



World Database of Happiness

Correlational Findings

© on data collected: Ruut Veenhoven, Erasmus University Rotterdam

Findings on Happiness & SOCIAL MOBILITY

Correlate Code: S 5

Classification of Findings

<i>Correlate Code</i>	<i>Correlate Name</i>	<i>Number of Studies on this Subject</i>
S 5	SOCIAL MOBILITY	0
S 5.1	Mobility career	0
S 5.1.1	Earlier social mobility	0
S 5.1.2	Change in social mobility	0
S 5.1.4	Later social mobility	0
S 5.1.4.1	. expected mobility	1
S 5.1.4.2	. actual mobility (assessed by follow-up)	0
S 5.2	Current social mobility status	0
S 5.2.1	Inter-generational mobility	3
S 5.2.2	Intra-generational mobility	1
S 5.2.2.1	. over/under-achievement	5
S 5.3	Attitudes to own social mobility	0
S 5.3.1	Concern about social mobility	2
S 5.3.2	Aspirations for social advancement	4
S 5.3.3	Satisfaction with one's social mobility	0

- 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

Cite as: Veenhoven, R.: Findings on Happiness & SOCIAL MOBILITY
World Database of Happiness. Internet: www.eur.nl/fsw/research/happiness
Erasmus University Rotterdam, 2003, Netherlands

Study	BRENN 1970	<i>Page in Report:</i>	120/182/..
<i>Reported in:</i>	Brenner, B. Social factors in mental well-being at adolescence. Doctoral dissertation, 1970, The American University, Washington D.C., USA		
<i>Population:</i>	Highschool pupils, New York State, USA, 1960		
<i>Sample:</i>			
<i>Non-Response:</i>	1%		
<i>N:</i>	5204		

Measured Correlate

Class: . expected mobility Code: S 5.1.4.1

Measurement: Closed question on the general standing of expected future business or profession: below average / average / good / excellent.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
A-AOL/g/sq/v/5/a	G=+.15 V= .08 p<. 01	Unaffected by social class
O-HL/u/sq/v/4/b	G=+.23 V= .10 p<. 01	Middle and upper class : G = +. 22 Lower class : G = +. 09

Study	BAKKE 1974	<i>Page in Report:</i>	28
<i>Reported in:</i>	Bakker, P. & Berg, N. van de Determinants and correlates of happiness. Unpublished thesis, 1974, Erasmus University Rotterdam, The Netherlands.		
<i>Population:</i>	20-65 aged, general public, The Netherlands, 1968		
<i>Sample:</i>			
<i>Non-Response:</i>	34% refusal and unattainable.		
<i>N:</i>	1552		

Measured Correlate

<i>Class:</i>	Inter-generational mobility Code: S 5.2.1		
<i>Measurement:</i>	Discrepancy between the respondent's S. E. S. and his father's S. E. S.		
<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-HP/g/sq/ol/7/a	G=+.03 ns	Both upward and downward social mobility are unrelated to happiness.

Study	MITCH 1972/2	<i>Page in Report:</i>	202
<i>Reported in:</i>	Mitchell, R.E. Levels of emotional strain in Southeast Asian cities Asian Folklore & social life monographs, The Orient culturalServic 1972, Taipei, Formosa		
<i>Population:</i>	18+ aged, general public, Hong Kong, South East Asia, 1967		
<i>Sample:</i>			
<i>Non-Response:</i>	21%		
<i>N:</i>	3966 (men : 2006, women : 1960)		

Measured Correlate

<i>Class:</i>	Inter-generational mobility Code: S 5.2.1
<i>Measurement:</i>	Single direct question on living situation compared with parent's : better now/the same/worse now
<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/4/a	G=-.19 p<.01	% happy: - better now 72 - the same 72 - worse now 60

Study	VEENH 1975	<i>Page in Report:</i>	13
<i>Reported in:</i>	Veenhoven, R. & Bakker, P. Schooleducation and psychological well-being Unpublished paper, 1975, Department of Sociology, Erasmus University Rotterdam, The Netherlands		
<i>Population:</i>	20-65 aged, general public, The Netherlands, 1968		
<i>Sample:</i>			
<i>Non-Response:</i>	34%		
<i>N:</i>	1534		

Measured Correlate

Class: Inter-generational mobility Code: S 5.2.1

Measurement: Discrepancy between the respondent's S. E. S. and his father's S. E. S.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HP/g/sq/ol/7/a	G=+.03 ns	Both upward and downward social mobility are unrelated to happiness.

Study	LEE 1982	<i>Page in Report:</i>	220,221
<i>Reported in:</i>	Lee, Gary R. Intergenerational Exchange and Subjective Well-being Among the Elderly Journal of Marriage and the Family, February 1982, page 217-223		
<i>Population:</i>	60+ aged, living near children, USA, Washington State, 1975		
<i>Sample:</i>	Probability simple random sample		
<i>Non-Response:</i>	25.1%		
<i>N:</i>	403		

Measured Correlate

<i>Class:</i>	Intra-generational mobility Code: S 5.2.2
<i>Measurement:</i>	Aid given to children was measured by an set of items, identical to the set of items measuring aid received (see next page) with the addition of "help with babysitting"
<i>Measured Values:</i>	Mean 4.4 SD 3.9
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
M-ACO/u/mq/n/4/a	r=-.06	males
	Beta=+.0	beta controlled for -education -marital status -self rated health -age -number of children -interaction -aid received
	r=	females
	Beta=-.1	beta controlled for -education -marital status -self rated health -age -number of children -interaction -aid received

Study	ANDRE 1976/3	Page in Report:	331
<i>Reported in:</i>	Andrews, F.M. & Withey, S.B. Social Indicators of Well-being: Americans' Perceptions of Life Quality Plenum Press, 1976, New York, USA		
<i>Population:</i>	18+ aged, general public, non institutionalized, USA, 1972/11		
<i>Sample:</i>			
<i>Non-Response:</i>	38%		
<i>N:</i>	1072		

Measured Correlate

Class: . over/under-achievement Code: S 5.2.2.1

Measurement: Combination of family income and the educational attainment of the family head:

1. both low
2. intermediate level
3. , ,
4. , ,
5. both high
6. relatively low income and relatively high education
7. relatively high income and low education

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query	Statistics	Remarks
O-HL/u/sq/v/7/b	DM=+	0 inconsistent: 6. M=5.2 Mt' =7.0 7. M=5.7 Mt' =7.8 1 consistent 1. (low) M=5.3 Mt' =7.2 2. M=5.3 Mt' =7.2 3. M=5.6 Mt' =7.7 4. M=5.5 Mt' =7.5 5. (high) M=5.6 Mt' =7.7

Study	ANDRE 1976/4	<i>Page in Report:</i>	323
<i>Reported in:</i>	Andrews, F.M. & Withey, S.B. Social Indicators of Well-being: Americans' Perceptions of Life Quality Plenum Press, 1976, New York, USA		
<i>Population:</i>	18+ aged, general public, non-institutionalized, USA, 1973/3		
<i>Sample:</i>			
<i>Non-Response:</i>	26%		
<i>N:</i>	1433		

Measured Correlate

Class: . over/under-achievement Code: S 5.2.2.1

Measurement: Combination of family income and the educational attainment of the family head:

1. both low
2. intermediate level
3. , ,
4. , ,
5. both high
6. relatively low income and relatively high education
7. relatively high income and relatively low education

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>		
O-BW/cy/sq/l/9/a	DMt=+	1. (low)	M=5.4	Mt' =5.5
		2.	M=5.8	Mt' =6.0
		3.	M=5.9	Mt' =6.1
		4.	M=6.3	Mt' =6.6
		5. (high)	M=6.7	Mt' =7.1
		6.	M=5.7	Mt' =5.9
		7.	M=6.2	Mt' =6.5
O-GBB/u/sq/c/9/a	DMt=+	1. (low)	M=4.8	Mt' =4.8
		2.	M=5.1	Mt' =5.1
		3.	M=5.4	Mt' =5.5
		4.	M=5.9	Mt' =6.1
		5. (high)	M=6.2	Mt' =6.5
		6.	M=5.3	Mt' =5.4
		7.	M=5.7	Mt' =5.9

Study	ANDRE 1976/4	<i>Page in Report:</i>	141
<i>Reported in:</i>	Andrews, F.M. & Withey, S.B. Social Indicators of Well-being: Americans' Perceptions of Life Quality Plenum Press, 1976, New York, USA		
<i>Population:</i>	18+ aged, general public, non-institutionalized, USA, 1973/3		
<i>Sample:</i>			
<i>Non-Response:</i>	26%		
<i>N:</i>	1433		

Measured Correlate

Class: . over/under-achievement Code: S 5.2.2.1

Measurement: Combination of family income and the educational attainment of the family head:

1. both low
2. intermediate level
3. , ,
4. , ,
5. both high
6. relatively low income and relatively high education
7. relatively high income and relatively low education

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-DT/u/sqrt/v/7/a	$E^2=+.24$	<ol style="list-style-type: none"> 1. (low) M=5.0 Mt' =6.7 2. M=5.3 Mt' =7.2 3. M=5.4 Mt' =7.3 4. M=5.5 Mt' =7.5 5. (high) M=5.7 Mt' =7.8 6. M=5.2 Mt' =7.0 7. M=5.4 Mt' =7.3
	Beta=+.2	β controlled for sociodemographic variables (age, family income, education, race, sex).
	Beta=+.1	β controlled for sociodemographic variables and 8 criterion satisfactions (fun and enjoyment, physical needs met, yourself, how fairly treated, develop self, interesting daily life, adjust to changes, financial security)

Study	BAKKE 1974	<i>Page in Report:</i>	28
<i>Reported in:</i>	Bakker, P. & Berg, N. van de Determinants and correlates of happiness. Unpublished thesis, 1974, Erasmus University Rotterdam, The Netherlands.		
<i>Population:</i>	20-65 aged, general public, The Netherlands, 1968		
<i>Sample:</i>			
<i>Non-Response:</i>	34% refusal and unattainable.		
<i>N:</i>	1552		

Measured Correlate

Class: . over/under-achievement Code: S 5.2.2.1

Measurement: Discrepancy between level of school education and actual occupational status.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HP/g/sq/ol/7/a	G=+.04 ns	Over-achievement : G = +.02 (ns) Under-achievement: G = +.07 (ns)

Study	MOSER 1969	<i>Page in Report:</i>	21
<i>Reported in:</i>	Moser - Peters, C.M.J. Backgrounds of happiness feelings. (In Dutch: Achtergronden van geluksgevoel). Nederlands Instituut voor Preventieve Geneeskunde (NIPG/TNO)1969, Leiden, The Netherlands.		
<i>Population:</i>	Adult, general public, Utrecht, city, The Netherlands, 1967		
<i>Sample:</i>			
<i>Non-Response:</i>	14% unattainable etc.		
<i>N:</i>	300		

Measured Correlate

Class: . over/under-achievement Code: S 5.2.2.1

Measurement: Difference between educational level and occupational level.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HL/c/sq/v/5/c	r= ns	Positive relationship with over-achievement (ns). Negative relationship with under-achievement (ns). Only among those of medium education the underachievers are significantly less happy (05).

Study	BACHM 1970	<i>Page in Report:</i>	242
<i>Reported in:</i>	Bachman, J.G./Kahn, R.L./Mednick, M./Davidson, T.N. Youth in transition. Vol.II: The impact of family background on intelligence in 10th- Ann Arbor, Michigan, 1970, Institute for Social Research.		
<i>Population:</i>	Public highschool boys followed 3 years from grade 10, USA, 1966-69		
<i>Sample:</i>			
<i>Non-Response:</i>	2.8% incomplete information in 1966		
<i>N:</i>	T1:2213, T2: 1886, T3: 1799		

Measured Correlate

Class: Concern about social mobility Code: S 5.3.1

Measurement: 25-item test containing questions on income, status, working hours, requirements, etc. of different occupations (Job Information Test).

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HP/g/mq/v/5/a	r=-.01	ns

Study	BRADB 1965/1	<i>Page in Report:</i>	54
<i>Reported in:</i>	Bradburn, N.M. & Caplovitz D. Reports on happiness Aldine Publishing Company, 1965, Chicago USA		
<i>Population:</i>	Adult, general public, 4 towns, varying in economic prosperity, Illinois, USA, 1962		
<i>Sample:</i>			
<i>Non-Response:</i>	-		
<i>N:</i>	2006		

Measured Correlate

Class: Concern about social mobility Code: S 5.3.1

Measurement: Closed question: not at all / sometimes / often, during last week

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HL/c/sq/v/3/aa	G= - ns	High S. E. S : G' = -.06 (ns) Low S. E. S. : G' = +.01 (ns)

Study	BACHM 1970	<i>Page in Report:</i>	243
<i>Reported in:</i>	Bachman, J.G./Kahn, R.L./Mednick, M./Davidson, T.N. Youth in transition. Vol.II: The impact of family background on intelligence in 10th- Ann Arbor, Michigan, 1970, Institute for Social Research.		
<i>Population:</i>	Public highschool boys followed 3 years from grade 10, USA, 1966-69		
<i>Sample:</i>			
<i>Non-Response:</i>	2.8% incomplete information in 1966		
<i>N:</i>	T1:2213, T2: 1886, T3: 1799		

Measured Correlate

<i>Class:</i>	Aspirations for social advancement Code: S 5.3.2
<i>Measurement:</i>	13-item index of closed questions indicating preference or "a job that doesn't bug me" and preference for "a job that pays off".
<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-HP/g/mq/v/5/a	r=+.16 p<. 001	

Study	BACHM 1970	<i>Page in Report:</i>	243
<i>Reported in:</i>	Bachman, J.G./Kahn, R.L./Mednick, M./Davidson, T.N. Youth in transition. Vol.II: The impact of family background on intelligence in 10th- Ann Arbor, Michigan, 1970, Institute for Social Research.		
<i>Population:</i>	Public highschool boys followed 3 years from grade 10, USA, 1966-69		
<i>Sample:</i>			
<i>Non-Response:</i>	2.8% incomplete information in 1966		
<i>N:</i>	T1:2213, T2: 1886, T3: 1799		

Measured Correlate

Class: Aspirations for social advancement Code: S 5.3.2

Measurement: 6-item index of closed questions indicating preference for: steady job, learning new things, good chances for getting ahead, good pay, using one's skills, nice friendly people.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HP/g/mq/v/5/a	r=+.21 p<. 001	

Study	BACHM 1970	<i>Page in Report:</i>	243
<i>Reported in:</i>	Bachman, J.G./Kahn, R.L./Mednick, M./Davidson, T.N. Youth in transition. Vol.II: The impact of family background on intelligence in 10th- Ann Arbor, Michigan, 1970, Institute for Social Research.		
<i>Population:</i>	Public highschool boys followed 3 years from grade 10, USA, 1966-69		
<i>Sample:</i>			
<i>Non-Response:</i>	2.8% incomplete information in 1966		
<i>N:</i>	T1:2213, T2: 1886, T3: 1799		

Measured Correlate

Class: Aspirations for social advancement Code: S 5.3.2

Measurement: 7-item index of closed questions indicating preference for: no one to boss me, don't have to work too hard, clean job, not a lot of responsibility, lot of free time, high prestige, and not learning a lot of new things.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-HP/g/mq/v/5/a	r=-.05 ns	

Study	PALMO 1972	<i>Page in Report:</i>	70
<i>Reported in:</i>	Palmore, E.B. & Luikart, C. Health and social factors related to life satisfaction. Journal of Health & Social Behavior, 1972, vol. 13, p. 68-80		
<i>Population:</i>	46+ aged, whites, North Carolina, USA, 1968		
<i>Sample:</i>	Probability stratified sample		
<i>Non-Response:</i>			
<i>N:</i>	502		

Measured Correlate

<i>Class:</i>	Aspirations for social advancement Code: S 5.3.2
<i>Measurement:</i>	6-item index of forced choice statements measuring whether a person tends to evaluate success in terms of how far a person has come (downward anchorage) or in terms of how far a person has to go before he reaches the top of his career (upward anchorage). (Career-Anchorage Scale; see Tausky & Dubin, 1965). 0= downward answer 1= upward answer Range 0 -6
<i>Measured Values:</i>	M=2 SD=1.2
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
O-BW/c/sq/l/10/c	r=+.03 ns	

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

Happiness Query Code *Full Text*

A-AOL/g/sq/v/5/a

Selfreport on single question:

"In general, how would you say you feel most of the time - in good spirits or in low spirits....?"

- 5 very good spirits
- 4 fairly good spirits
- 3 neither good spirits nor low spirits
- 2 fairly low spirits
- 1 very low spirits.

M-ACO/u/mq/n/4/a

Selfreport on 6 questions:

- A On the whole, life gives me a lot of pleasure
- B On the whole, I am very satisfied with my life today
- C Things are getting just worse for me as I get older
- D All in all, I find a great deal of happiness today
- E I have a lot to be sad about
- F Nothing ever turn out for me the way I want it

Scoring

- 4 strongly agree
- 3
- 2
- 1 strongly disagree

Computation: simple addition. Possible range 6-24

O-BW/c/sq/l/10/c

Selfreport on single question:

"Here is a picture of a ladder. Suppose we say that the top of the ladder (10) represents the best possible life for you and the bottom (1) represents the worst possible life for you. Where on the ladder do you feel personally stand at the present time?"

- [9] best possible life for you
- [8]
- [7]
- [6]
- [5]
- [4]
- [3]
- [2]
- [1]
- [0] worst possible life for you

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

O-BW/cy/sq/l/9/a

Selfreport on single question:

"Here is a picture of a ladder. At the bottom of the ladder is the worst life you

might reasonably expect to have. At the top is the best life you might expect to have. Of course, life from week to week falls somewhere in between. Where was your life most of the time during the past year?"

- [9] best life you might expect to have
- [8]
- [7]
- [6]
- [5]
- [4]
- [3]
- [2]
- [1] worst life you might expect to have

O-DT/u/sqt/v/7/a Name: Cantril's selfanchoring ladder rating (modified version)
Selfreport on single question, asked twice in interview:

"How do you feel about your life as a whole.....?"

- 7 delighted
- 6 pleased
- 5 mostly satisfied
- 4 mixed
- 3 mostly dissatisfied
- 2 unhappy
- 1 terrible

Summation: arithmetic mean

O-GBB/u/sq/c/9/a Name: Andrews & Withey's "Delighted-Terrible Scale" (original version)
Selfreport on single question:

"Here are some circles that we can imagine represent the lives of different people. Circle eight has all pluses in it, to represent a person who has all the good things in his life. Circle zero has all minuses in it, to represent a person who has all the bad things in his life. Other circles are in between. Which circle do you think comes closest to matching your life?"

(circles not reproduced here)

- 8 + + + + + + + +
- 7 + + + + + + + -
- 6 + + + + + + - -
- 5 + + + + + - - -
- 4 + + + + - - - -
- 3 + + + - - - - -
- 2 + + - - - - - -
- 2 + - - - - - - -
- 0 - - - - - - - -

O-HL/c/sq/v/3/aa Name: Andrews & Withey's 'Circles Scale'
Selfreport on single question:

'Taken all together, how would you say things are these days? Would you say

O-HL/c/sq/v/4/a	<p>that you are....?" 3 very happy 2 pretty happy 1 not too happy Selfreport on single question:</p>
O-HL/c/sq/v/5/c	<p>"Do you feel your life at present is.....?" 4 very happy 3 quite happy 2 quite unhappy 1 very unhappy Selfreport on single question:</p>
O-HL/u/sq/v/4/b	<p>"Taking all things together, how would you say you are these days.....?" 5 extremely happy 4 very happy 3 happy 2 pretty happy 1 not too happy In Dutch: "Hoe gelukkig voelt u zich alles bij elkaar genomen op het ogenblik?" e buitengewoon gelukkig d zeer gelukkig c gelukkig b tamelijk gelukkig a niet zo gelukkig Selfreport on single question:</p>
O-HL/u/sq/v/7/b	<p>"On the whole, how happy would you say you are.....?" 4 very happy 3 fairly happy 2 not very happy 1 very unhappy Selfreport on single question:</p>
O-HP/g/mq/v/5/a	<p>"How do you feel how happy you are.....?" 7 delighted 6 pleased 5 mostly satisfied 4 mixed (about equally satisfied and dissatisfied) 3 mostly 2 unhappy 1 terrible Selfreport on 6 questions:</p>
	<p>" Describe the kind of person you are. Please read each sentence, then mark how often it is true for you" 1 I feel like smiling 2 I generally feel in good spirits 3 I feel happy</p>

-
- 4 I am very satisfied with life
 - 5 I find a good deal of happiness in life
 - 6 I feel sad

Response options:

- 5 almost always true
- 4 often true
- 3 sometimes true
- 2 seldom true
- 1 never true

Summation: average

Possible range: 1 to 5

O-HP/q/sq/ol/7/a

Selfreport on single question:

"Generally speaking are you a happy person.....?"

Responses were made on an open line scale, and were later coded in 7 categories:

- 1 very unhappy
- 2
- 3
- 4
- 5
- 6
- 7 very happy.

Original text in Dutch:

"Bent u over het algemeen een gelukkig mens?"

- a zeer ongelukkig
- b
- c
- d
- e
- f
- g zeer gelukkig

On the web you will find an overview of valid queries on happiness and an explanation of the classification used. Go to: 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*

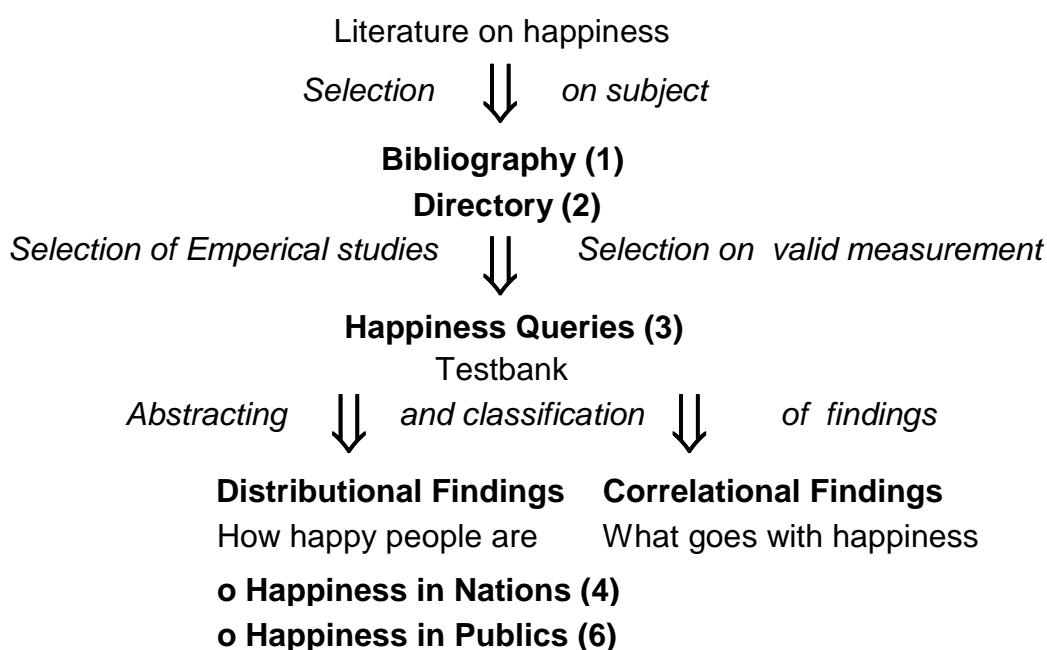
<i>Symbol</i>	<i>Explanation</i>
Beta	<p>(β) STANDARDIZED REGRESSION COEFFICIENT Type: test statistic. Measurement level: Correlates: all metric, Happiness: metric. Range: [-1 ; +1]</p> <p>Meaning: $\beta > 0$ « a higher correlate level corresponds with, on an average, higher happiness rating. $\beta < 0$ « a higher correlate level corresponds with, on an average, lower happiness rating. $\beta = 0$ « no correlation. $\beta = +1$ or -1 « perfect correlation.</p>
DM	<p>DIFFERENCE of MEANS Type: descriptive statistic only. Measurement level: Correlate: dichotomous, Happiness: metric Range: depending on the happiness rating scale of the author; range symmetric about zero.</p> <p>Meaning: the difference of the mean happiness, as measured on the author's rating scale, between the two correlate levels.</p>
DMt	<p>DIFFERENCE of MEANS AFTER TRANSFORMATION Type: descriptive statistic only. Measurement level: Correlate: dichotomous, Happiness: metric Theoretical range: [-10; +10]</p> <p>Meaning: the difference of the mean happiness (happiness measured at a 0-10 rating scale) between the two correlate levels.</p>
E ²	<p>CORRELATION RATIO (Elsewhere sometimes called h^2 or η^2) Type: test statistic Measurement level: Correlate: nominal or ordinal, Happiness: metric Range: [0; 1]</p> <p>Meaning: correlate is accountable for $E^2 \times 100$ % of the variation in happiness. $E^2 = 0$ « knowledge of the correlate value does not improve the prediction quality of the happiness rating. $E^2 = 1$ « knowledge of the correlate value enables an exact prediction of the happiness rating</p>
G	<p>GOODMAN & Kruskal's GAMMA Type: test statistic Measurement level: Correlate: ordinal, Happiness: ordinal Range: [-1; +1]</p> <p>Meaning: $G = 0$ « no rank correlation $G = +1$ « strongest possible rank correlation, where high correlate values correspond with high happiness ratings.</p>

r	<p>G = -1 « strongest possible rank correlation, where high correlate values correspond with low happiness ratings.</p> <p>PRODUCT-MOMENT CORRELATION COEFFICIENT (Also 'Pearson's correlation coefficient' or simply 'correlation coefficient')</p> <p>Type: test statistic.</p> <p>Measurement level: Correlate: metric, Happiness: metric</p> <p>Range: [-1; +1]</p> <p>Meaning:</p> <p>r = 0 « no correlation ,</p> <p>r = 1 « perfect correlation, where high correlate values correspond with high happiness values, and</p> <p>r = -1 « perfect correlation, where high correlate values correspond with low happiness values.</p>
V	<p>CRAMÉR's V</p> <p>Type: test statistic</p> <p>Measurement level: Correlate: nominal, Happiness: ordinal</p> <p>Range: [0; 1]</p> <p>Meaning:</p> <p>V = 0 « no association</p> <p>V = 1 « strongest possible association</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. 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:



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- 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

<i>Main Category's</i>	<i>Category Name</i>	<i>Number of Studies in this Category</i>
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

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

Appendix 5 Related Topics

This Topic

Classification Page 1

Related Topics

In Subject List on Appendix 4

S 5	SOCIAL MOBILITY	L 10.1	Residential career
S 5.1	Mobility career		
S 5.1.1	Earlier social mobility		
S 5.1.2	Change in social mobility		
S 5.1.4	Later social mobility		
S 5.1.4.1	. expected mobility		
S 5.1.4.2	. actual mobility (assessed by follow-up)		
S 5.2	Current social mobility status		
S 5.2.1	Inter-generational mobility	F 1.7	Socio-economic background (earlier for adults, current for young)
S 5.2.2	Intra-generational mobility		
S 5.2.2.1	. over/under-achievement	E 1.2.1	Level of school-education
S 5.3	Attitudes to own social mobility	S 9.4.2	Satisfaction with own status
S 5.3.1	Concern about social mobility		
S 5.3.2	Aspirations for social advancement		
S 5.3.3	Satisfaction with one's social mobility		

End of Report