



World Database of Happiness

Correlational Findings

© on data collected: Ruut Veenhoven, Erasmus University Rotterdam

Findings on Happiness & CREATIVENESS

Correlate Code: C 10

Classification of Findings		Number of Studies
<i>Correlate Code</i>	<i>Correlate Name</i>	<i>on this Subject</i>
C 10	CREATIVENESS	0
C 10.1	Creativeness career	0
C 10.1.1	Earlier creativeness	0
C 10.1.2	Change in creativeness	0
C 10.1.4	Later creativeness	0
C 10.2	Current creativeness	0
C 10.2.1	Test-creativity	2
C 10.2.2	Reputation of creativeness	1
C 10.2.3	Self-perceived creativeness	3
C 10.3	Attitudes to own creativeness	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

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Erasmus University Rotterdam, 2003, Netherlands

Study	BRAY 1980	<i>Page in Report:</i>	285
<i>Reported in:</i>	Bray, D.W. & Howard, A. Career Success and Life Satisfactions of Middle-Aged Managers Competence and coping during adulthood, pp 258-287, University Press of New England, Hanover, New Hampshire 1980. Also "Managerial Lives in Transition" by Howard, A. & Bray, D.W., The Guilford Press 1988.		
<i>Population:</i>	40+ aged, male managers, Bell Telephone Company, 1978		
<i>Sample:</i>	Non-probability purposive-quota sample		
<i>Non-Response:</i>	panel loss a t T5: 37%		
<i>N:</i>	422 * *)		

Measured Correlate

<i>Class:</i>	Test-creativity Code: C 10.2.1
<i>Measurement:</i>	Rating by 4 experts on the basis of multi-method assessments during stays in assessment-center. Rater instruction: "How likely is this person to solve a management problem in a novel way?" Assessed at 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>
M-PL/c/rc/v/5/a	r=-.05 ns	T5 creativity by T5 happiness.

Study	NOELL 1980	<i>Page in Report:</i>	10
<i>Reported in:</i>	Noelle-Neumann, E. Happiness and games of chance paper, published by: Institut für Demoskopie, 1980 Allensbach, Germany		
<i>Population:</i>	Adult, general public, Germany, 1979		
<i>Sample:</i>	Sampling not reported		
<i>Non-Response:</i>	not reported		
<i>N:</i>	not reported		

Measured Correlate

Class: Test-creativity Code: C 10.2.1

Measurement: Open question. Ss were asked about ideas they associate with a certain city, a certain profession or a certain political concept.

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
A-CA/mh/ri/v/2/b	D%==+	Cheerful Looking Ss produce more associations in the interview

Study	WEBB 1915/1	<i>Page in Report:</i>	26
<i>Reported in:</i>	Webb, E. Character and intelligence. An attempt at an exact study of character. London, 1915, Cambridge University Press.		
<i>Population:</i>	Male college students, England, 1912		
<i>Sample:</i>			
<i>Non-Response:</i>	-		
<i>N:</i>	194		

Measured Correlate

Class: Reputation of creativeness Code: C 10.2.2

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

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
A-CP/g/rdp/ro/7/a	r=+.43	

Study	KAMMA 1983/2	<i>Page in Report:</i>
<i>Reported in:</i>	Kammann, R.; Flett, R. Sourcebook for Measuring Well-being with Affectometer 2. Why Not? Foundation, Dunedin, New Zealand.	
<i>Population:</i>	18+ aged, general public, Dunedin, New Zealand, 1983	
<i>Sample:</i>		
<i>Non-Response:</i>	52%	
<i>N:</i>	112	

Measured Correlate

Class: Self-perceived creativeness Code: C 10.2.3

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

Measured Values:

Error Estimates:

Remarks:

Observed Relation with Happiness

<i>Happiness Query</i>	<i>Statistics</i>	<i>Remarks</i>
A-BK/cm/mq/v/5/a	r=+.33 p<.01	
M-FH/c/sq/v/7/a	r=+.20 p<.05	

Study	LUDWI 1971	Page in Report:	64/207
<i>Reported in:</i>	Ludwig, L.D. Elation-Depression and skill as determinants of desire for excitement. Unpublished doctoral dissertation, 1971, University of Wisconsin, USA.		
<i>Population:</i>	Female students, undergraduates, University of Wisconsin, USA, 197?		
<i>Sample:</i>			
<i>Non-Response:</i>	81%; 61% refusal, 5% eliminated on basis of screening data, 15% miscellaneous re		
<i>N:</i>	72		

Measured Correlate

<i>Class:</i>	Self-perceived creativeness Code: C 10.2.3
<i>Measurement:</i>	2-item index of direct questions on creativity and personality maturity compared with others.
<i>Measured Values:</i>	
<i>Error Estimates:</i>	
<i>Remarks:</i>	

Observed Relation with Happiness

Happiness Query	Statistics	Remarks
A-AOL/u/mq/v/10/a	AoV=+ ns	<p>Ss answered these questions at the end of an experimental situation in which their self-esteem was experimentally altered. This was done by means of a false personality report dealing with the subject's creativity, maturity and other things.</p> <p>Self-perceived creativity: $r = +.05$ (ns) Self-perceived maturity : $r = +.17$ (ns)</p> <p>- For happy Ss self-perceived creativity and maturity is unaffected by bolstered self-esteem and decreased by reduced self-esteem. - For unhappy Ss it is increased by bolstered self-esteem and unaffected by reduced self-esteem.</p>

Study	PAYNE 1974	<i>Page in Report:</i>	17
<i>Reported in:</i>	Payne, R.L. N.M. Bradburn's measures of psychological well-being: an attempt at replication. Memo No: 61, MRC Social and Applied Psychology. Unit, Dpt.ofPsychology University of Sheffield, England, 1974.		
<i>Population:</i>	Employed males, supervising jobs, England, 197?		
<i>Sample:</i>			
<i>Non-Response:</i>	4% incomplete.		
<i>N:</i>	192		

Measured Correlate

<i>Class:</i>	Self-perceived creativeness Code: C 10.2.3
<i>Measurement:</i>	Closed question; during last few weeks.
<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>
A-BB/cm/mq/v/5/a	G=	Index of Positive Affects: G = +.22 Index of Negative Affects: G = +.08

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

Happiness Query Code *Full Text*

A-AOL/u/mq/v/10/a

Selfreport on 4 questions:

"The following are statements of feelings or mood. Please read them over and then indicate which of these overall feelings best describes your feelings."

- A) Right now you feel
- B) The best you felt today
- C) The worst you felt today ...
- D) The way you usually feel ...

Response options:

- 10. Complete elations, rapturous joy, and soaring ecstasy.
- 9. Very elated and in very high spirits; tremendous delight and bouyancy.
- 8. Elated and in high spirits.
- 7. Feeling very good and cheerful.
- 6. Feeling pretty good, "OK".
- 5. Feeling a little bit low. Just so-so.
- 4. Spirits low and somewhat blue.
- 3. Depressed and feeling very low. Definitely blue.
- 2. Tremendously depressed. Feeling terrible, really miserable, "just awful".
- 1. Utter depression and gloom. Completely down. All is black and leaden. Wish it were all over.

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

Name: Elation-Depression Scale (variant)

A-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 I 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 tot -30

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

A-BK/cm/mq/v/5/a

Selfreport on 40 questions:

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

A My life is on the right track

B I seem to be left alone when I don't want to be

C I feel I can do whatever I want to

D I think clearly and creatively

E I feel like a failure

F Nothing seems very much fun any more

G I like myself

H I can't be bothered doing anything

I I feel close to people around me

J I feel as though the best years of my life are over

K My future looks good

L I have lost interest in other people and don't care about them

M I have energy to spare

N I smile and laugh a lot

O I wish I could change some parts of my life

P My thoughts go around in useless circles

Q I can handle any problems that come up

R My life seems stuck in a rut

S I feel loved and trusted

T I feel there must be something wrong with me

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

U Satisfied

V Lonely

W Free-and-easy

X Clear-headed

Y Helpless

Z Impatient

AA Usefull

AB Depressed

AC Loving

AD Hopeless
 AE Optimistic
 AF Withdrawn
 AG Enthusiastic
 AH Good-natured
 AI Discontented
 AJ Confused
 AK Confident
 AL Tense
 AM Understood
 AN Insignificant

Answer options;
 0 not at all
 1 occasionally
 2 some of the time
 3 often
 4 all the time

Summation:

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

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

Interviewer-rating of cheerfulness:

Altogether the respondent looks.....
 2 quite cheerfull
 1 not too cheerfull
 - difficult to say

Part of the 8 item Allensbacher Ausdrücktest which also involves ratings of cheerful appearance in: look, mouth, posture, movements, eyes, elbows and lips. This general rating is the last item in the test.

Original text in German:

Der Befragte sieht insgesamt -
 2 Ganz fröhlich aus.....
 1 Nicht so fröhlig aus.....
 - Unmöglich zu sagen.....

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 collums 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

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

Selfreport on single question:

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

7 very happy
 6 happy
 5 somewhat happy
 4 mixed (about equally happy and unhappy)
 3 somewhat unhappy
 2 unhappy
 1 very unhappy

M-PL/c/rc/v/5/a

Clinical rating by 4 experts on the basis of multi-method assesments during periodical stays in assesment center.

Rater instruction:

"To what extend does this person find pleasure in life at the present time.....?"

1 low
 2
 3 average
 4
 5 high

On the web you will find an overview of valid queries on happiness and an explanation of the classification used. Go to: www.eur.nl/fsw/research/happiness/hap_quer/hqi_fp.htm. This is the introductory text to the Catalog of Happiness Queries.

Appendix 2 *Statistics used in reported studies*

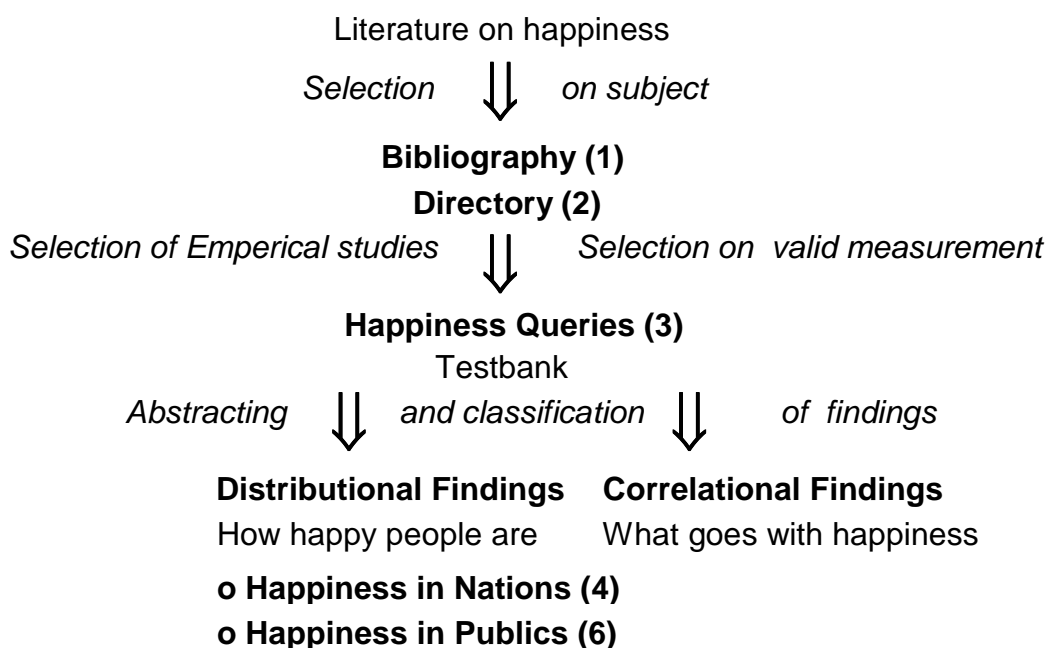
<i>Symbol</i>	<i>Explanation</i>
AoV	<p>ANALYSIS of VARIANCE (ANOVA) Type: statistical procedure Measurement level: Correlate(s): nominal, Happiness: metric. In an ANOVA, the total happiness variability, expressed as the sum of squares, is split into two or more parts, each of which is assigned to a source of variability. At least one of those sources is the variability of the correlate, in case there is only one, and always one other is the residual variability, which includes all unspecified influences on the happiness variable. Each sum of squares has its own number of degrees of freedom (df), which sum up to Ne -1 for the total variability. If a sum of squares (SS) is divided by its own number of df, a mean square (MS) is obtained. The ratio of two correctly selected mean squares has an F-distribution under the hypothesis that the corresponding association has a zero-value.</p> <p>NOTE: A significantly high F-value only indicates that, in case of a single correlate, the largest of the c mean values is systematically larger than the smallest one. Conclusions about the other pairs of means require the application of a Multiple Comparisons Procedure (see e.g. BONFERRONI's MULTIPLE COMPARISON TEST, DUNCAN's MULTIPLE RANGE TEST or STUDENT-NEWMAN-KEULS)</p>
D%	<p>DIFFERENCE in PERCENTAGES Type: descriptive statistic only. Measurement level: Correlate level: dichotomous, but nominal or ordinal theoretically possible as well. Happiness level: dichotomous Range: [-100; +100]</p>
G	<p>Meaning: the difference of the percentages happy people at two correlate levels. GOODMAN & Kruskal's GAMMA Type: test statistic Measurement level: Correlate: ordinal, Happiness: ordinal Range: [-1; +1]</p> <p>Meaning: $G = 0$ « no rank correlation $G = +1$ « strongest possible rank correlation, where high correlate values correspond with high happiness ratings. $G = -1$ « strongest possible rank correlation, where high correlate values correspond with low happiness ratings.</p>
r	<p>PRODUCT-MOMENT CORRELATION COEFFICIENT (Also "Pearson's correlation coefficient" or simply 'correlation coefficient') Type: test statistic. Measurement level: Correlate: metric, Happiness: metric Range: [-1; +1]</p> <p>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</p>

values.

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

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

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

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

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

Appendix 5 Related Topics

This Topic*Classification Page 1****Related Topics****In Subject List on Appendix 4*

C 10	CREATIVENESS		
C 10.1	Creativeness career		
C 10.1.1	Earlier creativeness		
C 10.1.2	Change in creativeness		
C 10.1.4	Later creativeness		
C 10.2	Current creativeness		
C 10.2.1	Test-creativity	I 3.2.1	Test-intelligence
C 10.2.2	Reputation of creativeness	I 3.2.2	Reputation of intelligence
C 10.2.3	Self-perceived creativeness	I 3.2.3	Self-perceived intelligence
C 10.3	Attitudes to own creativeness		

End of Report