Mt'</i>	<i>Happiness</i>	<i>Defense score</i>
O-H*/sq/vt/11/a	r=+.11 ns				
		Austral ia	7. 75	13	
		Austri a	6. 68	16	
		Bel gi um	7. 57	11	
		Brazi l	7. 22	17	
		Canada	7. 76	15	
		Denmark	7. 67	13	
		Fi nl and	7. 35	16	
		France	7. 24	9	
		Germany	6. 98	11	
		Greece	5. 61	4	
		Great Bri tai n	7. 74	7	
		I tal y	6. 47	13	
		I ndi a	5. 16	11	
		I rel and	7. 82	15	
		Japan	6. 94	17	
		Mexi co	6. 31	18	
		Netherl ands	7. 63	11	
		Norway	7. 45	11	
		Phi l i ppi nes	6. 47	13	
		Portugal	6. 20	11	
		Si ngapore	7. 24	3	
		S. Afri ca	7. 03	9	

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O-SL*/sq/nt/11/a	r=+.07	ns	Mt'	Li fe Satisfacti on	Defense effort
S. Korea	6. 21		6		
Spai n	6. 84		15		
Sweden	7. 62		11		
Swi tzerl and	6. 99		14		
Uni ted States	7. 55		6		
Austral ia	7. 67		13		
Austri a	7. 10		16		
Bel gi um	7. 07		11		
Brazi l	7. 03		17		
Canada	7. 60		15		
Denmark	7. 92		13		
Fi nl and	7. 68		16		
France	6. 29		9		
Germany	6. 94		11		
Greece	5. 70		4		
Great Bri tai n	7. 41		7		
I tal y	6. 24		13		
I ndi a	3. 35		11		
I rel and	7. 58		15		
Japan	6. 20		17		
Mexi co	4. 32		18		
Netherl ands	7. 46		11		
Norway	7. 67		11		
Phi lippi nes	6. 60		13		
Portugal	6. 74		11		
Si ngapore	7. 12		3		
S. Afri ca	6. 43		9		
S. Korea	5. 50		6		
Spai n	6. 22		15		
Sweden	7. 80		11		
Swi tzerl and	8. 60		14		
Uni ted States	6. 94		6		

Study	KEYES 1998	Page in Report:	138
<i>Reported in:</i>	Keyes, C.L. Social Well-Being Social Psychology Quarterly 1998, Vol. 61, 121-140		
<i>Population:</i>	18 + aged, Dane County, Wisconsin USA, 1994		
<i>Sample:</i>	Probability simple random sample		
<i>Non-Response:</i>	37%		
<i>N:</i>	373		

## Measured Correlate

<i>Class:</i>	Socio-cultural conditions the nation Code: N 4.7
<i>Measurement:</i>	Respondents indicated (dis)agreement with the following statements: a) The world is too complex for you (-) b) Only scientists understand how the world works (-) c) You cannot make sense of what's going on in the world (-) d) Most cultures are so strange that you cannot understand them (-) e) It is worthwhile to understand the world you live in (+) f) It is hard to predict what will happen next in society (-) Items with (-) are reverse scored on scale ranging from 1. strongly 2. moderately 3. slightly disagree 4. slightly 5. moderately 6. strongly agree
<i>Measured Values:</i>	M = 28.3 SD = 6.4
<i>Error Estimates:</i>	Metric Loading ranging from .92 to 1.3 Validity Coefficients ranging from .43 to .55 Alpha Reliability .77
<i>Remarks:</i>	

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks
O-SLu/h/sq/v/4/a	r=+.16 p<.01	
O-SLW/cm/sq/v/4/a	r=+.20 p<.01	

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<b>Study</b>	<b>OUWEN 1994</b>	<i>Page in Report:</i>
<i>Reported in:</i>	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
<i>Population:</i>	Adult, general public, 27 nations, ±1980	
<i>Sample:</i>		
<i>Non-Response:</i>	n.a.	
<i>N:</i>	27	

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## Measured Correlate

*Class:* Literacy and schooling *Code:* N 4.7.1

*Measurement:* Index of:  
 - primary school enrollment ratio  
 - first level pupil/teacher ratio  
 - % adult illiteracy  
 - % GNP in education

Source: Estes, R. J. -The social progress of nations (1984, N.Y., Praeger)

*Measured Values:*

*Error Estimates:*

*Remarks:*

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## Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>	<i>Mt'</i>	<i>Happiness</i>	<i>Educational score</i>
O-H*/sq/vt/11/a	r=+.70 p<.001				
			Australia	7.75	18
			Austria	6.68	18
			Belgium	7.57	19
			Brazil	7.22	11
			Canada	7.76	21
			Denmark	7.67	16
			Finland	7.35	18
			France	7.24	18
			Germany	6.98	16
			Greece	5.61	10
			Great Britain	7.74	18
			Italy	6.47	17
			India	5.16	3
			Ireland	7.82	17
			Japan	6.94	16
			Mexico	6.31	12
			Netherlands	7.63	20
			Norway	7.45	21

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	Life Satisfaction	Education Level
Phi lippines	6. 47	9
Portugal	6. 20	14
Si ngapore	7. 24	10
S. Afri ca	7. 03	3
S. Korea	6. 21	9
Spai n	6. 84	11
Sweden	7. 62	19
Swi tzerl and	6. 99	16
Uni ted States	7. 55	19
O-SL*/sq/nt/11/a	r=+.68	p<.001
Austral ia	7. 67	18
Austri a	7. 10	18
Bel gi um	7. 07	19
Brazi l	7. 03	11
Canada	7. 60	21
Denmark	7. 92	20
Fi nl and	7. 68	18
France	6. 29	18
Germany	6. 94	16
Greece	5. 70	10
Great Bri tai n	7. 41	18
Ital y	6. 24	17
Indi a	3. 35	3
Irel and	7. 58	17
Japan	6. 20	16
Mexi co	4. 32	12
Netherl ands	7. 46	20
Norway	7. 67	21
Phi lippines	6. 60	9
Portugal	6. 74	14
Si ngapore	7. 12	10
S. Afri ca	6. 43	3
S. Korea	5. 50	9
Spai n	6. 22	11
Sweden	7. 80	19
Swi tzerl and	8. 60	16
Uni ted States	6. 94	19

Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

## Measured Correlate

Class: Cultural pluralism Code: N 4.7.4

Measurement: Index of:  
 - largest % sharing same mother-tongue - largest % sharing same basic religious beliefs  
 - ethnic linguistic fractionalization index

Source: Estes, R. J. -The social progress of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Happiness	Cultural	diversity
O-H*/sq/vt/11/a	r=+.12 ns					
		Australia	7.75		12	
		Austria	6.68		18	
		Belgium	7.57		7	
		Brazil	7.22		19	
		Canada	7.76		5	
		Denmark	7.67		19	
		Finland	7.35		17	
		France	7.24		14	
		Germany	6.98		19	
		Greece	5.61		19	
		Great Britain	7.74		14	
		Italy	6.47		20	
		India	5.16		0	
		Ireland	7.82		19	
		Japan	6.94		20	
		Mexico	6.31		14	
		Netherlands	7.63		15	

O-SL*/sq/nt/11/a	r=+.25	ns	Mt'	Li fe Satisfacti on	Cul tural di versi ty
Norway	7. 45			19	
Phi l i ppi nes	6. 47			1	
Portugal	6. 20			20	
Si ngapore	7. 24			5	
S. Afri ca	7. 03			-6	
S. Korea	6. 21			13	
Spai n	6. 84			12	
Sweden	7. 62			19	
Swi tzerl and	6. 99			11	
Uni ted States	7. 55			12	
Austral ia	7. 67			12	
Austri a	7. 10			18	
Bel gi um	7. 07			7	
Brazi l	7. 03			19	
Canada	7. 60			11	
Denmark	7. 92			19	
Fi nl and	7. 68			17	
France	6. 29			14	
Germany	6. 94			19	
Greece	5. 70			19	
Great Bri tai n	7. 41			12	
Ital y	6. 24			20	
Indi a	3. 35			0	
Irel and	7. 58			19	
Japan	6. 20			20	
Mexi co	4. 32			14	
Netherl ands	7. 46			15	
Norway	7. 67			19	
Phi l i ppi nes	6. 60			1	
Portugal	6. 74			20	
Si ngapore	7. 12			5	
S. Afri ca	6. 43			-6	
S. Korea	5. 50			13	
Spai n	6. 22			12	
Sweden	7. 80			19	
Swi tzerl and	8. 60			11	
Uni ted States	6. 94			12	

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Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

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### Measured Correlate

Class: Gender inequality (women emancipation) Code: N 4.8.1

Measurement: Index of:  
 - % of the total number of age-eligible girls attending primary school  
 - % girls in primary school (sex ratio)  
 - % adult female illiteracy  
 - years since women suffrage  
 - years since women suffrage equal to men

Source: Estes, R. J. -The social progress of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

---

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks				
O-H*/sq/vt/11/a	r=+.60 p<.001		Mt'	Happiness	Women status	score
			Australia	7.75	24	
			Austria	6.68	19	
			Belgium	7.57	16	
			Brazil	7.22	15	
			Canada	7.76	17	
			Denmark	7.67	21	
			Finland	7.35	21	
			France	7.24	14	
			Germany	6.98	19	
			Greece	5.61	14	
			Great Britain	7.74	19	
			Italy	6.47	18	
			India	5.16	6	
			Ireland	7.82	18	
			Japan	6.94	14	

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		Mt'	Li fe Satisfacti on	Women status score
O-SL*/sq/nt/11/a	r=+.45 p<.01			
Mexico	6. 31			15
Netherlands	7. 63			20
Norway	7. 45			22
Philippines	6. 47			13
Portugal	6. 20			12
Singapore	7. 24			4
S. Africa	7. 03			21
S. Korea	6. 21			14
Spain	6. 84			17
Sweden	7. 62			25
Switzerland	6. 99			8
United States	7. 55			20
Australia	7. 67			24
Austria	7. 10			19
Belgium	7. 07			16
Brazil	7. 03			15
Canada	7. 60			17
Denmark	7. 92			21
Finland	7. 68			21
France	6. 29			14
Germany	6. 94			19
Greece	5. 70			14
Great Britain	7. 41			19
Italy	6. 24			18
India	3. 35			6
Ireland	7. 58			18
Japan	6. 20			14
Mexico	4. 32			15
Netherlands	7. 46			20
Norway	7. 67			22
Philippines	6. 60			13
Portugal	6. 74			12
Singapore	7. 12			4
S. Africa	6. 43			21
S. Korea	5. 50			14
Spain	6. 22			17
Sweden	7. 80			25
Switzerland	8. 60			8
United States	6. 94			20

Study	VENTE 1997	Page in Report:	498
<i>Reported in:</i>	Ventegodt, S. Livskvalitet og omstændigheder tidligt i livet(The quality of Life and Factors in Forskningscenter for Livskvalitet , Forskningscentrets Forlag, København, Denmark, ISBN 8790190130		
<i>Population:</i>	31-33 aged, born at the university hospital, Denmark, 1993		
<i>Sample:</i>	Non-probability chunk sample		
<i>Non-Response:</i>	36%		
<i>N:</i>	4626		

## Measured Correlate

<i>Class:</i>	Gender inequality (women emancipation) Code: N 4.8.1
<i>Measurement:</i>	age when the child begins to eat meat 1: before 4th month 2: 4th month 3: 5th month 4: 6th month 5: 7th month 6: 8th month - 9th month 7: 10th month 8: 11th - 12th month
<i>Measured Values:</i>	N all:3166, %:1:0,4, 2:2,5, 3:6,7, 4:10,6, 5:31,1, 6:28,7, 7:16,6, 8:3,3
<i>Error Estimates:</i>	
<i>Remarks:</i>	

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks
A-AOL/m/sq/v/5/a	r=+.01 ns	1: Mt=7. 89 2: Mt=7. 41 3: Mt=7. 74 4: Mt=7. 76 5: Mt=7. 69 6: Mt=7. 81 7: Mt=7. 84 8: Mt=7. 31
O-HL/c/sq/v/5/h	r=+.01 ns	1: Mt=6. 73 2: Mt=6. 88 3: Mt=7. 10 4: Mt=7. 01 5: Mt=7. 01 6: Mt=7. 04 7: Mt=7. 08 8: Mt=6. 90



Study	VEENH 1984/1	Page in Report:	158
<i>Reported in:</i>	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
<i>Population:</i>	15+ aged, general public, 5 parts of the world, (55 countries), 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	8433		

### Measured Correlate

*Class:* Income inequality Code: N 4.8.2

*Measurement:* Income inequality measured Gini-coefficients in various parts of the world.  
Data drawn from Cromwell (1977: 294/5) and Bertrand (1981: 192).

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	Gini	coeffi ci ent
O-BW/c/sq/m/11/a	r=-.66 ns					
		Austral ia		7. 0		. 416
		North Ameri ca		6. 7		. 409
		Western Europe		6. 3		. 424
		Latin Ameri ca		6. 0		. 490
		Afri ca (South of the Sahara)		4. 6		. 471
		Asi a (exc. Japan)		3. 8		. 474
		Japan		5. 8		. 409

Study	VEENH 1984/2	Page in Report:	158
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, world population, 14 nations and regions, 1974-76		
Sample:			
Non-Response:			
N:	6563		

## Measured Correlate

Class:	Income inequality Code: N 4.8.2
Measurement:	Income inequality measured Gini-coefficients in various countries. Data drawn from Cromwell (1977: 294/5) and Bertrand (1981: 192).
Measured Values:	
Error Estimates:	
Remarks:	

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt	happi ness	Gini	coeffi ci ent
O-BW/c/sq/m/11/a	r=-.45 p<.05		Austral ia	7. 0	. 416	
			USA	6. 7	. 414	
			Canada	7. 0	. 360	
			Great Bri tai n	6. 8	. 400	
			France	5. 8	. 520	
			W-Germany	6. 6	. 423	
			Ital y	5. 6	. 379	
			Benel ux	6. 0	. 402	
			Scandi navi a	7. 6	. 405	
			Brasi l	6. 2	. 491	
			Mexi co	6. 2	. 530	
			Afri ca (South of the Sahara)	4. 6	. 471	
			Indi a	3. 4	. 482	
			Japan	5. 8	. 409	

Study	VEENH 1984/3	Page in Report:	158
Reported in:	Veenhoven, R. Conditions of happiness. (Chapter 6: Happiness and living conditions; 6.1.1 and 6.1.2) D. Reidel Publishing Company, 1984, Dordrecht, The Netherlands.		
Population:	15+ aged, general public, general public, 9 EC nations, Western Europe, 1975		
Sample:			
Non-Response:			
N:	12996		

## Measured Correlate

Class:	Income inequality Code: N 4.8.2
Measurement:	Income inequality measured Gini-coefficients in various countries. Data drawn from Cromwell (1977: 294/5) and Bertrand (1981: 192).
Measured Values:	
Error Estimates:	
Remarks:	

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks	M	happi ness	Gini -coeffi ci ent
O-H*/sqvt/3/a	r=-.28 ns				i ncome i nequal i ty
			Great Bri tai n	1. 95	. 400
			France	1. 89	. 520
			W-Germany	1. 89	. 423
			I tal y	1. 61	. 374
			Bel gi um	2. 27	. 350
			The Netherl ands	2. 22	. 440
			Luxembourg	2. 03	. 380
			Denmark	2. 54	. 390
			I rel and	1. 88	. 440

Study	VEENH 1990	Page in Report:	Exhibit 7
<i>Reported in:</i>	Veenhoven, R.		
	Inequality in happiness: Inequality in countries compared between countries		
	Paper presented at the 12th Work Congress of sociology in Madrid, July 1990		
<i>Population:</i>	Adults, general public, 28 countries, 1965-85		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	± 30.000		

### Measured Correlate

*Class:* Income inequality Code: N 4.8.2

*Measurement:* Interquartile variation, expressed in Gini-coefficients (Van Dam, 1988).

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks
O-H*/sqvt/3/a	r=+.36	Correlation between income equality and level of happiness (mean):  rich countries                    r= +.54 not-so-rich countries            r= -.48
		Correlation between income equality and inequality in happiness. Inequality in happiness measured by standard deviation (adjusted for possible variation given the average level of happiness in the nation).  all countries                    r= +.55 rich countries                    r= +.61 not-so-rich countries            r= +.58

Study	ANGST 1978/4	Page in Report:	123
<i>Reported in:</i>	La Baloise, Groupe des assurances.		
	The entire world interviewed (Le monde entier interviewé)		
	La Baloise, Assurance Company, 1978, Bâle, Switzerland.		
<i>Population:</i>	15+ aged, general public, 17 countries., 1974-76		
<i>Sample:</i>			
<i>Non-Response:</i>			
<i>N:</i>	4617		

## Measured Correlate

Class: Friendship density Code: N 4.11.1

**Measurement:** Average number of friends per country.  
Number of friends assessed by a single direct question.

Average number of friends per country:	
USA	9.3
Australia	8.1
Scandinavia	7.8
Brazil	6.6
Great Britain	5.9
Germany	5.8
Benelux countries	5.8
Italy	5.5
France	5.5
Japan	5.2
Mexico	2.5
India	1.7

### *Measured Values:*

### Error Estimates:

*Remarks:*

## Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>		
O-SLW/c/sq/?/10/a	rs=+.87 p<.001		rankorder of number of friends	rankorder of satisfaction
		USA	1	3
		Australia	2	1
		Scandinavia	3	2
		Brasil	4	6
		Great Britain	5	4
		Germany	6	5
		Benelux		
		countries	6	8
		Italy	8	10
		France	8	9
		Japan	10	11

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Mexico	11	7
India	12	12

Study	CANTR 1965/1	Page in Report:	194
<i>Reported in:</i>	Cantril, H. The pattern of human concerns. New Brunswick, Rutgers University Press, New Jersey, 1965		
<i>Population:</i>	Adults, general public, 14 countries ±1960		
<i>Sample:</i>			
<i>Non-Response:</i>	-		
<i>N:</i>	18,653 (See "Remarks")		

## Measured Correlate

*Class:* Overall development (modernity) of nation Code: N 4.12

*Measurement:* 5-item index involving:  
 - general welfare: GNP per capita, and number of doctors per 10,000 persons  
 - communications: number of vehicles, telephones, radios, and newspaper circulation, per 1000 persons  
 - industrialization: energy consumption per capita, and percentage of the economically active population in the non-agricultural sectors  
 - urbanization: percentage of the population literate, and primary school enrollment ratio.

*Measured Values:*

*Error Estimates:*

*Remarks:*

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks
O-BW/c/sql/11/a	r=+.67 p<.01	This correlation is at the macro level (rather than at the individual level). Happiness for each of the countries was correlated with the index of development.  L-shaped curve: stronger effect on average happiness in the least developed countries.

Study	LERNE 1958	Page in Report:	102
Reported in:	Lerner, D. The passing of traditional society. Modernizing the Middle East The Free Press, 1958, New York		
Population:	Adult, general public, Middle East (Egypt, Iran, Jordan, Lebanon, Syria and Turkey), 1950		
Sample:			
Non-Response:			
N:	±1600		

## Measured Correlate

Class: Overall development (modernity) of nation Code: N 4.12

Measurement: Index based on:  
 a. Literacy  
 b. Urban living  
 c. SES  
 d. Media attendance  
 e. Empathy (projective questionnaire)

Three types were derived:

1. Traditional
2. Transitional
3. Modern

Measured Values:

Error Estimates:

Remarks:

## Observed Relation with Happiness

Happiness Query	Statistics	Remarks			
O-HL/u/sq/v/4/a	D%=>	Turkey	29	27	14
	D%=>	Lebanon	43	18	18
	D%=>	Egypt	40	41	19
	D%=>	Syria	41	40	13
	D%=>	Jordan	52	42	54
	D%=>	Iran	52	33	42

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Study	OUWEN 1994	Page in Report:
Reported in:	Ouweneel, P. & Veenhoven, R. Nation characteristics and average happiness Working Paper, Rotterdam, 1994	Dpt. of Sociology, Erasmus University,
Population:	Adult, general public, 27 nations, ±1980	
Sample:		
Non-Response:	n.a.	
N:	27	

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### Measured Correlate

Class: Summed nation characteristics Code: N 4.13

Measurement: The number of vulnerable zones (political, geographical, or demographic). The higher the score the less stable a country is. F. e. the Netherlands have one vulnerable zone (i. e. score=1) because of the risk of floods; other vulnerable zones are (civil) wars, the risk of natural disasters (volcanic activities, draughts, hurricanes, earth quakes, etc.), unsufficient food production, overpopulation, and (the risk of) epidemics. Expert rating on the basis of selected criteria.

Source: Estes, R. J. -The social progress of nations (1984, N. Y., Praeger)

Measured Values:

Error Estimates:

Remarks:

---

### Observed Relation with Happiness

Happiness Query	Statistics	Remarks	Mt'	Happiness	Vul ner. score
O-H*/sq/vt/11/a	r=-.64 p<.001				
		Austral ia	7. 75		1
		Austri a	6. 68		1
		Bel gi um	7. 57		2
		Brazi l	7. 22		3
		Canada	7. 76		2
		Denmark	7. 67		1
		Fi nl and	7. 35		1
		France	7. 24		2
		Germany	6. 98		2
		Greece	5. 61		3
		Great Bri tai n	7. 74		3
		I tal y	6. 47		2
		Indi a	5. 16		6
		I rel and	7. 82		1
		Japan	6. 94		2

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	Mt'	Li fe Sati sfacti on	Vul nerabi li ty score
O-SL*/sq/nt/11/a	r=-.71	p<.001	
Mexi co	6. 31		4
Netherl ands	7. 63		1
Norway	7. 45		1
Portugal	6. 20		3
Phi l i ppi nes	6. 46		5
Si ngapore	7. 24		4
S. Afri ca	7. 03		5
S. Korea	6. 21		4
Spai n	6. 84		4
Sweden	7. 62		1
Swi tzerl and	6. 99		2
Uni ted States	7. 55		3
Austral i a	7. 67		1
Austri a	7. 10		1
Bel gi um	7. 07		2
Brazi l	7. 03		3
Canada	7. 60		2
Denmark	7. 92		1
Fi nl and	7. 68		1
France	6. 29		2
Germany	6. 94		2
Greece	5. 70		3
Great Bri tain	7. 41		3
Ital y	6. 24		2
Indi a	3. 35		6
Irel and	7. 58		1
Japan	6. 20		2
Mexi co	4. 32		4
Netherl ands	7. 46		1
Norway	7. 67		1
Phi l i ppi nes	6. 60		5
Portugal	6. 74		3
Si ngapore	7. 12		4
S. Afri ca	6. 43		5
S. Korea	5. 50		4
Spai n	6. 22		4
Sweden	7. 80		1
Swi tzerl and	8. 60		2
Uni ted States	6. 94		3

## **Appendix 1      Queries on Happiness used in reported Studies**

Happiness Query Code    Full Text

A-AOL/m/sq/v/5/a	<p>Single direct question: 'How are you feeling now....?' 5 very good 4 good 3 neither good nor poor 2 poor 1 very poor</p> <p>Original text in Danish: 'Hvordan har du det for tiden? 5 meget godt 4 godt 3 hverken godt eller dårligt 2 dårligt 1 mycket dårligt</p>
A-BB/cm/mq/v/2/a	<p>Selfreport on 10 questions:</p> <p>"During the past few weeks, did you ever feel ....?" (yes/no)</p> <p>A Particularly excited or interested in something? B So restless that you couldn't sit long in a chair? C Proud because someone complimented you on something you had done? D Very lonely or remote from other people? E Pleased about having accomplished something? F Bored? G On top of the world? H Depressed or very unhappy? I That things were going your way? J Upset because someone criticized you?</p> <p>Answer options and scoring: yes = 1 no = 0</p> <p>Summation: -Positive Affect Score (PAS): A+C+E+G+I -Negative Affect Score (NAS): B+D+F+H+J -Affect Balance Score (ABS): PAS minus NAS Possible range: -5 to +5</p> <p>Name: Bradburn's 'Affect Balance Scale' (standard version)</p>
O-BW/c/sq/l/11/a	<p>Selfreport on single question:</p> <p>"Here is a picture of a ladder. Suppose we say that the top of the ladder represents the best possible life for you and the bottom represents the worst possible life for you. Where on the ladder do you feel you personally stand at the present time?" [ 10 ] best possible life</p>

[ 9 ]  
 [ 8 ]  
 [ 7 ]  
 [ 6 ]  
 [ 5 ]  
 [ 4 ]  
 [ 3 ]  
 [ 2 ]  
 [ 1 ]  
 [ 0 ] worst possible life

Preceded by 1) open questions about what the respondent imagines as the best possible life and the worst possible life. 2) ratings on the ladder of one's life five years ago and where on the ladder one expects to stand five years from now.

Name: Cantril's selfanchoring ladder rating of life (original)

O-BW/c/sq/m/11/a

Selfreport on single question:

"To indicate how you feel about your life at this time, would you use this card? Suppose the top of the mountain represents the best life you can imagine, and the bottomstep of the mountain represents the worst possible life you can imagine. On which step of the mountain would you say you personally feel you stand at this time? - assuming that the higher the step the better you feel about your life, and the lower the step the worse you feel about it. Just point to the step that comes closest to how you feel"

10 best possible life

9

8

7

6

5

4

3

2

1

0 worst possible life

(Mountain scale not reproduced here)

O-H\*/sq/vt/11/a

Selfreport on single question:

Equivalent questions on overall happiness. (Slightly different items items used in the various nations)

Scores transformed to common range 0 - 10 by means of Thurstone procedure (response options weighted by experts)

Weights for responses:

9.3 - very happy

6.7 - pretty happy

6.5 - fairly happy

4.1 - not too happy

3.7 - not very happy  
 2.7 - not happy  
 1.0 - not at all happy  
 0.6 - very unhappy

O-H\*/sq/vt/3/a Selfreport on single questions

Six equivalent questions on overall happiness.(Slightly different items used in the various nations)

Scores transformed to common range 1 - 3, by recoding;

A "Generally speaking, how happy would you say you are;  
 would you say you are...?"

- 1 very happy
- 2 fairly happy
- 3 not too happy

B "Taken all things together, how would you say things are these days; would you say you are ...?"

- 1 very happy
- 2 fairly happy
- 3 not too happy

C "Taken all together, would you say you are.....?"

- 1 very happy
- 1 quite happy
- 2 not very happy
- 3 not at all happy

D "Taken all together how would you say things are these days; would you say you are ...?"

- 1 very happy
- 2 pretty happy
- 3 not too happy

E "In general, how happy would you say you are...?"

- 1 very happy
- 2 fairly happy
- 3 not very happy

F "How happy do you feel as you live now? Please choose one item from this card that is closest to your feeling"

- 1 very happy
- 1 fairly happy
- 2 neither happy nor unhappy
- 3 fairly unhappy
- 3 very unhappy

O-HL/c/sq/v/3/af Selfreport on single question:

"All things considered, how would you describe yourself these days? Would you say you are...?"

- 3 very happy

2 fairly happy  
 1 not too happy  
 O-HL/c/sq/v/5/h Selfreport on single question

'How happy are you now?'  
 5 very happy  
 4 happy  
 3 neither happy nor unhappy  
 2 unhappy  
 1 very unhappy

Original text in Danish:  
 'Hvor lykkelig er du for tiden?'  
 5 meget lykkelig

4 lykkelig  
 3 hverken eller  
 2 ulykkelig  
 1 meget ulykkelig

O-HL/u/sq/v/4/a Selfreport on single question:

"Taking all things together, would you say you are....?"  
 4 very happy  
 3 quite happy  
 2 not very happy  
 1 not at all happy.

O-SL\*/\*/sq/nt/11/a Self report on single question:

Equivalent questions on lifesatisfaction rated on numerical 3 to 5 step scales.(slightly different items in the various nations)

Scores transformed to common range 0 - 10 by means of Thurstone procedure.

1 fully satisfied	9.7
2 very satisfied	9.3
3 satisfied	8.5
4 not fully but ot an extend satisfied	6.9
5 rather satisfied	6.8
6 fairly satisfied	6.5
7 as yet unsatisfied	4.0
8 still dissatisfied*	4.0
9 not very satisfied	3.7
10 very unsatisfied	1.7
11 not at all satisfied	1.3
12 extremely dissatisfied*	1.2
13 unbearably dissatisfied	1.2

O-SL\*/\*/sq/vt/3/a Selfreport on single question:

"..... satisfaction with life ....."  
 (various slightly different questions)

rated on different scale

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O-SLu/c/sq/v/5/e	<p>Selfreport on single question:</p> <p>'How satisfied are you with your life now?'</p> <p>5 very satisfied      2 satisfied      3 neither satisfied nor dissatisfied      2 dissatisfied      1 very dissatisfied</p> <p>Original text in Danish:      'Hvor tilfreds er du med dit liv for tiden?'</p> <p>5 meget tilfreds      4 tilfreds      3 hverken tilfreds eller utilfreds      2 utilfreds      1 meget utilfreds</p>
O-SLu/h/sq/v/4/a	<p>Selfreport on single question:</p> <p>Ss were asked to pretend for a moment that their life would end next weekend then indicate how happy they felt about the life they been able to live. (Full question not reported)</p> <p>4 very satisfied      3 somewhat satisfied      2 a little satisfied      1 not at all satisfied</p>
O-SLW/c/sq/?/10/a	<p>Selfreport on single question:</p> <p>"Now, taking everything about your life into account, how satisfied or dissatisfied are you with your life today.....?"</p> <p>1 -      2      3      4      5      6      7      8      9      10 +</p> <p>Response options not reported.</p>
O-SLW/cm/sq/v/4/a	<p>Selfreport on single question</p> <p>'....satisfied with global life right now....'      (full question not reported)</p> <p>4 very satisfied      3 somewhat satisfied      2 a little satisfied      1 not at all satisfied</p>

On the web you will find an overview of valid queries on happiness and an explanation of the classification

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used. Go to: [www.eur.nl/fsw/research/happiness/hap\\_quer/hqi\\_fp.htm](http://www.eur.nl/fsw/research/happiness/hap_quer/hqi_fp.htm). This is the introductory text to the Catalog of Happiness Queries.

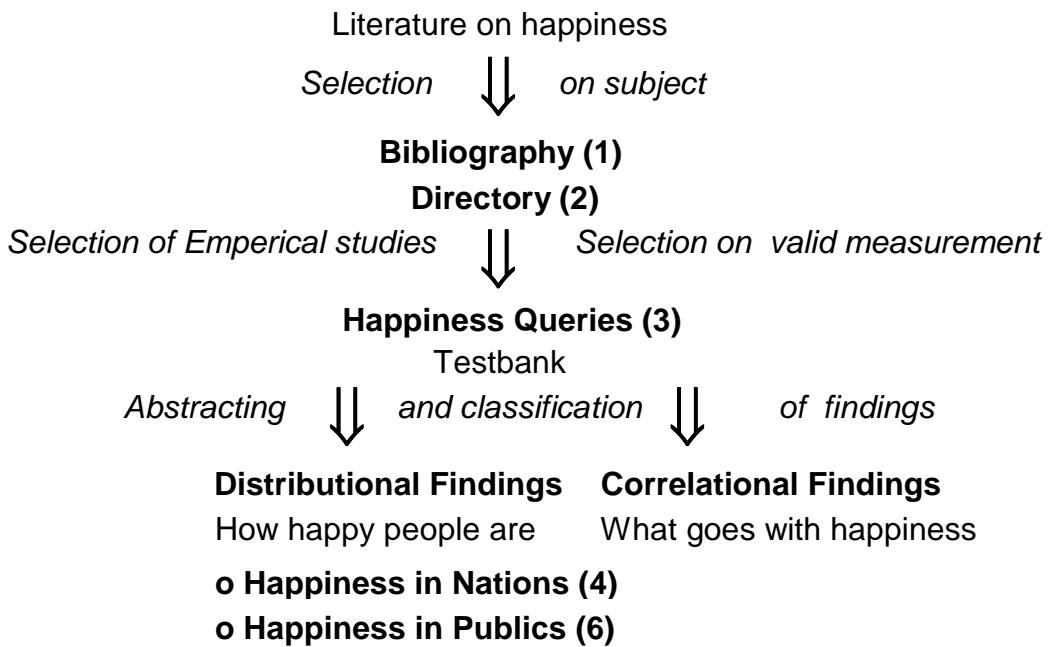
## Appendix 2 **Statistics used in reported studies**

Symbol	Explanation
D%	<p>DIFFERENCE in PERCENTAGES  Type: descriptive statistic only.  Measurement level: Correlate level: dichotomous, but nominal or ordinal theoretically possible as well. Happiness level: dichotomous  Range: [-100; +100]</p> <p>Meaning: the difference of the percentages happy people at two correlate levels.</p>
G	<p>GOODMAN &amp; Kruskal's GAMMA  Type: test statistic  Measurement level: Correlate: ordinal, Happiness: ordinal  Range: [-1; +1]</p> <p>Meaning:  <math>G = 0</math> « no rank correlation  <math>G = +1</math> « strongest possible rank correlation, where high correlate values correspond with high happiness ratings.  <math>G = -1</math> « strongest possible rank correlation, where high correlate values correspond with low happiness ratings.</p>
r	<p>PRODUCT-MOMENT CORRELATION COEFFICIENT (Also "Pearson's correlation coefficient" or simply 'correlation coefficient')  Type: test statistic.  Measurement level: Correlate: metric, Happiness: metric  Range: [-1; +1]</p> <p>Meaning:  <math>r = 0</math> « no correlation ,  <math>r = 1</math> « perfect correlation, where high correlate values correspond with high happiness values, and  <math>r = -1</math> « perfect correlation, where high correlate values correspond with low happiness values.</p>
rs	<p>SPEARMAN'S RANK CORRELATION COEFFICIENT  Type: test statistic  Measurement level: Correlate: ordinal, Happiness: ordinal.  Range: [-1; +1]</p> <p>Meaning:  <math>rs = 0</math> « no rank correlation  <math>rs = 1</math> « perfect rank correlation, where high correlate values are associated with high happiness ratings  <math>rs = -1</math> « perfect rank correlation, where high correlate values are associated with low happiness ratings</p>

On the web you will find a text explaining the statistics used in more detail. Go to:  
[www.eur.nl/fsw/research/happiness/hap\\_cor/cor\\_fp.htm](http://www.eur.nl/fsw/research/happiness/hap_cor/cor_fp.htm). This is the introductory text to the Catalog of Correlational Findings. An overview of all statistics is in chapter 4.

## Appendix 3: About the World Database of Happiness

The World Database of Happiness is an ongoing register of scientific research on subjective appreciation of life. It brings together findings that are scattered throughout many studies and provides a basis for synthetic analysis. The research literature is processed as follows:



- 1 BIBLIOGRAPHY OF HAPPINESS Presents all contemporary scientific publications. Detailed subject-classification. Current contents: 3422 titles, mainly in English.
- 2 DIRECTORY OF INVESTIGATORS Names and addresses of most authors on the subject. Enumerates years of publication. Current contents: 5818 names and 3073 addresses. Part of Bibliography.
- 3 CATALOG OF HAPPINESS QUERIES (testbank) Presents all indicators that tap happiness as defined here. Current content: 522 measures, mostly single questions. Queries are classified by focus, time reference, mode of observation, rating and wording.
- 4 CATALOG OF HAPPINESS IN NATIONS Presents distributional research findings, in particular responses to questions on happiness in national survey studies. Allows comparison across time and nations. Current content: 1889 surveys in 112 nations, 1946-2000.
- 5 CATALOG OF HAPPINESS IN PUBLICS Distributional findings on happiness in special publics within nations, such as aged people. Current contents: 705 studies. Part of Catalog of Correlational Findings.
- 6 CATALOG OF CORRELATIONAL FINDINGS Presents abstracts of correlational research findings. Detailed subject-classification. Allows comparison through time and across nations. Current contents: 7476 findings from 705 studies in 140 nations, 1911-2000.

## Appendix 4 *Further Findings in the World Database of Happiness*

Main Category's	Category Name	Number of Studies in this Category
A 1	ACTIVITY LEVEL (how much one does)	53
A 2	ACTIVITY PATTERN (what one does)	7
A 3	AFFECTIVE LIFE	31
A 4	AGE	279
A 5	AGGRESSION	11
A 6	ANOMY	30
A 7	APPEARANCE (good looks)	8
A 8	ATTITUDES	4
A 9	AUTHORITARIANISM	4
B 3	BODY	66
C 1	CHILDREN 1:	4
C 10	CREATIVENESS	6
C 11	CULTURE (Arts and Sciences)	6
C 2	CHILDREN: WANT FOR (Parental aspirations)	6
C 3	CHILDREN: HAVING (parental status)	145
C 4	CHILDREN's CHARACTERISTICS	19
C 5	CHILDREN: RELATION WITH	8
C 6	CHILDREN: REARING (parental behavior)	11
C 7	COMMUNAL LIVING	1
C 8	CONCERNs	15
C 9	COPING	27
D 1	DAILY JOYS & HASSLES	4
E 1	EDUCATION	243
E 2	EMPLOYMENT	180
E 3	ETHNICITY	63
E 4	EXPRESSIVE BEHAVIOR	10
F 1	FAMILY OF ORIGIN (earlier family for adults, current for young)	195
F 2	FAMILY OF PROCREATION	42
F 3	FAMILY OF RELATIVES	145
F 4	FARMING	30
F 5	FREEDOM	24
F 6	FRIENDSHIP	123
G 1	GENDER	252
G 2	GRIEF	1
H 10	HOPE	3
H 11	HOUSEHOLD: COMPOSITION	90
H 12	HOUSEHOLD: WORK	10
H 13	HOUSING	75
H 2	HANDICAP	13

H 3	HAPPINESS: ATTITUDES	39
H 5	HAPPINESS CAREER	144
H 6	HAPPINESS: CURRENT LEVEL	260
H 8	HEALTH-BEHAVIOR	15
H 9	HELPING	4
I 1	INCOME	415
I 2	INSTITUTIONAL LIVING	28
I 3	INTELLIGENCE	63
I 4	INTERESTS	5
I 5	INTERVIEW	49
I 6	INTIMACY	70
L 1	LANGUAGE	1
L 10	LOCAL ENVIRONMENT	270
L 11	LOTTERY	7
L 12	LOVE-LIFE	26
L 2	LEADERSHIP	8
L 3	LEISURE	128
L 4	LIFE APPRAISALS: OTHER THAN HAPPINESS4	290
L 5	LIFE-CHANGE	26
L 6	LIFE-EVENTS	63
L 7	LIFE-GOALS	52
L 8	LIFE HISTORY	1
L 9	LIFE STYLE	4
M 1	MARRIAGE: MARITAL STATUS CAREER	32
M 10	MIGRATION: MIGRANT WORK	3
M 11	MILITARY LIFE	5
M 12	MODERNITY	5
M 13	MOOD	181
M 2	MARRIAGE: CURRENT MARITAL STATUS	315
M 3	MARRIAGE: RELATIONSHIP	99
M 4	MARRIAGE: PARTNER	34
M 5	MEANING	18
M 6	MEDICAL TREATMENT	49
M 7	MENTAL HEALTH	99
M 8	MIGRATION: OTHER COUNTRY	9
M 9	MIGRATION: MOVING WITHIN COUNTRY (residential mobility)	17
N 1	NATIONALITY	5
N 2	NATION: TIME & PLACE	20
N 3	NATIONAL CHARACTER (modal personality)	2
N 4	NATION'S CONDITION	52
N 6	ATTITUDES TO THE NATION	111
N 7	LIVABILITY OF THE NATION	5
N 8	NUTRITION	18
O 1	OCCUPATION	133

O 2	ORGAN TRANSPLANTATION	11
P 1	PERSONALITY: HISTORY	44
P 10	POSSESSIONS	26
P 12	PROBLEMS	20
P 13	PSYCHO-SOMATIC COMPLAINTS	53
P 2	PERSONALITY: CHANGE	7
P 3	PERSONALITY: CURRENT ORGANIZATION	7
P 4	PERSONALITY: CURRENT TRAITS	392
P 5	PERSONALITY: LATER	23
P 6	PHYSICAL HEALTH	286
P 7	PLANNING	7
P 8	POLITICS	197
P 9	POPULARITY	22
R 1	RELIGION	198
R 2	RESOURCES	8
R 3	RETIREMENT	46
R 4	ROLES	13
S 1	SCHOOL	92
S 10	SOCIAL SUPPORT: RECEIVED	26
S 11	SOCIAL SUPPORT: Provided	3
S 12	SPORTS	32
S 13	STIMULANTS	33
S 14	SUICIDE	4
S 15	SUMMED EFFECTS ON HAPPINESS	71
S 2	SELF-IMAGE	193
S 3	SEX-LIFE	54
S 4	SLEEP	10
S 5	SOCIAL MOBILITY	16
S 6	SOCIAL PARTICIPATION: PERSONAL CONTACTS	50
S 7	SOCIAL PARTICIPATION: VOLUNTARY ASSOCIATIONS	111
S 8	SOCIAL PARTICIPATION: TOTAL (personal + associations)	25
S 9	SOCIAL STATUS (Socio-Economic Status)	140
T 1	TIME	27
T 2	THERAPY	9
T 3	TOLERANCE	37
V 1	VALUE CAREER	8
V 2	VALUES: CURRENT PREFERENCES (own)	49
V 3	VALUES: CLIMATE (current values in environment)	4
V 4	VALUES: SIMILARITY (current fit with others)	5
V 5	VICTIM	11
W 1	WAR	5
W 2	WORK CAREER	1
W 3	WORK CONDITIONS	34
W 4	WORK-ATTITUDES	313

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W 5	WORK-PERFORMANCE (current)	6
W 6	WORRIES	27
X	UNCLASSIFIED	22

## Appendix 5 Related Topics

<b>This Topic</b>		<b>Related Topics</b>	
<i>Classification Page 1</i>		<i>In Subject List on Appendix 4</i>	
N 4	NATION'S CONDITION		
N 4.1	Demographic condition		
N 4.1.1	Population density	L 10.2.1	Community size
N 4.1.2	Population growth		
N 4.1.3	Population composition		
N 4.10	Value climate in the nation	V 2	VALUES: CURRENT PREFERENCES (own)
		N 3	NATIONAL CHARACTER (modal personality)
		V 1	VALUE CAREER
		V 4	VALUES: SIMILARITY (current fit with others)
		N 6.3.4	Satisfaction with moral climate
N 4.10.1	Prevalence of materialistic values	V 2.2.1.3	. (post)-materialism
N 4.10.2	Prevalence of hedonistic values	V 2.1.1.1	. happiness, pleasure (hedonic values)
N 4.10.3	Prevalence of individualistic values		INDIVIDUALISM
N 4.11	Pattern of intimacy in nation		
N 4.11.1	Friendship density	F 6	FRIENDSHIP
N 4.11.2	Marriage pattern	M 2	MARRIAGE: CURRENT MARITAL STATUS
N 4.11.2.1	. divorce rate	M 1	MARRIAGE: MARITAL STATUS CAREER
		M 2.2.3	Divorced or separated
N 4.11.2.2	. % living alone	H 11.2.1	Living alone or not
N 4.12	Overall development (modernity) of nation	L 10.2.2	Modernity of community
		M 12	MODERNITY
N 4.13	Summed nation characteristics	S 15	SUMMED EFFECTS ON HAPPINESS
N 4.2	Geographic condition of the nation		
N 4.2.1	Size of the nation	L 10.2.1	Community size
N 4.2.2	Habitability of land		
N 4.2.3	Climate		WEATHER
N 4.2.4	Urbanization	L 10.2.1	Community size
N 4.3	Economic condition of the nation	N 5	NATION's POSITION
N 4.3.1	Economic affluence	I 1.2	Current income level (unspecified)
		P 10	POSSESSIONS

N 4.3.1.1	. GNP per capita (raw)		
N 4.3.1.2	. purchasing power ('real' GNP pc)	N 4.4.1	Purchasing power of average citizen
N 4.3.2	Economic growth/decline	I 1.1.2	Change in income
N 4.3.3	Inflation		
N 4.3.4	Unemployment	E 2.2.5	Unemployed involuntary
N 4.3.5	Working hours		
N 4.4	Standard of living in the nation		STANDARD OF LIVING
N 4.4.1	Purchasing power of average citizen	I 1	INCOME
		N 6.5.2	Satisfaction with costs of living
N 4.4.2	Quality\quantity of facilities in nation	L 10.3	Local economic prosperity
N 4.4.2.1	. housing	H 13	HOUSING
N 4.4.2.2	. health care		
N 4.4.2.3	. schools		
N 4.4.3	Prevalence of below-standard living in nation		
N 4.4.3.1	. homelessness		
N 4.4.3.2	. malnutrition	N 8	NUTRITION
N 4.4.3.3	. poverty	I 1.3	Sufficiency of current income
		N 4.8.2	Income inequality
N 4.5	Socio-economic regime in the nation		
N 4.5.1	State welfare effort	I 1.4.2.3	. welfare
N 4.5.1.1	. public education	N 4.4.2.3	. schools
N 4.5.1.2	. public health	N 4.4.2.2	. health care
N 4.5.1.3	. public housing	N 4.4.2.1	. housing
N 4.5.1.4	. social security	P 8.6.2.3	. attitudes to social security
		N 4.8.2	Income inequality
N 4.5.2	State control of economy		
N 4.6	Political conditions in the nation	P 8.6	Attitudes to political system
N 4.6.1	Political freedom	F 5.3	Current absence of restrictions (social freedom)
N 4.6.1.1	. freedom of press		
N 4.6.2	Political democracy16		DEMOCRACY
N 4.6.2.1	. interest democracy (interest-groups)		
N 4.6.2.2	. parliamentary democracy	N 4.9.2	Human-rights protection
N 4.6.3	Political participation	P 8	POLITICS
N 4.6.3.1	. political protest	N 4.10.1	Prevalence of materialistic values
N 4.6.3.2	. political violence	W 1	WAR
N 4.6.4	Civil war	W 1	WAR

N 4.6.5	Political role of armed forces	N 5.2	Involved in international conflict
N 4.6.5.1	. defense-spending		
N 4.7	Socio-cultural conditions the nation		
N 4.7.1	Literacy and schooling	E 1	EDUCATION
N 4.7.2	Mass media attendance	L 3.3.2.4	. reading
		L 3.3.2.9	. tv watching, radio listening
		N 6.8.1	Satisfaction with supply of mass-media
N 4.7.3	Religiousness	R 1	RELIGION
N 4.7.4	Cultural pluralism	E 3.2	Ethnic status in specific nations
		N 4.7.3	Religiousness
N 4.8	Social equality in the nation	V 2.1.1.6	. egalitarianism
N 4.8.1	Gender inequality (women emancipation)	G 1.1	Sexe (male vs female)
		G 1.2	Gender-role attitudes
N 4.8.2	Income inequality	I 1.6	Relative income
N 4.8.3	Presence of minority groups	E 3.2	Ethnic status in specific nations
		N 4.6.4	Civil war
N 4.8.4	Status differentiation (stratification)	S 5	SOCIAL MOBILITY
		S 9	SOCIAL STATUS (Socio-Economic Status)
N 4.8.5	Inequality in (apparent) quality of life	N 7.3	Inequality in apparent livability
N 4.8.5.1	. inequality in happiness	H 4	HAPPINESS DISPERSION
N 4.8.5.2	. inequality in health		
N 4.9	Justice in the nation		
N 4.9.1	Crime	L 10.4	Local facilities
N 4.9.2	Human-rights protection	F 5	FREEDOM

**End of Report**