# Findings on Happiness & FRIENDSHIP

**Correlate Code:** F 6

<table>
<thead>
<tr>
<th>Classification of Findings</th>
<th>Correlate Code</th>
<th>Correlate Name</th>
<th>Number of Studies on this Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>F 6</td>
<td>FRIENDSHIP</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>F 6.1</td>
<td>Friendship career</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>F 6.1.1</td>
<td>Earlier friendships</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>F 6.1.2</td>
<td>Change in friendships</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>F 6.1.3</td>
<td>History of current friendships</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>F 6.1.4</td>
<td>Later friendships</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>F 6.2</td>
<td>Current number of friends</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>F 6.2.1</td>
<td>Number of close friends</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>F 6.2.2</td>
<td>Number of friends/acquaintances</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>F 6.3</td>
<td>Current contacts with friends</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>F 6.3.1</td>
<td>Visits to friends</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>F 6.3.2</td>
<td>Telephone calls with friends</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>F 6.3.3</td>
<td>Attendance of parties</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.3.5</td>
<td>Intimate discussions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.4</td>
<td>Current friendship network</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.4.1</td>
<td>Friends in community</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.4.2</td>
<td>Friends are friends</td>
<td></td>
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</tr>
<tr>
<td>F 6.4.3</td>
<td>Married friends</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.5</td>
<td>Current characteristics of friends</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>F 6.5.1</td>
<td>Happiness of friends</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.5.2</td>
<td>Similarity with friends</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.6</td>
<td>Attitudes to friendship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.6.1</td>
<td>Concern about friends</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F 6.6.2</td>
<td>Satisfactions with friends</td>
<td>70</td>
<td></td>
</tr>
</tbody>
</table>

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 & FRIENDSHIP  
World Database of Happiness. Internet: www.eur.nl/fsw/research/happiness  
Erasmus University Rotterdam, 2003, Netherlands

Print date: 7-2-2003
Findings on Happiness & FRIENDSHIP

**ADAMS 1988**

*Reported in:* Adams, R.G.

*Which comes first: Poor psychological well-being or decreased friendship activity?*
*Activities, Adaptation and Aging, 1988, vol. 12, p.27-41*

*Population:* 62+ aged, white, non-married, females, middle class suburb of Chicago, USA. 1981-84

*Sample:
Non-Response:* Dropout: 27%
due to incapacity, 13% refusal

*N:* 70 (T1), 42 (T2)

---

**Measured Correlate**

*Class:* Earlier friendships  Code: F 6.1.1

*Measurement:* Ss were first asked to list the persons they consider as friends. Next they indicated which of these are emotionally close.

*Measured Values:
Error Estimates:
Remarks:

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v2/a</td>
<td>r=+.17 ns</td>
<td>Synchronous correlation at T1.</td>
</tr>
<tr>
<td></td>
<td>r=+.38 p&lt;.05</td>
<td>Synchronous correlation at T2. The correlation has increased between T1 and T2 (difference in r .21).</td>
</tr>
<tr>
<td></td>
<td>rpc=+.12 ns</td>
<td>Diachronic correlation: T1 emotionally close friends by T2 happiness, controlled for T1 happiness. Rpc indicates the effect of earlier emotionally close friends on later CHANGE IN HAPPINESS.</td>
</tr>
</tbody>
</table>
Diachronic correlation: T1 happiness by T2 emotionally close friends, controlled for T1 emotionally close friends. Rpc indicates the EFFECT OF EARLIER HAPPINESS on later change of emotionally close friends.

The effect of emotionally close friends on happiness appears somewhat smaller than the effect of happiness on emotionally close friends (difference in rpc .08).

rpc=+.20 ns
### Study

**HEADE 1982/2**  
*Reported in:* Headey, B.; Holström, E.; Wearing, A.J.  
* Australians’ Priorities Satisfactions and Well-being: Methodological Issues  
* Monograph in Public Policy Studies, nr.8, University of Melbourne, 1982, Australia

*Population:* Adults, general public, Melbourne, Australia, followed 25 months 1978-81

*Sample:* Probability sample (unspecified)

*N:* 184

### Measured Correlate

*Class:* Change in friendships  
*Code:* F 6.1.2

*Measurement:* Index of 4 single questions on satisfaction with:  
- a: The people you see socially  
- b: Your friends  
- c: The friends of opposite sex you have  
- d: How much you are accepted and included by others

*All scored on a 1-9 D-T rating scale, summation by average.*

### Measured Values

### Error Estimates

### Remarks:  
Both Happiness (ABS) and satisfaction with friends were assessed at T1 and T2 (25 month interval)

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v2/a</td>
<td>Beta=.2 p&lt;.020</td>
<td>Both Happiness (ABS) and satisfaction with friends were assessed at T1 and T2 (25 month interval)</td>
</tr>
<tr>
<td>Beta=+.0 ns</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

T1-T2 CHANGE in happiness by T1-T2 CHANGE in satisfaction with friends  
Beta controlled for satisfaction with  
- sex life  
- health  
- house  
- standard of living  
- self-fulfillment  
- leisure
<table>
<thead>
<tr>
<th>Study</th>
<th>AUSTR 1984/2</th>
<th>Page in Report: 217</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Austrom, D.R.</td>
<td>The consequences of being single</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Peter Lang Publ., New York, 1984</td>
</tr>
<tr>
<td>Population:</td>
<td>23-59 aged English speaking, Toronto and Ontario, Canada, 198?</td>
<td></td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td>45%</td>
<td></td>
</tr>
<tr>
<td>N:</td>
<td>1038</td>
<td></td>
</tr>
</tbody>
</table>

### Measured Correlate

<table>
<thead>
<tr>
<th>Class:</th>
<th>History of current friendships Code: F 6.1.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement:</td>
<td>Single open-ended question. The respondents were asked how many years they knew one friend in particular that they confided in.</td>
</tr>
</tbody>
</table>

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/n/11/a</td>
<td>r=+.02</td>
<td>ns</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

ADAMS 1988

Reported in: Adams, R.G.
Which comes first: Poor psychological well-being or decreased friendship activity?
Activities, Adaptation and Aging, 1988, vol. 12, p.27-41

Population: 62+ aged, white, non-married, females, middle class suburb of Chicago, USA.
1981-84

Sample: Dropout : 27%
due to incapacity, 13%
refusal
N: 70 (T1), 42 (T2)

Measured Correlate
Class: Later friendships
Code: F 6.1.4
Measurement:
Ss were first asked to list the persons they consider as friends.
Next they indicated which of these are emotionally close.

Measured Values:
Error Estimates:

Observed Relation with Happiness

Happiness Query

A-BB/cm/mq/v/2/a

Statistics
r=+.17
ns

Remarks
Synchronic correlation at T1.

r=+.38
p<.05

Synchronic correlation at T2.
The correlation has increased between T1 and T2
difference in r .21).

rpc=+.12 ns

Diachronic correlation: T1 emotionally close friends by T2 happiness, controlled for T1 happiness.
Rpc indicates the effect of earlier emotionally close friends on later CHANGE IN HAPPINESS.
Diachronic correlation: T1 happiness by T2 emotionally close friends, controlled for T1 emotionally close friends. Rpc indicates the EFFECT OF EARLIER HAPPINESS on later change of emotionally close friends.

The effect of emotionally close friends on happiness appears somewhat smaller than the effect of happiness on emotionally close friends (difference in rpc .08).
Findings on Happiness & FRIENDSHIP

Reported in: Adams, R.G.
Which comes first: Poor psychological well-being or decreased friendship activity?
Activities, Adaptation and Aging, 1988, vol. 12, p.27-41

Population: 62+ aged, white, non-married, females, middle class suburb of Chicago, USA. 1981-84

Sample: Dropout : 27% due to incapacity, 13% refusal
N: 70 (T1), 42 (T2)

Measured Correlate
Class: Current number of friends
Measurement: Ss were asked to list the persons they consider as friends. The persons mentioned were counted.

Observed Relation with Happiness
Happiness Query  Statistics  Remarks
A-BB/cm/mg/v/2/a  r=+.21  p<.10  Synchronic correlation at T1.

r=+.15 ns  Synchronic correlation at T2. The correlation has decreased between T1 and T2 (difference in r .06).

rpc=+.21 p<.10  Diachronic correlation: T1 friends by T2 happiness, controlled for T1 happiness.
Rpc indicates the effect of earlier friends on later CHANGE IN HAPPINESS.

rpc=+.27 p<.05  Diachronic correlation: T1 happiness by T2 friends, controlled for T1 friends.
Rpc indicates the EFFECT OF EARLIER HAPPINESS on later change in friends.
The effect of friends on happiness appears somewhat smaller than the effect of happiness on friends (difference in rpc .06).
Findings on Happiness & FRIENDSHIP

Study

ALLAR 1973/1

Reported in: Allardt, E.
About dimensions of wellbeing: an explanatory analysis of a comparative
Research Reports, no.1, 1973; research group for comparativesociology , University
of Helsinki.

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

Sample:

Non-Response:

N: 1000

Measured Correlate

Class: Current number of friends  Code: F 6.2
Measurement: 8-point scale, ranging from 'no friends' to '13 or
more'

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks

O-HL/c/sq/v/4/a  rpc=.12  Controlled for: Income, housing density, education, social
status, chronic illness, anxiety, frequency of
meetings with relatives, opportunities to make
personal contacts, possibilities to decide on
matters concerning one's own personal life, number
of memberships in clubs and associations, interest-
ing 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.
Findings on Happiness & FRIENDSHIP  

<table>
<thead>
<tr>
<th>Study</th>
<th>ALLAR 1973/2</th>
</tr>
</thead>
</table>
| Reported in: | Allardt, E.  
  About dimensions of welfare: an explanatory analysis of a comparative  
  Research Reports, no.1, 1973; research group for comparativesociology, University  
  of Helsinki.  |
| Population: | 15-64 aged, general public, Finland, 1972  |
| Sample: |  |
| Non-Response: |  |
| N: | 1000  |

<table>
<thead>
<tr>
<th>Measured Correlate</th>
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<tbody>
<tr>
<td>Class:</td>
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<td>Code:</td>
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<tr>
<td>Measurement:</td>
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<tr>
<td>Measured Values:</td>
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<tr>
<td>Error Estimates:</td>
</tr>
<tr>
<td>Remarks:</td>
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Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>O-HL/c/sq/v/4/a</td>
<td>rpc=.13</td>
<td>Controlled for: income, housing density, education, social status, chronic illness, anxiety, frequency of meetings with relatives, opportunities to make personal contacts, possibilities to decide on matters concerning one's own personal life, 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>
Findings on Happiness & FRIENDSHIP

Study

**ALLAR 1973/3**

*Reported in: Allardt, E.*

About dimensions of welfare: an explanatory analysis of a comparative Research Reports, no.1, 1973; research group for comparativesociology, University of Helsinki.

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

*Sample:*

*Non-Response:*

*N: 1000*

**Measured Correlate**

*Class: Current number of friends Code: F 6.2*

*Measurement: 8-point scale, ranging from 'no friends' to '13 or more'*

**Measured Values:**

**Error Estimates:**

**Remarks:**

**Observed Relation with Happiness**

*Happiness Query*  
O-HL/c/sq/v/4/a

*Statistics*  
rpc=.17

*Remarks*  
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.

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**Study**

**ALLAR 1973/4**

*Reported in:* Allardt, E.

About dimensions of wellfare: an explanatory analysis of a comparative
Research Reports, no.1, 1973; research group for comparativesociology, University of Helsinki.

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

*Sample:* 

*Non-Response:* 

**N:** 1000

---

**Measured Correlate**

*Class:* Current number of friends  

*Code:* F 6.2

*Measurement:* 8-point scale, ranging from 'no friends' to '13 or more'

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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<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>

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World Database of Happiness: www.eur.nl/fsw/research/happiness
Findings on Happiness & FRIENDSHIP

Study

AUSTR 1984/2

Reported in: Austrom, D.R.
The consequences of being single
Peter Lang Publ., New York, 1984

Population: 23-59 aged English speaking, Toronto and Ontario, Canada, 198?

Sample: 

Non-Response: 45%

N: 1038

Measured Correlate

Class: Current number of friends Code: F 6.2

Measurement: Single closed question rated on a 6-point scale: Approximately how many friends do you have altogether: 1-5 / 6-10 / 11-15 / 16-25 / 26-35 / 35+?

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

O-SLW/u/sq/n/11/a r=+.23 p<.001
Findings on Happiness & FRIENDSHIP  

**Study**  
**MAKAR 1962**  

**Reported in:** Makarczyk, W.  
Factors affecting life satisfaction among people in Poland.  

**Population:** Adults, general public, students and peasants excluded, Poland, 1960  

**Sample:**  

<table>
<thead>
<tr>
<th>Non-Response</th>
<th>5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>N:</td>
<td>2387</td>
</tr>
</tbody>
</table>

**Measured Correlate**  

**Class:** Current number of friends  
Code: F 6.2  

**Measurement:**  
*Single question: what can you say about your friends?*  
- I live more or less on my own / On the whole I stick to the family  
- I only have a small number of friends / I have a lot of friends.

**Measured Values:**  

**Error Estimates:**  

**Remarks:**  

**Observed Relation with Happiness**  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/v/5/a</td>
<td>T=.19</td>
<td>p&lt;.001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-agricultural people only.</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Study: MASTE 1984/1

Reported in: Mastekaasa, A., & Moum, T.
The perceived quality of life in Norway: regional variations and contextual effects.
Social Indicators Research, 1984, Vol 14, p.385-419

Population: 15-64 aged, general public, non-institutionalized, Norway, 1971

Sample: 15%
N: 854

Measured Correlate

Class: Current number of friends  Code: F 6.2
Measurement: Direct question about number of friends.

Measured Values:

Error Estimates:

Remarks: Curvilinear relationship.

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
O-HL/c/sq/v/4/d  Beta=+  p<.01

ß controlled for education, income, age, sex, household size, occupation, active, marital status.
Unaffected by both traditionalism and economic level of the county.
Findings on Happiness & FRIENDSHIP  

**Study**  
**ABE 1986**  
**Reported in:** Abe, T & Moritsuka, T  
A case-control study on climacteric symptoms and complaints of Japanese women  
Maturitas 1986, vol 8, p 255-265  

**Population:** Women in menopause patient and controls, Miyagi, North-east Japan, 1981-82.  
**Sample:** Non-probability chunk sample  
**Non-Response:** 20% (cases 21%, controls 19%)  
**N:** Patients:216  
Controls:216

---

**Measured Correlate**

**Class:** Number of close friends  
**Code:** F 6.2.1  
**Measurement:** Single direct question: How many intimate friends do you have other than members of your family?  

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

**Happiness Query**  
**Statistics**  
**Remarks**

O-SL?/c/sq/v/3/a  
DM= ns
Findings on Happiness & FRIENDSHIP

固定资产

ABE 1986

Reported in: Abe, T & Moritsuka, T
A case-control study on climacteric symptoms and complaints of Japanese women
Maturitas 1986, vol 8, p 255-265


Sample: Non-probability chunk sample

Non-Response: 20 % (cases 21%, controls 19%)

N: Patients: 216
Controls: 216

Measured Correlate

Class: Number of close friends Code: F.6.1

Measurement: Single direct question

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness
Findings on Happiness & FRIENDSHIP

**Study**

ADAMS 1988

*Reported in:* Adams, R.G.  
Which comes first: Poor psychological well-being or decreased friendship activity?  
Activities, Adaptation and Aging, 1988, vol. 12, p.27-41

*Population:* 62+ aged, white, non-married, females, middle class suburb of Chicago, USA.  
1981-84

*Sample:*  
*Non-Response:* Dropout: 27% due to incapacity, 13% refusal

*N:* 70 (T1), 42 (T2)

---

**Measured Correlate**

*Class:* Number of close friends  
*Code:* F 6.2.1

*Measurement:* Ss were first asked to list the persons they consider as friends.  
Next they indicated which of these are emotionally close.

*Measured Values:*  
*Error Estimates:*  
*Remarks:*  

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/2/a</td>
<td>r=+.17 ns</td>
<td>Synchronic correlation at T1.</td>
</tr>
</tbody>
</table>
|                 | r=+.38 p<.05 | Synchronic correlation at T2.  
The correlation has increased between T1 and T2 (difference in r .21). |
|                 | rpc=+.12 ns | Diachronic correlation: T1 emotionally close friends by T2 happiness, controlled for T1 happiness.  
Rpc indicates the effect of earlier emotionally close friends on later CHANGE IN HAPPINESS. |

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Print date: 7-2-2003  
World Database of Happiness: [www.eur.nl/fsw/research/happiness](http://www.eur.nl/fsw/research/happiness)  
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Diachronic correlation: T1 happiness by T2 emotionally close friends, controlled for T1 emotionally close friends. Rpc indicates the EFFECT OF EARLIER HAPPINESS on later change of emotionally close friends.

The effect of emotionally close friends on happiness appears somewhat smaller than the effect of happiness on emotionally close friends (difference in rpc .08).
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**AUSTR 1984/2**

*Reported in:* Austrom, D.R.
The consequences of being single
Peter Lang Publ., New York, 1984

*Population:* 23-59 aged English speaking, Toronto and Ontario, Canada, 198?

*Sample:* 

*Non-Response:* 45%

*N:* 1038

### Measured Correlate

*Class:* Number of close friends  Code: F 6.2.1

*Measurement:* Single open-ended question: How many people are there in your life that you feel really close to?

*Observed Relation with Happiness*

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/n/11/a</td>
<td>r=+.16</td>
<td>p&lt;.001</td>
</tr>
</tbody>
</table>

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[58x712]Findings on Happiness & FRIENDSHIP

[157x489]Single closed question: “Do you have many, a few or no real friends?”

[156x680]STAPE 1988/1

[59x525]Measured Correlate

[73x488]Measurement:

[94x424]Remarks:

[157x648]De Gelukkige Nederlanders (The happy dutchman)
Stapel, J.

[59x663]Sample:
Non-Response:

N: 952

[157x680]18+ aged, general public, non-institutionalized, The Netherlands, 1988

[157x507]Population:

[109x508]Class:

Number of close friends  Code: F 6.2.1

[377x77]Page 22 of 159

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsw/research/happiness
**Study**

**VENTE 1995**

**Reported in:** Ventegodt, S.
Livskvalitet i Danmark.(Quality of Life in Denmark)
Forskningscentrets Forlag (The Quality of Life Research Center), København, Denmark,
ISBN 8790190017

**Population:** 18-88 aged, general public, Denmark, 1993

**Sample:** Non-probability purposive sample (unspecified)

**Non-Response:** 39%

**N:** 1494

---

**Measured Correlate**

**Class:** Number of close friends  Code: F 6.2.1

**Measurement:** Single question:
"Do you have a friend with whom you can talk about everything and do?"

1: has friend
0: no friend

**Measured Values:** N: 803

**Error Estimates:**

**Remarks:** partner means: you have sex; friend: no sex

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/m/sq/v/5/a</td>
<td>Dmt=+</td>
<td></td>
</tr>
<tr>
<td></td>
<td>no partner</td>
<td>no partner</td>
</tr>
<tr>
<td></td>
<td>unemployed</td>
<td>unemployed</td>
</tr>
<tr>
<td>1: Ms=6.88</td>
<td>7.50</td>
<td>6.10</td>
</tr>
<tr>
<td>0: Ms=5.00</td>
<td>6.80</td>
<td>7.05</td>
</tr>
<tr>
<td>O-HL/c/sq/v/5/h</td>
<td>Dmt=+</td>
<td></td>
</tr>
<tr>
<td></td>
<td>no partner</td>
<td>no partner</td>
</tr>
<tr>
<td></td>
<td>unemployed</td>
<td>employed</td>
</tr>
<tr>
<td>1: Ms=5.88</td>
<td>6.15</td>
<td>7.38</td>
</tr>
<tr>
<td>0: Ms=5.00</td>
<td>5.40</td>
<td>6.25</td>
</tr>
<tr>
<td>O-SLu/c/sq/v/5/e</td>
<td>Dmt=+</td>
<td></td>
</tr>
<tr>
<td></td>
<td>no partner</td>
<td>no partner</td>
</tr>
<tr>
<td></td>
<td>unemployed</td>
<td>employed</td>
</tr>
<tr>
<td>1: Ms=6.88</td>
<td>6.86</td>
<td>7.50</td>
</tr>
<tr>
<td>0: Ms=3.34</td>
<td>5.90</td>
<td>6.36</td>
</tr>
</tbody>
</table>

---

World Database of Happiness: www.eur.nl/fsw/research/happiness
Findings on Happiness & FRIENDSHIP

VENTE 1995

**Reported in:** Ventegodt, S.
Livskvalitet i Danmark (Quality of Life in Denmark)
Forskningscentrets Forlag (The Quality of Life Research Center), København, Denmark,
ISBN 8790190017

**Population:** 18-88 aged, general public, Denmark, 1993
**Sample:** Non-probability purposive sample (unspecified)

**Non-Response:** 39%
**N:** 1494

**Measured Correlate**

**Class:** Number of close friends  **Code:** F 6.2.1

**Measurement:** Single question:
"Do you have a friend with whom you can talk about everything - and do ?"
1: no
2: not sure
3: yes

**Measured Values:** N: all:1431, 1:257, 2:237, 3:937

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-AOL/m/sq/v/5/a | r=.15 p<.00 | 1: Mt =7.18  
  2: Mt =7.50  
  3: Mt =7.99  
  All Mt =7.76 |
| O-HL/c/sq/v/5/h  | r=.21 p<.00 | 1: Mt =6.24  
  2: Mt =6.56  
  3: Mt =7.24  
  All Mt =6.95 |
| O-SLu/c/sq/v/5/e  | r=.20 p<.00 | 1: Mt =6.74  
  2: Mt =7.06  
  3: Mt =7.75  
  All Mt =7.45 |

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 24 of 159
### Study

**WHITE 1979**

**Reported in:** White, L.K.

Sex differentials in the effects of remarriage on global happiness

*Journal of Marriage and the Family, vol 41, 1979, 869-876*

**Population:** Adult, general public, married and divorced, Nebraska, USA, 1977

**Sample:**

**Non-Response:**

*N:* 1085

---

### Measured Correlate

**Class:** Number of close friends  
**Code:** F 6.2.1

**Measurement:** Single direct question to: the number of friends respondent feels close to

---

### Observed Relation with Happiness

**Happiness Query**

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>r =</td>
<td></td>
</tr>
</tbody>
</table>

**O-HL/c/sq/v/3/ad**

1. *first marriage men*  
   *r* = +.08 (ns)

2. *first marriage women*  
   *r* = +.11 (05)

3. *remarriage men*  
   *r* = +.24 (ns)

4. *remarriage women*  
   *r* = +.10 (ns)

---
**Study**

**ZUMA 1989**

*Reported in:* Zentrum fur Umfrageforschung MAennheim (ZUMA)

*Population:* 18+ aged, general public, West-Germany, 1978-88

*Sample:*

*Non-Response:*

*Number of close friends Code: F 6.2.1*

**Measured Correlate**

*Class:*

Number of close friends Code: F 6.2.1

*Measurement:*

Question: 'Do you have one or more really close friends, I mean not within your family?'

Coding reversed by us. Signs of correlations reversed accordingly.

0 no

1 yes

*Measured Values:*

*Error Estimates:*

*Remarks:*

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/4/b</td>
<td>SNR=</td>
<td></td>
</tr>
<tr>
<td></td>
<td>eta</td>
<td>G</td>
</tr>
<tr>
<td>1978</td>
<td>+.14</td>
<td>+.31</td>
</tr>
<tr>
<td>1980</td>
<td>+.08</td>
<td>+.17</td>
</tr>
<tr>
<td>1988</td>
<td>+.11</td>
<td>+.26</td>
</tr>
</tbody>
</table>

\( \beta \)'s controlled for age, gender, perceived class and marital status.

<table>
<thead>
<tr>
<th>O-SLW/c/sq/n/11/b</th>
<th>SNR=</th>
<th>eta</th>
<th>G</th>
<th>r</th>
<th>( \beta )</th>
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</thead>
<tbody>
<tr>
<td>1978</td>
<td>-.12</td>
<td>-.15</td>
<td>-.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1980</td>
<td>-.08</td>
<td>-.10</td>
<td>-.08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988</td>
<td>-.13</td>
<td>-.14</td>
<td>-.13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\( \beta \)'s controlled for age, gender, perceived class and marital status.
Findings on Happiness & FRIENDSHIP  

**Study**  
**ZUMA 1989**  
*Reported in:* Zentrum fur Umfrageforschung MAnnheim (ZUMA)  
*Population:* 18+ aged, general public, West-Germany, 1978-88  
*Sample:*  
*Non-Response:* ?  
*N:* varies from about 2000 - 2300  

**Measured Correlate**  
*Class:* Number of close friends  
*Code:* F 6.2.1  
*Measurement:* Question: 'How many close friends do you have roughly?'  

*Measured Values:*  
*Error Estimates:*  
*Remarks:*  

**Observed Relation with Happiness**  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/4/b</td>
<td>SNR=</td>
<td></td>
</tr>
<tr>
<td></td>
<td>et a</td>
<td>G</td>
</tr>
<tr>
<td>1978</td>
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<td>+.15</td>
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<tr>
<td>1980</td>
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<td>1984</td>
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<tr>
<td>1988</td>
<td></td>
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</table>

ß's controlled for age, gender, perceived class and marital status.

<table>
<thead>
<tr>
<th>O-SLW/c/sq/n/11/b</th>
<th>SNR=</th>
<th>et a</th>
<th>G</th>
<th>r</th>
<th>ß</th>
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</thead>
<tbody>
<tr>
<td>1978</td>
<td>+.13</td>
<td>+.04</td>
<td>+.04</td>
<td></td>
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</tr>
<tr>
<td>1980</td>
<td></td>
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<tr>
<td>1984</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1988</td>
<td>+.16</td>
<td>+.10</td>
<td>+.08</td>
<td></td>
<td></td>
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</tbody>
</table>

ß's controlled for age, gender, perceived class and marital status.
Findings on Happiness & FRIENDSHIP

**Study**

**STAPE 1988/1**

*Reported in:* Stapel, J.
De Gelukkige Nederlanders (The happy dutchman)
Unpublished paper Netherlands Institute for Public Opinion Research, (NIPO)
Amsterdam, the Netherlands, 1988.

*Population:* 18+ aged, general public, non-institutionalized, The Netherlands, 1988

*Sample:

*Non-Response:*

*N:* 952

**Measured Correlate**

*Class:* Number of friends/acquaintances  Code: F 6.2.2

*Measurement:*

Single closed question: "Do you have many, a few or no acquaintances?"

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-FH/u/sq/v/3/a</td>
<td>G=+.48</td>
<td>p&lt; .01</td>
</tr>
<tr>
<td></td>
<td>G=+.48</td>
<td>p&lt; .01</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

**Study**  
**ADAMS 1988**  
*Reported in:* Adams, R.G.  
Which comes first: Poor psychological well-being or decreased friendship activity?  
Activities, Adaptation and Aging, 1988, vol. 12, p.27-41

*Population:* 62+ aged, white, non-married, females, middle class suburb of Chicago, USA.  
1981-84

*Sample:*  
*Non-Response:* Dropout : 27% due to incapacity, 13% refusal  
*N:* 70 (T1), 42 (T2)

### Measured Correlate

*Class:* Current contacts with friends  
*Code:* F 6.3

*Measurement:*  
Ss were first asked to list the persons they consider as friends. Next they estimated the number of contacts in the last year with each of these.

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/2/a</td>
<td>r=+.26, p&lt;.05</td>
<td>Synchronic correlation at T1.</td>
</tr>
</tbody>
</table>
|                 | r=+.12, ns  | Synchronic correlation at T2.  
The correlation has decreased between T1 and T2. (difference in r .14). |
|                 | rpc=+.04, ns | Diachronic correlation: T1 interaction by T2 happiness, controlled for T1 happiness.  
Rpc indicates the effect of earlier interaction on later change in happiness. |
|                 | rpc=+.08, ns | Diachronic correlation: T1 happiness by T2 interaction, controlled for T1 interaction.  
Rpc indicates the effect of earlier happiness on later change in interaction.  
There is neither effect of interaction on happiness, nor effect of happiness on interaction. |
Findings on Happiness & FRIENDSHIP  Correlate Code: F 6

ALEXA 1968

Reported in: Alexander, W.E.
Some sociological aspects of psychological well-being in a schizophrenic population:
Unpublished doctoral dissertation, 1968, Syracuse University USA

Population: Schizophrenic males non-hospitalized, Monroe County, New York, USA, 1964-65

Sample:

Non-Response: 28%, most of them patients’ or family member refusal

N: 178

Measured Correlate

Class: Current contacts with friends  Code: F 6.3

Measurement: Closed question: less than once a month / between once a month and once a week / at least once a week

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
A-BB/cw/mq/v/4/f  G= +  Index of Positive Affects only: G = +.19 (05)
Findings on Happiness & FRIENDSHIP

**Study**

**AUSTR 1984/2**

*Reported in:* Austrom, D.R.
The consequences of being single
Peter Lang Publ., New York, 1984

*Population:* 23-59 aged English speaking, Toronto and Ontario, Canada, 198?

*Sample:

*Non-Response:* 45%

*N:* 1038

---

**Measured Correlate**

*Class:* Current contacts with friends  Code: F 6.3

*Measurement:* Single closed question rated on a 6-point scale: About how often do you get together socially with your friends: several times a week / a few times a week / once a week / a few times a month / once a month / less than once a month.

*Measured Values:

*Error Estimates:

*Remarks:

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/n/11/a</td>
<td>r=+.02</td>
<td>ns</td>
</tr>
</tbody>
</table>

---

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Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study

BEALS 1985

Reported in: Beals, J.
Generational differences in well-being for two European groups

Population: Immigrants from Europe, USA, 1978

Sample:

Non-Response: -

N: 844

Measured Correlate

Class: Current contacts with friends Code: F 6.3

Measurement:
Contacts the one (good) you most often talk to.
1: less than once a year
2: less than once a month
3: once time a month or more
4: once a week or more
5: almost daily

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

M-AO/u/mq/*0/a βL=.10 ns
8L standardized direct path coefficient in a LISREL-model, controlled for contacts with relatives, perceptions of US-life, immigration generation and socioeconomic status. Also involved in the model are cognitive well-being and negative affect.

r=+.12 p<.01 Immigrants from Western Europe
r=+.12 p<.01 Immigrants from Eastern and Southern Europe

O-Sum/u/mq/*0/b βL=.03 ns
8L standardized direct path coefficient in a LISREL-model, controlled for perceptions of US-life, contacts with relatives, socioeconomic status and immigration generation. Also involved in the model are positive and negative affect.

r=+.07 p<.05 Immigrants from Western Europe
r=+.10 p<.05 Immigrants from Eastern and Southern Europe
Findings on Happiness & FRIENDSHIP

Study

**BRADB 1965/1**

- **Reported in:** Bradburn, N.M. & Caplovitz D.
  Reports on happiness
  Aldine Publishing Company, 1965, Chicago USA
- **Population:** Adult, general public, 4 towns, varying in economic prosperity, Illinois, USA, 1962
- **Sample:**
- **Non-Response:** -
- **N:** 2006

**Measured Correlate**

- **Class:** Current contacts with friends  Code: F 6.3
- **Measurement:** Closed question on frequency of contact during last week, rated on a 5-point scale: not at all / once / twice.

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cw/mq/v/4/e| G = + p<   | Index of Positive Affects only: G' = +.31 (01).
|                 |            | Unaffected by S.E.S. |
# Findings on Happiness & FRIENDSHIP

**Correlate Code:** F 6

**Study**

**BRADB 1969**

**Reported in:** Bradburn, N.M.
The structure of psychological well-being
Aldine Publishing Company, 1969, Chicago, USA

**Population:** 21-60 aged, general public, urban areas, USA, 1963 - 64

**Sample:**

**Non-Response:** ± 20%, Attrition
± 30%

**N:** 2787

---

**Measured Correlate**

**Class:** Current contacts with friends  Code: F 6.3

**Measurement:** Direct question on how many times one got together with friends, during the past few weeks, rated on a 6-point scale.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v2/a</td>
<td>G=+</td>
<td>Data T1. Not computed for summed ABS. Index of Positive Affects: G= +.25 Index of Negative Affects: G= +.04</td>
</tr>
</tbody>
</table>
### Study

**Linn 1980**

**Reported in:** Linn, G.J., and McGranahan, D.A.

*Personal disruption, social integration, subjective well-being and predisposition toward the use of counseling services.*

*American Journal of Community Psychology*, Vol 8, 1980, 87-100

**Population:** 18+ aged, general public, NW-Wisconsin, USA, 1974

**Sample:** Current contacts with friends

**Non-Response:** 7-24%

**N:** 1423

### Measured Correlate

**Class:** Current contacts with friends  
Code: F 6.3

**Measurement:** Direct question: "How often do you talk to one or more of your close friends living in the county?"

### Observed Relation with Happiness

**Happiness Query**  
**Statistics**  
**Remarks**

**O-HL/c/sq/v/7/a**

<table>
<thead>
<tr>
<th>B=+</th>
<th>ns</th>
<th>B controlled for: sex, education, income, occupation, health, divorce/separation, unemployment; age and its interaction with health, divorce and unemployment.</th>
</tr>
</thead>
</table>
|     |    | Interaction with health problems  
| B=+ | p<.01 | Interaction with divorce  
| B=+ | p<.05 | Interaction with unemployment |

**O-SLW/u/sq/v/7/a**

<table>
<thead>
<tr>
<th>B=+</th>
<th>ns</th>
<th>B controlled for: sex, education, income, occupation, health, divorce/separation, unemployment; age and its interaction with health, divorce and unemployment.</th>
</tr>
</thead>
</table>
|     |    | Interaction with health  
| B=+ | p<.05 | Interaction with divorce  
| B=+ | ns | Interaction with unemployment  
| B=+ | p<.05 | Interaction with unemployed |

---

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Findings on Happiness & FRIENDSHIP

**Study**  
**MARTI 1984**  
*Reported in:* Martinson, O.B., Wilkening, E.A. & Mc Granahan, D.  
Predicting overall life-satisfaction: The role of life-cycle and social-psychological antecedents  

*Population:* 18+ aged, general public, N.W. Wisconsin, USA, 1974

*Sample:*  
*Non-Response:* 12%

*N:* 1423

**Measured Correlate**

*Class:* Current contacts with friends  
*Code:* F 6.3

*Measurement:* Single direct question:
1: less than once a week
2: once a week
3: two or more times a week

*Measured Values:*  
*Error Estimates:* 

*Remarks:* 

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sqt/v7/a</td>
<td>Beta = +.0 ns</td>
<td></td>
</tr>
</tbody>
</table>

age <30: $\beta = +.02$ ns  
30 - 49: $\beta = +.07$ ns  
50 - 64: $\beta = -.02$ ns  
> 64: $\beta = +.05$ ns  

$\beta$ controlled for powerlessness, community solidarity, health, days too sick to work, recent move, separated/divorced, unemployed, contact with friends, church attendance, organizational membership, education, family income.
Findings on Happiness & FRIENDSHIP  

**Study**  
MARTI 1985  

*Reported in:* Martinson, O.B., Wilkening, E.A. & Linn, J.G.  
Life change, health status and life satisfaction: A reconsideration  

*Population:* 18+ aged, general public, NW Wisconsin, USA, 1974  

*Sample:*  
Non-Response: 14%  
N: 1423  

---  

**Measured Correlate**  

*Class:* Current contacts with friends  
*Code:* F 6.3  

*Measurement:* Single direct question:  
1: less than once a week  
2: once a week  
3: two or more times a week  

*Measured Values:*  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/v7/a</td>
<td>Beta=</td>
<td></td>
</tr>
</tbody>
</table>

O of different age groups:  
under 30 : .00 ns  
30-49 : +.07 ns  
50-54 : -.02 ns  
over 64 : +.05 ns  

Beta controlled for: negative life change, degree of disability, days lost due to illness, powerlessness, community solidarity, recent migrant, contact with relatives, organizational affiliation, church attendance, separated / divorced, sex, unemployed, family income, education.

---
Findings on Happiness & FRIENDSHIP

Study: PALISI 1986B  Page in Report: 369

Reported in: Palisi, B.J.
Urbanism and social psychological well-being: a test of three theories

Population: 18+ aged, general public, non-institutionalized, USA, 1974-1982

Sample:
Non-Response:
N: 7542

Measured Correlate

Class: Current contacts with friends  Code: F 6.3
Measurement: Single closed question on spending a social evening with friends, rated on a 7-point scale, ranging from 'almost every day' to 'never' (order reversed).

Measured Values:
Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
O-HL/c/sq/v/3/aa  r=+.04  p<.01
rpc=+.07  p<.01  rpc controlled for income, occupation, educational degree, children, age, marital status, race, sex, urbanism.
**Study**

**PAYNE 1974**

*Reported in:* Payne, R.L.


*Population:* Employed males, supervising jobs, England, 197?

*Sample:*

*Non-Response:* 4% incomplete.

*N:* 192

---

**Measured Correlate**

*Class:* Current contacts with friends  

*Code:* F 6.3

*Measurement:* Direct question on number of contacts in the past 4 weeks rated on a 6-point scale ranging from 'not at all' to 'five or more'.

*Measured Values:*

*Error Estimates:*

*Remarks:*

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cm/mg/v/5/a | G=         | Index of Positive Affects: G = +.13  
|                 |            | Index of Negative Affects: G = +.11 |

---
Findings on Happiness & FRIENDSHIP  
Correlate Code: F 6

**Study**  
**PHILL 1967A**  
*Reported in:* Phillips, D.L.  
Social participation and happiness  
*Population:* Adult, general public, New Hampshire, USA, 196?  
*Sample:*  
*Non-Response:* -  
*N:* 600

**Measured Correlate**  
*Class:* Current contacts with friends  
*Code:* F 6.3  
*Measurement:* Direct question on how many times one got together with friends during the past few weeks 0 / 1-2 / 3 or more.

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cm/mq/v/2/a | G=+        | Index of Positive Affects: G = +.34  
High S.E.S. : d = +.11  
Medium S.E.S. : d = +.22  
Low S.E.S. : d = +.35  
Index of Negative Affects: G = +.03  
High S.E.S. : G = -.09  
Medium S.E.S. : G = +.02  
Low S.E.S. : G = +.07  
(See PHILL 1969, p. 7). |

---

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
Page 40 of 159
### Findings on Happiness & FRIENDSHIP

**Correlate Code:** F 6

**Snide 1980**

**Reported in:** Snider, E.L.

Explaining lifesatisfaction: It's the elderly's attitude that co that counts.

**Social Science Quarterly, 1980, vol. 61, nr 2, p. 253-263**

**Population:** 65+ aged, retired whites, Edmonton, Canada, 1976

**Sample:**

**Non-Response:** 10%

**N:** 428

---

**Measured Correlate**

**Class:** Current contacts with friends  
**Code:** F 6.3

**Measurement:** Single direct question rated on a 5-point scale with the choice statements: 'never', 'yearly', 'monthly', 'weekly' and 'daily'.

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-SLu/g/sq/v/3/a | r=.16  
p<.001 | tc=.14  
p<.001 |
|                 | Dyx=.1    
p<.001 |         |
## Study

**VENTE 1995**

*Reported in:* Ventegodt, S.  
*Livskvalitet i Danmark.* (Quality of Life in Denmark)  
*Forskningscentrets Forlag.* (The Quality of Life Research Center), København, Denmark,  
ISBN 8790190017

*Population:* 18-88 aged, general public, Denmark, 1993

*Sample:* Non-probability purposive sample (unspecified)

*Non-Response:* 39%

*N:* 1494

### Measured Correlate

**Class:** Current contacts with friends  
**Code:** F 6.3

**Measurement:** Single question: "How are your current relations with your friends?"  
1: very bad  
2: bad  
3: neither/nor  
4: good  
5: very good

**Measured Values:**  
N: all:1368, 1:2, 2:9, 3:97, 4:700, 5:560

**Error Estimates:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-AOL/m/sq/v/5/a | r=+.21 p<.00 | 1: Mt =5.00  
2: Mt =6.95  
3: Mt =6.80  
4: Mt =7.54  
5: Mt =8.24  
All Mt =7.76 |
| O-HL/c/sq/v/5/h | r=+.23 p<.00 | 1: Mt =2.50  
2: Mt =5.84  
3: Mt =6.16  
4: Mt =6.71  
5: Mt =7.45  
All Mt =6.96 |
| O-SLu/c/sq/v/5/e | r=+.25 p<.00 | 1: Mt =3.75  
2: Mt =5.28  
3: Mt =6.41  
4: Mt =7.20  
5: Mt =7.98  
All Mt =7.44 |
Findings on Happiness & FRIENDSHIP

VENTE 1996

Reported in: Ventegodt, S.
Livskvalitet hos 4500 31-33 årige (The Quality Of Life of 4500 31-33-year-olds)
Forskningscenter for Livskvalitet,
Forskningscentrets Forlag, København 1996,
ISBN 8790190068

Population: Persons born at the University Hospital in Copenhagen 1959-1961
Sample: Non-probability purposive sample (unspecified)
Non-Response: 39%
N: 4500

Class: Current contacts with friends Code: F 6.3

Measurement: Single question: "Do you have a friend with whom you can talk about everything - and do ?"
1: no
2: not sure
3: yes

Measured Values:
N women: All:2448; %: 1:10,9; 2:12,0; 3:77,1
M men: All:2103; %: 1:18,8; 2:19,6; 3:61,6

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

A-AOL/m/sq/v/5/a r=+.19 p<.00

women:
1: Mt = 6.80
2: Mt = 7.19
3: Mt = 7.93

men:
1: Mt = 7.06
2: Mt = 7.54
3: Mt = 8.06

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

women:
1: Mt = 6.21
2: Mt = 6.55
3: Mt = 7.29

men:
1: Mt = 6.28
2: Mt = 6.70
3: Mt = 7.24
Findings on Happiness & FRIENDSHIP

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

women:
1: Mt = 6.40
2: Mt = 6.91
3: Mt = 7.69

men:
1: Mt = 6.56
2: Mt = 7.15
3: Mt = 7.71
Findings on Happiness & FRIENDSHIP

Study VENTE 1996

Reported in: Ventegodt, S.
Livskvalitet hos 4500 31-33 årige (The Quality Of Life of 4500 31-33-year-olds)
Forskningscenter for Livskvalitet,
Forskningscentrets Forlag, København 1996,
ISBN 8790190068

Population: Persons born at the University Hospital in Copenhagen 1959-1961
Sample: Non-probability purposive sample (unspecified)
Non-Response: 39%
N: 4500

Measured Correlate

Class: Current contacts with friends Code: F 6.3
Measurement: Single question:
"How are your current relations with your friends?"
1: very bad
2: bad
3: neither/nor
4: good
5: very good

Measured Values: N: All:4473; %: 1:0,2; 2:0,8; 3:9,0; 4:51,6; 5:38,4
Error Estimates:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/m/sq/v/5/a</td>
<td>r=.26 p&lt;.00</td>
<td>Mt =4.55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =5.58</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =6.43</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =7.66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =8.25</td>
</tr>
<tr>
<td>O-HL/c/sq/v/5/h</td>
<td></td>
<td>Mt =4.78</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =5.14</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =5.89</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =6.91</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =7.54</td>
</tr>
<tr>
<td>O-SLu/c/sq/v/5/e</td>
<td></td>
<td>Mt =2.73</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =4.86</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =6.10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =7.33</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt =7.99</td>
</tr>
</tbody>
</table>

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsw/research/happiness Page 45 of 159
### Study

**WILKE 1978/1**

**Reported in:** Wilkening, E.A. & McGranahan, D.
Correlates of Subjective Well-being in Northern Wisconsin
Social Indicators Research, vol 5 (1978), p. 221-234

**Population:** 18+ aged, general public, NW Wisconsin-residents, USA, 1974

**Sample:**

- **Non-Response:** 12%
- **N:** 1423

### Measured Correlate

**Class:** Current contacts with friends  
**Code:** F 6.3

**Measurement:**
1. less than once a week
2. once or more times a week
3. daily

### Observed Relation with Happiness

**Happiness Query**

<table>
<thead>
<tr>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>$r = +.11$</td>
<td>$\beta = +.0$ p &lt; .05</td>
</tr>
</tbody>
</table>

8 controlled for 1+2+3+4+5:
1. education, occupation, income, level of living
2. live alone, married, children, contact with relatives, church attendance, organizational membership.
3. health problems, recent move, separated/divorced, unemployed.
4. retired, widowed.
5. urban living, rural living, female.

8 in different age groups:
- under 30: $+.00$ (ns)
- 30-49: $+.18$ (05)
- 50-64: $+.10$ (05)
- over 64: $+.03$ (ns)

$\beta$ controlled for 2 only: interaction with age significant (01)
Study | WILKE 1978/2
--- | ---
Reported in: | Wilkening,E.A. & McGranahan,D.  
Correlates of Subjective Well-being in Northern Wisconsin.  
Social Indicators Research, vol 5(1978) p.221-234
Population: | 18+ aged, general public, non-institutionalized, Wisconsin, USA, 1974
Sample: | 
Non-Response: | N: 534

### Measured Correlate

<table>
<thead>
<tr>
<th>Class:</th>
<th>Current contacts with friends</th>
<th>Code: F 6.3</th>
</tr>
</thead>
</table>
| Measurement: | Single direct question:  
1: less than once a week  
2: once or more times a week  
3: daily |

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/u/sq/v/7/a</td>
<td>Beta=+.0 ns</td>
<td>β controlled for education, occupation, income, live alone, married status, contact with relatives, church attendance, organization membership, separated / divorced, retired, widowed, place of residence, sexe, age.</td>
</tr>
</tbody>
</table>
## Findings on Happiness & FRIENDSHIP

**Correlate Code:** F 6

### Study

**ZUMA 1989**

*Reported in:* Zentrum fur Umfrageforschung MAennheim (ZUMA)  

*Population:* 18+ aged, general public, West-Germany, 1978-88

*Sample:*

*Non-Response:* ?

*N:* varies from about 2000 - 2300

### Measured Correlate

*Class:* Current contacts with friends  
*Code:* F 6.3

*Measurement:*  
**Question:** 'How many times do you meet your best friend or your best girl-friend?'

1 hardly ever  
5 nearly every day  
Coding reversed by us. Signs of correlations reversed accordingly.

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-HL/c/sq/v/4/b | SNR=  
| 1978           | - .08  
| 1980           | - .13  
| 1984           | - .07  
| 1988           | - .04  |
| O-SLW/c/sq/n/11/b | SNR=  
| 1978           | + .09  
| 1980           | + .09  
| 1984           | + .07  
| 1988           | + .04  |

β's controlled for age, gender, perceived class and marital status.
Findings on Happiness & FRIENDSHIP

**Study**

**PALIS 1983**

*Reported in:*
Palisi, B. J. & Canning, C.
Urbanism and Social Psychological Well-being: A Cross-Cultural Test of Three Theories

*Population:*
Males, metropolitan areas England, USA, Australia, 1977-1980

*Sample:*

*Non-Response:*
67%

*N:*
752 (London 226, L.A. 292, Sydney 234)

---

**Measured Correlate**

*Class:*
Visits to friends Code: F 6.3.1

*Measurement:*
Single direct question on how frequently (daily or never) one visits friends

*Measured Values:*

*Error Estimates:*

*Remarks:*

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cw/mq/v/2/a</td>
<td>r=+.23</td>
<td>London</td>
</tr>
<tr>
<td></td>
<td>rpc=+.12 ns</td>
<td></td>
</tr>
<tr>
<td></td>
<td>r=+.08</td>
<td>Los Angeles</td>
</tr>
<tr>
<td></td>
<td>rpc=+.18 p&lt;.05</td>
<td></td>
</tr>
<tr>
<td></td>
<td>r=+.12</td>
<td>Sydney</td>
</tr>
<tr>
<td></td>
<td>rpc=+.24 p&lt;.001</td>
<td></td>
</tr>
</tbody>
</table>

Controlled for: Neighborhood (centre or suburb), type of house (single family home or not), marital status, education, native born or not, and age.
**Study**

**PALIS 1986A**

**Reported in:** Palisi, B.J.
Friendship in Three Metropolitan Areas: Cross-Cultural Evidence of Its voluntariness

**Population:** Males, metropolitan areas: London, Los Angeles and Sydney, 1977-80

**Sample:**

**Non-Response:** 67%

**N:** N: 752 (London 226, L.A. 292, Sydney 234)

---

### Measured Correlate

**Class:** Visits to friends  Code: F 6.3.1

**Measurement:** Single direct question on how frequently (daily to never) respondents visit with friends in either's home.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/2/a</td>
<td>r=+.08 ns rpc=+.12 ns r=+.12 p&lt;.05 rpc=+.16 p&lt;.01 r=+.23 p&lt;.001 rpc=+.23 p&lt;.001</td>
<td>London Los Angeles Sydney Rpc controlled for: marital status, education and age.</td>
</tr>
<tr>
<td>M-FH/cm/sq/v/4/a</td>
<td>r=+.08 ns rpc=+.13 p&lt;.05 r=+.10 p&lt;.05 rpc=+.07 p&lt;.01 r=+.09 ns rpc=+.13 ns</td>
<td>London Los Angeles Sydney</td>
</tr>
</tbody>
</table>
### Study

**BRADB 1965/1**

- **Reported in:** Bradburn, N.M. & Caplovitz D.  
  Reports on happiness  
  Aldine Publishing Company, 1965, Chicago USA
- **Population:** Adult, general public, 4 towns, varying in economic prosperity, Illinois, USA, 1962
- **Sample:**
- **Non-Response:** -
- **N:** 2006

### Measured Correlate

- **Class:** Telephone calls with friends  
  Code: F 6.3.2
- **Measurement:** Closed question rated on a 6-point scale: none / less than one a day / once a day or more.

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cw/mq/v/4/e | G' = + .22 (01) | Index of Positive Affects only: G' = +.22 (01)  
  U-shaped curve: Those with less than 1 telephone contact a day having most positive feelings.  
  Lower among high S.E.S : G' = +.12 (ns)  
  Stronger among low S.E.S. : G' = +.26 (ns) |
### Study

<table>
<thead>
<tr>
<th>Reported in:</th>
<th>Bradburn, N.M.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>The structure of psychological well-being</td>
</tr>
<tr>
<td></td>
<td>Aldine Publishing Company, 1969, Chicago, USA</td>
</tr>
</tbody>
</table>

| Population: | 21-60 aged, general public, urban areas, USA, 1963 - 64 |
| Sample: |
| Non-Response: | ± 20%, Attrition |
|             | ± 30% |
| N: | 2787 |

### Measured Correlate

| Class: | Telephone calls with friends | Code: F 6.3.2 |
| Measurement: | Direct question on how many times a day during the past few weeks, rated on a 6-point scale. |

### Measured Values:

### Error Estimates:

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v2/a</td>
<td>G=+</td>
<td>Data T1. Not computed for summed ABS. Index of Positive Affects: G= +.20 Index of Negative Affects: G= +.08</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

<table>
<thead>
<tr>
<th>Study</th>
<th>PAYNE 1974</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Payne, R.L.</td>
</tr>
<tr>
<td>N.M. Bradburn's measures of psychological well-being: an attempt at replication.</td>
<td></td>
</tr>
<tr>
<td>Population:</td>
<td>Employed males, supervising jobs, England, 197?</td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td>4% incomplete.</td>
</tr>
<tr>
<td>N:</td>
<td>192</td>
</tr>
</tbody>
</table>

**Measured Correlate**

| Class: | Telephone calls with friends |
| Measurement: | Direct question on number of times per day, rated on a 5-point scale ranging from 'none' to '4 or more'. |

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/5/a</td>
<td>G=</td>
<td>Index of Positive Affects: G = -.08</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Index of Negative Affects: G = -.21</td>
</tr>
</tbody>
</table>

PAYNE 1974: Telephone calls with friends, measured correlates happiness.


Employed males, supervising jobs, England, 197?

4% incomplete.

N: 192

Telephone calls with friends, measured correlates happiness. Direct question on number of times per day, rated on a 5-point scale ranging from 'none' to '4 or more'.

Index of Positive Affects: G = -.08

Index of Negative Affects: G = -.21
### Study

**ALEXA 1968**

*Reported in:* Alexander, W.E.


*Population:* Schizophrenic males non-hospitalized, Monroe County, New York, USA, 1964-65

*Sample:*

*Non-Response:* 28%, most of them patients' or family member refusal

*N:* 178

### Measured Correlate

*Class:* Attendance of parties  
*Code:* F 6.3.3

*Measurement:* Direct question: never / once a month or less / more than once a month

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cw/mq/v/4/f</td>
<td>G = +</td>
<td>Index of Positive Affects only: G = +.28 (05)</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

<table>
<thead>
<tr>
<th>Study</th>
<th>BULAT 1973</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Bulatao, R.A.</td>
</tr>
<tr>
<td>Population:</td>
<td>21+ aged, general public, Metro Manila, Philippines, 1972</td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td>-</td>
</tr>
<tr>
<td>N:</td>
<td>941</td>
</tr>
</tbody>
</table>

Measured Correlate

| Class: | Attendance of parties |
| Code: | F 6.3.3 |
| Measurement: | Direct question: not at all / once / more than once in the past week. |

Measured Values:

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-BW/c/sq/l/11/a | G = + | Males: G = +.42  
                             Females: G = +.47 |
| O-HL/c/sq/v/3/f  | G = + | Males: G = +.19  
                             Females: G = +.53 |

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
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Study  

**PALIS 1986A**  

- **Reported in:** Palisi, B.J.  
- **Title:** Friendship in Three Metropolitan Areas: Cross-Cultural Evidence of Its voluntariness  
- **Population:** Males, metropolitan areas: London, Los Angeles and Sydney, 1977-80  

- **Sample:**  
  - **Non-Response:** 67%  
  - **N:** N: 752 (London 226, L.A. 292, Sydney 234)  

**Measured Correlate**  

- **Class:** Intimate discussions  
- **Code:** F 6.3.5  
- **Measurement:** Single direct question on how frequently (daily to never) respondents have intimate discussions with friends.

**Observed Relation with Happiness**  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-BB/cm/mq/v/2/a</td>
<td>r=+.11  ns</td>
<td>Los Angeles</td>
</tr>
<tr>
<td></td>
<td>rpc=+.12  p&lt;.05</td>
<td></td>
</tr>
<tr>
<td></td>
<td>r=+.27  p&lt;.001</td>
<td>Sydney</td>
</tr>
<tr>
<td></td>
<td>rpc=+.30  p&lt;.001</td>
<td>Rpc controlled for: marital status, education and age. In London discussions with friends not measured.</td>
</tr>
<tr>
<td>M-FH/cm/sq/v/4/a</td>
<td>r=+.02  ns</td>
<td>Los Angeles</td>
</tr>
<tr>
<td></td>
<td>rpc=+.06  ns</td>
<td></td>
</tr>
<tr>
<td></td>
<td>r=+.14  p&lt;.01</td>
<td>Sydney</td>
</tr>
<tr>
<td></td>
<td>rpc=+.15  p&lt;.01</td>
<td></td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

**Study**

**MOSER 1969**

*Reported in:* Moser - Peters, C.M.J.

*Population:* Adult, general public, Utrecht, city, The Netherlands, 1967

*Sample:* 14%
unattainable etc.

*N:* 300

**Measured Correlate**

*Class:* Friends are friends  Code: F 6.4.2

*Measurement:* Question: 'Do your friends and acquaintances also know each other?'
Response categories ranged from 'no, practically none' (1) to 'yes, practically all' (5).

*Measured Values:*

*Error Estimates:*

*Remarks:*

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/5/c</td>
<td>G=+.24</td>
<td>p&lt;.05</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Study: JONG 1969

Reported in: Jong-Gierveld, J. de
The unmarried. (In Dutch: De ongehuwden).

Population: 30-55 aged, general public, Amsterdam, The Netherlands, 1965

Sample:
Non-Response: 31%
N: 600

Measured Correlate

Class: Married friends  Code: F 6.4.3
Measurement: Direct questions.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query | Statistics | Remarks
--- | --- | ---
O-SL?/?/sq/v/5/a | r=+ | Computed for never marrieds only.

Males : r = +.05
Females: r = +.09
Findings on Happiness & FRIENDSHIP Correlate Code: F 6

Study

COSTA 1985

Reported in: Costa, P.T., Zonderman, A.B. & McCrae, R.R.


Sample:

Non-Response: Attrition T1-T3: 82%
N: 196

Measured Correlate

Class: Attitudes to friendship Code: F 6.6
Measurement: Obtained by factor analysis.
Factor consisting of 8 items.
Items with high loading:
"My many friends make my life happy and cheerful".
"I have more friends than I ever had before".
"How many friends do you have?"
Questions administered at T1.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-A/h/sq/v/3/a</td>
<td>r = +.29</td>
<td>p &lt; .01</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

**ABRAM 1972**

*Reported in*: Abrams, M. & Hall, J.

*Population*: 15+ aged, general public, Britain, 1971

*Sample*: N: 213

**Measured Correlate**

*Class*: Satisfactions with friends  
Code: F 6.6.2

*Measurement*: Closed question rated on an 11-point self-anchoring scale, based on Cantril (1965)

*Measured Values*: 

*Error Estimates*: 

*Remarks*: 

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
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</tr>
</thead>
<tbody>
<tr>
<td>O-SLW/c/sql/l/11/b</td>
<td>r = +.08</td>
<td></td>
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</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study  ANDRE 1976/1

Reported in: Andrews, F.M. & Withey, S.B.
Social Indicators of Well-being: Americans’ Perceptions of Life Quality
Plenum Press, 1976. New York, USA

Population: 18+ aged, general public, non-institutionalized, USA, 1972/75

Sample: N: 1297
Non-Response: 24%

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement:

Index of questions: “How do you feel about . . . .?”
1. social contacts
2. the time spent with friends.
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/
mixed/ mostly satisfied/ pleased/ delighted

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-DT/u/sqt/v/7/a E²=+.34 Unaffected by sex
Findings on Happiness & FRIENDSHIP  
Correlate Code: F 6

---

**Study**  
**ANDRE 1976/3**

*Reported in:* Andrews, F.M. & Withey, S.B.  
Social Indicators of Well-being: Americans' Perceptions of Life Quality  
Plenum Press, 1976, New York, USA

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

*Sample:*

*Non-Response:* 38%

*N:* 1072

---

**Measured Correlate**

*Class:* Satisfactions with friends  
Code: F 6.6.2

*Measurement:* Closed question: "How do you feel about the things you do and the times you have with your friends?"  
Rated on a 7-point scale: terrible/ unhappy/ mostly dissatisfied/ mixed/ mostly satisfied/ pleased/ delighted

**Observed Relation with Happiness**

*Happiness Query*  
O-DT/u/sqt/v/7/a  
E²=.36

---

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### Study

<table>
<thead>
<tr>
<th>ANDRE 1976/5</th>
</tr>
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</table>

**Reported in:** Andrews, F.M. & Withey, S.B.  
*Social Indicators of Well-being: Americans' Perceptions of Life Quality*  
Plenum Press, 1976, New York, USA  

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

**Sample:**

**Non-Response:**

| N: 222 |

---

### Measured Correlate

**Class:** Satisfactions with friends  
Code: F 6.6.2

**Measurement:** 3-item index containing satisfaction with the people one sees socially, with one's friends, and with the things one does and the times one has with friends: "How do you feel about...?"  
Rated on a 7-point scale: terrible/unhappy/mostly dissatisfied/mixed/mostly satisfied/pleased/delighted

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/7/a</td>
<td>r=+.46</td>
<td></td>
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</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Study

AUSTR 1984/2

Reported in: Austrom, D.R.
The consequences of being single
Peter Lang Publ., New York, 1984


Sample: Non-Response: 45%
N: 1038

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Single closed question: All things considered, how satisfied or dissatisfied are you with your friendships (the number of friends you have, the type of people they are, the things you do together). Rated on a 11-point scale ranging from completely dissatisfied to completely satisfied.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-SLW/u/sq/n/11/a r=+.47

ALL Ss (married (including not formally married cohabitating Ss (considered as married) and non-married):

ß = +.18 after control for: gender, age, household income, marital status, being in love, desire to change dating pattern or marital status, locus of control, social support (1. instrumental: problems managing money, problems deciding how to spend money, not enough money to do things, unsatisfying job, not enough money to get by on; 2. expressive: having no close companions, having no one to depend on, unsatisfactory sex life, problems communicating, dissatisfied with marital status, having not enough close friends, having no one to show love/affection, too dependent on others, not having children, having no one to understand problems; 3. interpersonal demands: having too many responsibilities, having no one to depend on, too many demands on time, problems communicating, problems with children, problems with spouse/ex-spouse, conflicts with those who are close), and satisfaction with: job and financial situation and love relationships.
NON-MARRIED Ss ONLY:

- males: $r = +.48$ $\beta = +.27$
- females: $r = +.42$ $\beta = +.10$

Beta's controlled for the same variables as above, except marital status and gender.
<table>
<thead>
<tr>
<th>Study</th>
<th>BAKER 1976</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reported in:</strong></td>
<td>Baker, E.K.</td>
</tr>
<tr>
<td></td>
<td>Satisfaction with life-events to locus-of-control</td>
</tr>
<tr>
<td></td>
<td>Unpublished PhD dissertation, University of Wisconsin, Madison, USA, 1976</td>
</tr>
<tr>
<td><strong>Population:</strong></td>
<td>55+ aged males, USA, 1971</td>
</tr>
<tr>
<td><strong>Sample:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Response:</strong></td>
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</tr>
<tr>
<td><strong>N:</strong></td>
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</table>

### Measured Correlate

<table>
<thead>
<tr>
<th>Class:</th>
<th>Satisfaction with friends</th>
<th>Code: F 6.6.2</th>
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<tbody>
<tr>
<td><strong>Measurement:</strong></td>
<td>Question: How much dissatisfaction do you get from your friendships?</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated on 7 point scale ranging from 'completely dissatisfied' to 'completely satisfied'.</td>
<td></td>
</tr>
<tr>
<td><strong>Measured Values:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Error Estimates:</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Remarks:</strong></td>
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### Observed Relation with Happiness

<table>
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<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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<tr>
<td>O-SLW/u/sq/v/7/a</td>
<td>r=+.11</td>
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</table>

Reported in: Unpublished PhD dissertation, University of Wisconsin, Madison, USA, 1976

Class: Satisfactions with friends | Code: F 6.6.2
### Study: BAKER 1976

**Reported in:** Baker, E.K.  
Satisfaction with life-events to locus-of-control  
Unpublished PhD dissertation, University of Wisconsin, Madison, USA, 1976

**Population:** 55+ aged males, USA, 1971

**Sample:**

**Non-Response:**

<table>
<thead>
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<th>N</th>
</tr>
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<tbody>
<tr>
<td>200</td>
</tr>
</tbody>
</table>

### Measured Correlate

**Class:** Satisfactions with friends  
Code: F 6.6.2

**Measurement:**

**Question:** How much satisfaction do you get from your friendships?  
Rated on 7 point scale ranging from 'completely dissatisfied' to 'completely satisfied'.

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
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</thead>
<tbody>
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### Study

**BAKER 1976**

- **Reported in:** Baker, E.K.
  
  Satisfaction with life-events to locus-of-control

  Unpublished PhD dissertation, University of Wisconsin, Madison, USA, 1976

- **Population:** 55+ aged males, USA, 1971

- **Sample:**

- **Non-Response:**
  
  N: 200

### Measured Correlate

- **Class:** Satisfactions with friends  
  Code: F 6.6.2

- **Measurement:**
  
  Question: How satisfied are you with your friendships?

  Rated on 7 point scale ranging from 'completely dissatisfied' to 'completely satisfied'.

- **Measured Values:**

- **Error Estimates:**

- **Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
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### Study

**BAKKE 1974**

**Reported in:** Bakker, P. & Berg, N. van de
Determinants and correlates of happiness.

**Population:** 20-65 aged, general public, The Netherlands, 1968

**Sample:**

**Non-Response:** 34% refusal and unattainable.

**N:** 1552

### Measured Correlate

**Class:** Satisfactions with friends  **Code:** F 6.6.2

**Measurement:** Closed question rated on an open graphic scale ranging from 'very dissatisfied' to 'very satisfied'.

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>O-HP/g/sq/ol/7/a</td>
<td>G=+.59 p&lt;.05</td>
<td>Unaffected by age and sex. Lower among medium S.E.S. Stronger among low educational level.</td>
</tr>
</tbody>
</table>
Study  
BALAT 1993

Reported in: Balatsky, G. & Diener, E.
Subjective well-being among Russian students.

Population: Students, Moscow and Glazov (Ural), Russia, 1990
Sample: Non-probability chunk sample
Non-Response: not reported
N: 116

Measured Correlate

Class: Satisfactions with friends  Code: F 6.6.2
Measurement: Single question: "How do you feel about your friendships right now?"
Rated on 7-point scale from: 1. Terrible........to 7. Delighted.

Measured Values: M= 5.04; SD= 1.36

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
O-DT/c/sq/v/7/b  r=+.12  ns
O-DT/u/sq/v/7/a  r=+.17  ns
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study

BECKE 1984

Reported in: Becker, J.W.; Vink, R.
A comparison between the unemployed, disabled workers and the employed
Rijswijk: Sociaal en Cultureel Planbureau, 1984

Population: 18-64 aged, general public, The Netherlands, 1982
Sample: Probability multi-stage cluster sample
Non-Response: 68-94%
N: 465

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement: Single question:
"To what extent are you satisfied with your friends and acquaintances?"
0=very dissatisfied
1=dissatisfied
2=neither satisfied nor dissatisfied
3=satisfied
4=very satisfied

Measured Values: M=1.9645
SD=0.6718

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-SLL/c/sq/v/5/a r=+.23 p<.000 working
r=+.29 p<.000 unemployed
r=+.26 p<.000 disabled
<table>
<thead>
<tr>
<th>Study</th>
<th>BERNO 1985</th>
<th>Page in Report: 39</th>
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<tbody>
<tr>
<td>Reported in:</td>
<td>Bernow, R</td>
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<tr>
<td></td>
<td>Livskvalitet i Sverige. (Lifequality in Sweden)</td>
<td></td>
</tr>
<tr>
<td>Population:</td>
<td>18-70 aged, general public, Sweden., 1982</td>
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<td>Sample:</td>
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<td>Non-Response:</td>
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<tr>
<td>N:</td>
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<td>Measured Correlate</td>
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<tr>
<td>Class:</td>
<td>Satisfactions with friends</td>
<td>Code: F 6.6.2</td>
</tr>
<tr>
<td>Measurement:</td>
<td>Single direct question</td>
<td></td>
</tr>
<tr>
<td>Measured Values:</td>
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</tr>
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<td>Error Estimates:</td>
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**Observed Relation with Happiness**

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<tbody>
<tr>
<td>O-SLW/c/sqt/v/7/a</td>
<td>r=+.43</td>
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</tbody>
</table>
Findings on Happiness & FRIENDSHIP

BERNO 1985

Reported in: Bernow, R
Livskvalitetens i Sverige. (Lifequality in Sweden)

Population: 18-70 aged, general public, Sweden., 1982

Sample:
Non-Response: ?
N: 1558

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement:

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-SLW/c/sqt/v/r/a r=+.46
<table>
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<tr>
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<th>BERNO 1985</th>
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<tr>
<td><strong>Reported in:</strong></td>
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<tr>
<td>Livskvalitet i Sverige. (Lifequality in Sweden)</td>
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<tr>
<td><strong>Population:</strong></td>
<td>18-70 aged, general public, Sweden., 1982</td>
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<tr>
<td><strong>Sample:</strong></td>
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<td><strong>Non-Response:</strong></td>
<td>?</td>
</tr>
<tr>
<td><strong>N:</strong></td>
<td>1558</td>
</tr>
</tbody>
</table>

### Measured Correlate

- **Class:** Satisfactions with friends  
  Code: F 6.6.2
- **Measurement:** Single direct question

### Observed Relation with Happiness

<table>
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<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>O-SLW/c/sqt/v7/a</td>
<td>$r = +.43$</td>
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</tr>
</tbody>
</table>
### Study

**BRAEN 1991**


*On Work and Life Satisfaction*

M. Eklund: On vocational rehabilitation in Northern Sweden, Diss. 1991 Univ. of Umea, pp 95-107

**Population:** 25-55 aged, vocationally active, Umea, Northern Sweden, 1986/87

**Sample:** Probability stratified sample

**Non-Response:**

*N:* 163

### Measured Correlate

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

**Measurement:**

1. How satisfactory is this aspect of your life?......
2. Contacts with friends and acquaintances.
   1. very dissatisfying
   2. dissatisfying
   3. rather dissatisfying
   4. rather satisfying
   5. satisfying
   6. very satisfying

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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<tbody>
<tr>
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<td>rs=.+34</td>
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### Study

**CAMPB 1981**

<table>
<thead>
<tr>
<th>Reported in:</th>
<th>Campbell, A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Sense of Well-Being in America</td>
<td></td>
</tr>
</tbody>
</table>

| Population: | 18+ aged, general public, non-institutionalized USA, 1978 |

| Sample: |

| Non-Response: | about 20 % |

| N: | 3692 |

### Measured Correlate

- **Class:** Satisfactions with friends  
  Code: F 6.6.2

- **Measurement:** Single closed question on amount of satisfaction with friendships, rated on a 7-point scale ranging from completely dissatisfied to completely satisfied.

### Observed Relation with Happiness

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>O-SLW/c/sq/n/7/a</td>
<td>r=+.39</td>
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</tr>
</tbody>
</table>
**Study**

**DIENE 1991/1**

*Reported in:* Diener, E. & Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

*Population:* University students, Austria, 1991

*Sample:*

*Non-Response:*

<p>| | |</p>
<table>
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<tr>
<th></th>
<th></th>
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<tbody>
<tr>
<td><strong>N:</strong></td>
<td>319</td>
</tr>
</tbody>
</table>

---

**Measured Correlate**

*Class:* Satisfactions with friends  
*Code:* F 6.6.2

*Measurement:* Single direct question rated on a 7-point Delighted-Terrible scale.  
Part of a 12 item inventory of domain-satisfactions

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v7/c</td>
<td>r=+.45  p&lt;.01</td>
<td>females</td>
</tr>
<tr>
<td></td>
<td>r=+.47  p&lt;.01</td>
<td>males</td>
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</table>

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**Study**  
**DIENE 1991/2**  

*Reported in:* Diener, E. & Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street,  
Champaign, IL 61820 U.S.A.  

*Population:* University students, Bahrain, 1991  

*Sample:*  

*Non-Response:*  

*N:* 275  

---

**Measured Correlate**  

**Class:** Satisfactions with friends  

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale.  
Part of a 12 item inventory of domain satisfactions  

**Measured Values:**  

**Error Estimates:**  

**Remarks:**  

---

**Observed Relation with Happiness**  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
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<tbody>
<tr>
<td>O-DT/c/sq/v/7/c</td>
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<td>p&lt;.01</td>
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Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
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DIENE 1991/3

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Population: University students, Bangladesh, 1991

Sample:

Non-Response: 262

N: 262

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-DT/c/sq/v/7/c r=-.05 ns females
r=+.17 p<.01 males
Findings on Happiness & FRIENDSHIP

**Study**

**DIENE 1991/4**

*Reported in:* Diener, E.& Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

*Population:* University students, Brazil, 1991

*Sample:

*N:* 268

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**Measured Correlate**

*Class:* Satisfactions with friends  Code: F 6.6.2

*Measurement:* Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

*Measured Values:

*Error Estimates:

*Remarks:

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**Observed Relation with Happiness**

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### Study

**Reported in:** Diener, E. & Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, Cameroon, 1991

**Sample:**

**Non-Response:**

| N | 159 |

### Measured Correlate

**Class:** Satisfactions with friends  
Code: F 6.6.2

**Measurement:** Single direct question rate on a 7-point Delighted-Terrible scale.  
Part of a 12 item inventory of domain-satisfactions

### Measured Values:

### Error Estimates:

### Remarks:

### Observed Relation with Happiness

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Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study

DIENE 1991/6

Reported in:  Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street,
Champaign, IL 61820 U.S.A.

Population:  University students, Canada, 1991

Sample:    

Non-Response:  

N:  1600

Measured Correlate

Class:  Satisfactions with friends  Code: F 6.6.2

Measurement:  Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain-satisfactions

Measured Values:

Error Estimates:    

Remarks:    

Observed Relation with Happiness

Happiness Query    Statistics    Remarks

O-DT/c/sq/v/7/c    r=+.45    p<.01  females

r=+.49    p<.01  males

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 82 of 159
Findings on Happiness & FRIENDSHIP

**Study**

**DIENE 1991/7**

**Reported in:** Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, Chile, 1991

**Sample:**

**Non-Response:**

**N:** 256

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**Measured Correlate**

**Class:** Satisfactions with friends  Code: F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain-satisfactions

**Measured Values:**

**Error Estimates:**

**Remarks:**

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**Observed Relation with Happiness**

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Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

**Study**

**DIENE 1991/8**

**Reported in:** Diener, E. & Diener, M.

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem

Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, Egypt, 1991

**Sample:**

**Non-Response:**

N: 274

**Measured Correlate**

**Class:** Satisfactions with friends Code: F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

**Measured Values:**

**Error Estimates:**

**Remarks:**

**Observed Relation with Happiness**

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Study

DIENE 1991/9

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, Ill 61820 U.S.A.

Population: University students, Finland, 1991
Sample:
Non-Response:
N: 270

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement: Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain-satisfactions

Measured Values:
Error Estimates:
Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-DT/c/sq/v/7/c r=.45 p<.01 females
r=.41 p<.01 males
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study  
DIENE1991/10

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Population: University students, Germany, 1991

Sample:

Non-Response: 540

N: 540

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks

O-DT/c/sq/v/7/c  r=+.48  p<.01  females
r=+.45  p<.01  males

Print date: 7-2-2003
World Database of Happiness: www.eur.nl/fsw/research/happiness
Page 86 of 159
Findings on Happiness & FRIENDSHIP

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem

Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Population: University students, Greece, 1991

Sample:

Non-Response: 164

N:

Measured Correlate

Class: Satisfactions with friends  Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Observed Relation with Happiness

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Findings on Happiness & FRIENDSHIP Correlate Code: F 6

Study  
**DIENE1991/12**  
Reported in: Diener, E.& Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, Ill 61820 U.S.A.  
Population: University students, India, 1991  
Sample:  
Non-Response:  
N: 234  

Measured Correlate  
Class: Satisfactions with friends Code: F 6.6.2  
Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions  
Measured Values:  
Error Estimates:  
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Observed Relation with Happiness  
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Findings on Happiness & FRIENDSHIP

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem

DIENE1991/13

Reported in: Diener, E. & Diener, M.
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Population: University students, Israel, 1991

Sample:

Non-Response:

N: 317

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-DT/c/sq/v/7/c r=+.42 p<.01 females
r=+.53 p<.01 males

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsw/research/happiness Page 89 of 159
Findings on Happiness & FRIENDSHIP

DIENE1991/14

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Population: University students, Japan, 1991

Sample:

Non-Response:

N: 1200

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
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r=+.37  p<.01  males
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### Measured Correlate

- **Class:** Satisfactions with friends  Code: F 6.6.2
- **Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

### Measured Values:

### Error Estimates:

### Remarks:

### Observed Relation with Happiness

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- For females
- For males

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 91 of 159
Findings on Happiness & FRIENDSHIP

DIENE1991/16

Reported in: Diener, E. & Diener, M. 
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem 
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, Il 61820 U.S.A.

Population: University students, Kenya, 1991

Sample:

Non-Response: 462

N: 462

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

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### Study

**DIENE1991/17**

**Reported in:** Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, Korea, 1991

**Sample:**

**Non-Response:**

**N:** 241

### Measured Correlate

**Class:** Satisfactions with friends

**Code:** F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

### Observed Relation with Happiness

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### Findings on Happiness & FRIENDSHIP

**Code:** F 6

**Single direct question rated on a 7-point Delighted-Terrible scale.**

**Part of a 12 item inventory of domain-satisfactions**

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**DIENE1991/18**

**Reported in:** Diener, E. & Diener, M.

*Cross-Cultural Correlates of Life Satisfaction and Self-Esteem*

Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, Mexico, 1991

**Sample:**

**Non-Response:**

*N:* 220

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**Measured Correlate**

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale.  
Part of a 12 item inventory of domain-satisfactions

**Measured Values:**

**Error Estimates:**

**Remarks:**

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**Observed Relation with Happiness**

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## Study

**DIENE1991/19**

**Reported in:** Diener, E. & Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street,  
Champaign, IL 61820 U.S.A.

**Population:** University students, Netherlands, 1991

**Sample:**

**Non-Response:**

**N:** 352

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## Measured Correlate

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

**Measured Values:**

**Error Estimates:**

**Remarks:**

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## Observed Relation with Happiness

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Findings on Happiness & FRIENDSHIP

Study

DIENE1991/20

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street,
Champaign, IL 61820 U.S.A.

Population: University students, New Zealand, 1991

Sample:

Non-Response: 314

N: 314

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain-satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks

O-DT/c/sq/v/7/c r=+.41 p<.01 females
r=+.44 p<.01 males

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsw/research/happiness Page 96 of 159
### Study

**DIENE1991/21**

- **Reported in:** Diener, E. & Diener, M.  
  Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
  Unpublished paper Dept. of Psychology University of Illinois 403 E. Daniel Street,  
  Champaign, IL 61820 U.S.A.
- **Population:** University students, Norway, 1991
- **Sample:**
- **Non-Response:**
  - **N:** 222

### Measured Correlate

- **Class:** Satisfactions with friends  
  Code: F 6.6.2
- **Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale.  
  Part of a 12 item inventory of domain-satisfactions

### Measured Values:

### Error Estimates:

### Remarks:

### Observed Relation with Happiness

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Findings on Happiness & FRIENDSHIP

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem

Diener, E. & Diener, M.
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, Ill 61820 U.S.A.

Population: University students, Philippines, 1991

Sample:

Non-Response:

N: 953

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Observed Relation with Happiness

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Findings on Happiness & FRIENDSHIP

DIENE1991/23

**Study**

*Reported in:* Diener, E. & Diener, M.

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem

Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

*Population:* University students, Puerto Rico, 1991

*Sample:* 297

*Non-Response:* 297

**Measured Correlate**

*Class:* Satisfactions with friends  Code: F 6.6.2

*Measurement:* Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

*Measured Values:* 

*Error Estimates:* 

*Remarks:* 

**Observed Relation with Happiness**

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Findings on Happiness & FRIENDSHIP

Study: DIENE1991/24

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street,
Champaign, IL 61820 U.S.A.

Population: University students, Singapore, 1991

Sample:

Non-Response:

N: 256

Measured Correlate

Class: Satisfactions with friends  Code: F 6.6.2

Measurement: Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain satisfactions

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
O-DT/c/sq/v/7/c  r=+.40  p<.01  females
r=+.41  p<.01  males
Findings on Happiness & FRIENDSHIP

**Study**

**DIENE1991/25**

**Reported in:** Diener, E. & Diener, M.

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem

Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, South Africa, 1991

**Sample:**

**Non-Response:**

**N:** 275

---

**Measured Correlate**

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/c</td>
<td>r=+.24</td>
<td>females</td>
</tr>
<tr>
<td></td>
<td>r=+.35</td>
<td>males</td>
</tr>
<tr>
<td></td>
<td>p&lt;.01</td>
<td></td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

[58x712]Findings on Happiness & FRIENDSHIP Correlate Code: F 6

[157x489]Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain-satisfactions

[DIENE1991/26]

[59x525]Measured Correlate

Measurement:
Remarks:

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Population: University students, Spain, 1991
Sample:
Non-Response:
N: 275

**Measured Correlate**

*Class:* Satisfactions with friends  Code: F 6.6.2

*Measurement:* Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

*Observed Relation with Happiness*

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/c</td>
<td>r=+.22</td>
<td>females</td>
</tr>
<tr>
<td></td>
<td>r=+.41</td>
<td>males</td>
</tr>
</tbody>
</table>

Print date: 7-2-2003  World Database of Happiness: www.eur.nl/fsw/research/happiness  Page 102 of 159
Findings on Happiness & FRIENDSHIP

**Study**

DIENE1991/27

*Reported in:* Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

*Population:* University students, Tanzania, 1991

*Sample:*

*Non-Response:*

N: 222

---

**Measured Correlate**

*Class:* Satisfactions with friends  Code: F 6.6.2

*Measurement:* Single direct question rated on a 7-point Delighted-Terrible scale.
Part of a 12 item inventory of domain-satisfactions

*Measured Values:*

*Error Estimates:*

*Remarks:*

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/c</td>
<td>r=+.33</td>
<td>females</td>
</tr>
<tr>
<td></td>
<td>r=+.25</td>
<td>males</td>
</tr>
<tr>
<td></td>
<td>p&lt;.01</td>
<td></td>
</tr>
</tbody>
</table>

World Database of Happiness: www.eur.nl/fsw/research/happiness
### Study

**DIENE1991/28**

*Reported in:* Diener, E. & Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

*Population:* University students, Thailand, 1991

*Sample:*

*Non-Response:* 571

*Measured Values:*

*Error Estimates:*

*Remarks:*

### Measured Correlate

*Class:* Satisfactions with friends  
*Code:* F 6.6.2

*Measurement:* Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/c</td>
<td>r=+.28</td>
<td>females</td>
</tr>
<tr>
<td></td>
<td>r=+.35</td>
<td>males</td>
</tr>
<tr>
<td></td>
<td>p&lt;.01</td>
<td></td>
</tr>
</tbody>
</table>

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
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Findings on Happiness & FRIENDSHIP

Study

DIENE1991/29

Reported in: Diener, E. & Diener, M.
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.
Population: University students, Turkey, 1991
Sample:
Non-Response: 287

N: 287

Measured Correlate

Class: Satisfactions with friends
Code: F 6.6.2
Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Measured Values:
Error Estimates:
Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v7/c</td>
<td>r=+.44 p&lt;.01</td>
<td>females</td>
</tr>
<tr>
<td></td>
<td>r=+.39 p&lt;.01</td>
<td>males</td>
</tr>
</tbody>
</table>
### Study

**DIENE1991/30**

**Reported in:** Diener, E. & Diener, M.  
Cross-Cultural Correlates of Life Satisfaction and Self-Esteem  
Unpublished paper Dept. of Psychology University of Illinois 603 E. Daniel Street, Champaign, IL 61820 U.S.A.

**Population:** University students, U.S.A, 1991

**Sample:**

**Non-Response:**

**N:** 1234

### Measured Correlate

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

**Measurement:** Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain satisfactions

### Observed Relation with Happiness

**Happiness Query**  | **Statistics** | **Remarks**
--- | --- | ---
O-DT/c/sq/v/7/c | r=+.41  p<.01 | females
r=+.48  p<.01 | males
Findings on Happiness & FRIENDSHIP Correlate Code: F 6

Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Cross-Cultural Correlates of Life Satisfaction and Self-Esteem
Unpublished paper Dept. of Psychology University of Illinois603 E. Daniel Street, Champaign, IL 61820 U.S.A.

Diener, E.& Diener, M.

University students, Yugoslavia, 1991

Sample:

Non-Response:

N: 332

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement: Single direct question rated on a 7-point Delighted-Terrible scale. Part of a 12 item inventory of domain-satisfactions

Observed Relation with Happiness

Happiness Query          Statistics           Remarks

O-DT/c/sq/v7/c           r=+.32 p<.01          females
                        r=+.63 p<.01          males
Findings on Happiness & FRIENDSHIP  

Study  
**GLENN 1981C**  
Reported in: Glenn, N.D.; Weaver, C.N.  
The contribution of marital happiness to global happiness  

Population: Marrieds, non-institutionalized, USA, 1973-78  
Non-Response: 9000 (1500 each year)  

Measured Correlate  
Class: Satisfactions with friends  
Code: F 6.6.2  

Measurement: Direct question: “For each area of life I am going to name, tell me the number that shows how much satisfaction you get from that area? 1. a very great deal, 2. a great deal, 3. quite a lot, 4. a fair amount, 5. some, 6. a little, 7. none”  

Measured Values:  

Observed Relation with Happiness  

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-HL/c/sq/v/3/aa | $r=+$      | Married persons working full-time:  
- white men: $r=+.22$ $b=.03$  
- black men: $r=+.23$ $b=.11$  
- white women: $r=+.29$ $b=.01$  
- black women: $r=+.13$ $b=.06$  
  All married women:  
- white: $r=+.30$ $b=.06$  
- black: $r=+.26$ $b=.11$  

$r=+$ Married persons working full-time:  
- white men: $r=+.22$ $b=.03$  
- black men: $r=+.23$ $b=.11$  
- white women: $r=+.29$ $b=.01$  
- black women: $r=+.13$ $b=.06$  
  All married women:  
- white: $r=+.30$ $b=.06$  
- black: $r=+.26$ $b=.11$  

Beta =+  

8 controlled for marital happiness, satisfaction with: work, financial situation, community, nonworking activities, family life and health
Findings on Happiness & FRIENDSHIP

**Study**

**HARRY 1976**

*Reported in:* Harry, J.
Evolving sources of happiness for men over the life cycle: A structural analysis

*Population:* 18+ aged males, living with family, USA, 1973

*Sample*

*Non-Response:*

*N:* 374

---

**Measured Correlate**

*Class:* Satisfactions with friends  
*Code:* F 6.6.2

*Measurement:* Single item self-rating on how much satisfaction one receives from friends

*Measured Values*

*Error Estimates*

*Remarks*

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/3/aa</td>
<td>r=+.14 ns</td>
<td>Single</td>
</tr>
<tr>
<td></td>
<td>r=+.18 ns</td>
<td>Married, no children</td>
</tr>
<tr>
<td></td>
<td>r=+.26 p&lt;.05</td>
<td>Married, pre-school children</td>
</tr>
<tr>
<td></td>
<td>r=+.21 ns</td>
<td>Married, schoolage children</td>
</tr>
<tr>
<td></td>
<td>r=+.32 ns</td>
<td>Married, teenage children</td>
</tr>
<tr>
<td></td>
<td>r=+.27 p&lt;.05</td>
<td>Married, children grown up</td>
</tr>
</tbody>
</table>

---

Print date: 7-2-2003  
World Database of Happiness: www.eur.nl/fsw/research/happiness  
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### Findings on Happiness & FRIENDSHIP

**Correlate Code:** F 6

<table>
<thead>
<tr>
<th>Study</th>
<th>HEADE 1981</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Reported in:</strong></td>
<td>Headey, B.</td>
</tr>
<tr>
<td></td>
<td>The Quality of Life in Australia</td>
</tr>
<tr>
<td></td>
<td>Social Indicators Research, 1981, Vol. 9, 155-181</td>
</tr>
<tr>
<td><strong>Population:</strong></td>
<td>Adults, general public, Australia 1978</td>
</tr>
<tr>
<td><strong>Sample:</strong></td>
<td>Probability sample (unspecified)</td>
</tr>
<tr>
<td><strong>Non-Response:</strong></td>
<td>not reported</td>
</tr>
<tr>
<td><strong>N:</strong></td>
<td>679</td>
</tr>
</tbody>
</table>

### Measured Correlate

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

<table>
<thead>
<tr>
<th>Measurement:</th>
<th>Index of 4 single questions on satisfaction with:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a:</td>
<td>The people you see socially</td>
</tr>
<tr>
<td>b:</td>
<td>Your friends</td>
</tr>
<tr>
<td>c:</td>
<td>The friends of opposite sex you have</td>
</tr>
<tr>
<td>d:</td>
<td>How much you are accepted and included by others</td>
</tr>
<tr>
<td>All scored on a 1-9 rating scale, summation by average.</td>
<td></td>
</tr>
</tbody>
</table>

| Measured Values: | M = 7.1  SD = 0.9 |
| Error Estimates: | |

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

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/u/sqt/v/9/a</td>
<td>r = +.49  p &lt; .001</td>
<td>All items scored on the same rating scale as the question on happiness.</td>
</tr>
<tr>
<td>Beta=+.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Beta’s controlled for satisfaction with:
- self-fulfillment
- sex life
- problem handling
- family activities
- work around the house
- mother
- health
- house
- standard of living
- assertiveness
- fun and enjoyment
- marriage
Betanew 0

married cases
Beta's controlled for satisfaction with
- self-fulfillment
- sex life
- problem handling
- family activities
- work around the house
- mother
- health
- house
- standard of living
- assertiveness
- fun and enjoyment
- marriage
Findings on Happiness & FRIENDSHIP

**Study**

**HEADE 1984**

**Reported in:** Headey,B., Holmstroem,E. & Wearing,A.
The impact of life events and changes in domain-satisfaction on well-being

**Population:** 18-65 aged, general public, followed 3 years, Melbourne, Australia, 1979-80

**Sample:**

**Non-Response:**

**N:** 184

---

**Measured Correlate**

**Class:** Satisfactions with friends  Code: F 6.6.2

**Measurement:** Closed question rated on a 9-point scale (delighted...terrible) Assessed at T2.

**Measured Values:**

**Error Estimates:**

**Remarks:**

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| A-BB/cm/mq/v2/a  | Beta=+.2 p<.05   | Happiness T2 by satisfaction T2, controlling for happiness T1 and satisfaction T1.  
\[ ß \text{ can be interpreted as regression between change of happiness and change of satisfaction in time.} \]
### Study

**HEADE 1985**

- **Reported in:** Headey, B.  
  Victorian Panel Data 1985  
  Unpublished report, University of Melbourne

- **Population:** 18+ aged, general public, Melbourne, Australia, 1985

- **Sample:**
  - **Non-Response:** 55%
  - **N:** 550

### Measured Correlate

- **Class:** Satisfactions with friends  
  Code: F 6.6.2

- **Measurement:** Single direct question rated on a 9-point delighted-terrible scale.

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/b</td>
<td>Beta=+.3 p&lt;.05</td>
<td>$\beta$ controlled for satisfaction with: marriage and sex, job, standard of living, and health</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study

HEADE 1989

Reported in: Headey, B & Veenhoven, R.

Does happiness induce a rosy outlook?

in: R. Veenhoven, ed. 'How harmful is happiness?'. Universitaire Pers Rotterdam, Rotterdam, the Netherlands, 1989, p. 106-127

Population: 18-65 aged, general public, followed 6 years, Melbourne, Australia, 1981-87

Sample:

Non-Response: Attrition T1-T4:

31%

N: 649

Measured Correlate

Class: Satisfactions with friends

Code: F 6.6.2


Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query

Statistics

Remarks

O-DT/u/sqt/v/10/a

βL = ns

Estimated same-time causal EFFECT ON HAPPINESS of satisfaction with friends (bottom-up).

βL = ns

Estimated same-time causal EFFECT OF HAPPINESS on satisfaction with friends (top-down).

Effect assessed at T1, T2, T3 and T4.

Effects assumed to be identical at all times.

βL is the path-coefficient in a four wave LISREL model. T1 sex, age, SES, extraversion and neuroticism are controlled.
Findings on Happiness & FRIENDSHIP

**Study**

**KENNE 1978**

**Reported in:** Kennedy, L.W., Northcott, H.C. & Kinzel, C.
Subjective evaluation of well-being: Problems and prospects.

**Population:** 18+ aged, general public, Edmonton, Canada, 1977

**Sample:** Probability multi-stage cluster sample

**Non-Response:** not reported

**N:** 340

---

**Measured Correlate**

**Class:** Satisfactions with friends  Code: F 6.6.2

**Measurement:** Single question, full item not reported. Rated:
1 very dissatisfied
7 very satisfied.

**Measured Values:** M= 5.8; SD= 0.65

**Error Estimates:**

**Remarks:** N=340

---

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-SLu/c/sq/n/7/b | B=+.29     | B controlled for satisfaction with:
|                 |            | - standard of living |
|                 |            | - health |
|                 |            | - recreation activities |
|                 |            | - family life. |
### Study  **KENNE 1985**

**Reported in:** Kennedy, L.W. & Mehra, A.N.
Effects of social change on well-being : boom and bust in a western Canadian city
Social Indicators Research, vol.17, 1985, p.101-113

**Population:** 18+ aged, general public, Edmonton, Canada, 1977-84

**Sample:** Probability multi-stage cluster sample

**Non-Response:**

N: 3440 *)

### Measured Correlate

**Class:** Satisfactions with friends  Code: F 6.6.2

**Measurement:**

- Question on satisfaction with friends;
- Rated:
  - 1. very dissatisfied
  - 7. very satisfied

**Measured Values:**

**Error Estimates:**

**Remarks:**

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLu/c/sq/n7/b</td>
<td>Beta=+.1</td>
<td>Stepwise regression by age-group. age group 17-25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Beta controlled for:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>standard of living satisfaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>family satisfaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>job satisfaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>neighbourhood satisfaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>financial better/worsen than year ago</td>
</tr>
<tr>
<td></td>
<td></td>
<td>health satisfaction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>year of significant social change</td>
</tr>
<tr>
<td></td>
<td></td>
<td>education</td>
</tr>
<tr>
<td></td>
<td></td>
<td>things wanted to do satisfaction</td>
</tr>
</tbody>
</table>

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Beta=+.1  age-group 26-45

Beta controlled for:
- standard of living satisfaction
- family satisfaction
- job satisfaction
- health satisfaction
- non work activities satisfaction
- neighbourhood satisfaction
- financial better/worse than year ago
- sex
- year of significant social change
- things wanted to do satisfaction

Beta=+.0  age-group 45+

Beta controlled for:
- standard of living satisfaction
- health satisfaction
- non work activities satisfaction
- financial better/worse than year ago
- job satisfaction
- family satisfaction
- things wanted to do satisfaction
- sex
- year of significant social change
## Study

**MERED 1984**

*Reported in:* Meredith, W.H.  
Level and correlates of perceived quality of life for Lao Hmong refugees in Nebraska
*Social Indicators Research* vol 14, 1984, p 83-97

*Population:* 16+ aged, recent refugees from Laos, USA, 1982

*Sample:* 
*Non-Response:* 0%
*N:* 145

### Measured Correlate

*Class:* Satisfactions with friends  
*Code:* F 6.6.2

*Measurement:* Index of closed questions, rated on a 7-point Delighted-Terrible scale: How do you feel about:
- your friends?
- the people you see socially?
- the things you do and the times you have with your friends?
- how much you are accepted and included by others?

*Measured Values:* 
*Error Estimates:* 
*Remarks:* 

### Observed Relation with Happiness

*Happiness Query*  
*Statistics*  
*Remarks*  

O-DT/u/sqt/v/7/a  
r = +.37  
p < .01
### Study
**MICHA 1980**

**Reported in:** Michalos, A.C.
Satisfaction and Happiness
Social Indicators Research, Vol 8, 1980, 385-422

**Population:** University staff members, Guelph Canada, 1979

**Sample:**
Non-Response: 59%

**N:** 357

### Measured Correlate

**Class:** Satisfactions with friends  
**Code:** F 6.6.2

**Measurement:** Closed question rated on a 7-point scale.

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v7/aa</td>
<td>$r = +.54$</td>
<td>$p &lt; .01$</td>
</tr>
</tbody>
</table>

Controlled for 1 $\text{rpc} = +.21$ ($01$)
Controlled for 1+2 $\text{rpc} = +.13$ ($01$)
Controlled for 1+3 $\text{rpc} = +.24$ ($01$)
Controlled for 1+2+3 $\text{rpc} = +.15$ ($01$)
Controlled for 1 $\beta = +.20$
Controlled for 1+3+4 $\beta = +.20$

1 = Satisfaction with health, financial security, family life, housing, job, free time activity, education, self-esteem, area you live in, ability to get around, security from crime.

2 = Global happiness (indicator 2, HAP 1.1)

3 = Demographic factors (sex, age, marital status, education, family income)

4 = Workstatus.
O-HL/u/sq/v/7/a  r=+.51  p<.01

Controlled for 1  rpc = +.23 (01)
Controlled for 1+2  rpc = +.15 (01)
Controlled for 1+3  rpc = +.26 (01)
Controlled for 1+2+3  rpc = +.17 (01)
Controlled for 1  ß = +.23
Controlled for 1+3  ß = +.24

1= Satisfaction with health, financial security, family life, housing, job, free time activity, education, self-esteem, area you live in, ability to get around, security from crime.
2= Satisfaction with life (indicator 1, HAPP 2.1)
3= Demographic factors (sex, age, marital status, education, family income)
### Findings on Happiness & FRIENDSHIP

**Correlate Code: F 6**

<table>
<thead>
<tr>
<th>Study</th>
<th>MICHA 1982</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Reported in:</td>
<td>Michalos, A.C.</td>
</tr>
<tr>
<td></td>
<td>The satisfaction and happiness of some senior citizens in rural Ontario</td>
</tr>
<tr>
<td>*Population:</td>
<td>60+ aged, rural townships, Southern Huron County, Ontario, Canada, 198?</td>
</tr>
<tr>
<td>*Sample:</td>
<td></td>
</tr>
<tr>
<td>*Non-Response:</td>
<td>37%</td>
</tr>
<tr>
<td>*N:</td>
<td>392</td>
</tr>
</tbody>
</table>

### Measured Correlate

**Class:**  Satisfactions with friends  Code: F 6.6.2

**Measurement:**  Closed question on quality and quantity of contacts with friends, rated on a 7-point scale

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/aa</td>
<td>Beta=+.0</td>
<td>All ß's controlled for satisfaction with family life, financial security, self-esteem, spouse, health, transportation, recreation, housing, religion, area you live in, government services; and for sex, age, formal education.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Males:  N: 149 ß: +.06</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Females N: 121 ß: +.13</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Farmer  N: 130 ß: +.01</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Non-farmer N: 141 ß: +.12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aged 60-74 N: 170 ß: +.07</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aged 75-up N: 102 ß: +.08</td>
</tr>
</tbody>
</table>

| O-HL/u/sq/v/7/a | Beta=+.2   | All ß's are controlled for satisfaction with family life, financial security, self-esteem, spouse, health, transportation, recreation, housing, religion, area you live in, government services; and for sex, age and education. |
|-----------------|------------| Males:  N: 149 ß: +.10 |
|                 |            | Females N: 121 ß: +.36 |
|                 |            | Farmers  N: 130 ß: +.25 |
|                 |            | Non-farmers N: 141 ß: +.21 |
|                 |            | Age 60-74 N: 170 ß: +.20 |
|                 |            | Age 75-up N: 102 ß: +.27 |
**Study** | MICHA 1983
---|---
*Reported in:* | Michalos, A.C.
*Satisfaction and happiness in a rural northern resource community*
*Social Indicators Research, 1983, vol. 13, p. 225-252*
*Population:* | 18+ aged, rural community, N. Ontario, Canada, 1982
*Sample:* | 
*Non-Response:* | 8%
*N:* | 598

**Measured Correlate**

*Class:* | Satisfactions with friends  
*Code:* F 6.6.2

*Measurement:* | Closed question on quality and quantity of contacts with friends, rated on a 7-point scale.

**Measured Values**

**Error Estimates**

**Remarks**

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/aa</td>
<td>Beta=+.0</td>
<td>All β's controlled for satisfaction with health, financial security, family relations, paid employment, housing, area you live in, recreation activity, religion, self esteem, transportation, government services, and for the demographic factors: sex, age, formal education, language, work status, marital status, time in area.</td>
</tr>
<tr>
<td>Males : N: 173</td>
<td>β: +.10</td>
<td></td>
</tr>
<tr>
<td>Females: N: 154</td>
<td>β: +.04</td>
<td></td>
</tr>
</tbody>
</table>

| O-HL/u/sq/v/7/a | Beta=+.0 | All β's controlled for satisfaction with health, financial security, family relations, paid employment, housing, area you live in, recreation activity, religion, self esteem, transportation, government services; and for sex, age, formal education, language, work status, marital status, time in area. |
| Males : N: 173 | β: +.05 | |
| Females: N: 154 | β: -.01 | |
Findings on Happiness & FRIENDSHIP

Reported in: Michalos, A.C.
Multiple Discrepancies Theory
Social Indicators Research vol 16 (1985) p.347-413

Population: Students undergraduates University of Guelph, Canada, 1984

Non-Response: 18%
N: 700

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2
Measurement: Closed question on satisfaction with quality and quantity of contacts with friends, rated on a 7-point scale.
1: terrible...7: delightful.

Measured Values:

Observed Relation with Happiness

Happiness Query    Statistics   Remarks
O-DT/c/sq/v/7/aa   Beta=+.1 p<.01  Males N=140 β=+.24 (01)
                   Beta=+.1 p<.01  Females N=149 β=+.20 (01)
β's controlled for satisfaction with:
health, financial security, family relations, paid employment, housing, recreation, religion, self esteem and education

O-HL/u/sq/v/7/a    Beta=+.2 p<.01  Males N=140 β=+.24 (01)
                   Beta=+.2 p<.01  Females N=149 β=+.23 (05)
β's controlled for satisfaction with:
health, family relations, paid employment, self-esteem and education
Findings on Happiness & FRIENDSHIP

<table>
<thead>
<tr>
<th>Study</th>
<th>MICHA 1986</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reported in:</td>
<td>Michalos, A. C.</td>
</tr>
<tr>
<td>An application of Multiple Discrepancies Theory to seniors</td>
<td></td>
</tr>
<tr>
<td>Population:</td>
<td>60+ aged, rural districts, Canada, 1984</td>
</tr>
<tr>
<td>Sample:</td>
<td></td>
</tr>
<tr>
<td>Non-Response:</td>
<td>47%</td>
</tr>
<tr>
<td>N:</td>
<td>457</td>
</tr>
</tbody>
</table>

### Measured Correlate

| Class: | Satisfactions with friends | Code: F 6.6.2 |
| Measurement: | Closed question on satisfaction with quality and quantity of contacts with friends, rated on a 7-point scale. 1: terrible..7: delightful. |

### Measured Correlate

| Measured Values: |
| Error Estimates: |
| Remarks: |

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-DT/c/sq/v/7/aa</td>
<td>Beta=+.1 p&lt;.01</td>
<td>β controlled for self-esteem and satisfaction with: health, financial security, housing, spouse.</td>
</tr>
<tr>
<td></td>
<td>Beta=+.1 p&lt;.01</td>
<td>Females</td>
</tr>
<tr>
<td>O-HL/u/sq/v/7/a</td>
<td>Beta=+.1 p&lt;.01</td>
<td>β controlled for self-esteem and satisfaction with: health, financial security, housing, spouse.</td>
</tr>
<tr>
<td></td>
<td>Beta=+.1 p&lt;.01</td>
<td>Males</td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Study  MOOKH 1997

Reported in: Mookherjee, H.N.
Assessment of happiness among the elderly population in the United States

Population: 60+ aged, general public, USA 1982-91
Sample: Probability multi-stage cluster sample
Non-Response: not reported
N: 3049

Measured Correlate

Class: Satisfactions with friends  Code: F 6.6.2

Measurement: Single question on satisfaction with friends:
1. not satisfied
2. somewhat satisfied
3. well satisfied

Measured Values: N: 1 = 213 2 = 671 3 = 2165

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query  Statistics  Remarks
O-HL/c/sq/v/3/aa  DM=+  p<.00  1. M = 1.78 SD = .71
2. M = 2.07 SD = .63
3. M = 2.34 SD = .64
r=+.26  p<.00
Beta=+.0  p<.01  Beta controlled for
socio-demographic variables:
- Gender
- Race
- Marital status
- Education
- Financial status
- Place of residence
- Religious membership
- Religious attendance
satisfaction with:
- Neighbours
- Non-working activities
- Family
- Health
- Finance
Findings on Happiness & FRIENDSHIP

MOSER 1969

Reported in: Moser - Peters, C.M.J.


Sample: 300

Non-Response: 14%
unattainable etc.

N: 300

Measured Correlate

Class: Satisfactions with friends Code: F 6.6.2

Measurement: Closed question rated on a 5-point scale ranging from 'dissatisfied' to 'very satisfied'.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query Statistics Remarks
O-HL/c/sq/v/5/c $r = +.15$ $p < .05$

Print date: 7-2-2003 World Database of Happiness: www.eur.nl/fsw/research/happiness Page 127 of 159
Findings on Happiness & FRIENDSHIP

**Study**

**PALIS 1986B**

**Reported in:** Palisi, B.J.

Urbanism and social psychological well-being: a test of three theories


**Population:** 18+ aged, general public, non-institutionalized, USA, 1974-1982

**Sample:**

**Non-Response:**

**N:** 7542

**Measured Correlate**

**Class:** Satisfactions with friends  Code: F 6.6.2

**Measurement:** Single closed question on satisfaction received from friendships, rated on a 7-point scale, ranging from "a great deal" to "none" (order reversed).

**Measured Values:**

**Error Estimates:**

**Remarks:**

**Observed Relation with Happiness**

**Happiness Query**  **Statistics**  **Remarks**

O-HL/c/sq/v/3/aa  r=+.27
Findings on Happiness & FRIENDSHIP  
Correlate Code: F 6

Study  |  SHICH 1984  
---|---
Reported in:  |  Shichman, S.; Cooper, E.
Life Satisfaction and Sex-Role Concept
Sex Roles, Vol 11, 1984, p.227-240
Population:  |  Adults, students and churchmembers,
USA, 198?
Sample:  |  
Non-Response:  |  5.9 %
N:  |  217

Measured Correlate

Class:  |  Satisfactions with friends  
|  Code: F 6.6.2
Measurement:  |  Single direct questions on both satisfaction and dissatisfaction with relations with friends.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-SLu/u/sq/v/4/a</td>
<td>r=.24 p&lt;.00</td>
<td>satisfaction</td>
</tr>
<tr>
<td></td>
<td>r=-.19 p&lt;.01</td>
<td>dissatisfaction</td>
</tr>
</tbody>
</table>
### Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

#### Study

**VENTE 1995**

*Reported in:* Ventegodt, S.  
Livskvalitet i Danmark.(Quality of Life in Denmark)  
Forskningscentrets Forlag (The Quality of Life Research Center), København, Denmark,  
ISBN 8790190017

*Population:* 18-88 aged, general public, Denmark, 1993

*Sample:* Non-probability purposive sample (unspecified)

*Non-Response:* 39%

*N:* 1494

#### Measured Correlate

*Class:* Satisfactions with friends  
*Code:* F 6.6.2

*Measurement:* Single question:  
"How satisfied are you at present with your relations with your acquaintances?"  
1: very dissatisfied  
2: dissatisfied  
3: neither/nor  
4: satisfied  
5: very satisfied

*Measured Values:*  
N: all:1459, 1:4, 2:22, 3:210, 4:823, 5:400

*Error Estimates:*  
A-AOL/m/sq/v/5/a $r = +0.27$ $p < 0.00$

*Remarks:*  
O-HL/c/sq/v/5/h $r = +0.29$ $p < 0.00$

#### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/m/sq/v/5/a</td>
<td>$r = +.27$</td>
<td>$p &lt; .00$</td>
</tr>
<tr>
<td></td>
<td>1: $M_t = 6.25$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: $M_t = 6.03$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3: $M_t = 6.89$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4: $M_t = 7.73$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5: $M_t = 8.49$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All $M_t = 7.79$</td>
<td></td>
</tr>
<tr>
<td>O-HL/c/sq/v/5/h</td>
<td>$r = +.29$</td>
<td>$p &lt; .00$</td>
</tr>
<tr>
<td></td>
<td>1: $M_t = 5.63$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: $M_t = 4.89$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3: $M_t = 6.14$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4: $M_t = 6.88$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5: $M_t = 7.69$</td>
<td></td>
</tr>
<tr>
<td></td>
<td>All $M_t = 6.96$</td>
<td></td>
</tr>
<tr>
<td>O-SLu/c/sq/v/5/e</td>
<td>r = +.30</td>
<td>p &lt; .00</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
<td>--------</td>
</tr>
<tr>
<td>1: Mt = 5.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2: Mt = 5.45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: Mt = 6.44</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: Mt = 7.43</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5: Mt = 8.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>All Mt = 7.45</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

Study

VENTE 1996

Reported in:
Ventegodt, S.
Livskvalitet hos 4500 31-33 årige (The Quality Of Life of 4500 31-33-year-olds)
Forskningscenter for Livskvalitet, Forskningscentrets Forlag, København 1996,
ISBN 8790190068

Population:
Persons born at the University Hospital in Copenhagen 1959-1961

Sample:
Non-probability purposive sample (unspecified)

Non-Response:
39%

N:
4500

Measured Correlate

Class:
Satisfactions with friends

Code: F 6.6.2

Measurement:
Single question:
"How satisfied are you at present with your relations with your acquaintances?"
1: very dissatisfied
2: dissatisfied
3: neither/nor
4: satisfied
5: very satisfied

Measured Values:
N: All:4604; %: 1:0,5; 2:2,1; 3:17,9; 4:55,9; 5:23,6

Error Estimates:

Remarks:

Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-AOL/m/sq/v/5/a</td>
<td>r=+.31 p&lt;.00</td>
<td>Mt = 4.16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt = 5.39</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt = 6.93</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt = 7.76</td>
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<tr>
<td></td>
<td></td>
<td>Mt = 8.58</td>
</tr>
<tr>
<td>O-HL/c/sq/v/5/h</td>
<td>r=+.29 p&lt;.00</td>
<td>Mt = 4.40</td>
</tr>
<tr>
<td></td>
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<td>Mt = 5.05</td>
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<td></td>
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<td>Mt = 6.36</td>
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<tr>
<td></td>
<td></td>
<td>Mt = 6.98</td>
</tr>
<tr>
<td></td>
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<td>Mt = 7.85</td>
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<tr>
<td>O-SLu/c/sq/v/5/e</td>
<td>r=+.32 p&lt;.00</td>
<td>Mt = 3.69</td>
</tr>
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<td></td>
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<td>Mt = 5.10</td>
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<td>Mt = 6.54</td>
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<td>Mt = 7.41</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mt = 8.38</td>
</tr>
</tbody>
</table>
### Study

**WARD 1979/1**

Reported in: Ward, R.A.
The never-married in later life
Journal of Gerontology, 1979, vol. 34, no. 6, pp. 861-869

**Population:** 50+ aged, non-institutionalized, USA, 1972-77

**Sample:**

**Non-Response:**

\[ N: \quad 3557 \]

### Measured Correlate

**Class:** Satisfactions with friends

**Code:** F 6.6.2

**Measurement:** Single closed question rated on a 7-point scale: From each area of life I'm going to name, tell me how much satisfaction you get from that area: ... your friendships: a very great deal / a great deal / quite a bit / a fair amount / some / a little / none.

### Observed Relation with Happiness

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-HL/c/sq/v/3/ag</td>
<td>[ r = +.25 \quad (05) ]  [ r = +.21 \quad (05) ]</td>
<td>Married: Divorced and widowed subjects left out</td>
</tr>
</tbody>
</table>

Print date: 7-2-2003
World Database of Happiness: www.eur.nl/fsw/research/happiness
### Findings on Happiness & FRIENDSHIP

**Study**

**WEBB 1915/1**

*Reported in:* Webb, E.  
Character and intelligence. An attempt at an exact study of character.  

*Population:* Male college students, England, 1912

*N*: 194

**Measured Correlate**

*Class:* Satisfactions with friends  
Code: F 6.6.2

*Measurement:* Trained peer rating on a 7-point scale on the basis of observation during 6 months.

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-CP/g/rdp/ro/7/a</td>
<td>r = -.14</td>
<td></td>
</tr>
</tbody>
</table>
Findings on Happiness & FRIENDSHIP

**Study**  
**WESSM 1956**  
Reported in: Wessman, A.E.  
A psychological inquiry into satisfaction and happiness  

Population: 21+ aged, general public, non-institutionalized, USA, 1946

Sample:

Non-Response: -

N: 2377

**Measured Correlate**

Class: Satisfactions with friends  
Code: F 6.6.2

Measurement: Closed question:
0 Wish to move to a 'different circle'  
1 Satisfied.

**Observed Relation with Happiness**

<table>
<thead>
<tr>
<th>Happiness Query</th>
<th>Statistics</th>
<th>Remarks</th>
</tr>
</thead>
</table>
| O-HL/g/sq/v/3/c | G=+.43 p<.01 | Stronger among those who are not getting along well with their family and/or are dissatisfied with their job.  
Unaffected by sex, education, age, income, S.E.S., marital status, and race |
Appendix 1  Queries on Happiness used in reported Studies

Happiness Query Code  Full Text

A-AOL/m/sq/v/5/a  Single direct question:
'How are you feeling now....?'
5  very good
4  good
3  neither good nor poor
2  poor
1  very poor

Original text in Danish:
'Hvordan har du det for tiden?
5  meget godt
4  godt
3  hverken godt eller darligt
2  dårligt
1  meget dårligt

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

"During the past few weeks, did you ever feel ....?" (yes/no)
A  Particularly exited or interested in something?
B  So restless that you couldn't sit long in a chair?
C  Proud because someone complimented you on something you had done?
D  Very lonely or remote from other people?
E  Pleased about having accomplished something?
F  Bored?
G  On top of the world?
H  Depressed or very unhappy?
I  That things were going your way?
J  Upset because someone criticized you?

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)

A-BB/cm/mq/v/5/a  Selfreport on 13 questions:

"During the past four weeks have you ever felt....?" (yes/no)

A  Pleased about having accomplished something.
B  Things going my way.
C  Proud because someone complimented me on something


had done.
D Particularly excited or interested in something I had done.
E On top of the world.
F A deep sense of joy.
G Pleased because my life feels orderly and secure.
H Bored.
I Very lonely and remote from other people.
J Jealous of somebody.
K Angry with someone.
L Disappointed in myself.
M Unhappy about the small number of times I have pleasant feelings and experiences.

Answer options:
0 no
yes
If yes: How often did you feel so?
5 every day
4 several times a week
3 once a week
2 2 or 3 times a month
1 once a month

Summation:
- Positive Affect Score (PAS): Average A to G
- Negative Affect Score (NAS): Average H to M
- Affect Balance Score (AB): PAS minus NAS
Possible range: +42 to -30

Name: Bradburn's "Affected Balance Scale' (modified version)

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)

Selfreport on 9 questions:

"We are interested in the way people are feeling these days. The following list describes some of the ways people feel at different times. Please indicate how often you felt each way during the last week.

"How often last week did you feel .....?"

A  On the top of the world
B  Very lonely or remote from other people
C  Particularly excited or interested in something
D  Depressed or very unhappy
E  Pleased about having accomplished something
F  Bored
G  Proud because someone complimented you on something you had done
H  So restless you couldn't sit long in a chair
I  Vaguely uneasy about something without knowing why

Answer options:
0  not at all
1  once
2  several times
3  often

Summation:
Positive Affect Score (PAS): summed scores on A, C, E, G
Negative Affect Score (NAS): summed scores on B, D, F, H, I
Affect Balance Score (ABS): PAS minus NAS

Possible range: -15 tot +12

Name: Bradburn’s `Affect Balance Scale’ (modified version)

Selfreport on 10 questions:

"We are interested in how people are feeling these days. The following items describe some of the ways people feel at different times. Please indicate how often you felt each way during the last week

A  Pleased about having accomplished something.
B  That things were going my way.
C  Proud because someone complimented me on something I had done.
D  Particularly excited or interested in something I had done.
E  On top of the world.
F  Upset because someone criticized you
Findings on Happiness & FRIENDSHIP Correlate Code: F 6

G  So restless that you could not sit long in a chair
H Bored
I Very lonely or remote from other people
J Depressed or very unhappy

Answer options:
0 not at all
1 once
2 several times
3 often

Summation:
- Positive Affect Score (PAS): Average A to E
- Negative Affect Score (NAS): Average F to J
- Affect Balance Score (AB): PAS minus NAS
Possible range: -25 to +25

Name: Bradburn's "Affected Balance Scale' (modified version)

A-CP/g/rdp/ro/7/a Peer rating on single question (based on contact during 6 months):

Rater instruction: "personal qualities are named and briefly annotated in this schedule. If you have any doubt as to the meaning of any of them, please ask me (investigator)
2. In the columns under each subject's name, place one of the marks for each of the qualities specified (+3, +2, +1, 0, -1, -2, -3) To avoid errors, please put the + sign as well as the -

'General tendency to be 'cheerful' (as opposed to being depressed and low spirited)
+3 very high compared to average
+2 distinctly above average
+1 slightly above average
0 average
-1 slightly below average
-2 distinctly below average
-3 lowest as compared to average

C-A/h/sq/v/3/a Selfreport on single question:

"How do you feel about what you have accomplished in life...?"
3 well satisfied
2 reasonable satisfied
1 dissatisfied:

M-AO/u/mq/*0/a Selfreport on 2 questions:

A  "Taking all things together, how would you say things are these days? Would you say you are.....?"
1 not too happy
2 pretty happy
3 very happy

B  "How often do you feel that you are really enjoying life.....?”
Findings on Happiness & FRIENDSHIP

1 rarely
2 now and than
3 fairly often
4 all the time

Summation: factor score

M-FH/cm/sq/v/4/a Selfreport on single question:

"......happiness during past few weeks....."
(Full lead not reported)
4 very happy
3
2
1 not too happy

M-FH/u/sq/v/3/a Selfreport on single question:

"Do you feel.....?"
3 happy
2 not too happy
1 unhappy

Original text in Dutch:
" Voelt u zichzelf ......?"

a ongelukkig
b niet zo gelukkig
c gelukkig

O-BW/c/sq/l/11/a 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 selfanchoring ladder rating of life (original)

O-DT/c/sq/v/7/aa Selfreport on single question:
"How do you feel about your life as a whole right now.....?"
7  delightfull
6  very satisfying
5  satisfying
4  mixed
3  dissatisfying
2  very dissatisfying
1  terrible
No opinion

Name: Andrews & Withey's `Delighted-Terrible Scale' (modified version)

Selfreport on single question:

"How do you feel about your life as a whole right now.....?"
1  terrible
2  unhappy
3  mostly dissatisfied
4  mixed (about equally satisfied and dissatisfied)
5  mostly satisfied
6  pleased
7  delighted
-   neutral (neither satisfied nor dissatisfied)
-   I never thought about it
-   does not apply to me

Name: Andrews & Withey's `Delighted-Terrible Scale' (modified version by Michalos)

Selfreport on single question:

"Indicate the feeling you have now, generally speaking, how do you feel about your life...?"
1  terrible
2  unhappy
3  mostly dissatisfied
4  mixed (about equally satisfied and dissatisfied)
5  mostly satisfied
6  pleased
7  delighted
-   8  neutral (neither satisfied nor dissatisfied)
-   9  never thought about it
-   10 does not apply to me

Scoring: 8, 9 and 10 left out

Selfreport on single question:

"How do you feel about your life as a whole.....?"
7  delighted
6  pleased
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

Name: Andrews & Withey's 'Delighted-Terrible Scale' (original version)

O-DT/u/sq/v/10/a Selfreport on single question asked twice in interview,

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

10 delighted
9
8
7
6
5
4
3
2
1 terrible

Summation: mean

Name: Andrews & Withey's 'Delightfull-Terrible Scale' (modified version)

O-DT/u/sq/v/7/a 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)

O-DT/u/sq/v/9/a 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

O-HL/c/sq/v/3/aa Selfreport on single question:
‘Taken all together, how would you say things are these days? Would you say that you are....?’
3 very happy
2 pretty happy
1 not too happy

Selfreport on single question:

"Taking all things together, how would you say you are these days? Would you say you are.........?"
3 very happy
2 pretty happy
1 not too happy

Selfreport on single question:

"Taken all things together, how would you say things are these days. Wouyl you say you were....”
1 not too happy
2 pretty happy
3 very happy

Selfreport on single question:

"Considering everything that has happened to you recently, how would you say things are with you - would you say you are.....?"
3 very happy
2 pretty happy
1 not too happy

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:

" Is your life at this moment ....?"
4 very happy
3 fairly happy
2 fairly unhappy
1 very unhappy

In German:
"Ist Ihr Leben im Augenblick....?"

Selfreport on single question:
"Do you feel that your life at present is.....?"
4 very happy
3 quite happy
2 unhappy
1 very unhappy

Selfreport on single question:

"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?"
5 buitengewoon gelukkig
4 zeer gelukkig
3 gelukkig
2 tamelijk gelukkig
1 niet zo gelukkig

Selfreport on single question:

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

Original text in Danish:
'Hvor lykkelig er du for tiden?'
5 meget lykkelig
4 lykkelig
3 hverken eller
2 ulykkelig
1 meget ulykkelig

Selfreport on single question:

"In general, how happy would you say you are these days.....?"
7 extremely happy
6 very happy
5 pretty happy
4 not too happy
3 a bit unhappy
2 pretty unhappy
1 very unhappy

Selfreport on single question:

"In general, how happy would you say you are.....?"
3 very happy
Findings on Happiness & FRIENDSHIP

2 fairly happy
1 not too happy

O-HL/u/sq/v/3/a Selfreport on single question:

"Taking all together: how happy would you say you are? Would you say you are.....?"
3 very happy
2 pretty happy
1 not too happy

O-HL/u/sq/v/7/a Selfreport on single question:

"Considering your life as a whole, would you describe it as.....:?”
1 very happy
2 unhappy
3 an even mixture of unhappiness and happiness
5 happy
6 very happy
no opinion

O-HP/g/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

O-SL/?/sq/v/5/a Selfreport on single question:

"....... satisfaction with life .....”
(full question not reported)
5 very satisfied
4 satisfied
Findings on Happiness & FRIENDSHIP

3 don't know/satisfied
2 don't know/not satisfied
1 disappointed in life

O-SL/c/sq/v/3/a Selfreport on single question:

".....satisfaction with present life....."
(Full lead item not reported)
1
2
3
(Response options not reported)

O-SLL/c/sq/v/5/a Selfreport on single question:

"How satisfying do you find the life you currently lead......?"
1 very satisfied
2 rather satisfied
3 satisfied
4 very satisfied
5 extremely satisfied

In Dutch:
"In hoeverre bent u tevreden met het leven dat u lop het ogenblik leidt.....?".

O-SLu/c/sq/n/7/b Selfreport on single question:

"All in all, how satisfied are you with your life these days.....?"
1 very dissatisfied
2
3
4
5
6
7 very satisfied

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
Findings on Happiness & FRIENDSHIP

2 utilfreds
1 meget utilfreds

Selfreport on single question:

"On the whole, how satisfied would you say you are with your life.....?"
1 not very satisfied
2 fairly satisfied
3 very satisfied

Selfreport on single question:

"Overall, how satisfied are you with your life.....?"
4 very satisfied
3 satisfied
2 dissatisfied
1 very dissatisfied.

Selfreport on single question:

"How dissatisfied would you say you are with things in general today?"
Rated on ladder scale

[ 10 ] completely satisfied
[    ]
[    ]
[    ]
[    ]
[    ]
[    ]
[    ]
[    ]
[    ]

[  0  ] completely dissatisfied

Selfreport on single question:

"What do you think, how satisfied are you at this moment- all in all - with your life? 'If for instance you are totally satisfied with your life, please mark a '10'. If you are totally unsatisfied with your life, mark a '0'. If you are not completely unsatisfied nor totally satisfied range yourself somewhere between '1' and '9'

10 completely satisfied
9
8
7
6
5
4
3
2
1
0 completely dissatisfied

Originall text in German:
"Was meinen Sie, wie zufrieden sind Sie gegenwärtig - alles in allem - heute mit
Findings on Happiness & FRIENDSHIP

Ihrem Leben? Wenn Sie zum Beispiel mit Ihrem Leben heute ganz und gar zufrieden sind, geben Sie bitte die '10' an. Wenn Sie mit Ihrem Leben heute ganz und gar unzufrieden sind, geben Sie '0' an. Wenn Sie weder ganz und gar zufrieden noch ganz und gar unzufrieden sind, dann ordnen Sie sich irgendwo zwischen '1' und '9' ein.

O-SLW/c/sq/n/7/a Selfreport on single question:

"We have talked about various parts of your life, now I want to ask you about your life as a whole. How satisfied are you with your life as a whole these days.....?"

7 completely satisfied
6
5
4 neutral
3
2
1 completely dissatisfied

O-SLW/c/sq/t/v/7/a Selfreport on single question, asked twice during the interview:

"Are you at this moment satisfied or dissatisfied with life in general......?"

7 very satisfied
6 for the greater part satisfied
5 rather more satisfied than dissatisfied
4 neither satisfied nor dissatisfied
3 somewhat more dissatisfied than satisfied
2 for the greater part dissatisfied
1 very dissatisfied
- Do not know, difficult to say

In Swedish:
" Ar du pa det hela taget nojd eller missnojd met livet i des helnet just nu?"

O-SLW/u/sq/n/11/a Selfreport on single question:

"All things considered, how satisfied or dissatisfied are you with your life as a whole?"

10 completely satisfied
9
8
7
6
5
4
3
2
1
0 completely dissatisfied

O-SLW/u/sq/v/5/a Selfreport on single question:

"On the whole, are you satisfied with your life.....?"

5 definitely yes
4 rather yes
<table>
<thead>
<tr>
<th>Code</th>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>F6</td>
<td><strong>Findings on Happiness &amp; FRIENDSHIP</strong> Correlate Code: F6</td>
</tr>
<tr>
<td></td>
<td>3  don't know</td>
</tr>
<tr>
<td></td>
<td>2  rather no</td>
</tr>
<tr>
<td></td>
<td>1  definitely no</td>
</tr>
<tr>
<td></td>
<td>-   no reply</td>
</tr>
<tr>
<td></td>
<td>Selfreport on single question:</td>
</tr>
<tr>
<td></td>
<td>&quot;How satisfying are these different aspects of your life? Indicate the number which best suits your situation. Life as a whole is.....&quot;</td>
</tr>
<tr>
<td></td>
<td>1  very dissatisfying</td>
</tr>
<tr>
<td></td>
<td>2  dissatisfying</td>
</tr>
<tr>
<td></td>
<td>3  rather dissatisfying</td>
</tr>
<tr>
<td></td>
<td>4  rather satisfying</td>
</tr>
<tr>
<td></td>
<td>5  satisfying</td>
</tr>
<tr>
<td></td>
<td>6  very satisfying</td>
</tr>
<tr>
<td></td>
<td>This item was followed by eight questions on life domain satisfactions.</td>
</tr>
<tr>
<td>O-SLW/u/sq/v/6/a</td>
<td>Selfreport on single question:</td>
</tr>
<tr>
<td></td>
<td>&quot;Considering everything, how satisfied are you with your life as whole.....?&quot;</td>
</tr>
<tr>
<td></td>
<td>7  completely satisfied</td>
</tr>
<tr>
<td></td>
<td>6  satisfied</td>
</tr>
<tr>
<td></td>
<td>5  mostly satisfied</td>
</tr>
<tr>
<td></td>
<td>4  satisfied/dissatisfied</td>
</tr>
<tr>
<td></td>
<td>3  dissatisfied</td>
</tr>
<tr>
<td></td>
<td>2  very dissatisfied</td>
</tr>
<tr>
<td></td>
<td>1  completely dissatisfied</td>
</tr>
<tr>
<td>O-SLW/u/sq/v/7/a</td>
<td>Selfreport on single question, asked twice in interview:</td>
</tr>
<tr>
<td></td>
<td>&quot;Considering everything, how satisfied are you with your life as a whole.........?&quot;</td>
</tr>
<tr>
<td></td>
<td>7  completely satisfied</td>
</tr>
<tr>
<td></td>
<td>6  completely dissatisfied</td>
</tr>
<tr>
<td></td>
<td>5  satisfied</td>
</tr>
<tr>
<td></td>
<td>4  mostly satisfied</td>
</tr>
<tr>
<td></td>
<td>3  satisfied/dissatisfied</td>
</tr>
<tr>
<td></td>
<td>2  dissatisfied</td>
</tr>
<tr>
<td></td>
<td>1  very dissatisfied</td>
</tr>
<tr>
<td>O-SLW/u/sqt/v/7/a</td>
<td>Selfreport on single question:</td>
</tr>
<tr>
<td></td>
<td>Summation: both scores added</td>
</tr>
<tr>
<td></td>
<td>Possible range: 2 to 14</td>
</tr>
<tr>
<td>O-Sum/u/mq&quot;*/0/b</td>
<td>Selfreport in 2 questions:</td>
</tr>
<tr>
<td></td>
<td>A. &quot;How satisfied are you with your life as a whole these days?&quot;</td>
</tr>
<tr>
<td></td>
<td>10 completely satisfied</td>
</tr>
<tr>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>
1
0 not at all satisfied

B. "Where would you place your life as a whole?"
Rated on a thermometer scale.
100 perfect, as good as you can imagine it being
90
80
70
60
50
40
30
20
10
0 terrible, as bad as you can imagine it being

Summation: factor loading

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

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Explanation</th>
</tr>
</thead>
</table>
| B      | REGRESSION COEFFICIENT (non-standardized)  
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. |
| Beta   | (B) STANDARDIZED REGRESSION COEFFICIENT  
Type: test statistic.  
Measurement level: Correlates: all metric, Happiness: metric.  
Range: [-1 ; +1]  
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. |
| 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. |
| Dyx    | SOMERS’ ASYMMETRIC TEST STATISTIC  
Type: test statistic  
Measurement level: Correlate: ordinal, Happiness: ordinal  
Range: [-1; +1]  
Meaning:  
Dyx = 0 « no rank correlation  
Dyx = +1 « strongest possible rank correlation, where high correlate values correspond
Findings on Happiness & FRIENDSHIP

Correlate Code: F 6

with high happiness ratings.
\[ D_{yx} = -1 \] «strongest possible rank correlation, where high correlate values correspond with low happiness ratings.

\( E^2 \) CORRELATION RATIO (Elsewhere sometimes called \( h^2 \) or ETA)
Type: test statistic
Measurement level: Correlate: nominal or ordinal, Happiness: metric
Range: [0; 1]

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

\( G \) GOODMAN & Kruskal's GAMMA
Type: test statistic
Measurement level: Correlate: ordinal, Happiness: ordinal
Range: [-1; +1]

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.

\( r \) 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.

\( r_{pc} \) PARTIAL CORRELATION COEFFICIENT
Type: test statistic
Measurement level: Correlate: metric, Happiness: metric
Range: [-1; +1]

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
\( r_{pc} > 0 \) « a higher correlate level corresponds with a higher happiness rating,
\( r_{pc} < 0 \) « a higher correlate level corresponds with a lower happiness rating.

\( r_s \) SPEARMAN'S RANK CORRELATION COEFFICIENT
Type: test statistic
Measurement level: Correlate: ordinal, Happiness: ordinal.
Range: [-1; +1]
Meaning:
rs = 0 « no rank correlation
rs = 1 « perfect rank correlation, where high correlate values are associated with high
happiness ratings
rs = -1 « perfect rank correlation, where high correlate values are associated with low
happiness ratings

SNR Statistic Not Reported

ßL PATH COEFFICIENT OBTAINED IN A LISREL MODEL.
Range: unlimited, but seldom exceeds [-1, +1].

In the Catalogue of Correlational Findings, this statistic or statistical procedure occurs
very rarely only.
The reader is referred to the excerpted publication for detailed information or for further
reference.

T	TSCHUPROW’S T
Type: test statistic.
Measurement level: Correlate: nominal, Happiness: ordinal
Range: [0 ; SQRT[[min(r,c)-1]/[max(r,c) -1]]], c and r being the numbers of columns resp.
rows in a cross tabulation.

Meaning:
T = 0 « no association
T -> 1 « strongest possible association.

NOTE: sometimes the square value is reported instead!

tc KENDALL’S TAU-C (Also referred to as Stuart’s tau-c)
Type: test statistic
Measurement level: Correlate: ordinal, Happiness: ordinal
Range: [-1; +1]

Meaning:
tc = 0 « no rank correlation
tc = 1 « perfect rank correlation, where high values of the correlate correspond
with high happiness ratings.
tc = -1 « perfect rank correlation, where high values of the correlate correspond
with low happiness ratings.

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:

Literature on happiness

Selection on subject

Bibliography (1)

Directory (2)

Selection of empirical studies on valid measurement

Happiness Queries (3)

Testbank

Abstracting and classification of findings

Distributional Findings

How happy people are

- Happiness in Nations (4)
- Happiness in Publics (6)

Correlational Findings

What goes with happiness

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.

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

<table>
<thead>
<tr>
<th>Main Category's</th>
<th>Category Name</th>
<th>Number of Studies in this Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 1</td>
<td>ACTIVITY LEVEL (how much one does)</td>
<td>53</td>
</tr>
<tr>
<td>A 2</td>
<td>ACTIVITY PATTERN (what one does)</td>
<td>7</td>
</tr>
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Findings on Happiness & FRIENDSHIP

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