

# World Database of Happiness



## Correlational Findings on Happiness and EXPRESSIVE BEHAVIOR

Subject Code: E4

© on data collection: [Ruut Veenhoven](#),  
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### Classification of Findings

<i>Subject Code</i>	<i>Description</i>	<i>Nr of Studies on this Subject</i>
E4	EXPRESSIVE BEHAVIOR	0
E4.1	Behavioral career	0
E4.1.1	Earlier expressiveness	1
E4.1.2	Change in expressiveness	0
E4.1.4	Later expressiveness	0
E4.2	Current expressiveness	0
E4.2.2	Specific expressive behaviors	0
E4.2.2.1	. crying often	1
E4.2.2.2	. laughing often	5
E4.2.2.3	. writing firmness	2
E4.3	Attitudes to expressiveness	3
Appendix 1	Happiness Items used	
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Appendix 3	About the World Database of Happiness	
Appendix 4	Further Findings in the World Database of Happiness	
Appendix 5	Related Subjects	

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 Erasmus University Rotterdam, 2009, Netherlands

## Correlational finding on Happiness and Earlier expressiveness

Subject code: E4.1.1

**Study**                    **VENTE 1997**

*Reported in:* Ventegodt, S.  
 Livskvalitet og Omstaedigheder Tidligt I Livet. (The Quality of Life and Factors in  
 Pregnancy, Birth and Infancy).  
 Forskningscenter for Livskvalitet , Forskningscentrets Forlag, København, Denmark,  
 ISBN 8790190130 <http://www.livskvalitet.org/t3/index.asp>  
 Page in Report: 468

*Population:* 31-33 aged, born at the university hospital, Denmark, 1993

*Sample:* Non-probability chunk sample

*Non-Response:* 36%

*N:* 4626

**Correlate**

*Authors label:* Age of first smile

*Our classification:* Earlier expressiveness, code E4.1.1

*Measurement:* Age of first smile as reported in medical file  
 1: 1-2 weeks  
 2: 3-4 weeks  
 3: 5-6 weeks  
 4: 7-8 weeks  
 5: 3-4 months  
 6: later than 4 months

*Measured Values:* N all: 3059, 1:2,3%, 2:18,8%, 3:34,5%, 4:31,8%, 5:11,9%, 6:0,7%

**Observed Relation with Happiness**

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
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**Study**                      **VENTE 1997**

*Reported in:* Ventegodt, S.  
 Livskvalitet og Omstaedigheder Tidligt I Livet. (The Quality of Life and Factors in  
 Pregnancy, Birth and Infancy).  
 Forskningscenter for Livskvalitet , Forskningscentrets Forlag, København, Denmark,  
 ISBN 8790190130 <http://www.livskvalitet.org/t3/index.asp>  
 Page in Report: 396,398

*Population:* 31-33 aged, born at the university hospital, Denmark, 1993

*Sample:* Non-probability chunk sample

*Non-Response:* 36%

*N:* 4626

**Correlate**

*Authors label:* Crying shortly after birth

*Our classification:* . crying often, code E4.2.2.1

*Measurement:* Crying shortly after birth as reported in medical file  
 1: crying normally  
 2: one of the following:  
     2a: no sound  
     2b: crying weakly  
     2c: strong screaming, sounds physiological  
     2d: strong screaming, sounds non-physiological  
 Assessed at day 1 and day 5

*Measured Values:* N day 1 all:4062, 1:51,7, 2a:16,8, 2b:18,5, 2c:12,0, 2d:1,0 N day 5 all:3881, 1:40,0,  
 2a:37,9, 2b:15,2, 2c:6,7, 2d:0,2

**Observed Relation with Happiness**

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
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<u>A-AOL/m/sq/v/5/a</u>	<u>DMt=-</u>	day 1	day 5
		1: Mt=7.69	1:7.73
		2: Mt=7.77	2:7.73
		2a: Mt=7.73	2a:7.76
		2b: Mt=7.69	2b:7.63
		2c: Mt=7.94	2c:7.75
		2d: Mt=7.83	2d:8.34

<u>A-AOL/m/sq/v/5/a</u>	<u>DMt=0</u>	day 5	day 5
		1: Mt=7.73	1:7.45
		2: Mt=7.73	2:7.41
		2a: Mt=7.76	2a:7.44
		2b: Mt=7.63	2b:7.30
		2c: Mt=7.75	2c:7.53
		2d: Mt=8.34	2d:7.78

<u>O-SLu/c/sq/v/5/e</u>	<u>DMt=-</u>	day1	day 5
		1: Mt=7.38	1:7.03
		2: Mt=7.02	2:7.03
		2a: Mt=7.41	2a:7.08
		2b: Mt=7.38	2b:6.88
		2c: Mt=7.56	2c:7.13
		2d: Mt=7.05	2d:7.13

<u>O-SLu/c/sq/v/5/e</u>	<u>DMt=</u>	day 5
		1: Mt=7.45
		2: Mt=7.41
		2a: Mt=7.44
		2b: Mt=7.30
		2c: Mt=7.53
		2d: Mt=7.78

<u>O-HL/c/sq/v/5/h</u>	<u>DMt=</u>	day1
		1: Mt=6.99
		2a: Mt=6.94
		2b: Mt=6.99
		2c: Mt=7.19
		2d: Mt=6.99

O-HL/c/sq/v/5/h

DMt=0

day 5

1: Mt=7.03

2: Mt=7.03

2a: Mt=7.08

2b: Mt=6.88

2c: Mt=7.13

2d: Mt=7.23

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## Correlational finding on Happiness and . laughing often

Subject code: E4.2.2.2

### Study **KAMMA 1983/2**

*Reported in:* Kammann, R.; Flett, R.  
Sourcebook for Measuring Well-Being with Affectometer 2.  
Why Not? Foundation, 1983, Dunedin, New Zealand.  
Page in Report: 75

*Population:* 18+ aged, general public, Dunedin, New Zealand, 1983

*Sample:*

*Non-Response:* 52%

*N:* 112

---

### Correlate

*Authors label:* Cheerfull (1)

*Our classification:* . laughing often, code E4.2.2.2

*Measurement:* Single direct question how one felt during the instructed time period (or otherwise in the past few weeks):  
"I smile and laugh a lot"  
Rated on a 5-point scale ranging from  
'not at all' to 'all the time'

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### Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<u>A-BK/cm/mq/v/5/a</u>	<u>r=+.62</u> <u>p&lt;.01</u>	
<u>M-FH/c/sq/v/7/a</u>	<u>r=+.46</u> <u>p&lt;.01</u>	

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## Correlational finding on Happiness and . laughing often

Subject code: E4.2.2.2

### Study NOELL 1977/7

*Reported in:* Noelle-Neumann, E.  
Politik und Glück. (Politics and Happiness).  
Baier, H.;Ed.: "Freiheit und Sachzwang", West Deutscher Verlag, 1977, Opladen,  
Germany, 208 - 262. ISBN 3 531 11 44 68  
Page in Report: 227

*Population:* 16+ aged, general public, West-Germany, 1973

*Sample:*

*Non-Response:*

*N:* 2035

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### Correlate

*Authors label:* Frequency of laughing (1)

*Our classification:* . laughing often, code E4.2.2.2

*Measurement:* Single direct question:  
How long ago have you really laughed?  
3 yesterday;  
2 in the past two weeks or  
1 longer ago?

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### Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
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A-CA/mh/ri/v/2/aG=+.30  
p<.01

Comparison categories of more and less cheerful looking subjects stratified by sex, age and occupation.

## Correlational finding on Happiness and . laughing often

Subject code: E4.2.2.2

### Study SONDE 1975

*Reported in:* Sondermeijer, B.  
Gezondheid en Geluk. (Health Correlates of Happiness).  
Unpublished report, 1975, Rotterdam, Netherlands  
Page in Report:

*Population:* 40-60 aged male employees, Rotterdam, The Netherlands, 197?

*Sample:*

*Non-Response:* 5%

*N:* 13

### Correlate

*Authors label:* Laughing and singingoften (1)

*Our classification:* . laughing often, code E4.2.2.2

*Measurement:* Single direct question:  
0 No  
1 Yes

### Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<u>M-FH/g/sq/v/2/a</u>	<u>G=+.52</u> <u>p&lt;. 000</u>	
<u>M-FH/g/sq/v/2/a</u>	<u>G=+.52</u> <u>p&lt;. 000</u>	



## Correlational finding on Happiness and . laughing often

Subject code: E4.2.2.2

### Study SONDE 1975

*Reported in:* Sondermeijer, B.  
Gezondheid en Geluk. (Health Correlates of Happiness).  
Unpublished report, 1975, Rotterdam, Netherlands  
Page in Report:

*Population:* 40-60 aged male employees, Rotterdam, The Netherlands, 197?

*Sample:*

*Non-Response:* 5%

*N:* 13

### Correlate

*Authors label:* Laughing and singingoften (2)

*Our classification:* . laughing often, code E4.2.2.2

*Measurement:* Single direct question:  
0 No  
1 Yes

### Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<u>M-FH/g/sq/v/2/a</u>	<u>G=+.52</u> <u>p&lt;.000</u>	

## Correlational finding on Happiness and . laughing often

Subject code: E4.2.2.2

### Study YOUNG 1937A/1

*Reported in:* Young, P.T.

Laughing and Weeping, Cheerfulness and Depression: A Study of Moods among College Students.

Journal of Social Psychology, 1937, Vol. 8, 311 - 334. ISSN 0022 4545

Page in Report: 330

*Population:* College students, psychology course, USA, 1934-35

*Sample:*

*Non-Response:* -

*N:* 180

## Correlate

*Authors label:* Frequency of laughing (1)

*Our classification:* . laughing often, code E4.2.2.2

*Measurement:* Repeated open-ended question on number of occasions one laughed during the past 24 hours; scored twice with an interval of 16 days.

## Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
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<a href="#">A-ARE/md/sqr/v/7/a</a>	$r=+.28$	
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## Correlational finding on Happiness and . writing firmness

Subject code: E4.2.2.3

### Study LUDWI 1971

*Reported in:* Ludwig, L.D.

Elation-Depression and Skill as Determinants of Desire for Excitement.

Unpublished doctoral Dissertation, 1971, University of Wisconsin, USA

Page in Report: 64

*Population:* Female students, undergraduates, University of Wisconsin, USA, 197?

*Sample:*

*Non-Response:* 81%; 61% refusal, 5% eliminated on basis of screening data, 15% miscellaneous re

*N:* 72

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## Correlate

*Authors label:* Writing firmness. (1)

*Our classification:* . writing firmness, code E4.2.2.3

*Measurement:* S's signature.

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## Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<a href="#">A-AOL/u/mq/v/10/a</a>	$r = -.12$ ns	

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Correlational finding on Happiness and . writing firmness  
Subject code: E4.2.2.3

## Study

**NOELL 1977/3**

*Reported in:* Noelle Neumann, E.  
Politik und Glück. (Politics and Happiness).  
Baier, H.;Ed.: "Freiheit und Sachzwang", West Deutscher Verlag, 1977, Opladen,  
Germany, 208 - 262. ISBN 3 531 11 44 68  
Page in Report:

*Population:* 16+ aged, general public, West-Germany, 1973

*Sample:*

*Non-Response:*

*N:* 1041

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## Correlate

*Authors label:* Laughing (1)

*Our classification:* . writing firmness, code E4.2.2.3

*Measurement:* Single direct question: When did you last really burst out laughing heartily?  
 3. yesterday  
 2. in the last two weeks  
 1. or is that sometimes ago

*Remarks:* reported in NOELL 1978 table 14

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## Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<u>A-BB/cw/mq/v/2/a</u>	<u>G=+.30</u> <u>p&lt;.01</u>	
<u>A-BB/cw/mq/v/2/a</u>	<u>tb=+.20</u> <u>p&lt;.01</u>	

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## Correlational finding on Happiness and Attitudes to expressiveness

Subject code: E4.3

### Study SUH 1994

*Reported in:* Suh, E.M.  
 Psychocultural Factors of Subjective Well-Being.  
 Paper presented at the Midwestern Psychological Association Convention, 1994,  
 Chicago, USA (based on Master Thesis, University Illinois, USA)  
 Page in Report: 21

*Population:* College students, Korea, China, and USA, 199?

*Sample:* Non-probability chunk sample

*Non-Response:*

*N:* 217

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## Correlate

*Authors label:* Social desirability of positive emotional traits

*Our classification:* Attitudes to expressiveness, code E4.3

*Measurement:* Ss were asked to rate how desirable or undesirable it is express each personality characteristics in an average situation;

- a affectionate
- b content
- c friendly
- d loving
- e joyful
- f pleased

Each trait was rated on a 7 point scale;  
1 extremely undesirable ...7 extremely desirable

The order of the judgements was counterbalanced

The social desirability of positive emotional traits was constructed by averaging the ratings of six positive emotional traits.

*Measured Values:* Mean = China: 5.70, S-Korea: 5.87, USA: 6.03

## Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<u>A-BD3/cm/mqr/v/7/</u> <u>a</u>	<u>r=+.41</u> <u>p&lt;.001</u>	China
<u>A-BD3/cm/mqr/v/7/</u> <u>a</u>	<u>r=+.13</u> <u>ns</u>	S-Korea
<u>A-BD3/cm/mqr/v/7/</u> <u>a</u>	<u>r=+.08</u> <u>ns</u>	USA

Correlational finding on Happiness and Attitudes to expressiveness  
Subject code: E4.3

Study                      SUH 1994

*Reported in:* Suh, E.M.

Psychocultural Factors of Subjective Well-Being.

Paper presented at the Midwestern Psychological Association Convention, 1994, Chicago, USA (based on Master Thesis, University Illinois, USA)

Page in Report: 21

*Population:* College students, Korea, China, and USA, 199?

*Sample:* Non-probability chunk sample

*Non-Response:*

*N:* 217

---

## Correlate

*Authors label:* Positive emotion desirability

*Our classification:* Attitudes to expressiveness, code E4.3

*Measurement:* Participants were asked to rate how desirable or undesirable it is to experience or express each positive emotions when she/he is with a stranger or a friend average situation;

a joy

b happiness

c friendliness

d satisfaction

rated on a 7 point scale

1 extremely undesirable and inappropriate ... 7 extremely desirable and appropriate

The order of the judgements was counterbalanced

An overall index of positive emotion desirability was obtained by averaging the ratings of the four positive emotions

*Measured Values:* Mean: China=5.43, S-Korea=5.15, USA=6.12

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## Observed Relation with Happiness

*Happiness Measure*

*Statistics Elaboration/Remarks*

<u>A-BD3/cm/mqr/v/7/</u>	<u>r=+.24</u>	China
<u>a</u>	<u>ns</u>	
<u>A-BD3/cm/mqr/v/7/</u>	<u>r=+.03</u>	S-Korea
<u>a</u>	<u>ns</u>	
<u>A-BD3/cm/mqr/v/7/</u>	<u>r=+.15</u>	USA
<u>a</u>	<u>ns</u>	

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## Correlational finding on Happiness and Attitudes to expressiveness

Subject code: E4.3

### Study SUH 1994

*Reported in:* Suh, E.M.  
 Psychocultural Factors of Subjective Well-Being.  
 Paper presented at the Midwestern Psychological Association Convention, 1994,  
 Chicago, USA (based on Master Thesis, University Illinois, USA)  
 Page in Report: 21

*Population:* College students, Korea, China, and USA, 199?

*Sample:* Non-probability chunk sample

*Non-Response:*

*N:* 217

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### Correlate

*Authors label:* Ambivalence over emotional expressiveness

*Our classification:* Attitudes to expressiveness, code E4.3

*Measurement:* Ambivalence over Emotional expressiveness  
 Questionnaire(AEQ, King& Emmons, 1990): 28 items which  
 address ambivalent emotional conditions such as "I want to  
 express my emotions honestly but I am afraid that it may  
 cause me embarrassment or hurt"

rated on a 7 point scale  
 1 never feel that way...7 always feel that way

*Measured Values:* Mean: China=3.84, S-Korea=4.13, USA=3.36

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## Observed Relation with Happiness

<i>Happiness Measure</i>	<i>Statistics</i>	<i>Elaboration/Remarks</i>
<u>A-BD3/cm/mqr/v/7/a</u>	<u>r=-.17 ns</u>	China
<u>A-BD3/cm/mqr/v/7/a</u>	<u>r=-.34</u> <u>p&lt;.001</u>	S-Korea
<u>A-BD3/cm/mqr/v/7/a</u>	<u>r=-.05 ns</u>	USA

## Appendix 1: Happiness Items used

<i>Happiness Item Code</i>	<i>Full Text</i>
A-AOL/m/sq/v/5/a	<p>Single direct question:</p> <p>How are you feeling now....?</p> <p>5 very good</p> <p>4 good</p> <p>3 neither good nor poor</p> <p>2 poor</p> <p>1 very poor</p>
A-AOL/u/mq/v/10/a	<p>Selfreport on 4 questions:</p> <p>"The following are statements of feelings or mood. Please read them over and then indicate which of these overall feelings best describes your feelings."</p> <p>A) Right now you feel .....</p> <p>B) The best you felt today ....</p> <p>C) The worst you felt today ...</p> <p>D) The way you usually feel ...</p> <p>Response options:</p> <p>10. Complete elations, rapturous joy, and soaring ecstasy.</p> <p>9. Very elated and in very high spirits; tremendous delight and buoyancy.</p> <p>8. Elated and in high spirits.</p> <p>7. Feeling very good and cheerful.</p> <p>6. Feeling pretty good, "OK".</p> <p>5. Feeling a little bit low. Just so-so.</p> <p>4. Spirits low and somewhat blue.</p> <p>3. Depressed and feeling very low. Definitely blue.</p>



2. Tremendously depressed. Feeling terrible, really miserable, "just awful".

1. Utter depression and gloom. Completely down. All is black and leaden. Wish it were all over.

Summation: average scores on A,B,C,D.

Name: Elation-Depression Scale (variant)

A-ARE/md/sqr/v/7/a Selfreport on single question, asked twice with an interval of 16 days.

"Consider your experience during the past 24 hours, being as objective and matter-of-fact as possible. Estimate honestly the prevailing or dominant level of your mood, and put a cross through the term which most accurately describes your prevailing feeling".

7 highly elated

6 moderately cheerful

5 mildly cheerful

4 indifferent

3 wildly depressed

2 moderately depressed

1 extremely gloomy

Summation: Average of 32 scores.

A-BB/cw/mq/v/2/a Selfreport on 10 questions:

"During the past week, did you ever feel.....?"

A So restless that you could not sit long in a chair

B Proud, because someone had complimented you

C Very lonely or remote from people?

D Pleased about having accomplished something

E Bored

F On top of the world?

G Depressed

H That things were going your way?

I Upset because someone criticized you?

J Could not do anything, simply because you could not start?

Answer options and scoring:

- yes = 1

- no = 0

Summation:

Positive Affect Score (PAS): summed scores on B,D F,H

Negative Affect Score (NAS): summed scores on A,C,E,G,I,J

Affect Balance Score (ABS): PAS minus NAS

Possible range -6 to +4

Name: Bradburn's 'Affect Balance Scale' (adapted version)

A-BD3/cm/mqr/v/7/ Selfreport of daily mood on 24 questions

a

'Please indicate how much of each emotion you felt in the past month'

A LOVE

Aa Affection

Ab love

Ac caring

Ab fondness

B JOY

Ba joy

Bb happiness

Bc contentment

Bd pride

C FEAR

Ca fear

Cb worry

Cc anxiety

Cd nervous

D ANGER

Da anger

Db irritation

Dc disgust

Dd rage

E SHAME

Ea shame

Eb guilt

Ec regret

Ed embarrassment

F SADNES

Fa sadness

Fb loneliness

Fc unhappiness

Fd depression

Answer options:

1 not at all

2 very slight

3 somewhat

4 moderate amount

5 much

6 very much

7 extremely much

Options presented horizontally

Computation: average A+B minus average C+D+E+F

A-BK/cm/mq/v/5/a Selfreport on 40 questions:

"Over this time period (the last few weeks) I have had the feeling described by":

- A My life is on the right track
- B I seem to be left alone when I don't want to be
- C I feel I can do whatever I want to
- D I think clearly and creatively
- E I feel like a failure
- F Nothing seems very much fun any more
- G I like myself
- H I can't be bothered doing anything
- I I feel close to people around me
- J I feel as though the best years of my life are over
- K My future looks good
- L I have lost interest in other people and don't care about them
- M I have energy to spare
- N I smile and laugh a lot
- O I wish I could change some parts of my life
- P My thoughts go around in useless circles
- Q I can handle any problems that come up
- R My life seems stuck in a rut
- S I feel loved and trusted
- T I feel there must be something wrong with me

"Over this period (the last few weeks), "how often you felt..."

- U Satisfied
- V Lonely
- W Free-and-easy
- X Clear-headed
- Y Helpless
- Z Impatient
- AA Useful
- AB Depressed
- AC Loving
- AD Hopeless
- AE Optimistic
- AF Withdrawn
- AG Enthusiastic
- AH Good-natured
- AI Discontented
- AJ Confused
- AK Confident
- AL Tense
- AM Understood
- AN Insignificant

Answer options;

- 0 not at all
- 1 occasionally
- 2 some of the time

3 often  
4 all the time

Summation:

- Positive Affect score (PAS): mean positive items
  - Negative Affect Score (NAS): mean negative items
  - Affect balance score (ABS): PAS minus NAS
- Possible range: -4 to +4

A-CA/mh/ri/v/2/a

Interviewer-rating of cheerful appearance on 8 aspects

A The look is

- 2) open
- 1) evasive
- impossible to say

B The corners of the mouth turn

- 2) up
- 1) down
- impossible to say

C The posture is

- 2) relaxed, at ease
- 1) rather tense
- impossible to say

D The movements are

- 2) relaxed, at ease
- 1) limited, withdrawn
- impossible to say

E The eyes are

- 2) big, open
- 1) small, screw up
- impossible to say

F The elbows are kept

- 2) not close to the body
- 1) close to the body
- impossible to say

G The lips are more

- 2) broad, full
- 1) thin, pent up
- impossible to say

H All in all the subject looks

- 2) quite cheerful
- 1) not very cheerful
- difficult to say

Scoring: sum of aspect ratings

Name: `Allensbacher Ausdruckstest'

M-FH/c/sq/v/7/a

Selfreport on single question:

"Taking all things together, how would you say you have been this period? Check the phrase that best describes how you have felt."

7 very happy

6 happy

5 somewhat happy

4 mixed (about equally happy and unhappy)

3 somewhat unhappy

2 unhappy

1 very unhappy

M-FH/g/sq/v/2/a

Selfreport on single question:

"Are you generally satisfied? "

2 yes

1 no

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 ullykkelig

1 meget ullykkelig

O-SLu/c/sq/v/5/e

Selfreport on single question:

'How satisfied are you with your life now?'

5 very satisfied

2 satisfied

3 neither satisfied nor dissatisfied

2 dissatisfied

1 very dissatisfied

Original text in Danish:

'Hvor tilfreds er du med dit liv for tiden?'

5 meget tilfreds

4 tilfreds

3 hverken tilfreds eller utilfreds

2 utilfreds

1 meget utilfreds



## Appendix 2: Statistics used

<i>Symbol</i>	<i>Explanation</i>
BMCT	<p>BONFERRONI's MULTIPLE COMPARISON TEST            Type: statistical procedure            Measurement level: Correlate: nominal, Happiness: metric</p> <p>Meaning: if the correlate is measured at c levels, the c mean happiness values can be ranked from low to high. A multiple comparison procedure judges for each of the <math>\frac{1}{2}c(c-1)</math> pairs whether or not they differ significantly. A convenient way to represent the results is by ranking the c means and by underlining them in such a way that means which have a common underlining do NOT differ significantly.</p> <p>When added by us, this test is performed at the 95% confidence level for all the differences together.</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>
G	<p>GOODMAN &amp; 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.            G = -1 « 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')</p> <p>Type: test statistic.</p> <p>Measurement level: Correlate: metric, Happiness: metric</p> <p>Range: [-1; +1]</p> <p>Meaning:</p> <p><math>r = 0</math> « no correlation ,</p> <p><math>r = 1</math> « perfect correlation, where high correlate values correspond with high happiness values, and</p> <p><math>r = -1</math> « perfect correlation, where high correlate values correspond with low happiness values.</p>
tb	<p>KENDALL'S RANK CORRELATION COEFFICIENT TAU-B</p> <p>Type: test statistic</p> <p>Measurement level: Correlate: ordinal, Happiness: ordinal</p> <p>Range: [-1; +1]</p> <p>Meaning:</p> <p><math>tb = 0</math> « no rank correlation</p> <p><math>tb = 1</math> « perfect rank correlation, where high values of the correlate correspond with high happiness ratings.</p> <p><math>tb = -1</math> « perfect rank correlation, where high values of the correlate correspond with low happiness ratings.</p>

## Appendix 3: About the World Database of Happiness

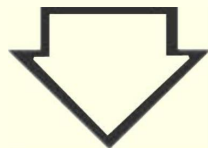
### Structure of the collections

The World Database of Happiness is an ongoing register of scientific research on the subjective enjoyment of life.

It brings together findings that are scattered throughout many studies and provides a basis for synthetic work.

World literature on Happiness

Selection on subject



Bibliography and Directory

Selection of empirical studies



Selection on valid measurement: Item

Bank



## Abstracting and classification of findings



How happy people are, distributional findings  
[Happiness in Nations](#) , [Happiness in Publics](#)

What goes together with happiness  
[Correlational Findings](#)



Listing of comparable findings in Nations



[States of Nations](#) , [Trends in Nations](#)

## Size of the collections

1226 Happiness measures (Item Bank)

4258 Nations surveys in 206 Nations

149 Distinguished publics in 1199 studies

12032 Correlational findings in 1196 studies

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

<i>Main Subjects</i>	<i>Subject Description</i>	<i>Number of Studies</i>
A1	ACTIVITY: LEVEL (how much one does)	58
A2	ACTIVITY: PATTERN (what one does)	32
A3	AFFECTIVE LIFE	48
A4	AGE	400
A5	AGGRESSION	12
A6	ANOMY	32
A7	APPEARANCE (good looks)	15
A8	ATTITUDES	6
A9	AUTHORITARIANISM	4
B1	BIRTH CONTROL	1
B2	BIRTH HISTORY (own birth)	201
B3	BODY	77
C1	CHILDREN	1
C2	CHILDREN: WANT FOR (Parental aspirations)	6
C3	CHILDREN: HAVING (parental status)	195
C4	CHILDREN: CHARACTERISTICS OF ONE'S CHILDREN	25
C5	CHILDREN: RELATION WITH ONE'S CHILDREN	8
C6	CHILDREN: REARING OF ONE'S CHILDREN (parental behavior)	26
C7	COMMUNAL LIVING	9

C8	CONCERNS	18
C9	COPING	43
C10	CREATIVENESS	6
C11	CULTURE (Arts and Sciences)	8
D1	DAILY JOYS & HASSLES	5
E1	EDUCATION	302
E2	EMPLOYMENT	363
E3	ETHNICITY	98
E4	EXPRESSIVE BEHAVIOR	12
F1	FAMILY OF ORIGIN (earlier family for adults, current for young)	236
F2	FAMILY OF PROCREATION	58
F3	FAMILY OF RELATIVES	157
F4	FARMING	25
F5	FREEDOM	32
F6	FRIENDSHIP	152
G1	GENDER	370
G2	GRIEF	1
H1	HABITS	1
H2	HANDICAP	25
H3	HAPPINESS: VIEWS ON HAPPINESS	49
H4	HAPPINESS: DISPERSION OF HAPPINESS	10
H5	HAPPINESS: CAREER	191
H6	HAPPINESS: CORRESPONDENCE OF DIFFERENT MEASURES	310
H7	HAPPINESS OF OTHERS	0
H8	HAPPINESS: REPUTATION OF HAPPINESS	19
H9	HEALTH-BEHAVIOR	25
H10	HELPING	5
H11	HOPE	8
H12	HOUSEHOLD: COMPOSITION	137
H13	HOUSEHOLD: WORK	32
H14	HOUSING	106
I1	INCOME	552
I2	INSTITUTIONAL LIVING	43
I3	INTELLIGENCE	71
I4	INTERESTS	8
I5	INTERVIEW	73
I6	INTIMACY	103
L1	LANGUAGE	2
L2	LEADERSHIP	8

L3	LEISURE	206
L4	LIFE APPRAISALS: OTHER THAN HAPPINESS	368
L5	LIFE CHANGE	35
L6	LIFE EVENTS	86
L7	LIFE GOALS	75
L8	LIFE HISTORY	2
L9	LIFE STYLE	22
L10	LOCAL ENVIRONMENT	374
L11	LOTTERY	8
L12	LOVE-LIFE	31
M1	MARRIAGE: MARITAL STATUS CAREER	64
M2	MARRIAGE: CURRENT MARITAL STATUS	543
M3	MARRIAGE: RELATIONSHIP	115
M4	MARRIAGE: PARTNER	46
M5	MEANING	23
M6	MEDICAL TREATMENT	81
M7	MENTAL HEALTH	218
M8	MIGRATION: TO OTHER COUNTRY	29
M9	MIGRATION: MOVING WITHIN COUNTRY (residential mobility)	17
M10	MIGRATION: MIGRANT WORK	3
M11	MILITARY LIFE	7
M12	MODERNITY	6
M13	MOOD	246
M14	MOTIVATION	7
N1	NATION: NATIONALITY	29
N2	NATION: ERA (temporal period)	41
N3	NATION: NATIONAL CHARACTER (modal personality)	29
N4	NATION: CONDITION IN ONE'S NATION	430
N5	NATION: POSITION OF ONE'S NATION	1
N6	NATION: ATTITUDES TO ONES NATION	152
N7	NATION: LIVABILITY OF ONE'S NATION	17
N8	NATION i: ATTITUDES IN	1
N9	REGION IN NATION	59
N10	NUTRITION	23
N21	ERA	0
O1	OCCUPATION	178
O2	ORGAN TRANSPLANTATION	17
P1	PERSONALITY: HISTORY	48
P2	PERSONALITY: CHANGE	10

P3	PERSONALITY: CURRENT ORGANIZATION	7
P4	PERSONALITY: CURRENT TRAITS	462
P5	PERSONALITY: LATER	23
P6	PHYSICAL HEALTH	427
P7	PLANNING	11
P8	POLITICAL BEHAVIOUR	231
P9	POPULARITY	26
P10	POSSESSIONS	60
P11	PRISON	1
P12	PROBLEMS	25
P13	PSYCHO-SOMATIC COMPLAINTS	62
P14	PETS	3
R1	RELIGION	251
R2	RESOURCES	9
R3	RETIREMENT	89
R4	ROLES	23
S1	SCHOOL	129
S2	SELF-IMAGE	237
S3	SEX-LIFE	61
S4	SLEEP	16
S5	SOCIAL MOBILITY	17
S6	SOCIAL PARTICIPATION: PERSONAL CONTACTS	69
S7	SOCIAL PARTICIPATION : VOLUNTARY ASSOCIATIONS	131
S8	SOCIAL PARTICIPATION: TOTAL (personal + associations)	34
S9	SOCIO-ECONOMIC STATUS	154
S10	SOCIAL SUPPORT: RECEIVED	62
S11	SOCIAL SUPPORT: PROVIDED	6
S12	SPORTS	38
S13	STIMULANTS	49
S14	SUICIDE	8
S15	SUMMED DETERMINANTS	92
T1	TIME	53
T2	THERAPY	38
T3	TOLERANCE	37
V1	VALUES: CAREER	8
V2	VALUES: CURRENT PREFERENCES (own)	73
V3	VALUES: CLIMATE (current values in environment)	7
V4	VALUES: SIMILARITY (current fit with others)	12
V5	VICTIM	14

W1	WAR	5
W2	WISDOM	2
W3	WORK: CAREER	2
W4	WORK: CONDITIONS	68
W5	WORK: ATTITUDES	347
W6	WORK: PERFORMANCE (current)	29
W7	WORRIES	31
XX	UNCLASSIFIED	25

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## Appendix 5: Related Subjects

<i>Subject</i>		<i>Related Subject(s)</i>	
E4.1.1	Earlier expressiveness	P1.2.57	Earlier inhibition
E4.1.1	Earlier expressiveness	P1.2.76	Earlier openness
E4.1.1	Earlier expressiveness	P1.2.101	Earlier self-disclosing
E4.1.4	Later expressiveness	P5.2.76	Later openness
E4.1.4	Later expressiveness	P5.2.101	Later self-disclosure
E4.2.2.1	. crying often	G2	GRIEF
E4.2.2.3	. writing firmness	P4.44	Fortuitous
E4.2.2.3	. writing firmness	P4.117	Vigorous

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