



Findings on Happiness & AGGRESSION

Correlate Code: A 5

Classification of Findings		Number of Studies on this Subject
Correlate Code	Correlate Name	
A 5	AGGRESSION	0
A 5.1	Aggression career	0
A 5.1.1	Earlier aggression	3
A 5.1.2	Change in aggression	0
A 5.1.4	Later aggression	3
A 5.2	Current aggression	0
A 5.2.2	Aggressive behavior	5
A 5.3	Attitudes to aggression	0
A 5.3.1	Attitudes to own aggressive behavior	0
A 5.3.2	Attitude to aggression in general	0
Appendix 1:	Happiness queries used	
Appendix 2:	Statistics used	
Appendix 3:	About the World Database of Happiness	
Appendix 4:	Further Findings in the World Database of Happiness	
Appendix 5:	Related Topics	
Cite as:	Veenhoven, R.: Findings on Happiness & AGGRESSION World Database of Happiness. Internet: www.eur.nl/fsw/research/happiness Erasmus University Rotterdam, 2003, Netherlands	

Study	BACHM 1978*	<i>Page in Report:</i>
<i>Reported in:</i>	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
<i>Population:</i>	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
<i>Sample:</i>		
<i>Non-Response:</i>	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
<i>N:</i>	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

<i>Class:</i>	Earlier aggression Code: A 5.1.1
<i>Measurement:</i>	A mean of nine items which measure the number of times respondent has committed acts of theft or vandalism. Scale: 0.00 = never to 4.00 = five or more times. Assessed at T1, T2, T3, T4 and T5
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>																																										
O-HP/g/mq/v/5/a	tau=-	<p>Theft and vandalism</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.19</td> <td>-.14</td> <td>-.13</td> <td>-.03</td> <td>-.11</td> </tr> <tr> <td>T2</td> <td>- = -.10</td> <td>-.13</td> <td>-.10</td> <td>-.03 ns</td> <td>-.07 ns</td> </tr> <tr> <td>T3</td> <td>- = -.06 ns</td> <td>-.09</td> <td>-.11</td> <td>-.04 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.04 ns</td> <td>-.04 ns</td> <td>-.06 ns</td> <td>-.04 ns</td> <td>-.03 ns</td> </tr> <tr> <td>AI</td> <td>significant, unless otherwise indicated</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Happiness	T1	T2	T3	T4	T5	T1	- = -.19	-.14	-.13	-.03	-.11	T2	- = -.10	-.13	-.10	-.03 ns	-.07 ns	T3	- = -.06 ns	-.09	-.11	-.04 ns	-.04 ns	T4	- = -.04 ns	-.04 ns	-.06 ns	-.04 ns	-.03 ns	AI	significant, unless otherwise indicated						T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974				
Happiness	T1	T2	T3	T4	T5																																							
T1	- = -.19	-.14	-.13	-.03	-.11																																							
T2	- = -.10	-.13	-.10	-.03 ns	-.07 ns																																							
T3	- = -.06 ns	-.09	-.11	-.04 ns	-.04 ns																																							
T4	- = -.04 ns	-.04 ns	-.06 ns	-.04 ns	-.03 ns																																							
AI	significant, unless otherwise indicated																																											
	T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974																																											

Study	BACHM 1978*	Page in Report:
Reported in:	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
Population:	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
Sample:		
Non-Response:	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
N:	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

Class: Earlier aggression Code: A 5.1.1

Measurement: A mean of 10 items asking the respondent how often he had done such things as 'set fire to someone else's property on purpose', 'hurt someone badly enough to need bandages or a doctor', 'taken something not belonging to you worth over \$50' etc. Scale: 1.00 = never to 5.00 = five or more times.
Assessed at T1, T2, T3, T4 and T5

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query	Statistics	Remarks																														
O-HP/g/mq/v/5/a	tau=-	<p>Serious delinquent behavior</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.18</td> <td>-.14</td> <td>-.12</td> <td>-.04 ns</td> <td>-.10</td> </tr> <tr> <td>T2</td> <td>- = -.09</td> <td>-.11</td> <td>-.09</td> <td>-.03 ns</td> <td>-.07 ns</td> </tr> <tr> <td>T3</td> <td>- = -.04 ns</td> <td>-.07 ns</td> <td>-.11</td> <td>-.05 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.03 ns</td> <td>-.02 ns</td> <td>-.05 ns</td> <td>-.04 ns</td> <td>-.03 ns</td> </tr> </tbody> </table> <p>All significant, unless otherwise indicated T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</p>	Happiness	T1	T2	T3	T4	T5	T1	- = -.18	-.14	-.12	-.04 ns	-.10	T2	- = -.09	-.11	-.09	-.03 ns	-.07 ns	T3	- = -.04 ns	-.07 ns	-.11	-.05 ns	-.04 ns	T4	- = -.03 ns	-.02 ns	-.05 ns	-.04 ns	-.03 ns
Happiness	T1	T2	T3	T4	T5																											
T1	- = -.18	-.14	-.12	-.04 ns	-.10																											
T2	- = -.09	-.11	-.09	-.03 ns	-.07 ns																											
T3	- = -.04 ns	-.07 ns	-.11	-.05 ns	-.04 ns																											
T4	- = -.03 ns	-.02 ns	-.05 ns	-.04 ns	-.03 ns																											

Study	BACHM 1978*	<i>Page in Report:</i>
<i>Reported in:</i>	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
<i>Population:</i>	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
<i>Sample:</i>		
<i>Non-Response:</i>	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
<i>N:</i>	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

<i>Class:</i>	Earlier aggression Code: A 5.1.1
<i>Measurement:</i>	At T1, T2 and T3: a mean of seven items measuring the amount of school-oriented delinquent behavior. Included are questions on how often respondent has been suspended, damaged school property, and gotten into a serious fight at school. Scale: 0.00 = never to 4.00 = five or more times
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>																											
O-HP/g/mq/v/5/a	tau=-	<table> <thead> <tr> <th rowspan="2">Happiness</th> <th colspan="3">Delinquent behavior at school</th> </tr> <tr> <th>T1</th> <th>T2</th> <th>T3</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>= -.19 (.001)</td> <td>-.14 (.001)</td> <td>-.12 (.001)</td> </tr> <tr> <td>T2</td> <td>= -.10 (.01)</td> <td>-.15 (.001)</td> <td>-.11 (.01)</td> </tr> <tr> <td>T3</td> <td>= -.07 (ns)</td> <td>-.10 (.01)</td> <td>-.08 (.05)</td> </tr> <tr> <td>T4</td> <td>= -.06 (ns)</td> <td>-.04 (ns)</td> <td>-.04 (ns)</td> </tr> <tr> <td>T1: 1966, T2: 1968, T3: 1969, T4: 1970</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Happiness	Delinquent behavior at school			T1	T2	T3	T1	= -.19 (.001)	-.14 (.001)	-.12 (.001)	T2	= -.10 (.01)	-.15 (.001)	-.11 (.01)	T3	= -.07 (ns)	-.10 (.01)	-.08 (.05)	T4	= -.06 (ns)	-.04 (ns)	-.04 (ns)	T1: 1966, T2: 1968, T3: 1969, T4: 1970			
Happiness	Delinquent behavior at school																												
	T1	T2	T3																										
T1	= -.19 (.001)	-.14 (.001)	-.12 (.001)																										
T2	= -.10 (.01)	-.15 (.001)	-.11 (.01)																										
T3	= -.07 (ns)	-.10 (.01)	-.08 (.05)																										
T4	= -.06 (ns)	-.04 (ns)	-.04 (ns)																										
T1: 1966, T2: 1968, T3: 1969, T4: 1970																													

Study	BACHM 1978*	Page in Report:
Reported in:	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
Population:	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
Sample:		
Non-Response:	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
N:	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

Class: Later aggression Code: A 5.1.4

Measurement: A mean of nine items which measure the number of times respondent has committed acts of theft or vandalism. Scale: 0.00 = never to 4.00 = five or more times.
Assessed at T1, T2, T3, T4 and T5

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query	Statistics	Remarks																														
O-HP/g/mq/v/5/a	tau=-	<p>Theft and vandalism</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.19</td> <td>-.14</td> <td>-.13</td> <td>-.03</td> <td>-.11</td> </tr> <tr> <td>T2</td> <td>- = -.10</td> <td>-.13</td> <td>-.10</td> <td>-.03 ns</td> <td>-.07 ns</td> </tr> <tr> <td>T3</td> <td>- = -.06 ns</td> <td>-.09</td> <td>-.11</td> <td>-.04 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.04 ns</td> <td>-.04 ns</td> <td>-.06 ns</td> <td>-.04 ns</td> <td>-.03 ns</td> </tr> </tbody> </table> <p>All significant, unless otherwise indicated T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</p>	Happiness	T1	T2	T3	T4	T5	T1	- = -.19	-.14	-.13	-.03	-.11	T2	- = -.10	-.13	-.10	-.03 ns	-.07 ns	T3	- = -.06 ns	-.09	-.11	-.04 ns	-.04 ns	T4	- = -.04 ns	-.04 ns	-.06 ns	-.04 ns	-.03 ns
Happiness	T1	T2	T3	T4	T5																											
T1	- = -.19	-.14	-.13	-.03	-.11																											
T2	- = -.10	-.13	-.10	-.03 ns	-.07 ns																											
T3	- = -.06 ns	-.09	-.11	-.04 ns	-.04 ns																											
T4	- = -.04 ns	-.04 ns	-.06 ns	-.04 ns	-.03 ns																											

Study	BACHM 1978*	Page in Report:
Reported in:	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
Population:	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
Sample:		
Non-Response:	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
N:	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

Class: Later aggression Code: A 5.1.4

Measurement: A mean of 10 items asking the respondent how often he had done such things as 'set fire to someone else's property on purpose', 'hurt someone badly enough to need bandages or a doctor', 'taken something not belonging to you worth over \$50' etc. Scale: 1.00 = never to 5.00 = five or more times.
Assessed at T1, T2, T3, T4 and T5

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query	Statistics	Remarks																														
O-HP/g/mq/v/5/a	tau=-	<p>Serious delinquent behavior</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.18</td> <td>-.14</td> <td>-.12</td> <td>-.04 ns</td> <td>-.10</td> </tr> <tr> <td>T2</td> <td>- = -.09</td> <td>-.11</td> <td>-.09</td> <td>-.03 ns</td> <td>-.07 ns</td> </tr> <tr> <td>T3</td> <td>- = -.04 ns</td> <td>-.07 ns</td> <td>-.11</td> <td>-.05 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.03 ns</td> <td>-.02 ns</td> <td>-.05 ns</td> <td>-.04 ns</td> <td>-.03 ns</td> </tr> </tbody> </table> <p>All significant, unless otherwise indicated T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</p>	Happiness	T1	T2	T3	T4	T5	T1	- = -.18	-.14	-.12	-.04 ns	-.10	T2	- = -.09	-.11	-.09	-.03 ns	-.07 ns	T3	- = -.04 ns	-.07 ns	-.11	-.05 ns	-.04 ns	T4	- = -.03 ns	-.02 ns	-.05 ns	-.04 ns	-.03 ns
Happiness	T1	T2	T3	T4	T5																											
T1	- = -.18	-.14	-.12	-.04 ns	-.10																											
T2	- = -.09	-.11	-.09	-.03 ns	-.07 ns																											
T3	- = -.04 ns	-.07 ns	-.11	-.05 ns	-.04 ns																											
T4	- = -.03 ns	-.02 ns	-.05 ns	-.04 ns	-.03 ns																											

Study	BACHM 1978*	<i>Page in Report:</i>
<i>Reported in:</i>	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
<i>Population:</i>	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
<i>Sample:</i>		
<i>Non-Response:</i>	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
<i>N:</i>	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

<i>Class:</i>	Later aggression Code: A 5.1.4
<i>Measurement:</i>	At T1, T2 and T3: a mean of seven items measuring the amount of school-oriented delinquent behavior. Included are questions on how often respondent has been suspended, damaged school property, and gotten into a serious fight at school. Scale: 0.00 = never to 4.00 = five or more times
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>																											
O-HP/g/mq/v/5/a	tau=-	<table> <thead> <tr> <th rowspan="2">Happiness</th> <th colspan="3">Delinquent behavior at school</th> </tr> <tr> <th>T1</th> <th>T2</th> <th>T3</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>= -.19 (.001)</td> <td>-.14 (.001)</td> <td>-.12 (.001)</td> </tr> <tr> <td>T2</td> <td>= -.10 (.01)</td> <td>-.15 (.001)</td> <td>-.11 (.01)</td> </tr> <tr> <td>T3</td> <td>= -.07 (ns)</td> <td>-.10 (.01)</td> <td>-.08 (.05)</td> </tr> <tr> <td>T4</td> <td>= -.06 (ns)</td> <td>-.04 (ns)</td> <td>-.04 (ns)</td> </tr> <tr> <td>T1: 1966, T2: 1968, T3: 1969, T4: 1970</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Happiness	Delinquent behavior at school			T1	T2	T3	T1	= -.19 (.001)	-.14 (.001)	-.12 (.001)	T2	= -.10 (.01)	-.15 (.001)	-.11 (.01)	T3	= -.07 (ns)	-.10 (.01)	-.08 (.05)	T4	= -.06 (ns)	-.04 (ns)	-.04 (ns)	T1: 1966, T2: 1968, T3: 1969, T4: 1970			
Happiness	Delinquent behavior at school																												
	T1	T2	T3																										
T1	= -.19 (.001)	-.14 (.001)	-.12 (.001)																										
T2	= -.10 (.01)	-.15 (.001)	-.11 (.01)																										
T3	= -.07 (ns)	-.10 (.01)	-.08 (.05)																										
T4	= -.06 (ns)	-.04 (ns)	-.04 (ns)																										
T1: 1966, T2: 1968, T3: 1969, T4: 1970																													

Study	BACHM 1978	<i>Page in Report:</i>
<i>Reported in:</i>	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the lives Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
<i>Population:</i>	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
<i>Sample:</i>		
<i>Non-Response:</i>	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
<i>N:</i>	T1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

<i>Class:</i>	Aggressive behavior Code: A 5.2.2
<i>Measurement:</i>	A mean of six (at T1, T2, T3 and T4) or eight (at T5) items which ascertains how often respondent hit, fought, or hurt other people, including relatives, teachers, and students. Scale: 0.00 = never to 4.00 = five or more times
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>																																				
O-HP/g/mq/v/5/a	tau=-	<p style="text-align: center;">Interpersonal aggression</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T2</td> <td>- = -.18</td> <td>-.09</td> <td>-.09</td> <td>-.06 ns</td> <td>-.05 ns</td> </tr> <tr> <td>T2</td> <td>- = -.10</td> <td>-.10</td> <td>-.08</td> <td>-.02 ns</td> <td>-.01 ns</td> </tr> <tr> <td>T3</td> <td>- = -.07 ns</td> <td>-.08</td> <td>-.08</td> <td>-.04 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.08 ns</td> <td>-.02 ns</td> <td>-.06 ns</td> <td>-.03 ns</td> <td>-.05 ns</td> </tr> <tr> <td>All</td> <td>significant, unless indicated otherwise</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</p>	Happiness	T1	T2	T3	T4	T5	T2	- = -.18	-.09	-.09	-.06 ns	-.05 ns	T2	- = -.10	-.10	-.08	-.02 ns	-.01 ns	T3	- = -.07 ns	-.08	-.08	-.04 ns	-.04 ns	T4	- = -.08 ns	-.02 ns	-.06 ns	-.03 ns	-.05 ns	All	significant, unless indicated otherwise				
Happiness	T1	T2	T3	T4	T5																																	
T2	- = -.18	-.09	-.09	-.06 ns	-.05 ns																																	
T2	- = -.10	-.10	-.08	-.02 ns	-.01 ns																																	
T3	- = -.07 ns	-.08	-.08	-.04 ns	-.04 ns																																	
T4	- = -.08 ns	-.02 ns	-.06 ns	-.03 ns	-.05 ns																																	
All	significant, unless indicated otherwise																																					

Study	BACHM 1978*	Page in Report:
Reported in:	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
Population:	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
Sample:		
Non-Response:	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
N:	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

Class:	Aggressive behavior Code: A 5.2.2
Measurement:	A mean of nine items which measure the number of times respondent has committed acts of theft or vandalism. Scale: 0.00 = never to 4.00 = five or more times. Assessed at T1, T2, T3, T4 and T5
Measured Values:	
Error Estimates:	
Remarks:	

Observed Relation with Happiness

Happiness Query	Statistics	Remarks																																										
O-HP/g/mq/v/5/a	tau=-	<p>Theft and vandalism</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.19</td> <td>-.14</td> <td>-.13</td> <td>-.03</td> <td>-.11</td> </tr> <tr> <td>T2</td> <td>- = -.10</td> <td>-.13</td> <td>-.10</td> <td>-.03 ns</td> <td>-.07 ns</td> </tr> <tr> <td>T3</td> <td>- = -.06 ns</td> <td>-.09</td> <td>-.11</td> <td>-.04 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.04 ns</td> <td>-.04 ns</td> <td>-.06 ns</td> <td>-.04 ns</td> <td>-.03 ns</td> </tr> <tr> <td>All</td> <td>significant, unless otherwise indicated</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Happiness	T1	T2	T3	T4	T5	T1	- = -.19	-.14	-.13	-.03	-.11	T2	- = -.10	-.13	-.10	-.03 ns	-.07 ns	T3	- = -.06 ns	-.09	-.11	-.04 ns	-.04 ns	T4	- = -.04 ns	-.04 ns	-.06 ns	-.04 ns	-.03 ns	All	significant, unless otherwise indicated						T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974				
Happiness	T1	T2	T3	T4	T5																																							
T1	- = -.19	-.14	-.13	-.03	-.11																																							
T2	- = -.10	-.13	-.10	-.03 ns	-.07 ns																																							
T3	- = -.06 ns	-.09	-.11	-.04 ns	-.04 ns																																							
T4	- = -.04 ns	-.04 ns	-.06 ns	-.04 ns	-.03 ns																																							
All	significant, unless otherwise indicated																																											
	T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974																																											

Study	BACHM 1978*	Page in Report:
Reported in:	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
Population:	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
Sample:		
Non-Response:	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
N:	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

Class:	Aggressive behavior Code: A 5.2.2
Measurement:	A mean of 10 items asking the respondent how often he had done such things as 'set fire to someone else's property on purpose', 'hurt someone badly enough to need bandages or a doctor', 'taken something not belonging to you worth over \$50' etc. Scale: 1.00 = never to 5.00 = five or more times. Assessed at T1, T2, T3, T4 and T5

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query	Statistics	Remarks																														
O-HP/g/mq/v/5/a	tau=-	<p>Serious delinquent behavior</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.18</td> <td>-.14</td> <td>-.12</td> <td>-.04 ns</td> <td>-.10</td> </tr> <tr> <td>T2</td> <td>- = -.09</td> <td>-.11</td> <td>-.09</td> <td>-.03 ns</td> <td>-.07 ns</td> </tr> <tr> <td>T3</td> <td>- = -.04 ns</td> <td>-.07 ns</td> <td>-.11</td> <td>-.05 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.03 ns</td> <td>-.02 ns</td> <td>-.05 ns</td> <td>-.04 ns</td> <td>-.03 ns</td> </tr> </tbody> </table> <p>All significant, unless otherwise indicated T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</p>	Happiness	T1	T2	T3	T4	T5	T1	- = -.18	-.14	-.12	-.04 ns	-.10	T2	- = -.09	-.11	-.09	-.03 ns	-.07 ns	T3	- = -.04 ns	-.07 ns	-.11	-.05 ns	-.04 ns	T4	- = -.03 ns	-.02 ns	-.05 ns	-.04 ns	-.03 ns
Happiness	T1	T2	T3	T4	T5																											
T1	- = -.18	-.14	-.12	-.04 ns	-.10																											
T2	- = -.09	-.11	-.09	-.03 ns	-.07 ns																											
T3	- = -.04 ns	-.07 ns	-.11	-.05 ns	-.04 ns																											
T4	- = -.03 ns	-.02 ns	-.05 ns	-.04 ns	-.03 ns																											

Study	BACHM 1978*	<i>Page in Report:</i>
<i>Reported in:</i>	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
<i>Population:</i>	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
<i>Sample:</i>		
<i>Non-Response:</i>	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
<i>N:</i>	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

<i>Class:</i>	Aggressive behavior Code: A 5.2.2
<i>Measurement:</i>	At T1, T2 and T3: a mean of seven items measuring the amount of school-oriented delinquent behavior. Included are questions on how often respondent has been suspended, damaged school property, and gotten into a serious fight at school. Scale: 0.00 = never to 4.00 = five or more times
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>																											
O-HP/g/mq/v/5/a	tau=-	<table> <thead> <tr> <th rowspan="2">Happiness</th> <th colspan="3">Delinquent behavior at school</th> </tr> <tr> <th>T1</th> <th>T2</th> <th>T3</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>= -.19 (.001)</td> <td>-.14 (.001)</td> <td>-.12 (.001)</td> </tr> <tr> <td>T2</td> <td>= -.10 (.01)</td> <td>-.15 (.001)</td> <td>-.11 (.01)</td> </tr> <tr> <td>T3</td> <td>= -.07 (ns)</td> <td>-.10 (.01)</td> <td>-.08 (.05)</td> </tr> <tr> <td>T4</td> <td>= -.06 (ns)</td> <td>-.04 (ns)</td> <td>-.04 (ns)</td> </tr> <tr> <td>T1: 1966, T2: 1968, T3: 1969, T4: 1970</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Happiness	Delinquent behavior at school			T1	T2	T3	T1	= -.19 (.001)	-.14 (.001)	-.12 (.001)	T2	= -.10 (.01)	-.15 (.001)	-.11 (.01)	T3	= -.07 (ns)	-.10 (.01)	-.08 (.05)	T4	= -.06 (ns)	-.04 (ns)	-.04 (ns)	T1: 1966, T2: 1968, T3: 1969, T4: 1970			
Happiness	Delinquent behavior at school																												
	T1	T2	T3																										
T1	= -.19 (.001)	-.14 (.001)	-.12 (.001)																										
T2	= -.10 (.01)	-.15 (.001)	-.11 (.01)																										
T3	= -.07 (ns)	-.10 (.01)	-.08 (.05)																										
T4	= -.06 (ns)	-.04 (ns)	-.04 (ns)																										
T1: 1966, T2: 1968, T3: 1969, T4: 1970																													

Study	BACHM 1978*	Page in Report:
Reported in:	Bachman, J. G., O'Malley, P. M., Johnston, J. Youth in transition, vol. VI: Adolescence to adulthood, change and stability in the Institute for Social Research, University of Michigan, Ann Arbor, Michigan, 1978	
Population:	Public highschool boys followed 8 years from grade 10, USA, 1966-74	
Sample:		
Non-Response:	2.8% at T1, 17.2% at T2, 21.0% at T3, 28.9% at T4, 28.5% at T5	
N:	t1 - T5: 2213/1886/1799/ 1620/1628	

Measured Correlate

Class: Aggressive behavior Code: A 5.2.2

Measurement: A mean of six (at T1, T2, T3 and T4) or eight (at T5) items which ascertains how often respondent hit, fought, or hurt other people, including relatives, teachers, and students. Scale: 0.00 = never to 4.00 = five or more times.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

Happiness Query	Statistics	Remarks																														
O-HP/g/mq/v/5/a	tau=-	<p>Interpersonal aggression</p> <table> <thead> <tr> <th>Happiness</th> <th>T1</th> <th>T2</th> <th>T3</th> <th>T4</th> <th>T5</th> </tr> </thead> <tbody> <tr> <td>T1</td> <td>- = -.18</td> <td>-.09</td> <td>-.09</td> <td>-.06 ns</td> <td>-.05 ns</td> </tr> <tr> <td>T2</td> <td>- = -.10</td> <td>-.10</td> <td>-.08</td> <td>-.02 ns</td> <td>-.01 ns</td> </tr> <tr> <td>T3</td> <td>- = -.07 ns</td> <td>-.08</td> <td>-.08</td> <td>-.04 ns</td> <td>-.04 ns</td> </tr> <tr> <td>T4</td> <td>- = -.08 ns</td> <td>-.02 ns</td> <td>-.06 ns</td> <td>-.03 ns</td> <td>-.05 ns</td> </tr> </tbody> </table> <p>All significant, unless indicated otherwise T1: 1966, T2: 1968, T3: 1969, T4: 1970, T5: 1974</p>	Happiness	T1	T2	T3	T4	T5	T1	- = -.18	-.09	-.09	-.06 ns	-.05 ns	T2	- = -.10	-.10	-.08	-.02 ns	-.01 ns	T3	- = -.07 ns	-.08	-.08	-.04 ns	-.04 ns	T4	- = -.08 ns	-.02 ns	-.06 ns	-.03 ns	-.05 ns
Happiness	T1	T2	T3	T4	T5																											
T1	- = -.18	-.09	-.09	-.06 ns	-.05 ns																											
T2	- = -.10	-.10	-.08	-.02 ns	-.01 ns																											
T3	- = -.07 ns	-.08	-.08	-.04 ns	-.04 ns																											
T4	- = -.08 ns	-.02 ns	-.06 ns	-.03 ns	-.05 ns																											

Appendix 1 Queries on Happiness used in reported StudiesHappiness Query Code *Full Text*

O-HP/g/mq/v/5/a Selfreport on 6 questions:

" Describe the kind of person you are. Please read each sentence, then mark how often it is true for you"

- 1 I feel like smiling
- 2 I generally feel in good spirits
- 3 I feel happy
- 4 I am very satisfied with life
- 5 I find a good deal of happiness in life
- 6 I feel sad

Response options:

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

Summation: average

Possible range: 1 to 5

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.

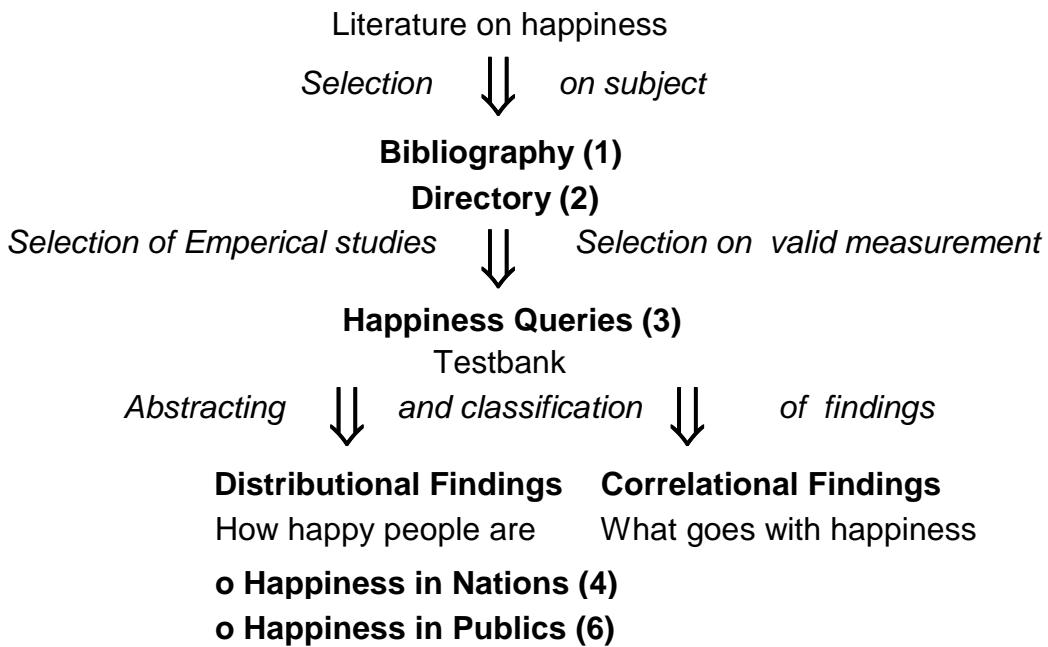
Appendix 2 Statistics used in reported studies

Symbol	Explanation
tau	GOODMAN & Kruskal's TAU Type: descriptive statistic only. Measurement level: Correlate: nominal, Happiness: ordinal Range: [0; +1] Meaning: tau = 0 « knowledge of the correlate value does not improve the prediction quality of the happiness rating. tau = 1 « knowledge of the correlate value enables a perfect (error-free) prediction of the happiness rating.

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:



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

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

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

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

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

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

Appendix 5 *Related Topics*

<i>This Topic</i>	<i>Related Topics</i>
<i>Classification Page 1</i>	<i>In Subject List on Appendix 4</i>
A 5 AGGRESSION	
A 5.1 Aggression career	
A 5.1.1 Earlier aggression	
A 5.1.2 Change in aggression	
A 5.1.4 Later aggression	
A 5.2 Current aggression	
A 5.2.2 Aggressive behavior	DELINQUENCY
A 5.3 Attitudes to aggression	
A 5.3.1 Attitudes to own aggressive behavior	S 2
A 5.3.2 Attitude to aggression in general	V 2.2.1.3 . (post)-materialism

End of Report