## World Database of Happiness

### Correlational Findings on Happiness and FREEDOM

Subject Code: F5

© on data collection: Ruut Veenhoven, Erasmus University Rotterdam

#### Classification of Findings

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Description</th>
<th>Nr of Studies on this Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>F5</td>
<td>FREEDOM</td>
<td>1</td>
</tr>
<tr>
<td>F5.1</td>
<td>Freedom career</td>
<td>0</td>
</tr>
<tr>
<td>F5.1.1</td>
<td>Earlier freedom</td>
<td>0</td>
</tr>
<tr>
<td>F5.1.2</td>
<td>Change in freedom</td>
<td>3</td>
</tr>
<tr>
<td>F5.1.4</td>
<td>Later freedom</td>
<td>0</td>
</tr>
<tr>
<td>F5.2</td>
<td>Current ability to be free</td>
<td>0</td>
</tr>
<tr>
<td>F5.3</td>
<td>Current absence of restrictions (social freedom)</td>
<td>3</td>
</tr>
<tr>
<td>F5.3.1</td>
<td>Amount of restrictions perceived</td>
<td>10</td>
</tr>
<tr>
<td>F5.3.2</td>
<td>Specific restrictions (perceived and actual)</td>
<td>2</td>
</tr>
<tr>
<td>F5.4</td>
<td>Attitudes to freedom</td>
<td>1</td>
</tr>
<tr>
<td>F5.4.1</td>
<td>Concern about freedom</td>
<td>0</td>
</tr>
<tr>
<td>F5.4.2</td>
<td>Satisfaction with freedom</td>
<td>6</td>
</tr>
<tr>
<td>F5.4.3</td>
<td>Satisfaction with opportunity to change things</td>
<td>6</td>
</tr>
</tbody>
</table>

#### Appendix 1

- Happiness Items 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 Subjects

#### Cite as

Veenhoven, R.: Findings on FREEDOM

World Database of Happiness, Correlational Findings

Internet: worlddatabaseofhappiness.eur.nl

Erasmus University Rotterdam, 2009, Netherlands
Correlational finding on Happiness and FREEDOM

Subject code: F5

Study


Page in Report: 8

Population: Adults, 80 counties, 1990-2004

Sample: Mixed samples

Non-Response:

N: 259947

Correlate

Authors label: Freedom

Our classification: FREEDOM, code F5

Measurement: The degree of freedom of choice and control an individual has over his life, on a 1-10 scale (1= not at all, 10= a great deal)

Measured Values: Range 1-10, M= 6.63 SD= 2.45

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLW/csq/n/10/a</td>
<td>B =+3.1</td>
<td>B (+3.12) controlled for:</td>
</tr>
<tr>
<td></td>
<td>p&lt;05</td>
<td>- member of voluntary organization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- active in voluntary organization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- income</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- self rated health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- unemployed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- married</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- education</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- age</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- gender</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- religion perceived as important</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- trust in people</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- honesty (cheating on tax justifiable or not)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- individual country dummies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- time dummies for survey waves</td>
</tr>
</tbody>
</table>

B means 1 point extra freedom goes with 0.30 point greater happiness on scale 1-10 (3.12 on scale 10-100)
**Correlational finding on Happiness and Change in freedom**

**Subject code: F5.1.2**

**Study**

*Reported in:* Graney, M.J.

The Affect Balance Scale and Old Age.


Page in Report: 7

*Population:* 62-89 aged females, followed 4 years USA, 1967-71

*Sample:

Non-Response: 27%; 24% unattainable, 3% incomplete.

N: 44

---

**Correlate**

*Authors label:* Gains in social status over 4 years. (3)

*Our classification:* Change in freedom, code F5.1.2

*Measurement:

Comparison of T1 and T2.

A significant move to a fully independent household, marriage, and taking paying employment were defined as status gains. Institutionalization, the death of supportive family members and friends, and recent geographic dispersion of supportive children were defined as losses.

Ss classified as having experienced: losses / no change / gains

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**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mg/v/2/a</td>
<td>( t_b = +1.3\ ns )</td>
<td>At T1 all Ss were in good health, able to care for themselves and lived alone. Happiness assessed at T2.</td>
</tr>
</tbody>
</table>

- % happy at T2:
  - losses 22%
  - no change 28%
  - gains 40%
**Study**

**KAINU 1998**


**Populations:** 18+ aged, general public, non-institutionalized, former province Kuopio, Finland, 1991-'96.

**Sample:** Probability sample (unspecified)

**Non-Response:** not rep

**N:** 2682

---

**Correlate**

**Authors label:** Becoming dependent upon others (1)

**Our classification:** Change in freedom, code F5.1.2

**Measurement:** Have you experienced becoming dependent upon others
(a) during the last year?
(b) ever in your life?
Answers: No(=0) or Yes(=1).

**Measured Values:** Never: N = 2153 Ever in your life: N = 275

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLu/c/sq/v/5/g</td>
<td>r = .08</td>
<td>during the last year</td>
</tr>
<tr>
<td>O-SLu/c/sq/v/5/g</td>
<td>r = .12</td>
<td>ever in your life</td>
</tr>
</tbody>
</table>
| O-SLu/c/sq/v/5/g   | DM =       | never: M = 3.90
|                   |            | ever in your life: M = 3.58
|                   |            | 95% CI for difference: [0.20 ; 0.44] |

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**Correlational finding on Happiness and Change in freedom**

**Subject code:** F5.1.2

**Study**

**LANGE 1976**
Findings on Happiness and FREEDOM

Reported in: Langer, E.J.; Rodin, J.
Page in Report: 196

Population: Nursing home residents, Hamden, Connecticut, USA, 1973

Sample:
Non-Response: 51%
N: 45

Correlate

Authors label: Boosting of responsibility and choice (1)
Our classification: Change in freedom, code F5.1.2
Measurement: In nursing home two floors selected because of similarity in residents' characteristics. A different floor was randomly selected for each treatment. The nursing home administrator called a meeting in the lounge of each floor where she delivered two communications. 0 Comparison group: 2nd floor, the administrator stressed staff responsibility 1 Experimental group: 4th floor, the administrator emphasized respondents responsibility for themselves

Happiness was assessed 1 week prior to the communication (T1) and 3 weeks after (T2).

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/g/sq/n/8/a</td>
<td>DMt=+p&lt;05</td>
<td>Mean happiness (Mt) pre and post treatment. (Mt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>T1       T2       CHANGE</td>
</tr>
<tr>
<td>-Experiment</td>
<td>6.31</td>
<td>6.65</td>
</tr>
<tr>
<td>-Comparison group</td>
<td>5.99</td>
<td>5.84</td>
</tr>
</tbody>
</table>

The difference in change was significant at 0.05 level.

Correlational finding on Happiness and Current absence of restrictions (social freedom)
Subject code: F5.3

Study MATIK 2002
Findings on Happiness and Freedom


Page in Report: 17

Population: 18-77 aged intellectually disabled, Finland, 2002

Sample: Non-probability purposive sample

Non-Response: 15%

N: 376

Correlate

Authors label: Personal Control (1)

Our classification: Current absence of restrictions (social freedom), code F5.3

Measurement: Self report on 9 questions concerning choices in their everyday setting

- Did you choose where to live (in which institution, group home or apartment)?
- Do you have a key to your own apartment or to your own room?
- Can you take a snack whenever you want?
- Do you cook at least once a week?
- Do you have your own bank account where you can draw money?
- Do you have any domestic chores that you are responsible for?
- Can you ask your friends to visit whenever you want to?
- Does anybody read your mail without your permission?
- Did someone else choose your furniture or carpets?

Response option: 'yes', 'no', 'don't know'

Measured Values: M=74.22, SD=(20.68

Error Estimates: Alpha=.62

Remarks: The theoretical range of the scale is 0-100

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/u/sq/v/2/a</td>
<td>T=3.5</td>
<td>Mean control score</td>
</tr>
<tr>
<td></td>
<td>p&lt;.01</td>
<td>Happy = 75.76(SD=19.38)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not happy = 65.45(SD=25.42)</td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Current absence of restrictions (social freedom)
Subject code: F5.3

Study MATIK 2002

Reported in: Matikka, L.M; Ojanen, M.
Happiness in Persons with Intellectual Disabilities.
Working paper of FAMR Research Unit, 2002, Helsinki, Finland
Page in Report: 17

Population: 18-77 aged intellectually disabled, Finland, 2002

Sample: Non-probability purposive sample

Non-Response: 15%

N: 376

Correlate

Authors label: Personal Control (2)

Our classification: Current absence of restrictions (social freedom), code F5.3

Measurement: Report of proxy, usually a staff member who knew the subject well, on 6 questions

- Does the person have his/her own room?
- Can the person invite his/her family and friends over, even for the night?
- Does the person move freely around the area close to his/her home?
- Has the person been able to choose furniture or fabrics in the home him/herself?
- Does the person have a key to his/her own home or room?
- Can the person decide who he/she lives with?

response option: 'yes', 'no', 'don't know'

Measured Values: M= 80.54, SD=23.47

Error Estimates: Alpha=+.68

Remarks: The theoretical range of the scale is 0-100

Observed Relation with Happiness

Happiness Measure Statistics Elaboration/Remarks

O-HL/u/sq/v/2/a T=1.5 ns Mean control:
Happy = 81.26(SD=23.16)
Not happy = 75.58(SD=25.23)

Correlational finding on Happiness and Current absence of restrictions (social freedom)
Findings on Happiness and FREEDOM

Subject code: F5.3

Study UGLAN 2006

Reported in: Uglanova, E. 
Data Independent Institute for Social Policy, 2006, Russia http://sofist.socpol.ru
Page in Report: question 25

Population: 16+ aged, Russia, 1993

Sample: Probability multi-stage cluster sample

Non-Response: ?

N: 2018

Correlate

Authors label: Perceived feeling of freedom

Our classification: Current absence of restrictions (social freedom), code F5.3

Measurement: Do you feel yourself free in our society?
1 not
2 rather not
3 rather yes
4 yes
- DK/NA

Measured Values: N =1: 24,3% 2: 29,2% 3: 20,4% 4: 10,7% DK/NA: 15,5%

Observed Relation with Happiness

Happiness Measure Statistics Elaboration/Remarks
O-SLW/c/sq/v/4/g DM=>+ 1: M = 2,23
2: M = 2,42
3: M = 2,76
4: M = 3,06

O-SLW/c/sq/v/4/g rs=+.44 p<.000

Correlational finding on Happiness and Amount of restrictions perceived

Subject code: F5.3.1

Study ALLAR 1973/1

Population: 15-64 aged, general public, Denmark, 1972
Sample: Probability multistage stratified area sample
Non-Response: 
N: 1000

Correlate

Authors label: Possibilities to decide on matters concerning one's life (1)
Our classification: Amount of restrictions perceived, code F5.3.1
Measurement: Answer categories: great, small, no

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/4/a</td>
<td>rpc=+.15</td>
<td>Controlled for: Income, housing density, education, social status, chronic illness, anxiety, frequency of meetings with relatives, number of friends, opportunities to make personal contacts, number of memberships in clubs and associations, interesting life, easyness of life, loneliness, feelings of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.</td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Amount of restrictions perceived
Subject code: F5.3.1

Study

Reported in: Allardt, E.
Page in Report:

Population: 15-64 aged, general public, Finland, 1972
Sample: Probability multistage stratified area sample
Non-Response:
Findings on Happiness and FREEDOM

N: 1000

Correlate

Authors label: Possibilities to decide on matters concerning one's life (1)

Our classification: Amount of restrictions perceived, code F5.3.1

Measurement: Answer categories: great, small, no

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/4/a</td>
<td>rpc=+.26</td>
<td>Controlled for: Income, housing density, education, social status, chronic illness, anxiety, frequency of meetings with relatives, number of friends, opportunities to make personal contacts, number of memberships in clubs and associations, interesting life, easyyness of life, loneliness, feelings of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.</td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Amount of restrictions perceived

Subject code: F5.3.1

Study

ALLAR 1973/3

Reported in: Allardt, E.

Population: 15-64 aged, general public, Norway, 1972

Sample: Probability multistage stratified area sample

Non-Response:

N: 1000

Correlate

Authors label: Possibilities to decide on matters concerning one's life (1)

Our classification: Amount of restrictions perceived, code F5.3.1
Findings on Happiness and Freedom

Measurement: Answer categories: great, small, no

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/4/a</td>
<td>rpc=.19</td>
<td>Controlled for: Income, housing density, education, social status, chronic illness, anxiety, freq. of meetings with relatives, opportunities to make personal contacts, possibilities to decide on matters concerning one's own personal life, no. of memberships in clubs and associations, interesting life, easyness of life, loneliness, feeling of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.</td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Amount of restrictions perceived
Subject code: F5.3.1

Study

ALLAR 1973/4


Population: 15-64 aged, general public, Sweden, 1972

Sample: Probability multistage stratified area sample

Non-Response:

N: 1000

Correlate

Authors label: Possibilities to decide on matters conc. one's life (1)

Our classification: Amount of restrictions perceived, code F5.3.1

Measurement: Answer categories: great, small, no
Findings on Happiness and FREEDOM

Controlled for: Income, housing density, education, social status, chronic illness, anxiety, frequency of meetings with relatives, number of friends, opportunities to make personal contacts, number of memberships in clubs and associations, interesting life, easyness of life, loneliness, feelings of being liked, feeling of being able to use knowledge and skills, feeling of chance to succeed, gets sufficient attention, satisfaction with income, age, gender, no. of communities in which lived.

Correlational finding on Happiness and Amount of restrictions perceived

Subject code: F5.3.1

Study

Reported in: Bortner, R.W.; Hultsch, D.F.
A Multivariate Analysis of Correlates of Life Satisfaction in Adulthood.
Page in Report: 44

Population: 21+ aged, general public, USA 1959

Sample:
Non-Response: 9%

N: 1301

Correlate

Authors label: Opportunities to do what you would like to do (1)

Our classification: Amount of restrictions perceived, code F5.3.1

Measurement: Closed question rated on an 11-point self-anchoring scale

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLP/c/sq/l/11/a</td>
<td>r=+.43</td>
<td></td>
</tr>
<tr>
<td>C-RG/h/sq/l/11/a</td>
<td>r=+.39</td>
<td></td>
</tr>
<tr>
<td>C-BW/c/sq/l/11/a</td>
<td>r=+.33</td>
<td></td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Amount of restrictions perceived

Subject code: F5.3.1
Findings on Happiness and FREEDOM

**Study**

**CANTR 1965/2**

**Reported in:** Cantril, H.
The Pattern of Human Concern.
Rutgers University Press, 1965, New Brunswick, New Jersey, USA
Page in Report: 268-415

**Population:** 21+ aged, general public, USA, 1959

**Sample:**

**Non-Response:** -

**N:** 1549

**Correlate**

**Authors label:** Extent of opportunity to do what one likes (1)

**Our classification:** Amount of restrictions perceived, code F5.3.1

**Measurement:** Closed question rated on an 11-point self-anchoring scale.

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLP/c/sq/l/11/a</td>
<td>r=+.46</td>
<td></td>
</tr>
<tr>
<td>C-RG/h/sq/l/11/a</td>
<td>r=+.36</td>
<td></td>
</tr>
<tr>
<td>C-BW/c/sq/l/11/a</td>
<td>r=+.32</td>
<td></td>
</tr>
</tbody>
</table>

**Correlational finding on Happiness and Amount of restrictions perceived**

**Subject code:** F5.3.1

**Study**

**GUNDE 2004**

**Reported in:** Gundelach, P.; Kreiner, S.
Happiness and Life Satisfaction in Advanced European Countries.
Page in Report: 369

**Population:** 18 + aged, 9 advanced countries, Western Europe, 1999

**Sample:** Non-probability purposive sample

**Non-Response:**

**N:** 10517

**Correlate**
Authors label: Perceived freedom and control in life

Our classification: Amount of restrictions perceived, code F5.3.1

Measurement: Selfreport on single question:
Some people feel they have completely free choice and control over their lives, while other people feel that what they do has no real effect on what happens to them. Please use this scale where 1 means "none at all" and 10 means "a great deal" to indicate how much freedom of choice and control you feel you have over the way your life turns out.

Remarks: Data weighed

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
</table>
| O-HL/u/sq/v/4/a    | Gs=>.15    | Gs controlled for:
|                   |            |       - country of residence
|                   |            |       - report of living in an stable relationship
|                   |            |       - life-satisfaction (see below) |
| O-SLW/c/sq/n/10/a  | Gs=+.37    | Gs controlled for:
|                   |            |       - country of residence
|                   |            |       - stable relationship or not |
| O-SLW/c/sq/n/10/a  |            | Very satisfied Ss only (score 10, N = 1,892) |
Correlational finding on Happiness and Amount of restrictions perceived
Subject code: F5.3.1

Study HOLLO 1999

Page in Report: 262

Population: Mental patients, followed 3 years, UK 1990-1993

Sample: Non-probability purposive sample

Non-Response: 0

N: 70

Correlate

Authors label: Freedom

Our classification: Amount of restrictions perceived, code F5.3.1
**Findings on Happiness and FREEDOM**

**Measurement:** Selfreport on the following questions:
- I can spend time by myself (in privicy) when I want to
- I choose how my home is decorated
- I myself choose in the present house
- I have a bank or post office account from which I can withdraw money
- Mealtimes are changed to fit in my plans
- I choose for myself what I do in spare time
- I have voted in elections
- I have my own personal possessions
- I earn some money (other than benefit or pension)
- I choose my own clothes

**Remarks:** Subscale of Life Experience Checklist (LEC) [Ager 1990]

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**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v7/a</td>
<td>r=+.35</td>
<td></td>
</tr>
<tr>
<td></td>
<td>p&lt;.006</td>
<td></td>
</tr>
<tr>
<td>O-DT/u/sqt/v7/a</td>
<td>rpc=+.39</td>
<td>rpc controled for depression as measured with Beck Depression Inventory</td>
</tr>
<tr>
<td></td>
<td>p&lt;.005</td>
<td></td>
</tr>
</tbody>
</table>

**Correlational finding on Happiness and Amount of restrictions perceived**

**Subject code: F5.3.1**

**Study**

**TOWNS 1981**

**Reported in:** Townsend, A.; Gurin, P.  
Re-Examining the Frustrated Homemaker Hypothesis: Role Fit, Personal Dissatisfaction, and Collective Discontent.  
Page in Report: 486

**Population:** 18+ aged, white women, USA, 1972

**Sample:**

**Non-Response:**

N: 946

**Correlate**

**Authors label:** Sense of restriction (1)

**Our classification:** Amount of restrictions perceived, code F5.3.1
Findings on Happiness and FREEDOM

Measurement: "Do you think you have had a fair opportunity to make the most of yourself in life(1), or have you been held back in some ways(2)?"

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
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</tr>
</thead>
<tbody>
<tr>
<td>C-RA/h/sq/v/2/a</td>
<td>r=-.37</td>
<td></td>
</tr>
<tr>
<td>O-SLu/c/sq/v/3/b</td>
<td>r=-.22</td>
<td></td>
</tr>
<tr>
<td>O-SLu/c/sq/v/3/b</td>
<td>r=-.22</td>
<td></td>
</tr>
<tr>
<td>C-RA/h/sq/v/2/a</td>
<td>r=-.37</td>
<td></td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Amount of restrictions perceived
Subject code: F5.3.1

Study UGLAN 2006


Population: 16+ aged, Russia, 1993
Sample: Probability multi-stage cluster sample
Non-Response: ?

N: 2018

Correlate

Authors label: Perceived feeling of freedom
Our classification: Amount of restrictions perceived, code F5.3.1
Measurement: Do you feel yourself free in our society?
1 not
2 rather not
3 rather yes
4 yes
- DK/NA

Measured Values: N = 1: 24,3% 2: 29,2% 3: 20,4% 4: 10,7% DK/NA: 15,5%
Findings on Happiness and FREEDOM

Happiness Measure | Statistics | Elaboration/Remarks
--- | --- | ---
O-SLW/c/sq/v/4/g | DM=+1: M = 2,23<br>2: M = 2,42<br>3: M = 2,76<br>4: M = 3,06 | 
O-SLW/c/sq/v/4/g | rs=+.44<br>p<.000 | 

Correlational finding on Happiness and Specific restrictions (perceived and actual)

**Subject code: F5.3.2**

**Study**

**VEENH 1996**

*Reported in:*
Veenhoven, R.
Leefbaarheid van Landen. (Livability of Nations).
Page in Report: 42

*Population:*
Adults, 48 nations, around 1990

*Sample:*
Probability sample (unspecified)

*Non-Response:*

N: 75000

**Correlate**

*Authors label:*
Acceptation of homosexuality

*Our classification:*
Specific restrictions (perceived and actual), code F5.3.2

*Measurement:*
Average response to survey question:
Please tell me for homosexuality whether it can
1: never be justified
.
.
10: always be justified

*Remarks:*
Data: World Value Survey 2 1990-92, Ann Arbor, Michigan, USA

**Observed Relation with Happiness**

Happiness Measure | Statistics | Elaboration/Remarks
Findings on Happiness and FREEDOM

Y-LH/l/yh/n/100/a  \( r = +.72 \) Happy Life Years by Acceptation of homosexuality in 42 nations

Y-LH/l/yh/n/100/a  \( rpc = +.38 \) rpc controlled for buying power per capita

---

**Correlational finding on Happiness and Specific restrictions (perceived and actual)**

**Subject code: F5.3.2**

**Study**

**VEENH 2002A**

**Reported in:** Veenhoven, R.
Bevrijde Sexualiteit. (Liberated Sexuality).
Page in Report: 380, 382

**Population:** Adults, 42 nations, 1990

**Sample:** Probability sample (unspecified)

**Non-Response:**

\( N: 50000 \)

**Correlate**

**Authors label:** Sexual freedom

**Our classification:** Specific restrictions (perceived and actual), code F5.3.2

**Measurement:** Public acceptance of homosexuality indicated by response to survey question:

Please tell me for each of the following statements whether you think it can always be justified, never be justified, or something in between. "Homosexuality"
1 never justifiable ... 10 always justifiable.

**Remarks:** Data: WVS (World Value Surveys Cumulative file 6160, ICPRS, Ann Arbor Michagan)

---

**Observed Relation with Happiness**

**Happiness Measure**

**Y-LH/l/yh/n/100/a**

**Statistics** \( r = +.72 \)

**Elaboration/Remarks**

Happy Life Years by Acceptance of homosexuality in 42 nations
Figuur 2
Acceptatie homoseksualiteit en gemiddelde levensvoldoening in 42 landen 1990

publieke acceptatie homoseksualiteit

gemiddeld aantal gelukkige levensjaren per inwoner

Y-LH/l/yh/n/100/a rpc=+.38 rpc controlled for buying power per capita
## Correlational finding on Happiness and Attitudes to freedom

**Subject code: F5.4**

### Study

**Reported in:** Deen, N.; Wilcke, E.; Verheggen, P.P.  
Projectpapier 10164 Motivation i.o.o. Randstad (Temp Agency), 2005, Amsterdam, Netherlands.  
Page in Report: 38,39

**Population:** 16-64 aged workers, The Netherlands, 2005  
**Sample:** Probability systematic sample  
**Non-Response:** ?  
**N:** 3202

### Correlate

**Authors label:** Satisfaction with possibility to escape daily life  
**Our classification:** Attitudes to freedom, code F5.4  
**Measurement:** Selfreport of satisfaction with possibility to escape daily life  
Rated 1 very dissatisfied tot 5 very satisfied.

**Measured Values:** (very) dissatisfied:19%; neutral: 23%; (very) satisfied: 58%

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
</table>
| O-HP/u/sq/n/10/a   | DM =>+     | dissatisfied: M=6,2  
satisfied: M=7,5 |
| O-HP/u/sq/n/10/a   | r=+.35     |                     |

## Correlational finding on Happiness and Satisfaction with freedom

**Subject code: F5.4.2**

### Study

**Reported in:** Andrews, F.M.; Withey, S.B.  
Social Indicators of Well-being: Americans' Perceptions of Life Quality  
Page in Report: 112

**Population:** 18+ aged, general public, non-institutionalized, USA, 1973/3
Findings on Happiness and FREEDOM

Sample:
Non-Response: 26%
N: 1433

Correlate

Authors label: Satisfaction with independence (1)
Our classification: Satisfaction with freedom, code F5.4.2
Measurement: Closed question: "How do you feel about your independence or freedom - the chance you have to do what you want."
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

Observed Relation with Happiness

Happiness Measure Statistics Elaboration/Remarks
O-DT/u/sqt/v/7/a $E^2=+.43$

Correlational finding on Happiness and Satisfaction with freedom
Subject code: F5.4.2

Study ANDRE 1976/4

Reported in: Andrews, F.M.; Withey, S.B.
Social Indicators of Well-being: Americans' Perceptions of Life Quality
Page in Report: 112

Population: 18+ aged, general public, non-institutionalized, USA, 1973/3
Sample:
Non-Response: 26%
N: 1433

Correlate

Authors label: Satisfaction with independance (1)
Our classification: Satisfaction with freedom, code F5.4.2
Measurement: Closed question: "How do you feel about your independence or freedom - the chance you have to do what you want."
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

Correlational finding on Happiness and Satisfaction with freedom
Subject code: F5.4.2

Study  ANDRE 1976/4

Reported in: Andrews, F.M.; Withey, S.B.
Social Indicators of Well-being: Americans' Perceptions of Life Quality
Page in Report: 112

Population: 18+ aged, general public, non-institutionalized, USA, 1973/3

Sample:
Non-Response: 26%
N: 1433

Correlate

Authors label: Satisfaction with independance (2)
Our classification: Satisfaction with freedom, code F5.4.2
Measurement: Closed question: "How do you feel about your independence or freedom - the chance you have to do what you want."
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted
Findings on Happiness and FREEDOM

Population: 18+ aged, general public, non-institutionalized, USA, 1973/7

Sample:

Non-Response:

N: 222

Correlate

Authors label: Satisfaction with independence (1)

Our classification: Satisfaction with freedom, code F5.4.2

Measurement: 2-item index of questions "How do you feel about....?"
1. the variety and diversity in life
2. independence and freedom (i.e. the change you have to do what you want.
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

Observed Relation with Happiness

Happiness Measure Statistics Elaboration/Remarks
O-DT/u/sqt/v/7/a r=+.62

Correlational finding on Happiness and Satisfaction with freedom
Subject code: F5.4.2

Study

Reported in: Andrews, F.M.; Withey, S.B.
Social Indicators of Well-being: Americans' Perceptions of Life Quality
Page in Report: 112

Population: 18+ aged, general public, non-institutionalized, USA, 1973/7

Sample:

Non-Response:

N: 222

Correlate

Authors label: Satisfaction with independence (1)

Our classification: Satisfaction with freedom, code F5.4.2
Findings on Happiness and FREEDOM

Measurement: 2-item index of questions "How do you feel about....?"
  a. the variety and diversity in life
  b. independence and freedom (i.e. the change you have to do what you want.

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

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>r=+.62</td>
<td></td>
</tr>
</tbody>
</table>

Correlational finding on Happiness and Satisfaction with freedom
Subject code: F5.4.2

Study

Reported in: Headey, B.
The Quality of Life in Australia
Social Indicators Research, 1981, Vol. 9, 155 - 18. ISSN p 0303 8300; ISSN e 1573 0921 DOI:10.1007/BF00286195
Page in Report: 166

Population: Adults, general public, Australia 1978

Sample: Probability sample (unspecified)

Non-Response: not reported

N: 679

Correlate

Authors label: Privacy index

Our classification: Satisfaction with freedom, code F5.4.2

Measurement: Index of 3 single questions on satisfaction with:
  a: The extent to which you are in touch with your own feelings
  b: Your independence or freedom: the chance you have to do what you want
  c: The privacy you have: being alone when you want to
All scored on a 1-9 rating scale, summation by average.
Findings on Happiness and FREEDOM

**Measured Values:** \( M = 6.6 \ SD = 1.2 \)

**Remarks:** All items scored on the same rating scale as the question on happiness.

---

## Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/9/a</td>
<td>( r = +.40 )</td>
<td>( p &lt; .001 )</td>
</tr>
</tbody>
</table>

---

**Correlational finding on Happiness and Satisfaction with opportunity to change things**  
**Subject code:** F5.4.3

**Study**  
ANDRE 1976/3

**Reported in:** Andrews, F.M.; Withey, S.B.  
Social Indicators of Well-being: Americans' Perceptions of Life Quality  
Page in Report: 112

**Population:** 18+ aged, general public, non institutionalized, USA, 1972/11

**Sample:**
- Non-Response: 38%
- \( N: 1072 \)

**Correlate**

**Authors label:** Satisfaction with opportunity to change things (1)  
**Our classification:** Satisfaction with opportunity to change things, code F5.4.3  
**Measurement:** Closed question: "How do you feel about the opportunity to change things around that you don't like?"  
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>( E^2 = +.37 )</td>
<td></td>
</tr>
</tbody>
</table>

---

**Correlational finding on Happiness and Satisfaction with opportunity to change things**  
**Subject code:** F5.4.3
### Study

**ANDRE 1976/3**

*Reported in:* Andrews, F.M.; Withey, S.B.
Social Indicators of Well-being: Americans’ Perceptions of Life Quality
Page in Report: 112

*Population:* 18+ aged, general public, non institutionalized, USA, 1972/11

*Sample:*

*Non-Response:* 38%

*N:* 1072

### Correlate

*Authors label:* Satisfaction with opportunity to change things (3)

*Our classification:* Satisfaction with opportunity to change things, code F5.4.3

*Measurement:* Closed question: "How do you feel about the opportunity to change things around that you don't like?"
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>$E^2=+.37$</td>
<td></td>
</tr>
</tbody>
</table>

**Correlational finding on Happiness and Satisfaction with opportunity to change things**

**Subject code: F5.4.3**
**Findings on Happiness and FREEDOM**

**Authors label:** Satisfaction with opportunity to change things (4)  
**Our classification:** Satisfaction with opportunity to change things, code F5.4.3  
**Measurement:** Closed question: "How do you feel about the opportunity to change things around that you don't like?"  
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>E²=+.37</td>
<td></td>
</tr>
</tbody>
</table>

**Correlational finding on Happiness and Satisfaction with opportunity to change things**

**Subject code:** F5.4.3

**Study**  
**ANDRE 1976/5**

**Reported in:** Andrews, F.M.; Withey, S.B.  
Social Indicators of Well-being: Americans’ Perceptions of Life Quality  
Page in Report: 112

**Population:** 18+ aged, general public, non-institutionalized, USA, 1973/7

**Sample:**

**Non-Response:**

N: 222

---

**Correlate**

**Authors label:** Satisfaction with opportunity to change things (2)  
**Our classification:** Satisfaction with opportunity to change things, code F5.4.3  
**Measurement:** Closed question: "How do you feel about the opportunity to change things around that you don't like?"  
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Measure</th>
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<th>Elaboration/Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>r=+.30</td>
<td></td>
</tr>
</tbody>
</table>
Correlational finding on Happiness and Satisfaction with opportunity to change things
Subject code: F5.4.3

Study

ANDRE 1976/5

Reported in: Andrews, F.M.; Withey, S.B.
Social Indicators of Well-being: Americans' Perceptions of Life Quality
Page in Report: 112

Population: 18+ aged, general public, non-institutionalized, USA, 1973/7

Sample:

Non-Response:

N: 222

Correlate

Authors label: Satisfaction with opportunity to change things (1)

Our classification: Satisfaction with opportunity to change things, code F5.4.3

Measurement: Closed question: "How do you feel about the opportunity to change things around that you don't like?"
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

Observed Relation with Happiness

Happiness Measure Statistics Elaboration/Remarks

O-DT/u/sqt/v/7/a r=+.30

Correlational finding on Happiness and Satisfaction with opportunity to change things
Subject code: F5.4.3

Study

ANDRE 1976/5

Reported in: Andrews, F.M.; Withey, S.B.
Social Indicators of Well-being: Americans' Perceptions of Life Quality
Page in Report: 112

Population: 18+ aged, general public, non-institutionalized, USA, 1973/7

Sample:

Non-Response:

N: 222
Correlate

Authors label: Satisfaction with opportunity to change things (1)

Our classification: Satisfaction with opportunity to change things, code F5.4.3

Measurement: Closed question: "How do you feel about the opportunity to change things around that you don't like?"
Rated:
1 terrible
2 unhappy
3 mostly dissatisfied
4 mixed
5 mostly satisfied
6 pleased
7 delighted

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Measure</th>
<th>Statistics</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>r=+.30</td>
<td></td>
</tr>
</tbody>
</table>

Appendix 1: Happiness Items used

<table>
<thead>
<tr>
<th>Happiness Item Code</th>
<th>Full Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/2/a</td>
<td>Selfreport on 10 questions:</td>
</tr>
<tr>
<td></td>
<td>During the past few weeks, did you ever feel ....? (yes/no)</td>
</tr>
<tr>
<td></td>
<td>A Particularly exited or interested in something?</td>
</tr>
<tr>
<td></td>
<td>B So restless that you couldn't sit long in a chair?</td>
</tr>
<tr>
<td></td>
<td>C Proud because someone complimented you on something you had done?</td>
</tr>
<tr>
<td></td>
<td>D Very lonely or remote from other people?</td>
</tr>
<tr>
<td></td>
<td>E Pleased about having accomplished something?</td>
</tr>
<tr>
<td></td>
<td>F Bored?</td>
</tr>
<tr>
<td></td>
<td>G On top of the world?</td>
</tr>
<tr>
<td></td>
<td>H Depressed or very unhappy?</td>
</tr>
<tr>
<td></td>
<td>I That things were going your way?</td>
</tr>
<tr>
<td></td>
<td>J Upset because someone criticized you?</td>
</tr>
</tbody>
</table>

Answer options and scoring:
yes = 1
no = 0
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

Name: Bradburn's 'Affect Balance Scale' (standard version)
Findings on Happiness and FREEDOM

Selfreport on single question:

"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
[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 self anchoring ladder rating of life (original)

Selfreport on single question:

Up to now, have you been able to satisfy most of your ambitions in life or have you had to settle for less than you had hoped for .....?

2 able to satisfy ambitions
1 settled for less

Selfreport on single question:

How would you rate yourself as to how successful or unsuccessful you have been in terms of achieving your own goals and aims in life? Think of the top of the ladder as being completely successful, the bottom being entirely unsuccessful

[10] completely successful
[9]
[8]
[7]
[6]
[5]
[4]
[3]
[2]
[1]
[0] entirely unsuccessful
Findings on Happiness and FREEDOM

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

Name: Andrews & Withey's "Delighted-Terrible Scale" (original version)
Also known as Lehman's 'Global lifesatisfaction'

Selfreport on single question asked twice

‘How do you feel about your life as a whole?’
1 terrible
2 very unhappy
3 unhappy
4 mostly dissatisfied
5 mixed feelings
6 mostly satisfied
7 pleased
8 very pleased
9 delighted

Selfreport on single question:

Do you feel your life at present is.....?
4 very happy
3 quite happy
2 quite unhappy
1 very unhappy

Selfreport on single question:

“How happy would you say you were in general?”
1 -
2
3
4
5
6
7
8 +

(Full response options not reported)

Selfreport on single question:

Are you happy with your life?
2 yes
1 no
- don't know
Findings on Happiness and FREEDOM

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-HP/u/sq/n/10/a Selfreport on single question:

Please indicate with a number between 1 and 10 to what degree you consider yourself as a happy person, 1 meaning very unhappy and 10 very happy
1 very unhappy
2
3
4
5
6
7
8
9
10 very happy

O-SLP/c/sq/l/11/a Selfreport on single question:

"Some people seem to be quite happy and satisfied with their lives, while others seem quite unhappy and dissatisfied. Now look at this ladder (again). Suppose that a person who is entirely satisfied with his life would be at the top of the ladder and a person who is extremely dissatisfied with his life would be at the bottom of the ladder. Where would you put yourself on the ladder at the present stage of your life in terms of how satisfied or dissatisfied you are with your personal life?"

[ 10 ] entirely satisfied
[ 9 ]
[ 8 ]
[ 7 ]
[ 6 ]
[ 5 ]
[ 4 ]
[ 3 ]
[ 2 ]
[ 1 ]
[ 0 ] entirely dissatisfied

Name Cantril ladder rating (modified version)

O-SLu/c/sq/v/3/b Selfreport on single question:

"In general, how satisfying do you find your life these days? Would you call it....?".
3 completely satisfying
2 pretty satisfying
1 not satisfying

O-SLu/c/sq/v/5/g Self report on single question:

How satisfying do you find your life at the moment.....?
1 very dissatisfying
2 quite dissatisfying
3 not satisfying not dissatisfying
4 quite satisfying
5 very satisfying
Findings on Happiness and FREEDOM

Selfreport on single question:
All things considered, how satisfied are you with your life as-a-whole these days?
1 dissatisfied
2
3
4
5
6
7
8
9
10 satisfied

Selfreport on single question:
How satisfied are you with your life as a whole these days?
4 quite satisfied
3 rather satisfied
2 rather unsatisfied
1 not at all satisfied
- no answer
- hard to say

Happy Life Years
Life-expectancy in nations multiplied by 0-1 average happiness as assessed with survey questions type O-HL
## Appendix 2: Statistics used

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| B      | REGRESSION COEFFICIENT (non-standardized) by LEAST SQUARES (OLS)  
Type: test statistic  
Measurement level: Correlate: metric, Happiness: metric  
Theoretical range: unlimited  
Meaning:  
B > 0 A higher correlate level corresponds with, on an average, higher happiness rating.  
B < 0 A higher correlate level corresponds with, on an average, lower happiness rating.  
B = 0 Not any correlation with the relevant correlate. |
| DM     | 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.  
Meaning: the difference of the mean happiness, as measured on the author's rating scale, between the two correlate levels. |
| DMt    | DIFFERENCE of MEANS AFTER TRANSFORMATION  
Type: descriptive statistic only.  
Measurement level: Correlate: dichotomous, Happiness: metric  
Theoretical range: [-10; +10]  
Meaning: the difference of the mean happiness (happiness measured at a 0-10 rating scale) between the two correlate levels. |
| E²     | CORRELATION RATIO (Elsewhere sometimes called h² or ETA)  
Type: test statistic  
Measurement level: Correlate: nominal or ordinal, Happiness: metric  
Range: [0; 1]  
Meaning: correlate is accountable for E² x 100 % of the variation in happiness.  
E² = 0 « knowledge of the correlate value does not improve the prediction quality of the happiness rating.  
E² = 1 « knowledge of the correlate value enables an exact prediction of the happiness rating |
| Gs     | PARTIAL GAMMA. See: GAMMA  
Range: [-1, +1].  
Seldom used in happiness research. See excerpted report. |
| r      | 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]  
Meaning:  
r = 0 « no correlation ,  
r = 1 « perfect correlation, where high correlate values correspond with high happiness values, and  
r = -1 « perfect correlation, where high correlate values correspond with low happiness values. |
### Findings on Happiness and FREEDOM

<table>
<thead>
<tr>
<th><strong>rpc</strong></th>
<th><strong>PARTIAL CORRELATION COEFFICIENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: test statistic</td>
<td></td>
</tr>
<tr>
<td>Measurement level: Correlate: metric, Happiness: metric</td>
<td></td>
</tr>
<tr>
<td>Range: [-1; +1]</td>
<td></td>
</tr>
</tbody>
</table>

Meaning: a partial correlation between happiness and one of the correlates is that correlation, which remains after accounting for the contribution of the other influences, or some of them, to the total variability in the happiness scores.

Under that conditions

- \( \text{rpc} > 0 \) « a higher correlate level corresponds with a higher happiness rating,
- \( \text{rpc} < 0 \) « a higher correlate level corresponds with a lower happiness rating,

<table>
<thead>
<tr>
<th><strong>rs</strong></th>
<th><strong>SPEARMAN'S RANK CORRELATION COEFFICIENT</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type: test statistic</td>
<td></td>
</tr>
<tr>
<td>Measurement level: Correlate: ordinal, Happiness: ordinal.</td>
<td></td>
</tr>
<tr>
<td>Range: [-1; +1]</td>
<td></td>
</tr>
</tbody>
</table>

Meaning:

- \( \text{rs} = 0 \) « no rank correlation
- \( \text{rs} = 1 \) « perfect rank correlation, where high correlate values are associated with high happiness ratings
- \( \text{rs} = -1 \) « perfect rank correlation, where high correlate values are associated with low happiness ratings

<table>
<thead>
<tr>
<th><strong>T</strong></th>
<th><strong>TSCHUPROW'S T</strong></th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
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<tr>
<td>Measurement level: Correlate: nominal, Happiness: ordinal</td>
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</tr>
<tr>
<td>Range: ([0 ; \sqrt{\frac{\min(r,c)-1}{\max(r,c) -1}}]), c and r being the numbers of columns resp. rows in a cross tabulation.</td>
<td></td>
</tr>
</tbody>
</table>

Meaning:

- \( T = 0 \) « no association
- \( T -> 1 \) « strongest possible association.

**NOTE:** sometimes the square value is reported instead!

<table>
<thead>
<tr>
<th><strong>tb</strong></th>
<th><strong>KENDALL'S RANK CORRELATION COEFFICIENT TAU-B</strong></th>
</tr>
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<tbody>
<tr>
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<tr>
<td>Range: [-1; +1]</td>
<td></td>
</tr>
</tbody>
</table>

Meaning:

- \( tb = 0 \) « no rank correlation
- \( tb = 1 \) « perfect rank correlation, where high values of the correlate correspond with high happiness ratings.
- \( tb = -1 \) « perfect rank correlation, where high values of the correlate correspond with low happiness ratings.

---

**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

---

Findings on Happiness and FREEDOM

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

<table>
<thead>
<tr>
<th>Main Subjects</th>
<th>Subject Description</th>
<th>Number of Studies</th>
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<tbody>
<tr>
<td>A1</td>
<td>ACTIVITY: LEVEL (how much one does)</td>
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</tr>
<tr>
<td>A2</td>
<td>ACTIVITY: PATTERN (what one does)</td>
<td>32</td>
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<tr>
<td>A3</td>
<td>AFFECTIVE LIFE</td>
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<tr>
<td>A4</td>
<td>AGE</td>
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<td>A5</td>
<td>AGGRESSION</td>
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<tr>
<td>A6</td>
<td>ANOMY</td>
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<tr>
<td>A7</td>
<td>APPEARANCE (good looks)</td>
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<tr>
<td>A8</td>
<td>ATTITUDES</td>
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<td>A9</td>
<td>AUTHORITARIANISM</td>
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<td>B1</td>
<td>BIRTH CONTROL</td>
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<td>B2</td>
<td>BIRTH HISTORY (own birth)</td>
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<td>CHILDREN: HAVING (parental status)</td>
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<td>C4</td>
<td>CHILDREN: CHARACTERISTICS OF ONE’S CHILDREN</td>
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<tr>
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<td>CHILDREN: RELATION WITH ONE’S CHILDREN</td>
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<tr>
<td>C6</td>
<td>CHILDREN: REARING OF ONE’S CHILDREN (parental behavior)</td>
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<td>Happiness: Views on Happiness</td>
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<td>Happiness: Reputation of Happiness</td>
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Appendix 5: Related Subjects

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<td>F5.1.1 Earlier freedom</td>
<td>Earlier inner-control</td>
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<tr>
<td>F5.2 Current ability to be free</td>
<td>Current coping-capacity</td>
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A report of the World Database of Happiness, Correlational Findings