

Multidimensional Measurement of Self Concept:
A Preliminary Study

by
Karen Mihalik ©

Thesis
Submitted to the Faculty of Graduate Studies
Lakehead University
in partial fulfillment of the requirements
for the degree of Master of Arts

Department of Psychology

, April, 1987

ProQuest Number: 10611317

All rights reserved

INFORMATION TO ALL USERS

The quality of this reproduction is dependent upon the quality of the copy submitted.

In the unlikely event that the author did not send a complete manuscript and there are missing pages, these will be noted. Also, if material had to be removed, a note will indicate the deletion.



ProQuest 10611317

Published by ProQuest LLC (2017). Copyright of the Dissertation is held by the Author.

All rights reserved.

This work is protected against unauthorized copying under Title 17, United States Code
Microform Edition © ProQuest LLC.

ProQuest LLC.
789 East Eisenhower Parkway
P.O. Box 1346
Ann Arbor, MI 48106 - 1346

Permission has been granted to the National Library of Canada to microfilm this thesis and to lend or sell copies of the film.

The author (copyright owner) has reserved other publication rights, and neither the thesis nor extensive extracts from it may be printed or otherwise reproduced without his/her written permission.

L'autorisation a été accordée à la Bibliothèque nationale du Canada de microfilmer cette thèse et de prêter ou de vendre des exemplaires du film.

L'auteur (titulaire du droit d'auteur) se réserve les autres droits de publication; ni la thèse ni de longs extraits de celle-ci ne doivent être imprimés ou autrement reproduits sans son autorisation écrite.

ISBN · 0-315-39591-5

TO: . **MY MOTHER**

AND TO: **THE MEMORY OF MY FATHER**

Thank You For Allowing
Me To Be Me

ACKNOWLEDGEMENTS

I would like to thank Mr. K. Allan, my thesis advisor, for his advise and support during the preparation of this thesis, as well as Dr. M. Dilley for her time spent acting as second reader, and Dr. J. C. Crumbaugh as external advisor. Especially, I thank my family for their support and assistance given throughout this project.

Further appreciation is extended to Dr. E. Bauman, Dr. H. McLeod, Dr. K. Wood, Dr. W. Melynk, Dr. J. Evans and fellow peers who acted as judges. I would like to acknowledge the assistance given by Mr. S. Bagnall, Mr. V. Cameron, the late Dr. I. Taylor who initially acted as second reader and to all the individuals who participated in this research. A special thank you to Dr. P. Carlson, Dr. P. Ritchie and Mr. A. Guitard.

TABLE OF CONTENTS

	<u>Page</u>
Table of Appendices	iv
Table of Tables	v
ABSTRACT	xi
INTRODUCTION	1
Overview of Self Concept	1
Development of Self Concept	4
Overview of Self Concept Measure	7
Critical Evaluation of Selected Measurements	8
Purpose of Research	11
RATIONALE AND THEORY	13
Self Concept Defined	13
Variables of the Self Concept	21
Internal Dimension	22
External Dimension	27
METHOD	34
Plan of the Research	34
I Participants	35
II Materials and Measures	35
III Item Development	37
A. Scale Revision	37
B. Developed Scales	43
IV Physical Characteristics	44

PROCEDURE	45
Administration of Instrument	45
Study One	45
Item Analysis	45
Study Two	46
Reliability	46
Test-Retest Reliability	47
Internal Consistency	47
Validity	47
Construct Validity	47
Convergent and Discriminant Validation	48
Factor Analysis	51
Study Three	53
Cross-Validation	53
RESULTS	54
Study One	54
Item Analysis	54
Study Two	54
Reliability	54
Test-Retest Reliability	55
Internal Consistency	55
Validity	55
Construct Validity	55
Convergent and Discriminant Validation	55
Factor Analysis for Individual Scales	57

Study Three	59
Cross-Validation	59
Internal Consistency	60
Factor Analysis for Individual Scales	61
DISCUSSION	62
Global	62
Psychometric Conclusions	62
Individual Scales	64
SUMMARY	79
TABLES	80
APPENDICES	167
REFERENCES	267

TABLE OF APPENDICES		Page
Appendix A	Scales and Interpretation	167
Appendix B	Modified Scales	170
Appendix C	Item Development - Instruction Page and Scale Definitions and Scale Items	178
Appendix D	Questionnaire Used in Study One	215
Appendix E	Revised Questionnaire	235
Appendix F	Instructions and Score Sheets Used in Study One and Study Two	247
Appendix G	Items Grouped According to Factors for Each Scale (only items with a loading of .30 or greater in one factor are shown)	257

TABLE OF TABLES		Page
Table 1	Number of Judges that Scored the Item Five or Above in the Original Item Pool	80
Table 2	A Brief Description of the Tennessee Self Concept Scale (TSCS)	88
Table 3	Adjective Description of the Sixteen Personality Factor Questionnaire (16PF)	90
Table 4	Means, Variances and Standard Deviations for Developed Scales	92
Table 5	Corrected Item - Total Correlation - Item Analysis	93
Table 6	Reliability Analysis for the Revised Questionnaire	98
Table 7	Test-Retest Reliability	103
Table 8	Pearson Correlation Coefficients between the TSCS and Revised Questionnaire	104
Table 8a	Subscales of the TSCS - Abbreviations Used	107
Table 9	Pearson Correlation Coefficients between the 16PF and Revised Questionnaire	109
Table 9a	Factor Adjectives of the 16PF and Abbreviations Used	111
Table 10	Comparison of the Predicted and Actual Significant Correlations between the Revised Questionnaire and the TSCS	112
Table 11	Comparison of the Predicted and Actual Significant Correlations between the Revised Questionnaire and the 16PF	114
Table 12	Factor Analysis with Iterations - Family Self Scale	115

	Page
Table 13	Factor Analysis with Iterations - Social Self Scale 115
Table 14	Factor Analysis with Iterations - Religious Self Scale 116
Table 15	Factor Analysis with Iterations - Occupational Self Scale 116
Table 16	Factor Analysis with Iterations - Masculine/Feminine Scale 117
Table 17	Factor Analysis with Iterations - Body Self Scale 117
Table 18	Factor Analysis with Iterations - Past/Present/Future Scale 118
Table 19	Factor Analysis with Iterations - Public Self Scale 118
Table 20	Factor Analysis with Iterations - Empathy Scale 119
Table 21	Factor Analysis with Iterations - Self Esteem Scale 119
Table 22	Factor Analysis with Iterations - Altruism Scale 120
Table 23	Factor Analysis with Iterations - Purpose in Life Scale 120
Table 24	Factor Analysis with Iterations - Lie Scale 121
Table 25	Varimax Rotated Factor Matrix - Family Self Scale 122
Table 26	Varimax Rotated Factor Matrix - Social Self Scale 123

	Page
Table 27	Varimax Rotated Factor Matrix - Religious Self Scale 124
Table 28	Varimax Rotated Factor Matrix - Occupational Self Scale 125
Table 29	Varimax Rotated Factor Matrix - Masculine/Feminine Scale 126
Table 30	Varimax Rotated Factor Matrix - Body Self Scale 127
Table 31	Varimax Rotated Factor Matrix - Past/Present/Future Scale 128
Table 32	Varimax Rotated Factor Matrix - Public Self Scale 129
Table 33	Varimax Rotated Factor Matrix - Empathy Scale 130
Table 34	Varimax Rotated Factor Matrix - Self Esteem Scale 131
Table 35	Varimax Rotated Factor Matrix - Altruism Scale 132
Table 36	Varimax Rotated Factor Matrix - Purpose in Life Scale 133
Table 37	Varimax Rotated Factor Matrix - Lie Scale 134
Table 38	Varimax Rotated Factor Matrix and Eigenvalues - Family Self Scale 135
Table 39	Varimax Rotated Factor Matrix and Eigenvalues - Social Self Scale 135
Table 40	Varimax Rotated Factor Matrix and Eigenvalues - Religious Self Scale 136
Table 41	Varimax Rotated Factor Matrix and Eigenvalues - Occupational Self Scale 136

Table 42	Varimax Rotated Factor Matrix and Eigenvalues - Masculine/Feminine Scale	137
Table 43	Varimax Rotated Factor Matrix and Eigenvalues - Body Self Scale	137
Table 44	Varimax Rotated Factor Matrix and Eigenvalues - Past/Present/Future Scale	138
Table 45	Varimax Rotated Factor Matrix and Eigenvalues - Public Self Scale	138
Table 46	Varimax Rotated Factor Matrix and Eigenvalues - Empathy Scale	139
Table 47	Varimax Rotated Factor Matrix and Eigenvalues - Self Esteem Scale	139
Table 48	Varimax Rotated Factor Matrix and Eigenvalues - Altruism Scale	140
Table 49	Varimax Rotated Factor Matrix and Eigenvalues - Purpose in Life Scale	140
Table 50	Varimax Rotated Factor Matrix and Eigenvalues - Lie Scale	141
Table 51	Reliability Analysis for Cross-Validation	142
Table 52	Eigenvalues for Cross-Validation - Family Self Scale	147
Table 53	Eigenvalues for Cross-Validation - Social Self Scale	147
Table 54	Eigenvalues for Cross-Validation - Religious Self Scale	148
Table 55	Eigenvalues for Cross-Validation - Occupational Self Scale	148
Table 56	Eigenvalues for Cross-Validation - Masculine/Feminine Scale	149

		Page
Table 57	Eigenvalues for Cross-Validation - Body Self Scale	149
Table 58	Eigenvalues for Cross-Validation - Past/Present/Future Scale	150
Table 59	Eigenvalues for Cross-Validation - Public Self Scale	150
Table 60	Eigenvalues for Cross-Validation - Empathy Scale	151
Table 61	Eigenvalues for Cross-Validation - Self Esteem Scale	151
Table 62	Eigenvalues for Cross-Validation - Altruism Scale	152
Table 63	Eigenvalues for Cross-Validation - Purpose in Life Scale	152
Table 64	Eigenvalues for Cross-Validation - Lie Scale	153
Table 65	Varimax Rotated Factor Matrix for Cross-Validation - Family Self Scale	154
Table 66	Varimax Rotated Factor Matrix for Cross-Validation - Social Self Scale	155
Table 67	Varimax Rotated Factor Matrix for Cross-Validation - Religious Self Scale	156
Table 68	Varimax Rotated Factor Matrix for Cross-Validation - Occupational Self Scale	157
Table 69	Varimax Rotated Factor Matrix for Cross-Validation - Masculine/Feminine Scale	158
Table 70	Varimax Rotated Factor Matrix for Cross-Validation - Body Self Scale	159
Table 71	Varimax Rotated Factor Matrix for Cross-Validation - Past/Present/Future Scale	160

Table 72	Varimax Rotated Factor Matrix for Cross-Validation - Public Self Scale	161
Table 73	Varimax Rotated Factor Matrix for Cross-Validation - Empathy Scale	162
Table 74	Varimax Rotated Factor Matrix for Cross-Validation - Self Esteem Scale	163
Table 75	Varimax Rotated Factor Matrix for Cross-Validation - Altruism Scale	164
Table 76	Varimax Rotated Factor Matrix for Cross-Validation - Purpose in Life Scale	165
Table 77	Varimax Rotated Factor Matrix for Cross-Validation - Lie Scale	166

ABSTRACT

The purpose of this research was to develop a preliminary multi-dimensional measurement of self concept, within the framework of phenomenological theory and acknowledging previous work in the field. Twelve preliminary scales were investigated in terms of reliability, validity and cross-validation. Further work was not done to establish normative data, accounting for demographic differences.

Self concept was defined as "an organized, fluid, but consistent conceptual pattern of characteristics and relationships of the "I" or the "me", together with values attached to these concepts" (Rogers, 1951, p. 498).

Two groups of participants consisting of university and college students at all levels were used. The first group ($n = 325$) was used for item analysis and cross-validation measures, and the second group ($n = 96$) for retest reliability and validity measures.

The questionnaire used consisted of thirteen scales: five scales represented an internal frame of reference, and seven scales an external frame of reference of the self concept. The last scale was a Lie Scale, or "Faking Good".

There were four major stages to the research: item development and three psychometric studies; two approaches were used in item development; the development of items for the Family Self, Social Self, Religious Self, Occupational Self, Masculine/Feminine, Body Self, Public Self, and Past/Present/Future Scales; and the revision of items for the Lie,

Empathy, Altruism, Self Esteem, and the Purpose In Life Scales, which were modified from already developed tests.

Prior to the first administration of the questionnaire, nine judges rated each item of the developed scales for face validity. Inter-judge reliability was not performed on the judges' responses due to the high agreement found between judges.

The process of item analysis was completed in Study One. The best 16 items that resulted in the highest item-total correlation within the eight developed scales were retained.

The second study established reliability and validity data on the scales after item analysis. Retest reliability on 24 college students over a three month interval was unacceptable for all scales, with the exception of the Masculine/Feminine Self Scale. Overall, coefficient alpha results were poor, with only two scales (Past/Present/Future and Empathy Scale) meeting the criteria of acceptable homogeneity estimates ($n = 96$). Convergent and discriminant validation was estimated using the Counselling Form of the TSCS and 16PF ($n = 35$). Results of the TSCS revealed that most predictions made, occurred. Only a few predictions were successful when the revised questionnaire's scales were correlated with the factors of the 16PF Test. Factor analysis for individual scales revealed ambiguous findings.

Study Three, the cross-validation estimates, were found to be more favourable. However, the sample size was small ($n = 41$).

Overall, the studies suggested that there is a firm enough base to warrant further development of this multidimensional self concept scale.

INTRODUCTION

Overview of Self Concept

Prior to William James, early experimental psychologists such as Wilhelm Wundt, among others, considered the self to be the experience of a person's body (Gergen, 1971, and De Levita, 1965). For example, the notion of self-awareness or self-feeling was considered to be the awareness of body tension or other internal bodily states. At the turn of the twentieth century, according to Gergen (1971), William James considered the bodily self to be the "empirical me", the total of all people call their own, including the physical body, their characteristics and abilities, all material possessions, occupation, hobbies and friends (Gergen, 1971). According to William James, there was a social, material and spiritual self which made up the total of one's self. Psychologists since James' time have not agreed completely with his views of the self (Gergen, 1971). At present there are almost as many different concepts of the self as there are writers about the self (Wylie, 1961).

The term "self" has been used in personality theories in order to achieve a greater understanding of man. Within some personality theories the term "self" has been defined in relation to the "ego" - a set of mental processes (Freud, 1950; Symond, 1951), the "social formed self", the "object of awareness" (Mead, 1934), "the looking-glass self" (Cooley, 1922), "proprium" - "the me as felt and known" (Allport, 1955, 1961, and 1968), the "interpreter" - interprets and gives meaning to one's experiences

(Adler, 1929, 1954), "self system" (Sullivan, 1953, 1954), the "inner reality" or the "inner nature" (Fromm, 1941, 1959; Horney, 1950; Maslow, 1968), "a means of relating to other" (May, 1953), "identity" (Erickson, 1968), "the individual as perceived by the individual" (Rogers, 1951; Murphy, 1947; Rosenberg, 1979). These applications of the term "self" are only a few among many to be found in the literature (Wylie, 1961, 1974, 1979, and Rosenberg, 1979). As can be seen there is little to no consistency in the usage of the term "self" among theorists (Rosenberg, 1979, and Wylie, 1968).

However, Rosenberg (1979), Wylie (1974) and Symonds (1951) all believe that there has been a fundamental distinction which has separated the different theories of self concept. They have assumed that the major distinction between the theories of self is the self seen as an agent or subject - "an executor, a doer and the self seen as object of the person's own knowledge and evaluation" (Rosenberg, 1979, p. 6). That which is known, not the process of experiencing or knowing (subject). As a result self is viewed either in terms of a process (knowing, doing, perceiving, acting) or self viewed as an internal "object" about which one has feelings and attitudes, thoughts and valuations.

A more sophisticated view of self was developed by George Herbert Mead (1934) who sees the self as being both subject and object simultaneously; this he termed "reflexive self". This means that a person has the ability to stand outside one's body, view it objectively,

evaluate and describe it and then respond to it. Only that person can perceive his/her own self and then have feelings and attitudes towards what is perceived.

When one speaks of "self" it is meaningful to speak of "self concept" because the notion of self concept is the "self in a given situation" (Combs and Snygg, 1959, p. 127) or is the "picture of the self" (Rosenberg, 1979, p. 7). It is this element of the self which has the capability of being observed, inferred or studied (Radford et al., 1971; Combs and Snygg, 1959; Rogers, 1951).

An individual's self is not entirely the same as the individual's self concept. Rosenberg (1979) makes a clear distinction between the two terms. He refers to self concept in terms of "self as object" and the self as having reference to "agent or subject" (p. 7). As a result he defines self concept as the "totality of the individual's thoughts and feelings having reference to himself as an object" (Rosenberg, 1979, p. 7). This definition is similar to that of Rogers (1951) who believes that the self concept is like a series of hypotheses which an individual holds about himself/herself. These perceived thoughts, feelings, attitudes (hypotheses) which each individual believes about oneself may be true or false. Following this idea, Jourard (1974) states that self concept comprises the beliefs a person has of his/her "own nature". This includes the strengths and weaknesses, the possibilities for growth, and the person's descriptions of his/her "customary patterns of behaviour and

experiencing" (Jourard, 1974, pp. 152-153). May (1953) also makes this distinction. He believes the self to be the "organizing function by means of which one human being can relate to another" (p. 91) and the concept of self is the term used for the awareness each man has of his "Being", which is unique to each individual (May, 1953). In this respect, the notion of self and the self concept are too different ideas. The self concept refers to the individual's perception of self or what a person thinks and feels about himself/herself; the self on the other hand has reference to agent or subject.

Within the ambit of social psychology, self concept is defined by the theories of self perception and self presentation (Penrod, 1986). Self perception theory explains that a person learns about his/her own attitudes, emotions and other inner dimensions by inferring them from self behaviour (Bem, 1972). While, self presentation is the impression or image that is shown to others; it is the adaptation of self to different roles to facilitate social processes (Goffman, 1967). Compared to the phenomenological approach, social psychology views the individual as being more environmentally bonded. In their explanation of human behaviour, less focus is also given to the influence of affective and unconscious elements. It is almost as if social reality and self integrity demands that a person orchestrates his/her identity with the situation (Burns, 1979). The phenomenologists on the other hand views the "totality" of an individual and it is the private personal world of the person that strongly influences behaviour.

Development of the Self Concept

There is general agreement that a person's self concept does not exist at birth (Adams and Fitts, 1971). However, the most important

issue discussed by the theorists (Freud, 1950; Allport, 1955; Combs and Snygg, 1959; Rogers, 1951; 1961; Sullivan, 1953; Horrock and Jackson, 1972; Spitzer, S., Couch and Stratton, 1971; Festinger, 1954; Mead, 1934; Cooley, 1922) is the relevance of early interpersonal relationship in the development of the concept of self.

Combs and Snygg (1959) and Horrocks and Jackson (1972) speculate that there is a form of awareness before birth. "We can do little more than speculate about what it must be like as the organism's awareness develops from the primitive irritability of the single cell to the awareness made possible by the highly specialized sensory equipment of the human fetus" (Combs and Snygg, 1959, p. 132). The major development actually begins after birth by a process of exploration and differentiation of oneself and the world and by the "mirror of himself represented by the actions of those about him" (Combs and Snygg, 1959, p. 134). The final stage of this process is when the individual attains a sense of the reality of the new self.

Erickson (1968) believed that a person is not born with a fully formed self concept. At the end of childhood, the individual's earlier ways of self definition and relating to the world are no longer adequate, and a revised concept of the self must be evolved. This process occurs through testing the new components and then integrating these aspects of self to form the revised self concept. Rogers (1961) maintains that self develops from the perceived approval and disapproval of others; he states that unconditional positive self-regard - positive feelings and attitudes towards oneself, is necessary for the development of a positive, accepting view of self. Cooley (1922) refers to this as the "looking-glass" self - the imagined appraisals of others, and Sullivan (1953) maintains that we learn the most significant and fundamental facts about ourselves from what he called "reflected appraisals". Therefore, influences about ourselves are

produced as a consequent of the way we perceive others behaving towards us.

Combs and Snygg (1959) stated:

"No experience in the development of the child's concepts of self is quite so important or far reaching as his family. It is the family which introduces a child to life, which provides him with his earliest and most permanent self definitions. Here it is that he first discovers those basic concepts of self which will guide his behaviour for the rest of his life" (pp. 134-135).

Allport's (1955) conviction about the origin of the self concept is that self-identity is not stable, nor is the realization of one's own existence conceived until the age of four or five. Prior to this age the child only has "retentive capacity", but in all probability no sense of self-identity. This sense seems to grow gradually, partly as a result of being clothed and named, and otherwise marked off from the surrounding environment (Allport, 1955). It is the actions of others to which he/she adjusts, "that force upon a child the realization that he is not the other, but a being in his own right" (Allport, 1955, p. 44).

Symonds (1951) also proposed that the concept of the self is not present at birth. "The self develops as we feel ourselves separate and distinct from other, but the first differentiations are dim and hazy" (Symonds, 1951, p. 62). The moment a child is capable of realizing individuality at any level, the concept of self is present. For Symonds (1951) the concept of self is dependent on one's perceptive capabilities. "As the mother begins to take shape as a separate person, the body forms vague notions of himself as a separate individual" (Symonds, 1951, p. 62).

Jersild (1950) follows Symond's idea that the origin of the self begins initially with a process of differentiation, but soon after birth the infant starts testing its capacities by interacting with the environment. Therefore, the content of the self concept is derived from the individual's total experience as a result of "interaction with the environment and

particularly as a result of evaluational interaction with others" (Rogers, 1951, p. 498). Evaluational interaction refers to how a person perceives approval or disapproval from others.

Developmental psychologists in their investigation conclude that the earliest step in the development of self concept occurs approximately at the age eighteen months, when the "infant learns to differentiate him or herself from the environment" (Perry and Bussey, 1984, p. 143). It is not until the age of eight or nine years does a child begin to apply psychological attributes to himself/herself as well as the emergence of the "social selves".

The concept of the self has not received much agreement within the field of thought found in psychology. For years, many people have discussed what is one's self concept. Based on these ideas, some psychologists have attempted to develop measurements of self concept.

Overview of Self Concept Measure

The complexity of human nature has caused many common measurement problems which are shared in psychological test development. Some of the measurement problems encountered are identified in the process of development, standardization, and in determining reliability and validity of the test. The time required for administration, scoring, the vocabulary used in the make up of the items and the difficulty level of the instructions are critical because these issues determine the purpose and groups of items and/or scales that could reduce the influence of response sets or socially desirable responding (e.g., "faking good").

The measurement of self concept has been characterized by these and other difficulties. Combs and Snygg (1959) maintain that self concept is

not measurable but can only be indirectly inferred from a person's behaviour. Their solution to this problem is to designate self measurement as self report scales. This stems from a belief that each individual's self concept is private, personal and not directly observable. Radford et al. (1971) lend support to the Combs and Snygg (1959) argument, but believe that self concept is in fact observable because each individual is in varying degrees capable of contact with the "phenomenal" self. The "phenomenal" self is the "organization or pattern of all those beliefs which the individual refers to as "I" or "me". It is himself from his own point of view" (Combs and Snygg, 1959, p. 126). Radford et al. in 1971 states that each individual "has some kind of concept of the self that can be shared if he is willing to do so" (p. 39). Even though behaviour often appears to be misleading and deceptive, it can be assumed that self concept is revealed through behaviour. Following this idea one could at least obtain a sample of a person's self concept by asking an individual to report or describe it. At present, it is assumed that a carefully designed self report measure provides "the best way of assessing the self concept, particularly for groups" (Radford et al., 1971, p. 39).

The present scope of self concept instruments also requires comment. The major foci in measuring self concept have been limited to a few elements of self concept such as self-esteem, self-regard and self-acceptance, instead of a global approach.

Critical Evaluation of Selected Measurements

Presently there are many popular tests that are used in research or counselling that have reference to the self concept such as the Self-Esteem Scale (Rosenberg, 1965), Self-Esteem Inventory (Coopersmith, 1967), Social Esteem (Ziller, 1965), Adjustment and Values (Bills, Vance, McLean, 1951),

Expressed Acceptance of Self Scales (Berger, 1952) and Self-Acceptance Scale (Phillips, 1951). Other tests such as the Personal Orientation Inventory (POI) (Shostrom, 1968), California Psychological Inventory (CPI) (Gough, 1956), Adjective Check List (Gough and Heilbrum, 1965), and the Minnesota Multiphasic Personality Inventory (MMPI) (Hathaway and McKinley, 1967) are personality tests which have included elements of self concept or have developed subscales which measure self concept. In comparison, few psychologists have taken an adequate or global approach to the measurement of self concept. Examples of popular tests used that have taken a somewhat broader view are: The Tennessee Self Concept Scale (TSCS) (Fitts, 1965), Twenty Statements Test (TST) or the "Who Am I" (Kuhn, cited in Spitzer, Couch and Stratton, 1971), The Piers-Harris Children's Self-Concept Scales (Piers and Harris, 1969), and Butler-Haigh Q-Sort (Butler and Haigh, 1954).

The Tennessee Self Concept Scale (TSCS) (Fitts, 1965) is one of the newest tests used for measuring self concept. Fitts (1965) developed the TSCS in an effort to deal with many of the difficulties found in self concept measurement. Instead of looking at a limited portion of self concept, he has tried a multidimensional view of self concept. The TSCS consists of one hundred self descriptive statements which a person uses to portray his/her self concept. The subjects are required to respond on a five-point response scale ranging from "completely true" to "completely false" for each statement. Ten of the 100 statements of the TSCS were taken from the Lie Scale of the MMPI; the remaining ninety were composed

of equal numbers of positive and negative statements about the self. The ninety items are grouped into a two-dimensional, 3 x 5 scheme. One dimension yields three measures of an internal frame of reference: identity (how a person sees himself/herself); self-satisfaction; and behaviour (how he/she acts). The second dimension yields five measures of an external frame of reference: physical self; moral-ethical self; personal self; family self; and social self (Vacchiano and Strauss, 1968, p. 324; Fitts, 1965). The ninety items comprised the overall self-esteem score which is calculated by the total positive (P) scores. Also, there are other major scales which can be derived: Variability Scores, which reflect the amount of consistency from one area of self-perception to another; the Distribution of Responses, which measures extremity in response style; the Net Conflict Score and the Total Conflict Score, which indicate the difference in responses to the positively or negatively stated items. The ten items from the MMPI constitute the Self Criticism Scores which is a measure of overt defensiveness. In addition, the Clinical Research form of the TSCS yields six other empirical scales, plus the Number of Deviant Signs. The TSCS results in a clinical profile for both clinical and research use.

One problem of the TSCS is that there are no established separate norms for age, sex, race or other variables. Thompson (1972) cites research that has been done on the TSCS Total Positive Score (based on all items) and many of the subscales which demonstrates that these variables plus economical disadvantage may influence self concept.

Wylie (1979) also cites research in this area, stressing the necessity for controlling or accounting for age, sex, and race.

Bentler (cited in Buros, 1972) states that there are two major problems with the TSCS. First, there is no information regarding the internal structure of the test or the internal consistency of the scale. Secondly, the three internal dimensions scales are also used to measure the five external dimensions of the self, leading to non-independence of the subscales. Therefore, over-interpretation of profiles can occur (p. 367).

The criticisms raised are not unique to the TSCS. Similar faults are found in different measurements presently in use. For example, the Twenty Statements (Who Am I test) and Sherwood's Self-Concept and Inventory (Sherwood, 1962, cited in Robinson and Shaver, 1973) lack validity measures. Others mentioned earlier include a limited portion of self concept, such as self-esteem, self-acceptance, acceptance of one physical appearance, or other elements.

Purpose of Research

Currently there is a need to integrate some of the existing literature on the measurement of self concept in order to develop a self concept scale which is multidimensional in its content. "A need has continued for a scale which is simple for the subject, widely applicable, well standardized, and multidimensional in its description of the Self Concept" (Fitts, 1965, p. 1).

The primary purpose of this research is to develop a preliminary self concept device taking into account the previous work done in the field. Ideally twelve scales were sought and investigated in terms of item analysis reliability, validity and cross validation. This preliminary study does not go beyond the point of investigation, to the process of establishing normative data, accounting for age, sex, race, and economical disadvantage. The primary focus is to determine if the statistical results estimated in this research lend support to the further development of a self concept measurement which reflects self concept viewed in a phenomenological frame, and which is multidimensional in concept.

RATIONALE AND THEORY

Self Concept Defined

The focus of this research is on "self concept" and not "self". The self concept is not the self, nor does it constitute the self. It is what Rosenberg (1979) calls "A picture of the self" (p. 7). The term self concept may best be defined by first illustrating what it is not.

Self concept is not the "productive personality" (Fromm, 1941, 1959), "the here and now person" (Perls, 1969, 1972), "the self-actualized person" (Maslow, 1959, 1968, 1970), the "forward directed" person (Allport, 1961, 1968), the "real self" (Horney, 1950), the "I" as used by Mead (1934), the "self-realized person" (Jung, 1933, 1954, 1959), or the "ideal self" as used by Rogers (1951).

These terms refer to an individual's motivations, inclinations and dispositions. Rosenberg (1979) states that these inner elements represent "a reality unequivocally distinct from the self concept" (p. 7).

It is also important to distinguish the ego from the self concept. Jung (1969, 1971) makes this distinction by referring to the self as the center of the personality in the unconscious (potential identity) and the ego as the subjective point of reference for the conscious; which forms "the center of the field of conscious" (Jung, 1959, p. 3). It is the ego which "comprises the empirical personality" and is the "subject of all personal acts of conscious", according to Jung (1959, p. 3). Therefore, the self is part of the "total personality which, though present,

cannot be fully known" - the unconscious portion; whereas the ego is the picture of the conscious personality (Jung, 1959, p. 5). Jung (1959) concludes that the ego is "by definition, subordinate to the self and is related to it like a part to the whole" (p. 5). The ego is that portion of personality - a generic tie - which connects the conscious with the unconscious.

Chein (1944), Murphy (1966) and Allport (1955) also believe that the ego does not constitute the self concept. Chein (1944) states "the ego is a motivational-cognitive structure built up around the self" (p. 314) and the self is the "content of awareness" (p. 314). Therefore, the ego is not the self, but works to protect and enhance it (Chein, 1944, Murphy, 1966 and Allport, 1955).

The term self concept will be used to mean an "organized, fluid, but consistent conceptual pattern of perceptions of characteristics and relationships of the 'I' or the 'me', together with values attached to these concepts" (Rogers, 1951, p. 498). The self concept is therefore like a series of hypotheses which an individual holds about himself/herself, which may be true or false (Rogers, 1951). A person is therefore not fixed into structures but is self-structured, a "self-gestalt". Self-structure refers to "an organization of hypotheses for meeting life - an organization which has been relatively effective in satisfying the needs of the organism" (Rogers, 1951, p. 191).

The following are summaries of major assumptions which constitute the Rogerian frame of thought (Rogers, 1951):

1. Each individual is the centre of his/her phenomenal field or private world which is continually changing.
2. The phenomenal field is the totality of experience which may be consciously or unconsciously perceived. It includes everything that is experienced by a person.
3. This perceptual field is reality for an individual.
4. Each person reacts to the perceptual field as it is perceived and experienced. One must know how a person is perceiving the environment and what it means to him/her in order to predict a person's actions. Therefore, to understand human behaviour one must view it from the internal frame of reference of that individual.
5. Each individual has a basic tendency to strive, to grow, to maintain and to enhance the experiencing organism which is a forward motion.
6. The self concept is formed as a result "of interaction with the environment, and particularly as a result of evaluational interaction with others" (p. 498).
7. The self concept is an "organized, fluid, but consistent conceptual pattern of perceptions of characteristics and relationships of the 'I' or 'me', together with values attached to these concepts" (p. 498).
8. The self-concept is therefore like a series of hypotheses which an individual holds about himself/herself and which may be true or false.

9. Perception of self is selective, and the primary criteria for selection is whether the experience is consistent with the structure of the self or consistent with how one views himself/herself at the given situation.
10. The self is a conscious portion or potentially conscious portion of the phenomenal field. The self is defined by its content and this definition determines what additional experiences will be accepted as part of the self.

The self, therefore, is differentiated out of the individual's total experience and symbolized in his/her awareness as a consequence of the actualizing tendency, which is considered inherent and universal. The self is part of the phenomenal field because it develops from interactions with the environment and the self concept provides the person with a frame of reference for its action and determines what will be admitted into awareness (Rogers, 1951).

The content of the self concept derives from the individual's experience. The self is defined by its content and this definition determines what additional experiences will be accepted as part of the self, what behaviours will be engaged in, and how the person will adjust (Rogers, 1951, 1961).

Each individual has literally hundreds of ways of describing himself/herself as a result of experiencing, observing, and judging oneself. The self concept is the total of all these perceptions. This definition is not specific and would be almost useless, unless it is broken down into components.

→ Fitts (1971) divides self into two dimensions: the internal dimension of the self; and the external dimension of the self. The internal dimension of the self refers to how the individual perceives himself/herself. The external dimension refers to the roles, activities, and values of the individual (p. 20).

The internal dimensions of the self (an individual's internal frame of reference) is divided into three principle subselves of the self. "These are: self-as-object (Identity Self); self-as-doer (Behavioural Self); and self-as-observer and judge (Judging Self)" (Fitts, 1971, p. 14).

The most basic aspect of the self concept is the "identity self" - or the "Who Am I" feature. These are the labels and symbols assigned to the self by the individual to describe himself and establish his identity" (Fitts, 1971, p. 14). Examples of this self would be self statements such as: "I am Susan" or "I am a Canadian". These elements of identity continually expand with the growth of the person's abilities, activities and sources of identification. These elements tend to influence the way an individual perceives his/her private world - the way of responding to it, or interaction with it - and the observations and judgements which are made about himself/herself as the person functions (Fitts, 1971).

The behavioural self, or the self as doer, is the primary source of material for the identity self. The identity self is also a major influence on a person's behaviour. A person does not make any roles

part of his/her identity without incorporating them into their behaviour. Therefore, there is a continual interaction between the identity and behaviour self. For example: If I am asked to play cards and card player is not part of my identity, then I will probably decline to play cards (influence of identity upon behaviour). The opposite is also true in that behaviour equally influences identity. "In order to do something, one generally has to be something" (Fitts, 1971, p. 15). Thus, in order to play cards I have to be a card player and in order to be a card player I have to play cards. These subselves are therefore equally important and continually interacting and influencing the other.

The behavioural self is influenced by both internal and external reinforcement. On occasions, these reinforcements are congruent and at other times they may cause conflicts for an individual. For example, a young child annoying his mother may have positive internal consequences (this is perceived as fun) but negative external consequences, thus creating conflict (Fitts, 1971). As a result an individual learns to distinguish between behaviours that are desirable and undesirable, and which behaviours result in negative or positive consequences. A healthy attitude towards behaviour is when an individual accepts the responsibility and consequence of his/her behaviour. For example: "I do this and it is bad, therefore either I will not do it again or I will accept that I have chosen to do this undesirable thing" (Fitts, 1971, p. 17).

The third subself in the internal dimensions of the self is the "judging self". The judging self functions as "observer, standard setter, dreamer, comparer, and most of all evaluator. It also serves as mediator between the other two selves" (Fitts, 1971, p. 17). The judging self acting as an evaluating observer would look at the identity self and the behavioural self and say, "I am proud of you" or "This is bad". This evaluative tendency of the self is a primary component of self-perception, and it provides the material or substance for self esteem" (Fitts, 1971, p. 17).

The behavioural self, identity self and judging self are the three major subscales of the self concept. Their "dynamic interaction can lead to self-enhancement or self-debilitation" (Fitts, 1971, p. 20), thus providing the internal frame of reference or a psychological interior for the self concept - "a private world of emotions, attitudes, wishes, secrets" (Rosenberg, 1979, p. 22).

The second dimension of the self is the external frame of reference. This dimension includes numerous subselves, "depending upon the roles, activities, and values of the individuals" (Fitts, 1971, p. 21). The subselves that have the most applicability carry labels similar to the Physical Self - how a person perceives his/her physical body; Moral-Ethical - self-perceived feelings of moral worth and feelings towards religion; Personal Self - an individual's sense of personal worth; Family Self - an individual's perception as a family member; and Social Self - how a person perceives his/her relationships to others (Fitts, 1971,

1965). Other subselves of the external dimension might also encompass self dealing with a teacher, student self, father self, self as male or female. The external dimension therefore is "an overt, visible, palpable self which includes, physical characteristics, social identity elements, concrete behavior, and other related components" (Rosenberg, 1979, p. 22).

In order to clarify the difference between the dimensions and to show the dynamics of the total self, an analogy of Fitts (1971) will be used. Fitts (1971, p. 21) utilized a cube to represent the total self. The cube is then sliced into horizontal and vertical tiers. The horizontal tiers represent the three subdivisions of the internal dimensions of the self concept and the vertical tiers, the numerous subselves of the external dimension. Each of these vertical layers (external dimension) cuts through, or "contains elements of the horizontal layers" which are the identity, behavioural and judging self (internal dimension). This illustration shows that there is a total integration and continual interaction between and within all subselves of both dimensions. "The degree of internal consistency between and within these subselves should be related to the effectiveness with which the total self functions" (Fitts, 1971, p. 21).

The self concept is many elements or subselves, relating and interacting between and within a whole. It is basically a cognitive structure existing on different planes and includes all these planes. Thus, if a measurement of self concept can identify what a person sees when looking at himself/herself (including social identity elements, dispositions,

and physical characteristics); whether the person has favourable or unfavourable opinions about himself/herself and the degree of favourability or unfavourability of these feelings; "whether the individual is constantly conscious of what he is saying or doing" or whether the person is more involved in tasks or other objects; whether the elements of the self picture are consistent or contradictory; whether the "self attitude varies from day to day or moment to moment, or whether, on the contrary, it is firm, stable, rocklike structure; whether the picture of the self is firm, definite or vague, lazy; whether the "self picture is correct or false; and whether its components are susceptible of object on confirmation", then one "would have a good, if still incomplete, description of the individual's self-concept" (Rosenberg, 1971, p. 24).

From these latter ideologies of self viewed in a phenomenological frame and with a multidimensional frame of reference, various contents of the self concept were selected in order to formulate a measure of self concept. These elements of self concept, when combined as a self report scale, appear to adequately result in a description of a person's concept; a self evaluation of the self concept.

Variables of the Self Concept

The self concept structure can be conceptualized in terms of an internal dimension (psychological interior) and an external dimension (social external) as described earlier. Now it is important to look at the various aspects of the self concept that are measurable and would give an adequate picture of the self.

Twelve elements of self concept have been selected for these measurements. Five of these variables comprise the internal dimension and seven elements will comprise the external dimension of the self. The labels given to the internal dimension are: Self Esteem, Purpose-in-Life, Empathy, Altruism, and Past/Present/Future time orientation. The seven subselves of the external dimension are: the Family, Social, Public, Occupational, Masculine/Feminine, Body, and Religious Self. These subselves are similar to those of the Tennessee Self Concept Scale (TSCS) (Fitts, 1965).

Each of the dimensions will be discussed individually.

Internal Dimension

The internal dimension of the self as mentioned earlier reflects the self in terms of self-as-object; self-as-doer; and self-as-observer and judge (Fitts et al., 1971).

1. Self Esteem

Self-esteem has been considered to be one of the primary components of self-perception (Fitts et al., 1971; Coopersmith, 1967; Rogers, 1951, 1961; and Maslow, 1959). Maslow (1959) places self esteem in a position of central importance in his hierarchy of needs. Maslow believes that "a positive level of self-esteem is the final prerequisite for self-actualization; once self-esteem is achieved, the individual is free to concentrate on actualizing his potentialities" (cited in Fitts et al., 1971, p. 18).

Self-esteem is a conscious evaluation of oneself. It is the level of positive feelings and attitudes an individual has about himself/herself, which constitutes one part of one's self concept. Self-esteem influences a person's self-disclosure, actions and interpersonal behaviour (Shapiro, 1968, and Doyle, 1969).

High self-esteem does not mean that an individual would be conceited or feel superior to others, but would have self-respect and would recognize his/her strengths and weaknesses (Rosenberg, 1979). A person in this category would tend to like himself/herself, feel that he/she is a person of worth and value, have confidence and respect for himself/herself, and would act accordingly. This person would also tend to have healthier interpersonal relationships than one who has low self-esteem.

A low self-esteem person is usually depressed, unhappy, has little confidence in oneself, and often feels anxious. He/she would also see himself/herself as undesirable, worthless, and guilt-ridden.

Therefore, a person with high self-esteem would feel equal to others, whereas a person with low self-esteem would feel inferior.

2. Purpose in Life

In order for an individual to guide his/her conduct in terms of what he/she "ought" to be or "ought" to become, one must experience a purpose or meaning in life. If a person fails to discover a meaning and purpose in life, the person then would

experience an "existential vacuum" (Frankl, 1963, 1973). Frankl's (1963, 1973) concept of "existential vacuum" is a state of inner emptiness experienced by one who fails to find a meaning and purpose in his/her life.

3. Empathy

Empathy is a special kind of "observation", "experiencing" and "communication" (Poland, 1974). It is the understanding of another person from his/her point of view or perceptual field. Empathy consists of the ability to recognize, sense and to understand the feelings that another person has associated with his/her behavioural and verbal expressions, and to accurately communicate this understanding (Carkhuff, 1971). Hogan (1969) defines the concept of empathy as the "intellectual or imaginative apprehension of another's condition or state of mind and is central for understanding a broad range of social phenomena including in particular moral development" (p. 307). Empathy "refers to the act of constructing for oneself another person's mental state; the verisimilitude of the resulting construct is not a necessary part of the concept's meaning" (Hogan, 1969, p. 308). Empathy is also considered to be a basic process in social interaction (Cottrell and Dymond, 1949).

The synthesis of the above information suggests that empathy is an important element for interpersonal relationships. An empathic person would perceive himself/herself to have the ability to adopt the moral point of view (within the realm of one's culture)

and also behave accordingly. The term "moral point of view" is used to signify that a person considers the implications of his/her own actions for the welfare of others. A person's behaviour in this frame of reference would be influenced by the norms, folkways, rules and expectations that would apply in a given social content (Hogan, 1969 and 1973, Greif and Hogan, 1969, and Wright, 1971). Thus, an empathic disposition "heightens one's sensitivity to the expectations of others and consequently engenders social compliance, an important aspect of moral behaviour" (Greif and Hogan, 1973, p. 280).

A person who perceives himself/herself to have a low empathic ability would probably have a low moral conduct and would probably be hindered in the development of a healthy relationship with another person.

4. Altruism

Wrightsman (1964, p. 744) defines altruism as the "extent of unselfishness, sincere sympathy, and concern for others". A more general definition is the "principle or practice of seeking the welfare of others" (Sawyer, 1966, p. 407).

Maslow (1958, 1962) in his hierarchy of needs believes once the need for love is satisfied, a positive, constructive behaviour will emerge. When a person is no longer preoccupied with attempting to satisfy the needs for love and affection, the person will then have concern for the rights, needs or welfare of others. The

characteristics of altruism will then be incorporated into a person's conception of self. A person's perceived behaviour and attitude towards others will, therefore, reflect tendencies of altruism.

A person that perceives himself/herself to be an altruistic individual, like an empathic person, would therefore have the ability to perceive himself/herself as having a moral point of view and thus act accordingly. This person would also perceive himself/herself as having a willingness to help others.

The concept of altruism is used not as a socio-psychological trait, but as part of a person's perceived self, the helping me.

5. Time Orientation

The last element of the internal dimension is the time orientation variable "directedness" (Allport, 1955, 1961). Allport (1961) believes that healthy (mature) personalities are forward-looking (future orientation), and are motivated by long-range goals. He termed this "unifying directedness". This time orientation guides all aspects of a person toward a goal or a series of goals, giving a person a meaning in life in relationship to time or reasons for existence. If this forward motion diminishes, then one could experience personality problems. Thus, according to Allport (1961), it appears to be impossible to have a mature personality without these aspirations and this direction towards the future.

In order to obtain a fuller understanding of a person's self concept in the psychological interior dimension, it is important to comprehend a person's time orientation.

Time orientation to the past signifies that a person may perceive a sense of identity with yesterday. The future in this case may have no meaning for the person: it is dark and empty, and the present may be viewed as just being another day. The person identifies with the past because the present or the future may really have no significant meaning. For a present time oriented person, the "today", "here and now" may have the most significant meaning. The future time oriented person may identify with his/her meaning of existence in the future, or "tomorrow".

Not all people are distinctly time oriented within a time period as described. Some may find meaning and identity in two different time frames or in all three.

These five internal elements, however, do not interact alone in creating a person's self concept, but are interacting freely yet cohesively with external aspects of the phenomenal world (Fitts et al., 1971).

External Dimension

The most applicable subselves of the external dimension are the Physical, Moral-Ethical, Personal, Family, and Social Self that are found in the Tennessee Self Concept Scale (TSCS) (Fitts, 1965). Fitts et al. (1971) believe that these subselves are required in order to obtain a complete understanding or measurement of self concept.

Labels similar to those utilized by Fitts are adopted for this study. Each one will be individually discussed.

1. Family Self

The experience of "being in and of a family" for an individual is essential for a "vital sense of identity and fulfills the needs for security and intimacy" (Jourard, 1974, p. 209).

The family self reflects "one's feelings of adequacy, worth, and value as a family member. It refers to the individual's perception of self in reference to his closest and most immediate circle of associates (Fitts, 1965, p. 3). By definition, this does not need to include a person's relatives such as spouse, parents or grandparents. It may refer to any person(s) that the individual may conceptualize as being his/her family.

2. Social Self

The second subself is the social self, or how a person perceives himself/herself in relationship to others. One must perceive himself/herself in relation to others because "no man is an island". A person is continually interacting with others, thereby receiving cues of how others perceive him/her. The social self reflects how the self is "perceived in relationship to others" category but pertains to others in a more general way. It reflects the person's sense of adequacy and worth in his/her social interaction with other people in general" (Fitts, 1965, p. 3).

3. Public Self

Another part of the self concept is the public self or the reputation one wants; the self that a person portrays to others (Jourard, 1974).

An individual has this capacity to select actions and speech which will influence the experience others will have of him/her. The public self is also used as a means to an end, being continuously evaluated by others' feedback (Jourard, 1974, and Rosenberg, 1979).

The public self is not to be confused with the ideal self or the desired self. The ideal self is the content of self which the individual would most like to be, or the way a person feels he/she ought to be.

Further, the public self is not the "real" self, for the public self is completely dependent on the feedback of others. It is like a monitor. A person constructs the public self from the perceived reactions of others, for as Jourard, 1974 states:

"The most important reason for constructing public selves of various sorts is expedience. It is only when others believe certain things to be true of you that they will like you, marry you, give you jobs, refrain from imprisoning you, appoint you to public office, buy things at your store, or consult you professionally. If for any reason other people believe undesirable things to be true of you, they will ostracize you, jail you, and so on." (p. 162)

The real self is the awareness or perception the person has of himself/herself and it is not the image that a person may try to portray in order to be accepted or approved of (Public Self).

4. Occupational Self

The occupational self reflects how the self in general is perceived in daily situations of life; his/her perceived value, adequacy, and worth as a contributing member of his/her environment.

The occupational self reflects the self from a contributing frame of reference. The person's perceived experience as a student, worker, housewife, etc. reflects his/her sense of personal worth.

5. Masculine/Feminine Self

The masculine/feminine self is not a reflection of whether a person has masculine or feminine tendencies, but if a person accepts and adopts the stereotype roles prescribed by society. The self reflects how the person perceives himself/herself and sense of adequacy and worth in relationship with his/her sex roles and gender.

Society has dictated what the sex roles or stereotypes for a male or female ought to be. Each person is required to come to terms with them. If a person finds that his/her experience is restricted within a sex role, he/she may adopt patterns of the opposite sex and can still maintain his/her sense of worth and adequacy. For others this may not occur, causing a person to lose his/her identity within his/her sex role.

6. Body Self

The body self helps to form the total perception of the self. The body separates a person from the rest of the world while being the instrument with which one interacts with the world. The body self is part of the "material me" and the effectiveness of its interaction depends partly on the favourability of self-perception and the extent to which a person separates it from his/her environment (Stone and Farberman, 1970). The body self reflects how a person perceives his/her physical appearance; it can be either positively or negatively viewed.

7. Religious Self

The last subself of the external dimension is the religious self. The religious element of the self reflects how a person perceives his/her satisfaction or dissatisfaction with religion. It also reflects a person's perceived relationship with God.

According to Allport (1955), religion can play a role of a defensive function in reducing anxiety, doubt and despair, but it also provides "the forward intentions that enables him at each stage of his becoming to relate himself meaningfully to the totality of Being" (p. 96). For this reason he believes that religion should not be dismissed from personality theory. Religious sects, no matter what faith, can aid in a person's psychological growth and can affect a person/s self identity (Rosenberg, 1979, Allport, 1955, and May, 1969).

Therefore, it is important to include a religious self within a self concept measurement. A person is seeking for ever something more dependable than himself/herself or answers to questions about "creation" or existence. According to Allport (1955), religion gives these answers and helps in creating the feeling of the "Totality of Being".

In conclusion, the subselves described in the external dimension appear to represent the most general external influence on self concept. These elements are not inclusive; others such as self as teacher or self when drunk could also be included, but these would probably not relate to the general population. Only the subselves that are considered to be relevant to and common to most people were used. The subselves that were not included in this research are numerous. It is not that the private self, the financial self, knowing self and others are considered to be unimportant, but are believed to be reflected in or may not be as critical as the other subselves mentioned in obtaining an adequate picture of the self.

As discussed to some extent, it is apparent that there are numerous ways of describing and talking about self concept and its origin. It seems the most comprehensive view of self concept is found within the phenomenological frame of reference. Using the premise that the content of the self concept is derived from the individual's total experience; therefore, if self concept is to be studied it can not be done by viewing the individual in isolation or in a vacuum apart from his/her environment. The study of self concept must take into account how an individual

evaluates himself/herself as part of the environment (perceived value and worth), perceived approval or disapproval from others within the person's environment, and the perceived satisfaction and dissatisfaction of oneself.

METHOD

Plan of the Research

The plan of the research included four major aspects: item development; and three psychometric studies.

Item Development

Two approaches were used for item development:

1. Development of items for eight scales: Family Self; Social Self; Religious Self; Occupational Self; Masculine/Feminine Self; Body Self; Public Self; and Past/Present/Future Orientation Scales.
2. Revision of items for five scales: Lie Scale (Eysenck and Eysenck, 1968); Empathy Scale (Hogan, 1969); Altruism Scale (Wrightsman, 1964); Rosenberg Self Esteem (New York State Self Esteem Scale) (Rosenberg, 1979); and the Purpose in Life Scale (Crumbaugh and Maholick, 1969).

Study One

Study one was the process of item analysis prior to reliability and validity estimates.

Study Two

Study two was the assessment of reliability and validity measures.

Study Three

Study three was the procedures and measures for cross-validation.

I. Participants

Two groups of participants were used in this study. The sample does not include oversea students. Since this study is an exploratory investigation, detailed demographic differences between participants were not considered. The nature of this preliminary study is to look at the reliability of the measure of self concept in general, and not the differences or influences of participants' characteristics.

The original sample size consisted of 325 university and college students at all levels. Within this group 62% were female and 85% of the total participants fell between the range of 19 to 40 years of age, with a mean age of 21 years. This group was used for item analysis ($\underline{n} = 284$) and cross-validation ($\underline{n} = 41$).

The second group consisted of 96 university and college students at all levels. This group was used for retest reliability and validity measures. Within this group 73% were females, age range was 18 to 39 years, and mean age was 21 years.

II. Materials and Measures

The instrument consisted of 13 subscales. Twelve subscales were elements of self concept and one was a Lie Scale, or "Faking Good" (Eysenck and Eysenck, 1968). The titles and definitions are listed in Appendix A.

The Lie Scale (Eysenck and Eysenck, 1968), Empathy Scale (Hogan, 1969), Altruism Scale (Wrightsman, 1964), Rosenberg Self-Esteem (New York State Self Esteem Scale) (Rosenberg, 1969), and the Purpose in Life Scale (Crumbaugh and Maholick, 1969) were incorporated into this measurement with minor changes made to the originals. Revisions to the five original scales were required in order to develop a consistent format and scoring system.

A six point, numerical, self-rating scale was used for rating each item. Each anchor was identified by a number ranging from one (1) (low agreement) to six (6) (high agreement). The neutral response was eliminated, forcing a person to agree or disagree with an item. According to Nunnally (1970), this guards against any individual having a tendency to frequently mark the neutral step, whereby preventing the possibility of a response style.

The five revised scales are individually discussed below, and are shown in Appendix B. The remainder of the scales were developed by the author. They included the Family Self, Social Self, Religious Self, Occupational Self, Masculine/Feminine Self, Body Self, Public Self, and Past/Present/Future Orientation Scales. Development of these eight scales is also discussed in the latter portion of this section.

III. Item Development

A. Scale Revision

1. Lie Scale

Both Form A and B of the Lie Scale or "Faking Good" Scale from the Eysenck Personality Inventory (Eysenck and Eysenck, 1968) are used for a total of eighteen times.

Edwards (1957) defines "faking good" as the tendency "to create a more favourable impression or, in general, the tendency to give socially desirable responses to items in self description", and "faking bad" as the tendency "to create a more unfavourable impression or, in general, the tendency to give socially undesirable responses to items in self-description" (pp. 53-54). It is believed that deliberate deception could be situation specific (Anastasi, 1976, and Cronbach, 1970). Thus, a person can either be attempting to defend himself/herself against recognizable shortcomings. An example of this may occur when a person feels motivated to portray a false-front or choose responses that could create a favourable impression. It is highly probable that a person who is applying for a job (police officer) would attempt to "fake good", whereas someone trying to disqualify for mandatory conscription would attempt to "fake bad" (Anastasi, 1976, and Cronbach, 1970). Under similar circumstances a high or low score on this scale may indicate that faking has occurred and that the person may have falsified responses.

On the other hand, a high or low score could indicate that a person is unconsciously defending himself/herself against or reinforcing shortcomings and is seeking social approval or disapproval. If a person believes he/she is worthless or bad, then he/she will unconsciously portray that image, thus creating an undesirable self. This person would be seeking social disapproval, therefore reinforcing his/her beliefs. The opposite could occur in a contrasting conception of the self.

Therefore, for the purpose of this research, persons who do score high on the "faking" will not be eliminated.

Wylie (1974) states:

"If subjects' self-reports are socially desirable, this high degree of socially desirable self-reporting does not ipso facto invalidate the report as an indicant of his phenomenal self" (p. 57).

The Lie Scale or "Faking Good" Scale (Eysenck and Eysenck, 1968) was used to determine if a person is "faking good" or is giving socially desirable responses (p. 20). According to Eysenck and Eysenck (1968, p. 20), a score of ten (10) or above is considered to show that "faking good" may have occurred.

The original requires a yes/no response and is written in second person plural. For the purpose of this measurement, the questions were worded in the first person singular and a six point self-rating scale was used.

2. Empathy Scale

The Empathy Scale (Hogan, 1969) consists of 64 items. Thirty-one items are selected from the California Psychological Inventory (CPI), twenty-four items were chosen from the Minnesota Multiphasic Personality Inventory (MMPI), and eight items from various experimental testing forms used in the IPAR studies at Berkeley. Hogan (1969) reported a test-retest reliability coefficient of .84 over a two month time interval and an internal consistency as high as .71 which was estimated using the KR-21 formula. In the original sample ($n = 211$) the average correlation was .62 between the scale and the California Q-Sort derived empathy ratings, and with an independent sample of medical school applicants this value was .39. In the original sample the scale also correlated .58 with rated social acuity. Social acuity was defined as "the ability to respond intuitively and empathically to others and to group situations" (Hogan, 1969, p. 310). An average correlation of .69 was found for a sample of five groups of subjects that were rated by the assessment staff of IPAR and in an independent sample of medical applicants, this value was .42.

For the Empathy Scale (Hogan, 1969), the item worded "Only a fool would try to change our American way of life" was to be changed to "Only a fool would try to change our North American way of life", because the word American is usually associated just with the United States. Also, instead of True/False responses as per the original, the six point rating scale will be used.

3. Altruism Scale

The Altruism Scale is one of the six subscales found in the Measurement of Philosophies of Human Nature (PHN) (Wrightsman, 1964). The scale consists of fourteen items; seven worded positively, and seven worded negatively. The statistical properties for the subscale altruism will be reported (see Wrightsman, 1964 for further information on the entire six subscales).

The split-half reliability coefficients for the altruism subscale ranged from $\underline{r} = .60$ to $\underline{r} = .91$. The sample consisted of four different groups ($\underline{n} = 50$); male and female graduates and undergraduates. The test-retest reliability coefficients using a group of freshmen females, with a three month interval, was .83. Summing the subscales (Wrightsman, 1964) Trustworthiness, Strength of Will, Altruism, and Independence, a reliability score of .10 was calculated for general favourability towards

human nature. Pearson intercorrelations for the altruism subscale with the other subscales of the PHN ranged from $\underline{r} = .69$ to $\underline{r} = .10$. The highest correlations were among Trustworthiness, Altruism, and Independence, which Wrightsman (1964, p. 747) indicates is a common "general belief that man is good or evil, which reflects itself to some degree in the performance on each subscale." Substantial correlations between the PHN (favourableness towards human nature) and other measures of attitudes in the same conceptual areas were used for determining its validity (Robinson and Shaver, 1973). Results found were that the Agger, Goldstein, and Pecul's Political Cynicism Scale correlation with the PHN was $\underline{r} = .61$; Rosenberg's Faith-in-People Scale was $\underline{r} = .77$; and Christie's Machiavellianism Scale was $\underline{r} = .68$.

The Wrightsman's Altruism Scale was reworded from third person plural (how a person views others) to first person singular (how a person views himself/herself). The content of each statement remained unchanged.

4. Self Esteem

For the purpose of measuring self esteem, the New York State Self Esteem Scale or the Rosenberg Self Esteem Scale (RSE) (Rosenberg, 1979) was used. The RSE is an undimensional scale (Hensley and Roberts, 1976) consisting of ten items; five worded positively and five worded negatively. Test-

retest reliability with a two week interval was $\underline{r} = .85$ (Silver and Tippett, 1965) using a small sample of college students. Rosenberg (1965 and 1979) provides ample satisfactory evidence for convergent, discriminant and predictive validity for the RSE.

The Rosenberg Self Esteem Scale (Rosenberg, 1979) rating scale was changed from a four point to a six point rating scale.

5. Purpose-in-Life

The Purpose-in-Life (PIL) Test (Crumbaugh and Maholick, 1969) was also used to determine to what degree a "person experiences a sense of meaning and purpose in life" (Crumbaugh, 1968). The test consisted of twenty items rated from one (1) (low purpose) to seven (7) (high purpose).

For two separate studies split-half reliabilities have been demonstrated to be .90 and .92 for this scale (Braun, cited in Buros, 1972, p. 314). The validity studies presented by the author in the manual are supportive for both the theoretical underpinnings and the empirical functioning of the PIL (Domino, cited in Buros, 1972, p. 314).

Only part A of the Purpose-in-Life was used. Part B of the PIL was not used because the format of the items is not suitable nor required for this research.

For the purpose of this work, the self statements had been completed by one of the extreme positive or negative responses and a six point self-rating scale was employed. This will eliminate the neutral response.

B. Developed Scales

The Family Self, Social Self, Religious Self, Occupational Self, Masculine/Feminine Self, Body Self, Past/Present/Future Time Orientation and Public Self subscales were developed by the author. The definition of the other four subscales was within the framework of the corresponding literature reviewed in the Introduction. All initial items were written by the author with the goal that they should reflect a relative degree of the appropriate construct for each scale's meaning or definition. No less than 32 initial items were written for each scale. This allowed for rejection of approximately ten items from the initial item pool during judges' ratings.

Prior to the first administration of the questionnaire, five faculty members of the Lakehead University Psychology Department and four second year Psychology Graduate Students from Lakehead University were asked to rate each item as to its face validity or if the item appeared to reflect the scale's definition or meaning. The criterion for rating was a comparison of each statement to its corresponding definition or meaning of the scale. A seven point rating scale was used: one (1) meaning low content validity, to seven (7) meaning high content validity. A copy of the original items and instruction to the judges is found in Appendix C.

Only the eight scales developed by the author were rated.

Only items that received a rating of five (5) or above by seven out of nine judges were incorporated into the measurement. A rating of five (5) or above for an item was interpreted as meaning that the item did reflect the scale's meaning. Inter-judge reliability was not performed on the judges' responses because of the high agreement found amongst judges.

IV. Physical Characteristics

Items from the 13 scales were randomly ordered in a larger test such that subjects could not identify the relevant scales. Appendix D shows the questionnaire used in study one, and Appendix E for study two (revised questionnaire). Instructions and score sheets used in both studies are found in Appendix F.

PROCEDURE

Administration of Instrument

All data was collected by group administration on three different occasions.

Study One

First Administration

Participants in the first study were given all items of the instrument to complete. A sample of forty-one (41) were randomly removed at this time and were used later for cross-validation of the instrument. Item analysis was performed on the remaining data.

Study Two

Second Administration

Participants in the second study completed the revised questionnaire after item analysis. Data collected from this administration was used to calculate test-retest reliability and validity scores.

After a three month time interval the revised questionnaire was readministered to twenty-four participants who attended the second administration. This was done for the purpose of retest reliability.

Study One

Item Analysis

Item analysis was conducted to evaluate the corrected item-total correlation using the Statistical Package for the Social Science-Update (SPSS-Update) program (Hull and Nie, 1979) for each of the developed scales and for the Empathy scale. The corrected item-total correlation

(corrected for inflation due to the inclusion of the item in the total correlation) was used to determine the degree to which the specific item correlated to the relevant total scale score.

Since this was only an exploratory study, the best 16 items that resulted in the highest correlations within each scale was retained; no matter what the correlations were. ^{four} Eight items from the positive and negative responses (giving the total of 16 items in each scale) were selected based upon the correlations. These items were used to make up the revised questionnaire.

Item analysis was computed on the developed scales; Family, Social, Religious, Occupational, Masculine/Feminine, and Public Self scales. In the Past/Present/Future Orientation Scale, the best six items in each time construct were retained. Therefore, the best 18 items made up this scale.

The length of the Empathy Scale (Hogan, 1969) made it necessary to reduce the scale to 20 items (originally 64 items) that contributed the highest variance, and these were retained for the revised questionnaire.

Study Two

Reliability

Reliability estimates were computed using the Statistical Package for the Social Sciences-Update (SPSS-Update) (Hull and Nie, 1979). Test reliability or the consistency of scores yielded by the test was determined for the revised questionnaire by two methods.

1. Test-Retest Reliability

The first method used to obtain reliability coefficients was test-retest or repeated testing of the measurement on the same sample. The reliability estimates of the revised questionnaire were based on test-retest with twenty-four community college students over a three month period. A criterion correlation in the order of .80 ($r \approx .80$) was considered as acceptable for the test's retest reliability (Nunnally, 1970).

2. Internal Consistency

The second method used was internal consistency which was computed by Cronbach's coefficient-alpha or the "maximum likelihood estimate of the reliability coefficient of the parallel model is assumed to be true" (Hull and Nie, 1979, p. 125).

Internal consistency for each scale on the revised questionnaire was computed and judged according to Guilford's (1954) and Nunnally's (1967) criteria of acceptable homogeneity estimates (.50 - absolute minimum, .60 - desired minimum). Internal consistency was estimated on a sample of ninety-six individuals.

Validity

1. Construct Validity

Construct validity is estimated through a series of activities which attempt to define some construct. Construct validation involves assembling evidence about what a "test really means" (Kaplan and Saccuzzo, 1982, p. 130), or deals

with the issue of the concepts that "may properly be used to interpret the test performance" (Cronbach, 1960, p. 104). Such concepts are usually referred to as constructs, and attempts to validate constructs can be determined by relating test scores to other similar or different measurements (convergent and discriminant evidence for validation).

In this study, construct validity estimates were determined by correlating the revised questionnaire with other personality measures and by a factor analytic study.

2. Convergent and Discriminant Validation

Using the Statistical Package for Social Sciences-Update (SSPS-Update) (Hull and Nie, 1979), correlations between the revised questionnaire and the other measurements were performed. The Tennessee Self Concept Scale (TSCS) (Fitts, 1965) and the Sixteen Personality Factor Questionnaire (16PF) (Cattell and Eber, 1961 and 1962) were used to estimate the value for construct validity. Each scale of the TSCS and 16PF was correlated with each scale of the revised questionnaire.

It was predicted that there would be a significant correlation between similar scales on the TSCS counselling form and the revised questionnaire in this study. A brief description of the TSCS subscales is contained in Table 2. Only the counselling form subscales were considered for the predictions. However, both the counselling and research form was scored and correlated with the revised questionnaire. This was completed in order to determine whether other meaningful correlations would result.

Predictions for correlations were as follows:

<u>Revised Questionnaire</u>	<u>TSCS Subscales</u>
1. Family Self	Family Self
2. Social Self	Social Self, Family Self
3. Religious Self	Moral-Ethical Self
4. Occupational Self	Social Self
5. Masculine/Feminine Self	Self satisfaction Physical Self
6. Body Self	Physical Self
7. Past/Present/Future	None
8. Public Self	Self satisfaction Self esteem
9. Empathy	Moral-Ethical Self
10. Self Esteem	Self esteem and self satisfaction
11. Altruism	Moral-Ethical Self
12. Purpose in Life	None
13. Lie Scale	Self Criticism Score

The use of the 16PF as the second criterion measure in this study was viewed as a method to enhance the data being sought. The 16PF is not a measurement of self concept as measured by the TSCS, but can provide useful information pertaining to personality characteristics associated with components of one's self concept. The 16PF questionnaire provides measures on sixteen (16) traits. The trait names and adjectives

assigned to the scale are presented in Table 3. It was predicted that certain personality traits as defined by the 16PF would correlate either positively or negatively with scales of the revised questionnaire, therefore providing further meaningful information. The following predictions of positive correlations were made:

<u>Revised Questionnaire Scales</u>	<u>16PF Factors</u>
1. Family Self	I, O
2. Social Self	A, H, Q ₂ Q ₃
3. Religious Self	C, G
4. Occupational Self	F
5. Masculine/Feminine Self	None
6. Body Self	None
7. Past/Present/Future	None
8. Public Self	F, M
9. Empathy	C, I, Q _{III}
10. Self Esteem	Q ₃
11. Altruism	C, I, Q _{III}
12. Purpose in Life	None
13. Lie Scale	None

By the use of the TSCS and 16PF, further information pertaining to the meaning of the revised questionnaire was obtained. Each time a relationship or non-relationship was demonstrated, additional meaning was attached to the revised questionnaire, therefore lending further support or non-support to this study.

3. Factor Analysis

Factor analysis was another approach used to further explore the construct validity of the revised questionnaire.

Initially, using the Statistical Package for the Social Science (Nie et al., 1975), principle axis factor analysis with iteration: PA2 and orthogonal rotation by the Varimax method was computed for each of the 13 scales. The number of factors extracted equalled the number of items in each scale. Nunnally (1978) recommends that it is sensible to initially "overfactor". Therefore, it was decided to extract the number of factors equalling the number of variables (scale items). Using this approach it was predicted that the stronger factors and items contributing the greater proportion of variance within the factor would be more easily identified.

Nunnally (1978) makes reference to the observation that both oblique and orthogonal rotations tend to essentially lead to similar conclusions pertaining to the number and kinds of factors inherent in a particular matrix of correlations.

However, according to Nunnally (1978), Varimax (orthogonal) rotations tend to be more acceptable as the method used. Rather than maximize the sum of variances of squared loadings in rows in the factor matrix as done by the Quartimax (orthogonal) method, the Varimax method "maximized the sum of variances of squared loadings in the columns of the factor matrix" (Nunnally, 1978, p. 384). The Varimax method is therefore applied to the squared loadings rather than to the loadings themselves (Nunnally, 1978). This approach seems to be more beneficial in this study, where exploratory analysis is the primary focus.

Based on the initial factor analysis, principle axis factor analysis with iteration; PA2 and orthogonal rotation by Varimax methods were once again computed. Factors were chosen according to the number of factors with eigenvalues of 1:00 or greater obtained from the initial factor analysis.

Edwards (1970) explains that it is common practice to rotate factors with eigenvalues of 1:00 and greater. In some instances it is also acceptable to include one or two factors with eigenvalues slightly less than 1:00 in a rotation, for the purpose of clarifying the factorial structure. It was decided that if any scale resulted in only one eigenvalue greater than 1:00, two factors would be extracted.

Study Three

Cross Validation

The validity coefficients for cross validation were calculated on a sample of forty-one (41) college and university students. The sample was removed from the first administration and compared to the scores obtained from the second administration. Items that were eliminated through item analysis were also disregarded in this study.

Internal consistency and factor analysis as described above for study two were also performed on this group of participants' scores.

RESULTS

Study One

Item Analysis

Table 4 illustrates the means, variances and standard deviations for each developed scale prior to item analysis. Table 5 shows the corrected item-total correlation (correcting for the contained item) for the eight scales. Only items used in the second study are shown. Only the best 20 items on the Empathy scale were retained for the second study; therefore, the results of this study are also included in Tables 4 and 5.

After item selection the total questionnaire was reduced from 365 items (see Appendix D) to 212 items (see Appendix E).

Initial item analysis revealed scales that had weak corrected item-total correlations. Many of the items contributed little to the total scale score. Corrected item-total correlations ranged from $r = -0.43$ to $r = 0.43$, suggesting a weakness among various items in relation to the total scale score. Since negatively stated items were not changed to positive scores, it was predicted that some items would correlate negatively to the total scale scores.

Study Two

Second Administration (Revised Questionnaire)

Reliability

The reliability for the revised questionnaire was computed by Cronbach's coefficient alpha and by the test-retest method.

a) Test-Retest Reliability

The reliability estimates were based on test-retest with twenty-four (24) college students over a three month period. The results (see Table 7) revealed significant reliability coefficients with only one scale (Self Esteem) not significant at $P \leq .01$. The reliability coefficients ranged from $r = 0.83$ (Masculine/Feminine Scale) to $r = 0.31$ (Self Esteem). Only the Masculine/Feminine Scale met the acceptable criterion of $r \approx 0.80$.

b) Internal Consistency

Coefficient alpha was estimated with 96 university and college students. It ranged from 0.66 (Empathy Scale) to 0.09 (Social Self Scale). Overall, results (see Table 6) were poor, with only two scales (Past/Present/Future and Empathy Scale) meeting the criteria of acceptable homogeneity estimates (.50 - absolute minimum; .60 - desired minimum). This may suggest that the other scales may not be homogenous.

Corrected item-total correlations for each item are also shown in Table 6.

Validity

Construct Validity

a) Convergent and Discriminant Validation

Using the Pearson's Product Moment correlation method, with a sample of thirty-five (35) college and university

students, significant correlations were found between the revised questionnaire and subscales of the TSCS (see Table 8 and Table 8A) and with Factors of the 16PF (see Table 9 and Table 9A).

Using only the counselling form of the TSCS, it was predicted that similar TSCS subscales would positively correlate with those of the revised questionnaire. Results (see Table 10) revealed that most of the predictions made occurred. However, it was predicted that the TSCS Social Self Scale would positively correlate with the Social Self and Occupational Self Scales of the revised questionnaire. The results estimated did not show a correlation between these scales. Other predictions that failed were the scales Past/Present/Future, Purpose in Life, and Altruism. In most cases the scales met their criterion with the addition of other positive correlations that were not predicted. This suggests that the revised questionnaire seems to be measuring similar constructs as measured by the TSCS.

Although only the counselling form of the TSCS was considered in the validation of test, all subscales of the TSCS counselling and research form are shown in Tables 8 and 8A. These scores were estimated in order to further investigate the meaningfulness of the revised questionnaire.

The results in Table 11 illustrate that only a few predictions were fulfilled when the revised questionnaire's scales were correlated with the Factors of the 16PF test. However, some interesting results occurred suggesting various personality traits as defined by the 16PF, being either positively or negatively correlated with the self concept constructs.

b) Factor Analysis for Individual Scales

Eigenvalues for factors and communality for each item of each scale are in Tables 12 to 24. The initial Varimax rotated matrix for each scale is shown in Tables 25 to 37.

The analysis revealed ambiguous findings for some individual scales. By definition, if each measure was "pure" all items should have significantly loaded on one factor.

Principle axis factor analysis (with iteration, PA:2 and orthogonal rotation by the Varimax method) was computed for a second time for each scale. The number of factors extracted corresponded to the eigenvalues not less than 1:00 as cited in Tables 12 to 24. The Self Esteem Scale (Table 21) had only one eigenvalue greater than 1:00. It was decided to extract two factors for the self esteem scale for the purpose of clarifying the factorial structure.

A review of the factor loadings for each scale revealed some interesting findings (Tables 38 to 50). Only items that had a loading of .30 or greater on one factor were used to determine if any meaningful scale interpretations resulted. With the exception of one or two items within the Social Self, Religious Self, Public Self, Self Esteem and Family Self scales, a clear distinction between the positive and negative stated items were identified. This suggests that these scales may be identifying both the positive and negative aspects of the self concept construct as defined by each scale.

The Masculine/Feminine Scale yielded four meaningful factors: 1) acceptance of one's gender (positive aspect of the scale); 2) non acceptance of one's gender (negative element); 3) a desire or non-desire to change one's gender; and 4) a perceived state of helplessness as a result of one's gender. The Altruism Scale showed factors reflecting a person's attitude towards assisting others, one's attitude about oneself, and patterns of behaviour within the person's environment. The acceptance of oneself, perceived worth of an individual's daily life, and the perceived desire to change one's lifestyle resulted from the Occupational Self Scale. On the Past/Present/Future Scale, item loading (with the exception of one item)

fell within the corresponding factors. Therefore, the three elements were easily identified. The Empathy Scale showed factors that reflected an individual's perceived belief pertaining to one's behaviour, one's perceived attitude towards others' perception of self on a social level. The two remaining factors tended to be meaningless. In the Purpose in Life Scale, two factors were identified showing the bipolar perceived belief towards a goal in life. The remaining two factors did not show clear characteristics. With the exception of two items, the Body Self Scale resulted in one factor, the non-acceptance of a person's physical appearance. Other factors estimated on the Lie Scale showed no common characteristics. Appendix G shows the factors for each scale. The items are grouped according to factors and only items with a loading of .30 or greater in one factor are shown in this appendix.

Study Three

Cross Validation

The validity coefficients for cross validation were estimated on a sample of forty-one (41) college and university students. The sample was removed at random from the first administration and compared to the scores obtained from the second administration. Items that were eliminated through item analysis were also removed.

a) Internal Consistency

Since the sample size is approximately half that used in Study Two (original sample size), one would expect weaker results and more variability. Table 51 depicts much more substantial results than found in Study Two (Table 6). All scores except for the Past/Present/Future and Empathy scales meet the criteria of acceptable homogeneity estimates (.50 - absolute minimum; .60 - desired minimum). The results show that ten scales do in fact meet the desired minimum, and one scale the absolute minimum. This is a large discrepancy compared to the previous results where only one scale met the absolute minimum and one scale the desired minimum. A review of the corrected item-total correlations shows a decrease of negative correlations and an increased number of significant correlations. For a sample size of 41, the significance of the corrected item-total correlation for the items at $\alpha \leq 0.01$ should be 0.358; and at the $\alpha \leq 0.05$ level, the correlation should be 0.257.

In general, the reliability analysis shows greater variability with standard deviations ranging from $\underline{SD} = 6.67$ (Past/Present/Future Scale) to $\underline{SD} = 16.91$ (Social Self Scale); whereas Study Two resulted in a range from $\underline{SD} = 3.73$ (Self Esteem Scale) to $\underline{SD} = 10.60$ (Empathy Scale).

b) Factor Analysis for Individual Scales

Varimax orthogonal rotation with interation: PA2 was also the factor analysis computed for the cross-validation data. The factors extracted also equalled the number of items in each scale. Illustrated in Tables 52 to 64 are the eigenvalues and item communality for each item of every scale. Shown in Tables 65 to 77 are the Varimax rotated matrices for the individual scales. Since the sample size ($\underline{n} = 41$) is small, one would suspect a large percentage of sampling error in this rotation compared to Study Two ($\underline{n} = 96$). For this reason, it was decided not to extract factors according to eigenvalues as completed previously.

It was decided to compute the factor analysis for cross-validation, only to determine if any major differences or similarities occurred. In general, relatively similar results occurred. However, there seemed to be an increase in factors identified compared to the previous findings.

DISCUSSION

The primary focus of this study was to investigate and explore the possibility of a self concept measurement that will yield useful information. It was not the purpose of this study to develop a test of self concept to the point of sufficient validation and reliability, but only to investigate the possibility using a phenomenological frame of reference.

In order to further pursue this question, two major areas were looked at. Firstly, on a global basis, what in general are the primary strengths and weaknesses; and secondly, what are the primary strengths and weaknesses of each individual scale. Only then could it be determined whether this form of measurement should be developed further to a point of sufficient reliability and validity.

Global

As previously stated in the Introduction, this study focused on what was considered to be the important self concept constructs conceptualized in terms of an internal dimension (psychological interior) and an external dimension (social external). A basic premise of most self concept studies focuses on the belief that the investigation of self concept can not be done in isolation from a person's environment; for it is from one's environment or experiences that a person derives the content of the self concept (Rogers, 1951 and 1961). Since each individual has literally hundreds of ways of describing himself/herself as a result of experiencing, observing, and judging oneself, the self concept is the total of all these perceptions.

A definition of self concept must reflect these perceptions in a totality. However, a definition such as this needs to be more specific if it is to be useful and meaningful to an investigation for measurement of self concept. It would not be feasible nor possible to measure every self perception each individual has about oneself. Common constructs of self concept among people in general must be sought if a measure is to be useful.

In this study, twelve self concept constructs were selected. Five of these variables comprised the internal dimension, and six elements reflected the external dimension of the self. The constructs used were not inclusive; only the subselves that were considered to be relevant to and common to most people were used.

Psychometric Conclusions

The high agreement among the nine judges at the initial stage of this study tends to give some evidence of the face validity of each scale. This suggests that scale items prior to item analysis tended to reflect a common criterion (the individual scale's meaning) or appeared to measure what each scale intended to measure.

The next stage involved item analysis, the items retained after judges' agreement being administered to 284 persons. This sample is somewhat heterogeneric in nature with the characteristic of being post highschool students in common. The participants' demographic differences were not considered in this preliminary study.

For the purpose of item analysis, the sample size used ($\underline{n} = 284$) seemed to be large enough to guard against the possibility of misleading results due to chance. Nunnally (1970) suggests that results in item analysis can be "highly misleading unless there are at least five times as many persons as items" (p. 201). The Empathy Scale, consisting of 64 items, was the only scale that fell slightly short of this criterion. Therefore, it can be assumed that the results obtained were good estimates of the item's correlations to the scale's total score. The items resulting in the highest correlations in each scale (no matter what the value was) were used for the first administration. As a result, some scale items that were selected did not have an acceptable significant correlation value. For a sample size of 284, the significance of the corrected item-total correlation for the items at alpha 0.25 should be approximately at 0.188; and at the 0.005 level, the correlation should be 0.155.

Individual Scales

1. Family Self Scale

The results of the item analysis showed three items that had significant item-total correlations (items Q126, Q10, Q143, $P \leq .025$, $\underline{n} = 284$), and five items approaching the significant level. Alpha was estimated as 0.30 (see Tables 5 and 6).

A slight increase in the alpha score was noticed in the revised questionnaire (alpha = 0.31). There was also an increase in the number of items that resulted in significant corrected item-total correlations (eight out of the sixteen items (see Table 6). The

cross-validation groups showed 14 items with significant corrected item-total correlations (see Table 51) and an alpha score of 0.86, $n = 41$. The cross-validation results tend to provide greater evidence for the reliability and validity of this scale.

A review of the factor study completed on this scale showed two dominant factors; one factor tends to reflect family acceptance, and the other reflects a desire to have a closer relationship with one's family. These two factors represent 60.8% of the total variance of this scale, with ten items having loadings of .30 and greater in factor.

The correlational study between the revised questionnaire and the TSCS and 16PF gives further support for this scale. A positive significant correlation between the TSCS Family Self subscale and the family self scale of this study was found. This tends to suggest that this scale is measuring a similar construct. Significant negative correlations resulted in the F, O, Q_{IV} traits of the 16PF. These results tend to be interesting and somewhat supportive of this scale. These 16PF traits reflect a person's interactions with social groups in general. These results illustrate that there is a difference in a person's perception and definition of a family as a social group and social groups outside the family. The negative correlation may suggest that one's behaviour and perception of self may be different depending on the type of social group.

In general, there seems to be both statistical and theoretical evidence to support further development of this scale. Weak items as found in item and factor analysis should be removed and new ones developed. By this method, an acceptable alpha score should result and scale reliability should increase.

2. Social Self Scale

The Social Self Scale appears to be one of the weaker scales developed, as identified by both the reliability and validity results. However, the cross-validation and factor analysis seems to give this scale support for further development.

A large discrepancy between the revised questionnaire alpha (equal to 0.09) and the cross-validation alpha (equal to 0.92), and the percentage of items with significant corrected item-total correlations was found (3 items in the revised questionnaire and 15 items in cross-validation - see Tables 6 and 51). The discrepancy between the two studies could be a result of the difference in sample size used. The sample size ($n = 41$) used in the cross-validation study is questionable and has a greater probability of error due to chance.

The Varimax rotation showed two stronger factors which reflected positive and negative aspects of this construct. They also accounted for 59.4% of the variance of the scale. It is not clear as to the meaning of this scale. By definition, this scale should have correlated positively with the Social Self Subscale of the TSCS; instead, a positive correlation with Self-Satisfaction resulted. This may

suggest that the Social Self Scale of this study may reflect a sense of self satisfaction in the content of the Social Self.

If this scale is to be useful in measuring a self concept construct, much refinement of items would be required. With the large discrepancy in the results and the low alpha estimated in the reliability study for the revised questionnaire, it seems that this scale may need to be completely revised starting with the writing of new items. The present items appear to be reflecting a person's self acceptance rather than one's sense of adequacy in relationship with people in general.

3. Religious Self

Significant corrected item-total correlations were estimated for half of the items used. Alpha was estimated at 0.33 (see Tables 4 and 5). A slight increase in alpha resulted for the revised questionnaire (alpha = 0.45; see Table 6) and in the cross-validation study, a substantial increase was noticed (alpha = 0.84; see Table 51). This tends to indicate evidence of the Religious Self Scale approaching an acceptable level of homogeneity. The cross-validation study showed an increase in the number of items that resulted in significant corrected item-total correlations. Thirteen items out of sixteen were found to be significant, compared to eight out of sixteen found in the second study using the revised questionnaire and the first study (see Tables 5, 6 and 51). A comparison of three studies shows that items 1, 7, 28, 95, 49 and 90 consistently contributed significantly to the total variance of the scale.

A review of the factor study completed using the revised questionnaire illustrated two primary factors. Two factors reflected the positive and negative constructs of the Religious Self Scale. These factors represent 87.4% of the total variance of this scale, with nine items having loadings of .30 and greater in one factor.

The correlational study between the revised questionnaire and the TSCS and 16PF gives further support for this scale. A significant positive correlation was found with the TSCS Moral-Ethical Self subscale. The Moral-Ethical Self scale by definition is similar to the Religious Self Scale of this study. Therefore, an opposite trait tends to be indicated. Significant positive correlations were also found with the Physical, Personal, and Family Self subscales of the TSCS which could suggest that the external frame of reference is similar. From theory this could have been predicted. The 16PF Q₄ trait was the only significant correlation estimated. This suggests a relationship between ergic tension and one's satisfaction with religious beliefs or lack of it.

In summary, there seems to be both statistical and theoretical evidence to support further development of this scale. The weaker items that were estimated in both the item and factor analysis should be removed and replaced by new ones. Reliability and validity should increase as a result.

4. Occupational Self Scale

The Occupational Self Scale tends to be one of the statistically weaker scales. Theoretically, it appears to be an important construct in a person's self concept and a scale of this nature would provide meaningful information. However, the items in this study tend to be very questionable and for the majority discarded. It appears that only items 16 and 53 provide consistent meaningful results.

The cross-validation study does show acceptable reliability and validity, but due to the sample size the results are questionable. It is therefore recommended that this scale remain as part of the overall measurement, but the items be discarded and redeveloped.

5. Masculine/Feminine Self Scale

Similar to the Occupational Self Scale, the Masculine/Feminine Self Scale is highly questionable. The results estimated in the three studies are inconsistent and create much suspicion as to the reliability and validity of this scale.

Theoretically, a scale of this nature should remain and it would provide useful information in the study of self concept. Items loading in Factors 1 and 3 could possibly be reused (see Table 42). The two factors suggested a distinction between acceptance and non-acceptance of a person's gender, with item loadings .30 and greater.

6. Body Self

Although the alpha scores estimated for this scale are below an acceptable level, several items used could be retained. The results of the corrected item-total correlations and factor analysis showed

that item numbers 57, 108, 119, 131, 140, 197, and 121 were powerful items. The above-named items, except for item 121, had factor loadings greater than .30 on one factor which suggested non-acceptance of one's body image. These items also had significant item-total correlations. Item 121 was the only positive stated item that had both a significant item-total correlation and an acceptable factor loading. This item reflected the acceptance of one's body self.

Further support for the revision of this scale is found in the validation study. The scale correlated positively with the Physical and Family Self and Self Esteem scale of the TSCS. No correlations were found with the 16PF Scales. The correlations that were found appear to be explainable by theory, except for the TSCS Family Self Subscale. However, this correlation may have occurred as a result of the weaker items found in the revised questionnaire.

It is hypothesized that the alpha score would increase to an acceptable level if the weaker items in this scale were removed. Further items would need to be developed to reflect a person's acceptance of body self (positive stated item). The negative stated items seem to be sufficient in reflecting non-acceptance.

7. Past/Present/Future Scale

The Past/Present/Future Scale appears to be one of the better scales developed. As shown in Tables 5 and 6, the alpha score was estimated at the absolute minimum level in both study one and two. This suggests that the scale meets the criterion for homogeneity.

Item numbers 112 and 144 of Past construct, items 45, 59, 162 and 203 of the Present, and item number 120 of the Future were estimated to be the most powerful items of this scale. These items had significant corrected item-total correlations and had a loading of .30 or greater in the corresponding factor. Therefore, these items should be retained. Due to the number of items that need to be discarded, new items would need to be developed for each construct. Weaker results were estimated in the Cross-Validation study. However, this was predictable due to the sample size used.

It was predicted that this scale would not correlate positively with the scales of the TSCS and the 16PF. Tables 8 and 9 show positive correlations with the Total P score of the TSCS and Q₄ and Q_{IV} of the 16PF. This suggests that there is a relationship between a person's time orientation and ergnic tension and degree of dependence on others as illustrated by the 16PF correlations and self esteem (Total P score) found with the TSCS.

8. Public Self Scale

Overall, the Public Self Scale seems to be worth considering for further development. A review of the factor analysis (see Table 19) shows two distinct factors, one reflecting acceptance of one's public self, and the other depicting non-acceptance. Alpha scores estimated in study one and two did not reflect homogeneity for the scale. This probably resulted from the use of the weaker items incorporated in the revised questionnaire. A review of item

analysis only showed six items that had significant corrected item-total correlations. A slight increase (nine items) was found in the second study using the revised questionnaire. If only items resulting in significant corrected item-total correlations were used, the alpha score would have been higher.

Further support for further development of this scale is found in the significant correlations with the TSCS subscales. It was predicted that the Public Self Scale would correlate positively with the Self Esteem and Self Satisfaction subscales of the TSCS. These predictions were met. The TSCS subscales Physical Self and Moral-Ethical Self were also found. By theory, these correlations would seem logical because they also reflect the external frame of reference of self concept.

The validity results with the 16PF traits showed negative correlations with the A and F factors. One would have expected the opposite to have occurred, for both reflect styles of interaction with others in the environment. One explanation could be that the 16PF trait may be reflecting more of the internal dimension of the self, whereas the Public Self Scale is emphasizing one's external frame of reference.

Overall, this scale does show promise and should be retained. A close examination of the statistical results show that the positive stated items would need to be completely revised. Item numbers 81, 122 and 177 were estimated to be the most powerful negative-stated items, and should be retained.

9. Empathy Scale

Prior to the modification in this research, Hogan (1969) reported a test-retest reliability coefficient of .84 over a two month time interval, and an internal consistency as high as .71 which was estimated using the KR-21 formula ($n = 211$).

With the modifications, the Empathy Scale still appears to be a valid and reliable measurement. The statistics estimated in this research tend to support the use of the modified Empathy Scale. A decrease in test-retest reliability and internal consistency was estimated in this research. An alpha score of 0.65 was estimated in study one and two. Both are acceptable homogeneity estimates at the desired minimum level. The test-retest coefficient was below an acceptable level. This difference between the result reported by Hogan (1969) and this study may be accounted for by the smaller sample.

Positive correlations between the TSCS Physical, Moral-Ethical and Personal Self were found. From theory, it was expected that the Empathy Scale would correlate with the Moral-Ethical Self subscale. The definition of the Personal Self subscale of the TSCS also seems to fall within the theoretical frame as described by Hogan (1969). However, it is not clear why the correlation with the Physical Self occurred.

It was predicted that 16PF C, I and Q_{III} factors would correlate with the Empathy Scale. The prediction of the I factor was the only

one met. Positive correlations with factors G and Q and a negative correlation with factor Q₂ were also estimated. The correlations with G and Q factors appear to be related to the characteristics of an empathic person described as being "self-possessed, outgoing and socially ascendant" (Greif and Hogan, 1973, p. 282). This would explain the negative correlation with the Q₂ Factor which reflects "group-descendency vs self-sufficiency". According to Greif and Hogan (1973), an empathic person would demonstrate a healthy relationship and interaction with others. The Q₂ Factor reflects whether a person is either a follower or self-sufficient within a group interaction.

Corrected item-total correlations in both studies show much support for the retention of this scale. Fourteen out of twenty items resulted in significant correlations. Corrected item-total correlations were not reported in Hogan's (1969) study. Therefore, a comparison of results can not be made.

The factor analysis completed in this research does reflect the three primary factors reported by Hogan (1969). The current factors are not as clearly defined and tend to be more ambiguous.

Overall, there appears to be substantial statistical evidence to retain this scale. It is recommended that further investigation be done prior to the modification of the empathy scale. This research does give evidence that the original scale can be shortened in the number of items without the scale losing its usefulness.

10. Self Esteem Scale

For the purpose of measuring self esteem, the New York State Self Esteem Scale or the Rosenberg Self Esteem Scale (Rosenberg, 1979) was used with modifications. Test-retest reliability with a two week interval was $r = .85$ (Silver and Tippett, 1965). Rosenberg (1965 and 1979) provides ample satisfactory evidence for convergent, discriminant and predictive validity for the scale.

The current results estimated using the modified scale were found not to be favourable. Few items were found to have significant corrected item-total correlations and the alpha score was estimated well below an acceptable level. However, the factor analysis showed much more supportive results. One primary factor was determined reflecting self esteem as defined by Rosenberg (1979). Further support was found with the positive correlations with TSCS Self Esteem and Self Satisfaction subscales. Other positive correlations were found with the Behaviour and Physical Self subscales of the TSCS. No positive or negative correlations were found with the 16PF traits.

Although this scale did not reach an acceptable level for homogeneity, it does appear to be reflecting the self esteem construct. It is recommended that this scale be retained in this questionnaire.

11. Altruism Scale

The Altruism Scale used in this research was one of the six subscales found in the Measurement of Philosophies of Human Nature (Wrightsmann, 1964). The split-half reliability coefficients for the

altruism subscale as reported by Wrightsman (1964) ranged from $\underline{r} = .60$ to $\underline{r} = .91$. The sample consisted of four different groups ($\underline{n}_s = 50$); male and female graduates and undergraduates. The test-retest reliability with a three month interval was 0.83. Pearson inter-correlations for the Altruism subscale between the other subscales of the PHN scale ranged from $\underline{r} = .69$ to $\underline{r} = -.10$. The highest correlations were among Trustworthiness, Altruism and Independence, which Wrightsman (1964, p. 747) indicates as a common "general belief that man is good or evil, which reflects itself to some degree in the performance on each subscale."

The modified Altruism Scale used in this study did not show favourable results. Three dominant factors resulted, one being a reflection of a person's attitude towards assisting others, one's attitude about oneself, and the third, patterns of behaviours within a person's social environment. These factors tend to support Wrightsman's (1964) definition of Altruism. However, less favourable results were found in the low alpha score and the number of corrected item-total correlations. Test-retest was approaching an acceptable reliability coefficient.

It was predicted that by definition the Altruism Scale should correlate positively with the TSCS Moral-Ethical Self subscale; a positive correlation with the Family Self subscale was found. It was questionable why this occurred. As for the 16PF traits, it was predicted that correlations with the C, I, and Q_{III} factors would

result. Positive correlations with Q_4 and Q_{III} and a negative correlation with factor F was estimated. It was also questionable why these results occurred.

Overall, it appears that from theory this construct can be an important part of a person's self concept and method of interacting with his/her social environment. Consideration should be made to retain this scale.

12. Purpose in Life Scale

The Purpose-in-Life (PIL) Test (Crumbaugh and Maholick, 1969) was also used in this study to determine to what degree a "person experiences a sense of meaning and purpose in life" (Crumbaugh, 1968). For two separate studies split-half reliabilities have been demonstrated to be .90 and .92 for this scale (Braun cited in Buros, 1972, p. 314). The validity studies presented by the author in the manual are supportive for both the theoretical underpinnings and the empirical functioning of the PIL (Domino cited in Buros, 1972, p. 314).

Even though the results found in this study tend to be less favourable than reported previously, it is worth considering retaining this scale. The cross-validation study does give more supportive evidence for validity and statistical meaning for the scale.

The results of study two show non acceptable test-retest reliability and alpha. Factor analysis showed four dominant factors, two of which reflected the positive and negative perceptions of one's attitude towards life. These four factors accounted for 58% of the

scale's variance. The other two factors had missing item loadings and were not interpreted.

The author in the manual reports several positive and negative correlations with the 16PF Scale. None of these reported correlations were found in this current study. From the theoretical basis and from the definition of an "existential vacuum", it does appear reasonable that the modified scale used in this study would correlate positively with the M and Q_{IV} factors of the 16PF Scale - Practical vs Imaginative, and Subduedness vs Independence, respectively. This would also support the positive correlation found with the TSCS Identity self subscale. However, it is questionable as to why the positive correlation was found with the Family Self Subscale. It would be explained by assuming that individuals may give much meaning in their lives from their perceptions of family.

Since the concept of "existential vacuum" can provide much meaning in the understanding of a person's self concept and because of the statistical evidence provided both by this study and by the author, this scale should remain.

13. Lie Scale

Although statistical results were estimated and presented in this study, it was not the purpose to investigate the feasibility of this scale. The Lie Scale was included in this questionnaire to determine to what degree a person was giving socially desirable responses. It was not used as a construct of self concept.

SUMMARY

The purpose of this research was to develop a preliminary self concept device, taking into account previous work done in the field. Twelve scales were sought and investigated in terms of reliability, validity and cross-validation. This preliminary study did not investigate normative data accounting for age, sex, race, and economical disadvantage. The primary focus was to determine if the statistical results estimated justify the further development of a self concept measurement which reflects self concept viewed in a multidimensional phenomenological frame.

The overall statistical results for the revised questionnaire gave support for further development. Each scale, however, does require substantial revision. It is hoped that with further investigation this questionnaire can provide meaningful information in the field of self concept.

Table 1
 Number of Judges that Scored the Item Five or Above
 in the Original Item Pool

Item Number	FAMILY SELF SCALE	
	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	8	9
2	9	9
3	9	8
4	7	6
5	7	8
6	8	8
7	8	8
8	6	7
9	6	7
10	8	8
11	9	8
12	8	8
13	7	9
14	8	8
15	8	9
16	7	7

Table 1 (continued)

SOCIAL SELF SCALE		
Item Number	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	7	8
2	8	8
3	9	8
4	9	8
5	8	8
6	9	9
7	9	8
8	6	8
9	7	8
10	8	8
11	9	8
12	9	8
13	9	7
14	9	8
15	9	8
16	9	8
17	7	8
18	7	8

Table 1 (continued)

RELIGIOUS SELF SCALE		
Item Number	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	8	7
2	8	5
3	9	7
4	5	4
5	7	7
6	9	5
7	4	5
8	7	7
9	7	7
10	5	5
11	7	7
12	7	7
13	8	7
14	7	5
15	5	7
16	2	4

Table 1 (continued)

OCCUPATIONAL SELF SCALE		
Item Number	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	5	9
2	7	8
3	7	6
4	9	8
5	7	8
6	9	8
7	8	8
8	9	8
9	9	9
10	8	7
11	9	8
12	9	8
13	7	8
14	7	6
15	9	8
16	7	7
17	8	7
18	7	9
19	7	8
20	8	5

Table 1 (continued)

Item Number	MASCULINE/FEMININE SCALE	
	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	8	7
2	9	7
3	7	7
4	6	6
5	8	8
6	7	8
7	8	7
8	8	7
9	9	8
10	8	7
11	8	8
12	9	9
13	7	9
14	5	8
15	6	8
16	8	7
17	7	8

Table 1 (continued)

Item Number	BODY SELF SCALE	
	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	9	9
2	9	9
3	9	9
4	9	9
5	9	7
6	9	7
7	9	7
8	9	9
9	9	4
10	9	8
11	9	8
12	9	9
13	8	9
14	9	8
15	9	8
16	8	8

Table 1 (continued)

PAST/PRESENT/FUTURE SCALE			
Item Number	Past Number of Judges	Present Number of Judges	Future Number of Judges
1	9	8	8
2	9	8	9
3	8	9	9
4	7	5	9
5	8	8	8
6	7	6	8
7	7	5	5
8	7	8	9
9	2	6	8
10	5	6	8
11	8	9	9
12	7	7	8
13	6	8	6
14	6	5	9
15	5	7	5
16	8	5	6
17	5		
18	4		

Table 1 (continued)

Item Number	PUBLIC SELF SCALE	
	<u>Positive Stated Items</u>	<u>Negative Stated Items</u>
	Number of Judges	Number of Judges
1	6	8
2	8	8
3	8	7
4	8	8
5	8	7
6	7	7
7	7	8
8	7	8
9	8	5
10	8	5
11	8	7
12	8	8
13	7	7
14	7	7
15	7	5
16	9	7
17		7

Note. Item numbers correspond with Appendix D.

^a n = 9

Table 2
 Brief Description of the TSCS Subscales
 Counselling Form (Radford et al., 1971 and Fitts, 1965)

Self Criticism Score (SC): L-Scale from the Minnesota Multiphasic Personality Inventory (MMPI).

Total Positive Score: reflects the overall level of self esteem.

Row 1 or Identity: These are the "What I am" items. Here the individual is describing his/her basic identity - what the individual is as the person sees himself/herself.

Row 2 or Self Satisfaction: Reflects the level of self satisfaction or self acceptance.

Row 3 or Behaviour: Describes "This is what I do", or "This is the way I act". This score measures the individual's perception of his/her own behaviour or the way a person functions.

Column A or Physical Self: Describes an individual's physical attributes or functioning, sexuality, state of health, and appearance.

Column B or Moral-Ethical Self: Describes the self from a moral-ethical frame of reference - moral worth, relationship to God, feelings of being a "good" or "bad" person, and satisfaction with one's religion or lack of it.

Column C or Personal Self: Reflects the individual's sense of personal worth, or adequacy, self-respect, and self-confidence.

Column D or Family Self: Describes the nature of an individual's relationship with his/her primary group (family and close friends) and the person's sense of adequacy as a family member.

Column E or Social Self: Reflects one's sense of adequacy or worth in relationships with people in general.

Variability Scores: There are three of these scores: Total Variability; Column Total Variability; and Row Total Variability. These scores are indicative of the amount of variability, or inconsistency, from one area of self-perception to another.

Table 2 (continued)

Distribution Score: Weighs and summarizes the individual's distribution of scores across the five response categories.

Additional Subscales of the TSCS

True-False Ration: Indicator of the person's tendency to agree or disagree with an item, regardless of its content.

Net Conflict Score: Reflects a tendency to "over-respond" to either negatively or positively stated items. An emphasis on positively stated items indicates an over-affirmation of positive attributes, and possible acquiescence conflict and emphasis on the negative may represent a denial conflict.

Total Conflict Score: Reflects conflict, or confusion in general, without regard to its direction.

Empirical Scales

Defensive Positive Scale: Represents a more subtle measure of defensiveness than the Self Criticism Score.

General Maladjust: Serves as a general index of adjustment-maladjustment but provides no clues as to the nature of pathology.

Psychosis Scale: Differentiate psychotic patients from the other groups.

Personality Disorder Scale: Pertains to people with basic personality defects and weaknesses in contrast to psychotic states or the various neurotic reactions.

Neurosis Scale: Distinguish neurotic patients from other groups.

Personality Integration Scale: Representing a group of subjects judged, by outside criteria, to have a better-than-average level of adjustment.

Number of Deviant Signs: Reflects the number of deviant features of other scores. It is the scale's best index of psychological disturbance.

Table 3
 Adjectival Description of 16PF (I.P.A.T., 1967)

Factor	Low Score Descriptions	High Score Descriptions
A	Reserved, detached, critical, aloof, stiff	Outgoing, warmhearted, easy-going, participating
B	Less intelligent, concrete thinking	More intelligent, abstract thinking, bright
C	Affected by feelings, emotionally less stable, easily upset, changeable	Emotionally stable, mature, faces reality, calm
E	Humble, mild, easily led, docile, accommodating	Assertive, aggressive, stubborn, competitive
F	Sober, taciturn, serious	Happy-go-lucky, enthusiastic
G	Expedient, disregards rules	Conscientious, persistent, moralistic, staid
H	Shy, timid, threat-sensitive	Venturesome, uninhibited, socially bold
I	Tough-minded, self-reliant, realistic	Tender-minded, sensitive, clinging, overprotected
L	Trusting, accepting conditions	Suspicious, hard to fool
M	Practical, "down to earth" concerns	Imaginative, bohemian, absent-minded
N	Forthright, unpretentious, genuine but socially clumsy	Astute, polished, socially aware
O	Self-assured, placid, secure, complacent, serene	Apprehensive, self-reproaching, insecure, worrying, troubled
Q ₁	Conservative, respecting traditional ideas	Experimenting, liberal, free-thinking

Table 3 (continued)

Factor	Low Score Descriptions	High Score Descriptions
Q ₂	Group-dependent, a "joiner" and sound follower	Self-sufficient, resourceful, prefers own decisions
Q ₃	Undisciplined, self-conflict, lax, follows own urges, careless of social rules	Controlled, exacting will-power, socially precise, compulsive
Q ₄	Relaxed, tranquil, unfrustrated, composed	Tense, frustrated, driven, overwrought

Second Order Factors

Q _I	Introversion vs. Extraversion
Q _{II}	Low Anxiety vs. High Anxiety
Q _{III}	Tenderminded Emotionality vs. Tough Poise
Q _{IV}	Subduedness vs. Independence

Table 4
Item Analysis for Study One
Means, Variances, Standard Deviations and Alpha

Scale Name	Number of Variables	Mean	Variance	Standard Deviation	Alpha
Family Self	29	104.37	62.29	7.89	0.30
Social Self	36	129.38	82.59	9.09	0.31
Religious Self	20	73.71	58.39	7.64	0.35
Occupational Self	37	133.55	82.27	9.07	0.33
Masculine/ Feminine Self	30	101.14	99.52	9.98	0.54
Body Self	31	111.95	64.31	8.02	0.07
Past/Present/ Future	33	111.22	118.29	10.88	0.57
Public Self	29	150.45	62.91	7.93	0.34
Empathy	64	226.93	404.25	20.11	0.65

^a $\underline{n} = 284$

Table 5
Corrected Item-Total Correlation - Item Analysis for Retained Items

Scale Name	Positive Stated Items		Negative Stated Items	
	Item Number	Corrected Item-Total Correlation	Item Number	Corrected Item-Total Correlation
<u>Family Self</u>	27	0.09	6	0.09
	30	-0.09	10	0.20
	52	0.08	15	0.17
	80	0.11	24	0.12
	126	0.20	82	0.09
	130	-0.09	107	0.16
	165	0.09	143	0.20
	189	0.12	190	0.10
Total Number of Variables:	29			
<u>Social Self</u>	40	-0.26	13	0.33
	113	-0.37	25	0.37
	167	-0.26	73	0.43
	170	-0.27	94	0.40
	172	-0.17	99	0.41
	179	-0.33	125	0.30
	196	-0.18	132	0.41
	212	-0.28	156	0.34
Total Number of Variables:	36			

Table 5 (continued)

Scale Name	Positive Stated Items		Negative Stated Items	
	Item Number	Corrected Item-Total Correlation	Item Number	Corrected Item-Total Correlation
<u>Religious Self</u>	1	0.23	12	0.06
	7	0.22	37	-0.10
	28	0.25	38	0.11
	85	0.28	49	-0.06
	95	0.29	55	0.07
	114	0.37	78	0.10
	123	0.29	90	-0.21
	211	0.15	171	-0.05
Total Number of Variables:	20			
<u>Occupational Self</u>	16	-0.10	20	0.21
	17	0.11	32	0.27
	66	-0.15	53	0.24
	98	-0.12	148	0.26
	141	-0.10	173	0.21
	193	-0.13	185	0.25
	206	-0.17	199	0.24
	206	-0.16	200	0.27
Total Number of Variables:	37			

Table 5 (continued)

Scale Name	Positive Stated Items		Negative Stated Items	
	Item Number	Corrected Item-Total Correlation	Item Number	Corrected Item-Total Correlation
<u>Masculine/ Feminine Self</u>	11	-0.08	14	0.38
	18	0.15	41	0.34
	31	0.08	74	0.45
	58	-0.11	97	0.32
	84	0.20	118	0.43
	106	-0.13	128	0.35
	110	-0.11	147	0.33
	160	-0.11	191	0.35
Total Number of Variables: 30				
<u>Body Self</u>	51	-0.48	19	-0.16
	63	-0.07	57	0.10
	77	-0.08	108	0.27
	91	0.07	119	0.10
	116	0.06	131	-0.06
	121	-0.07	140	0.20
	183	-0.04	181	0.21
	188	-0.09	197	0.13
Total Number of Variables: 31				

Table 5 (continued)

Scale Name	<u>Past Stated Items</u>		<u>Present Stated Items</u>		<u>Future Stated Items</u>	
	Item Number	Item-Total Corrected Correlation	Item Number	Item-Total Corrected Correlation	Item Number	Item-Total Corrected Correlation
<u>Past/Present/ Future</u>	47	0.19	2	0.19	23	0.12
	70	0.20	43	0.34	62	0.11
	112	0.21	45	0.37	89	-0.13
	142	0.10	59	0.43	120	0.19
	144	0.24	162	0.22	136	0.23
	187	0.23	203	0.33	151	0.15
Total Number of Variables:	33					

Table 5 (continued)

Scale Name	Positive Stated Items		Negative Stated Items	
	Item Number	Corrected Item-Total Correlation	Item Number	Corrected Item-Total Correlation
<u>Public Self</u>	79	0.11	81	0.26
	93	0.09	86	0.10
	111	0.10	88	0.11
	135	-0.12	109	0.25
	137	0.10	122	0.23
	154	-0.07	145	0.19
	195	0.09	157	0.13
	207	0.18	177	0.18
Total Number of Variables:	29			
<u>Empathy Scale</u>	34	0.16	50	0.33
	46	0.23	60	0.30
	64	0.17	65	0.38
	76	0.12	92	0.31
	96	0.18	100	0.37
	104	0.19	117	0.27
	134	0.13	150	0.28
	158	0.13	186	0.30
	182	0.16	208	0.29
	204	0.21	209	0.30
Total Number of Variables:	64			

^a n = 284

Table 6
Reliability Analysis for the Revised Questionnaire - 13 Scales

<u>Family Self Scale</u>		<u>Social Self Scale</u>		<u>Religious Self Scale</u>	
Mean = 64.55		Mean = 58.26		Mean = 60.10	
Variance = 43.20		Variance = 28.32		Variance = 57.24	
S.D. = 6.57		S.D. = 5.32		S.D. = 7.57	
Alpha = 0.31		Alpha = 0.09		Alpha = 0.45	
Variables = 16		Variables = 16		Variables = 16	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
27	-0.18	40	-0.16	1	0.17
30	-0.04	113	-0.20	7	0.40
52	0.16	167	-0.08	28	0.25
80	0.05	170	-0.17	85	0.14
126	0.31	172	0.12	95	0.28
130	0.20	179	-0.15	114	0.08
165	0.14	196	0.08	123	0.15
189	0.09	212	-0.05	211	0.07
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
6	0.00	13	-0.14	12	0.22
10	0.38	25	0.01	37	0.00
15	0.25	73	0.23	38	0.26
24	0.31	94	0.06	49	0.49
82	-0.10	99	0.03	55	0.00
107	-0.15	125	0.13	78	0.05
143	0.21	132	-0.09	90	0.18
190	0.09	156	-0.01	171	0.14

Table 6 (continued)

<u>Occupational Self Scale</u>		<u>Masculine/Feminine Self Scale</u>		<u>Body Self Scale</u>	
Mean = 58.77		Mean = 59.63		Mean = 62.93	
Variance = 32.54		Variance = 49.73		Variance = 44.22	
S.D. = 5.70		S.D. = 7.05		S.D. = 6.65	
Alpha = 0.21		Alpha = 0.44		Alpha = 0.25	
Variables = 16		Variables = 16		Variables = 16	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
16	0.16	11	0.10	51	-0.03
17	-0.01	18	0.20	63	0.03
66	-0.00	31	0.26	77	-0.02
98	0.02	58	0.10	91	-0.05
141	0.00	84	-0.15	116	-0.35
193	0.01	106	0.11	121	-0.25
205	0.05	110	-0.16	183	-0.03
206	0.05	160	0.04	188	-0.15
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
20	0.15	14	0.24	19	-0.00
32	-0.01	41	0.36	57	0.33
53	0.24	74	0.13	108	0.25
148	-0.01	97	0.20	119	0.29
173	0.20	118	0.19	131	0.35
185	0.04	128	0.20	140	0.36
199	0.06	147	0.25	181	0.02
200	-0.05	191	0.09	197	0.34

Table 6 (continued)

<u>Past/Present/Future Scale</u>					
Mean = 62.29					
Variance = 60.10					
S.D. = 7.75					
Alpha = 0.52					
Variables = 18					
Corrected Item-Total Correlations		Corrected Item-Total Correlations		Corrected Item-Total Correlations	
Past Item	r	Present Item	r	Future Item	r
47	0.12	2	0.03	23	0.18
70	0.09	43	0.10	62	0.25
112	0.41	45	0.24	89	0.00
142	0.15	59	0.24	120	0.30
144	0.21	162	0.28	136	0.01
187	0.20	203	0.27	151	0.03

Table 6 (continued)

<u>Public Self Scale</u>		<u>Empathy Scale</u>		<u>Self Esteem Scale</u>	
Mean = 62.08		Mean = 77.26		Mean = 38.45	
Variance = 38.20		Variance = 112.45		Variance = 13.89	
S.D. = 6.19		S.D. = 10.60		S.D. = 3.73	
Alpha = 0.34		Alpha = 0.66		Alpha = 0.18	
Variables = 16		Variables = 20		Variables = 10	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
79	-0.01	34	0.25	103	-0.13
93	-0.06	46	0.19	155	-0.31
111	-0.00	64	0.35	161	-0.09
135	-0.24	76	0.44	169	-0.23
137	0.08	96	0.10	184	-0.06
154	0.13	104	0.40		
195	0.18	134	0.51		
207	-0.30	158	0.22		
		182	-0.00		
		204	0.39		
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
81	0.40	50	0.13	102	0.17
86	0.30	60	0.28	138	-0.03
88	0.30	65	0.09	166	-0.06
109	0.03	92	0.34	194	0.22
122	0.31	100	0.01	201	-0.08
145	0.15	117	0.35		
157	0.19	150	0.43		
177	0.20	186	-0.05		
		208	0.19		
		209	0.39		

Table 6 (continued)

<u>Altruism Scale</u>		<u>Purpose in Life Scale</u>		<u>Lie Scale</u>	
Mean = 51.14		Mean = 62.36		Mean = 74.72	
Variance = 36.22		Variance = 56.72		Variance = 53.24	
S.D. = 6.02		S.D. = 7.53		S.D. = 7.30	
Alpha = 0.25		Alpha = 0.37		Alpha = 0.36	
Variables = 14		Variables = 20		Variables = 18	
Corrected Item-Total Correlations		Corrected Item-Total Correlations		Corrected Item-Total Correlations	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
3	0.07	4	-0.05	5	-0.02
56	0.06	72	-0.08	8	0.13
61	0.24	105	0.06	29	0.04
101	0.26	115	0.18	44	0.05
149	0.16	124	0.09	68	0.09
164	0.08	127	0.09	71	0.26
192	0.10	152	-0.08	75	0.25
		153	0.04	83	0.11
		180	0.17	87	0.27
		202	-0.21	139	0.22
				146	0.25
				176	0.28
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
33	0.17	21	0.06	9	0.09
35	-0.10	48	0.44	22	-0.02
39	-0.10	54	0.17	26	-0.06
42	0.15	67	0.31	36	0.15
129	0.00	163	0.15	69	0.05
159	0.09	174	0.31	133	-0.07
168	0.04	175	0.17		
		178	0.31		
		198	0.19		
		210	0.28		

Note. Item numbers correspond with Appendix F.

^a $\underline{n} = 96$

Table 7
Test-Retest Reliability

Scale Name	Reliability Coefficients
Family Self	0.64**
Social Self	0.70**
Religious Self	0.57**
Occupational Self	0.62**
Masculine/Feminine Self	0.83**
Body Self	0.55**
Past/Present/Future	0.73**
Public Self	0.57**
Empathy	0.71**
Self Esteem	0.31
Altruism	0.77**
Purpose in Life	0.57**
Lie	0.58**

Note. Reliability data base on 24 college students over a three month period.

** $P \leq .01$.

Table 8: Pearson Correlation Coefficients Between the TSCS and Revised Questionnaire

Revised Questionnaire Scale	TSCS SUBSCALES									
	SC	ROW			COLUMN			E		
		Tot. P	1	2	3	A	B		C	D
Social Self	0.0893 (.35) P=0.305	-0.0061 (.35) P=0.486	-0.3831 (.35) P=0.012	-0.1142 (.35) P=0.257	-0.1391 (.35) P=0.213	-0.1226 (.35) P=0.241	0.0719 (.35) P=0.341	-0.2549 (.35) P=0.070	0.0919 (.35) P=0.300	
Religious Self	0.3436 (.35) P=0.022	-0.2753 (.35) P=0.055	-0.0502 (.35) P=0.387	0.1274 (.35) P=0.233	-0.3506 (.35) P=0.019	-0.3410 (.35) P=0.022	0.2991 (.35) P=0.040	-0.3520 (.35) P=0.019	0.2321 (.35) P=0.090	
Masculine/ Feminine Self	0.1964 (.35) P=0.129	0.0552 (.35) P=0.376	0.0733 (.35) P=0.338	0.0561 (.35) P=0.353	0.0992 (.35) P=0.285	0.0664 (.35) P=0.352	-0.0953 (.35) P=0.293	-0.1845 (.35) P=0.144	0.4454 (.35) P=0.004	
Self Esteem	0.1885 (.35) P=0.139	0.0017 (.35) P=0.496	-0.3168 (.35) P=0.032	0.2340 (.35) P=0.088	-0.3870 (.35) P=0.011	-0.1538 (.35) P=0.189	0.0954 (.35) P=0.293	-0.0717 (.35) P=0.341	-0.0373 (.35) P=0.416	
Body Self	0.0370 (.35) P=0.416	0.1139 (.35) P=0.257	-0.2189 (.35) P=0.103	0.1101 (.35) P=0.264	-0.4060 (.35) P=0.008	-0.1585 (.35) P=0.182	0.1225 (.35) P=0.242	-0.4417 (.35) P=0.004	0.0468 (.35) P=0.395	
Public Self	0.2223 (.35) P=0.100	-0.4107 (.35) P=0.007	-0.6263 (.35) P=0.000	0.2117 (.35) P=0.111	-0.4424 (.35) P=0.004	-0.2852 (.35) P=0.048	0.2314 (.35) P=0.091	-0.2723 (.35) P=0.057	-0.1540 (.35) P=0.189	
Altruism Scale	0.1958 (.35) P=0.130	-0.1478 (.35) P=0.198	-0.1215 (.35) P=0.243	0.0728 (.35) P=0.339	-0.1541 (.35) P=0.188	-0.0208 (.35) P=0.453	0.0009 (.35) P=0.498	-0.3739 (.35) P=0.013	0.1699 (.35) P=0.165	
Purpose in Life	0.1691 (.35) P=0.166	-0.3293 (.35) P=0.027	-0.1612 (.35) P=0.178	0.0040 (.35) P=0.491	-0.0618 (.35) P=0.362	-0.0095 (.35) P=0.478	-0.0558 (.35) P=0.375	-0.3451 (.35) P=0.021	0.0596 (.35) P=0.367	
Empathy Scale	0.0084 (.35) P=0.481	0.0981 (.35) P=0.288	-0.0862 (.35) P=0.311	-0.0656 (.35) P=0.354	0.3227 (.35) P=0.029	0.2850 (.35) P=0.049	-0.3030 (.35) P=0.038	0.0661 (.35) P=0.353	0.1815 (.35) P=0.148	
Lie Scale	0.0999 (.35) P=0.284	0.2372 (.35) P=0.085	0.1374 (.35) P=0.224	-0.1390 (.35) P=0.213	0.0732 (.35) P=0.338	-0.0817 (.35) P=0.320	0.1217 (.35) P=0.243	0.0494 (.35) P=0.389	0.0469 (.35) P=0.395	
Occupational Self Scale	0.1753 (.35) P=0.157	0.0642 (.35) P=0.357	-0.0590 (.35) P=0.366	0.0367 (.35) P=0.417	-0.0694 (.35) P=0.346	0.0160 (.35) P=0.464	-0.0216 (.35) P=0.451	-0.0878 (.35) P=0.308	0.0482 (.35) P=0.392	
Family Self	0.3093 (.35) P=0.035	-0.1420 (.35) P=0.208	-0.2680 (.35) P=0.059	0.2485 (.35) P=0.075	-0.3651 (.35) P=0.016	-0.1531 (.35) P=0.190	0.0804 (.35) P=0.323	-0.3455 (.35) P=0.021	0.1498 (.35) P=0.195	
Past/Present/ Future	0.0462 (.35) P=0.396	-0.2067 (.35) P=0.117	-0.3095 (.35) P=0.035	0.0294 (.35) P=0.434	-0.1435 (.35) P=0.205	0.1331 (.35) P=0.223	-0.1844 (.35) P=0.144	-0.0909 (.35) P=0.302	0.0201 (.35) P=0.454	

Table 8 (continued)

Revised Questionnaire Scale	TSCS SUBSCALES									
	Tot. V	Col. V	Row V	D	T/F	Conflict		Distribution		
						Net	Total	5	4	3
Social Self	-0.1275 (.35) P=0.233	99.0000 (.35) P=****	-0.2555 (.35) P=0.069	-0.3337 (.35) P=0.025	0.0605 (.35) P=0.365	-0.1766 (.35) P=0.155	0.1488 (.35) P=0.197	-0.0391 (.35) P=0.412	0.3042 (.35) P=0.038	-0.0262 (.35) P=0.441
Religious Self	-0.1811 (.35) P=0.149	99.0000 (.35) P=****	-0.3394 (.35) P=0.023	-0.0072 (.35) P=0.484	-0.0421 (.35) P=0.405	0.0575 (.35) P=0.372	0.0334 (.35) P=0.425	0.1081 (.35) P=0.268	0.0066 (.35) P=0.485	-0.0438 (.35) P=0.401
Masculine/ Feminine Self	0.1448 (.35) P=0.203	99.0000 (.35) P=****	-0.0090 (.35) P=0.477	0.0208 (.35) P=0.453	0.0340 (.35) P=0.423	0.2664 (.35) P=0.061	0.0111 (.35) P=0.475	-0.0449 (.35) P=0.399	-0.2315 (.35) P=0.090	0.1068 (.35) P=0.271
Self Esteem	-0.3808 (.35) P=0.012	99.0000 (.35) P=****	-0.2898 (.35) P=0.046	-0.3011 (.35) P=0.039	-0.0371 (.35) P=0.416	-0.0408 (.35) P=0.408	-0.0342 (.35) P=0.423	0.2152 (.35) P=0.107	0.2661 (.35) P=0.061	-0.0232 (.35) P=0.447
Body Self	-0.1651 (.35) P=0.172	99.0000 (.35) P=****	-0.4098 (.35) P=0.007	-0.2001 (.35) P=0.125	-0.1871 (.35) P=0.141	-0.1567 (.35) P=0.184	0.2256 (.35) P=0.096	0.1009 (.35) P=0.282	-0.1089 (.35) P=0.267	-0.0929 (.35) P=0.298
Public Self	-0.4355 (.35) P=0.004	99.0000 (.35) P=****	-0.4374 (.35) P=0.004	-0.4011 (.35) P=0.008	-0.1104 (.35) P=0.264	-0.0402 (.35) P=0.409	0.1603 (.35) P=0.179	-0.1287 (.35) P=0.231	0.1021 (.35) P=0.280	-0.1493 (.35) P=0.198
Altruism Scale	0.0739 (.35) P=0.336	99.0000 (.35) P=****	-0.1630 (.35) P=0.175	-0.1228 (.35) P=0.241	0.0901 (.35) P=0.303	-0.2242 (.35) P=0.098	0.1276 (.35) P=0.232	-0.1613 (.35) P=0.177	0.1079 (.35) P=0.269	0.0326 (.35) P=0.426
Purpose in Life	0.0410 (.35) P=0.408	99.0000 (.35) P=****	-0.2017 (.35) P=0.123	-0.1156 (.35) P=0.254	-0.0224 (.35) P=0.449	0.0111 (.35) P=0.475	0.1107 (.35) P=0.263	0.0995 (.35) P=0.285	0.0586 (.35) P=0.369	-0.0736 (.35) P=0.337
Empathy Scale	0.0812 (.35) P=0.321	99.0000 (.35) P=****	0.3549 (.35) P=0.018	-0.0182 (.35) P=0.459	0.1018 (.35) P=0.280	0.0976 (.35) P=0.288	-0.0501 (.35) P=0.387	-0.3978 (.35) P=0.009	0.0138 (.35) P=0.469	0.0353 (.35) P=0.420
Lie Scale	-0.0394 (.35) P=0.411	99.0000 (.35) P=****	0.1732 (.35) P=0.160	0.1042 (.35) P=0.276	0.2918 (.35) P=0.044	0.1274 (.35) P=0.233	-0.1961 (.35) P=0.129	-0.1197 (.35) P=0.247	0.0595 (.35) P=0.367	0.2616 (.35) P=0.065
Occupational Self Scale	-0.0022 (.35) P=0.495	99.0000 (.35) P=****	-0.1619 (.35) P=0.176	0.1402 (.35) P=0.211	-0.0642 (.35) P=0.357	0.0469 (.35) P=0.395	0.0695 (.35) P=0.346	-0.1249 (.35) P=0.237	-0.1297 (.35) P=0.229	0.1011 (.35) P=0.282
family Self	-0.2086 (.35) P=0.115	99.0000 (.35) P=****	-0.3439 (.35) P=0.022	-0.1577 (.35) P=0.183	0.0382 (.35) P=0.414	0.1590 (.35) P=0.181	0.0008 (.35) P=0.498	0.0621 (.35) P=0.361	0.2112 (.35) P=0.112	-0.1741 (.35) P=0.159
Past/Present/ Future	-0.1276 (.35) P=0.233	99.0000 (.35) P=****	-0.1240 (.35) P=0.239	-0.2832 (.35) P=0.050	0.0360 (.35) P=0.423	-0.0720 (.35) P=0.340	0.1917 (.35) P=0.135	-0.0874 (.35) P=0.309	0.2656 (.35) P=0.062	-0.1281 (.35) P=0.232

Table 8 (continued)

Revised Questionnaire Scale	TSCS SUBSCALES									
	Distribution					Empirical Scales				
	2	1	DP	GM	PSY	PD	N	PI		
Social Self	99,0000 (.35) P=****	0,1925 (.35) P=0,133	0,1730 (.35) P=0,160	-0,0458 (.35) P=0,397	-0,0304 (.35) P=0,431	99,0000 (.35) P=****	-0,2880 (.35) P=0,047	-0,1617 (.35) P=0,177		
Religious Self	99,0000 (.35) P=****	-0,0304 (.35) P=0,431	0,2281 (.35) P=0,094	-0,2098 (.35) P=0,113	0,0426 (.35) P=0,404	99,0000 (.35) P=****	-0,0982 (.35) P=0,287	-0,3546 (.35) P=0,018		
Masculine/ Feminine Self	99,0000 (.35) P=****	0,0513 (.35) P=0,385	-0,1438 (.35) P=0,205	-0,1278 (.35) P=0,232	0,0132 (.35) P=0,470	99,0000 (.35) P=****	-0,0631 (.35) P=0,359	-0,0292 (.35) P=0,434		
Self Esteem	99,0000 (.35) P=****	-0,0152 (.35) P=0,466	0,3288 (.35) P=0,027	-0,3002 (.35) P=0,040	-0,0779 (.35) P=0,328	99,0000 (.35) P=****	-0,1087 (.35) P=0,267	-0,3776 (.35) P=0,013		
Body Self	99,0000 (.35) P=****	-0,0559 (.35) P=0,375	0,2283 (.35) P=0,094	-0,2406 (.35) P=0,082	0,0513 (.35) P=0,385	99,0000 (.35) P=****	0,0172 (.35) P=0,461	-0,3866 (.35) P=0,011		
Public Self	99,0000 (.35) P=****	0,0564 (.35) P=0,374	0,3406 (.35) P=0,023	-0,0957 (.35) P=0,292	0,1560 (.35) P=0,185	99,0000 (.35) P=****	-0,2560 (.35) P=0,069	-0,3471 (.35) P=0,021		
Altruism Scale	99,0000 (.35) P=****	0,0353 (.35) P=0,420	0,2105 (.35) P=0,112	-0,3040 (.35) P=0,038	-0,0474 (.35) P=0,393	99,0000 (.35) P=****	-0,1641 (.35) P=0,173	-0,1789 (.35) P=0,152		
Purpose in Life	99,0000 (.35) P=****	0,1090 (.35) P=0,267	0,3181 (.35) P=0,031	-0,2888 (.35) P=0,046	-0,0899 (.35) P=0,304	99,0000 (.35) P=****	-0,1342 (.35) P=0,221	-0,0511 (.35) P=0,385		
Empathy Scale	99,0000 (.35) P=****	0,2887 (.35) P=0,046	0,2897 (.35) P=0,046	-0,1785 (.35) P=0,152	0,1944 (.35) P=0,132	99,0000 (.35) P=****	-0,1880 (.35) P=0,140	0,3615 (.35) P=0,016		
Lie Scale	99,0000 (.35) P=****	0,0872 (.35) P=0,309	0,2242 (.35) P=0,098	0,0221 (.35) P=0,450	-0,1076 (.35) P=0,269	99,0000 (.35) P=****	-0,2178 (.35) P=0,104	0,1178 (.35) P=0,250		
Occupational Self Scale	99,0000 (.35) P=****	-0,0577 (.35) P=0,371	0,0637 (.35) P=0,358	0,0179 (.35) P=0,459	0,0927 (.35) P=0,298	99,0000 (.35) P=****	-0,2625 (.35) P=0,064	-0,1503 (.35) P=0,194		
Family Self	99,0000 (.35) P=****	0,2531 (.35) P=0,071	0,4057 (.35) P=0,008	-0,2109 (.35) P=0,112	-0,0058 (.35) P=0,487	99,0000 (.35) P=****	-0,3037 (.35) P=0,038	-0,3443 (.35) P=0,021		
Past/Present/ Future	99,0000 (.35) P=****	0,3255 (.35) P=0,028	0,2022 (.35) P=0,122	-0,2400 (.35) P=0,082	0,0374 (.35) P=0,416	99,0000 (.35) P=****	-0,2800 (.35) P=0,052	-0,0855 (.35) P=0,313		

Note. A value of 99.0000 is printed if a coefficient cannot be computed.

a n = 35

Table 8a
Subscales of the TSCS
Abbreviations Used

<u>Counselling Form</u>	
<u>Abbreviation</u>	<u>Subscale Name</u>
SC	Self Criticism
Tot. P	Total Positive Score
Row 1	Identity
2	Self Satisfaction
3	Behaviour
Column A	Physical Self
B	Moral-Ethical Self
C	Personal Self
D	Family Self
E	Social Self
Tot. V	Total Variability Score
Col. V	Column Total Variability Score
Row V	Row Total Variability Score
D	Distribution Score
<u>Additional Subscales for Counselling and Research Form</u>	
T/F	True/False Ratio
Conflict Net	Net Conflict Score
Conflict Total	Total Conflict Score
Distribution 5	Indicates the distribution of scores
4	
3	
2	
1	

Table 8a (continued)

Empirical Scales

DP	Defensive Positive Scale
GM	General Maladjustment Scale
PSY	Psychosis Scale
PD	Personality Disorder Scale
N	Neurosis Scale
PI	Personality Integration Scale

A brief description of the TSCS subscales is found in Table 2.

Table 9: Pearson Correlation Coefficients Between the I6PF and Revised Questionnaire

Revised Questionnaire Scale	I6PF FACTORS										
	A	B	C	E	F	G	H	I	L	M	
Social Self	-0.1764 (.36) P=0.152	-0.1213 (.36) P=0.241	-0.1027 (.36) P=0.276	99.0000 (.36) P=*****	-0.1324 (.36) P=0.221	-0.0593 (.36) P=0.365	-0.1051 (.36) P=0.271	-0.0593 (.36) P=0.365	-0.105 (.36) P=0.476	0.0926 (.36) P=0.296	
Religious Self	-0.1317 (.36) P=0.222	-0.2590 (.36) P=0.064	0.2195 (.36) P=0.099	99.0000 (.36) P=*****	-0.2265 (.36) P=0.092	-0.1392 (.36) P=0.209	0.0677 (.36) P=0.347	-0.1392 (.36) P=0.209	-0.248 (.36) P=0.443	0.2239 (.36) P=0.445	
Masculine/ Feminine Self	-0.0429 (.36) P=0.402	-0.1821 (.36) P=0.144	-0.0626 (.36) P=0.358	99.0000 (.36) P=*****	-0.0212 (.36) P=0.451	0.1652 (.36) P=0.168	-0.0428 (.36) P=0.402	0.1652 (.36) P=0.168	0.0862 (.36) P=0.309	-0.0900 (.36) P=0.301	
Self Esteem	-0.0861 (.36) P=0.309	-0.0155 (.36) P=0.464	0.1809 (.36) P=0.146	99.0000 (.36) P=*****	0.0325 (.36) P=0.425	0.0860 (.36) P=0.309	-0.1122 (.36) P=0.257	0.0860 (.36) P=0.309	-0.0966 (.36) P=0.298	0.0506 (.36) P=0.385	
Body Self	-0.0528 (.36) P=0.380	-0.0238 (.36) P=0.445	0.1071 (.36) P=0.267	99.0000 (.36) P=*****	-0.0985 (.36) P=0.284	0.1115 (.36) P=0.259	0.0706 (.36) P=0.341	-0.1115 (.36) P=0.259	-0.1032 (.36) P=0.275	0.1233 (.36) P=0.237	
Public Self	-0.4327 (.36) P=0.004	-0.0014 (.36) P=0.497	-0.0161 (.36) P=0.463	99.0000 (.36) P=*****	-0.3637 (.36) P=0.015	0.1481 (.36) P=0.194	-0.1080 (.36) P=0.265	0.1481 (.36) P=0.194	-0.0850 (.36) P=0.311	0.0516 (.36) P=0.382	
Altruism Scale	-0.1245 (.36) P=0.235	-0.1254 (.36) P=0.233	0.1833 (.36) P=0.142	99.0000 (.36) P=*****	-0.3583 (.36) P=0.016	0.0753 (.36) P=0.331	-0.0352 (.36) P=0.419	-0.0753 (.36) P=0.331	-0.0270 (.36) P=0.438	-0.0180 (.36) P=0.459	
Purpose in Life	0.0495 (.36) P=0.387	0.0036 (.36) P=0.492	0.1279 (.36) P=0.229	99.0000 (.36) P=*****	-0.2070 (.36) P=0.113	0.2570 (.36) P=0.065	0.0238 (.36) P=0.445	-0.2570 (.36) P=0.065	0.0715 (.36) P=0.339	0.3791 (.36) P=0.011	
Empathy Scale	0.1407 (.36) P=0.207	-0.2403 (.36) P=0.079	-0.1281 (.36) P=0.228	99.0000 (.36) P=*****	-0.1388 (.36) P=0.210	0.3299 (.36) P=0.025	-0.2515 (.36) P=0.089	0.3299 (.36) P=0.025	0.0172 (.36) P=0.460	-0.0058 (.36) P=0.487	
Lie Scale	-0.2094 (.36) P=0.110	-0.0581 (.36) P=0.368	0.0353 (.36) P=0.419	99.0000 (.36) P=*****	0.0082 (.36) P=0.481	0.2906 (.36) P=0.043	-0.6086 (.36) P=0.000	0.2906 (.36) P=0.043	-0.2731 (.36) P=0.054	0.2025 (.36) P=0.118	
Occupational Self Scale	-0.1266 (.36) P=0.231	-0.0761 (.36) P=0.330	0.1098 (.36) P=0.252	99.0000 (.36) P=*****	-0.1184 (.36) P=0.246	0.0761 (.36) P=0.330	0.0773 (.36) P=0.327	0.0761 (.36) P=0.330	0.0024 (.36) P=0.494	0.2960 (.36) P=0.040	
Family Self	-0.1058 (.36) P=0.270	-0.1517 (.36) P=0.189	0.0374 (.36) P=0.414	99.0000 (.36) P=*****	-0.4347 (.36) P=0.004	0.1225 (.36) P=0.238	-0.0441 (.36) P=0.399	-0.1225 (.36) P=0.238	0.0013 (.36) P=0.497	-0.0501 (.36) P=0.386	
Past/Present/ Future	-0.0956 (.36) P=0.290	-0.0380 (.36) P=0.413	-0.0557 (.36) P=0.374	99.0000 (.36) P=*****	-0.2197 (.36) P=0.009	0.0173 (.36) P=0.460	-0.0191 (.36) P=0.456	-0.0173 (.36) P=0.460	0.0974 (.36) P=0.286	0.1686 (.36) P=0.163	

Table 9 (continued)

Revised Questionnaire Scale	16PF FACTORS									
	N	0	Q	Q ₂	Q ₃	Q ₄	Q _I	Q _{II}	Q _{III}	Q _{IV}
Social Self	0.1699 (.36) P=0.161	-0.1074 (.36) P=0.267	-0.1042 (.36) P=0.273	-0.0852 (.36) P=0.311	0.0824 (.36) P=0.316	-0.0322 (.36) P=0.426	0.1969 (.36) P=0.125	99.0000 (.36) P=*****	0.0452 (.36) P=0.397	0.2157 (.36) P=0.103
Religious Self	0.0586 (.36) P=0.367	-0.1653 (.36) P=0.168	-0.0293 (.36) P=0.433	-0.1309 (.36) P=0.223	-0.0941 (.36) P=0.293	0.3647 (.36) P=0.014	-0.2456 (.36) P=0.074	99.0000 (.36) P=*****	0.2134 (.36) P=0.106	0.0283 (.36) P=0.435
Masculine/ Feminine Self	0.0431 (.36) P=0.401	-0.0900 (.36) P=0.301	0.1345 (.36) P=0.217	-0.0588 (.36) P=0.367	0.0422 (.36) P=0.403	0.1527 (.36) P=0.187	-0.0700 (.36) P=0.342	99.0000 (.36) P=*****	-0.0802 (.36) P=0.321	-0.1929 (.36) P=0.130
Self Esteem	0.0796 (.36) P=0.322	-0.0586 (.36) P=0.367	-0.0163 (.36) P=0.462	-0.1678 (.36) P=0.164	0.2336 (.36) P=0.085	-0.2690 (.36) P=0.056	0.0424 (.36) P=0.403	99.0000 (.36) P=*****	-0.1608 (.36) P=0.174	0.0542 (.36) P=0.377
Body Self	0.1614 (.36) P=0.173	-0.0341 (.36) P=0.422	-0.1304 (.36) P=0.224	-0.1600 (.36) P=0.176	-0.0728 (.36) P=0.337	0.1272 (.36) P=0.230	-0.0959 (.36) P=0.289	99.0000 (.36) P=*****	0.2104 (.36) P=0.109	0.1917 (.36) P=0.131
Public Self	-0.0631 (.36) P=0.357	-0.1807 (.36) P=0.146	-0.0071 (.36) P=0.484	-0.3236 (.36) P=0.027	0.1737 (.36) P=0.156	0.2493 (.36) P=0.071	0.1001 (.36) P=0.281	99.0000 (.36) P=*****	0.0767 (.36) P=0.328	-0.0959 (.36) P=0.289
Altruism Scale	0.0016 (.36) P=0.496	-0.0540 (.36) P=0.377	-0.0169 (.36) P=0.461	-0.1980 (.36) P=0.124	0.0567 (.36) P=0.371	0.3580 (.36) P=0.016	-0.1043 (.36) P=0.272	99.0000 (.36) P=*****	0.3135 (.36) P=0.031	0.1332 (.36) P=0.219
Purpose in Life	-0.1195 (.36) P=0.244	-0.1506 (.36) P=0.190	-0.0516 (.36) P=0.382	-0.0104 (.36) P=0.476	-0.0886 (.36) P=0.304	0.2131 (.36) P=0.106	-0.1229 (.36) P=0.238	99.0000 (.36) P=*****	0.2701 (.36) P=0.056	0.2858 (.36) P=0.046
Empathy Scale	0.0854 (.36) P=0.310	-0.0175 (.36) P=0.460	0.3027 (.36) P=0.036	-0.2981 (.36) P=0.039	-0.1182 (.36) P=0.246	-0.0315 (.36) P=0.428	0.1176 (.36) P=0.247	99.0000 (.36) P=*****	0.0907 (.36) P=0.299	0.2126 (.36) P=0.107
Lie Scale	-0.1815 (.36) P=0.145	0.0060 (.36) P=0.486	-0.1321 (.36) P=0.221	-0.1191 (.36) P=0.244	0.1525 (.36) P=0.187	-0.1481 (.36) P=0.194	0.3252 (.36) P=0.026	99.0000 (.36) P=*****	0.0071 (.36) P=0.484	-0.0689 (.36) P=0.345
Occupational Self Scale	-0.1561 (.36) P=0.182	-0.2308 (.36) P=0.088	-0.0015 (.36) P=0.486	-0.1294 (.36) P=0.226	0.0511 (.36) P=0.384	0.0994 (.36) P=0.282	-0.0394 (.36) P=0.410	99.0000 (.36) P=*****	-0.0930 (.36) P=0.295	0.2649 (.36) P=0.059
Family Self	0.0896 (.36) P=0.302	-0.3015 (.36) P=0.037	0.0357 (.36) P=0.418	-0.1548 (.36) P=0.188	-0.0280 (.36) P=0.436	0.1288 (.36) P=0.227	0.1215 (.36) P=0.240	99.0000 (.36) P=*****	0.2663 (.36) P=0.058	-0.3801 (.36) P=0.011
Past/Present/ Future	0.0419 (.36) P=0.404	-0.2480 (.36) P=0.072	0.1764 (.36) P=0.152	-0.1290 (.36) P=0.227	-0.1255 (.36) P=0.233	0.3021 (.36) P=0.037	-0.0788 (.36) P=0.324	99.0000 (.36) P=*****	0.1187 (.36) P=0.245	0.3372 (.36) P=0.022

Note. A value of 99.0000 is printed if a coefficient cannot be computed.

a n = 36

Table 9a
Factor Adjectives of the 16PF and Abbreviations Used

Factor	Factor Adjectives (Bipolar)
A	Reserved/Outgoing
B	Less Intelligent/More Intelligent
C	Affected by Feelings/Emotionally Stable
E	Humble/Assertive
F	Sober/Happy-Go-Lucky
G	Expedient/Conscientious
H	Shy/Venturesome
I	Tough-Minded/Tender-Minded
L	Trusting/Suspicious
M	Practical/Imaginative
N	Forthright/Astute
O	Self-Assured/Apprehensive
Q ₁	Conservative/Experimenting
Q ₂	Group-Dependent/Self-Sufficient
Q ₃	Undisciplined Self-Conflict/Controlled
Q ₄	Relaxed/Tense
Q _{II}	Low/High Anxiety
Q _{III}	Tender-Minded Emotionality/Tough Poise
Q _{IV}	Subduedness/Independence

Descriptions of the 16PF Factors are in Table 3.

Table 10

Comparison of the Predicted and Actual Significant Correlations between the Revised Questionnaire and the Tennessee Self Concept Scale Counselling Form

Revised Questionnaire Scale	Predicted TSCS Subscales	Actual Correlated TSCS Subscales	r
Family Self	Family Self	Self Criticism	.31*
		Physical Self	.37*
		Family Self .35*	
Social Self	Social Self	Self Satisfaction	.30**
	Family Self	Distribution Scale	.33*
Religious Self	Moral-Ethical Self	Self Criticism	.34*
		Physical Self	.35*
		Moral-Ethical Self	.34*
		Personal Self	.30*
		Family Self	.35*
Occupational Self	Social Self	None	
Masculine/Feminine	Self Satisfaction	Social Self	.45**
	Physical Self		
Body Self	Physical Self	Self Esteem	.35*
		Physical Self	.41**
		Family Self	.44**
Past/Present/Future	None	Self Satisfaction	.31*
		Column Total	
		Variability Score	.33*
Public Self	Self-Satisfaction Self Esteem	Distribution	.24**
		Self-Esteem	.41**
		Self Satisfaction	.63**
		Physical Self	.44**
		Moral-Ethical Self	.21**
		Total Variability Score	.44**
		Raw Total Variability Score	.44*
Distribution	.40**		
Empathy	Moral-Ethical Self	Physical Self	.32*
		Moral-Ethical Self	.21*
		Personal Self	.30*
		Raw Total Variability Score	.35**

Table 10 (continued)

Revised Questionnaire Scale	Predicted TSCS Subscales	Actual Correlated TSCS Subscales	r
Self Esteem	Self Esteem Self Satisfaction	Self Esteem	.30*
		Self-Satisfaction	.31*
		Behaviour	.23**
		Physical Self	.31**
		Total Variability Score	.38**
		Raw Total Variability Score	.29*
		Distribution	.36*
Altruism	Moral-Ethical Self	Family Self	.37**
Purpose in Life	None	Identity	.33*
		Family Self	.35*
Lie	Self Criticism	Identity	.24**

Note.

^a $\bar{n} = 35$

* $\bar{p} < .05$

** $\bar{p} < .01$

TABLE 11
 COMPARISON OF THE PREDICTED AND ACTUAL SIGNIFICANT CORRELATIONS
 BETWEEN THE REVISED QUESTIONNAIRE AND THE SIXTEEN PERSONALITY FACTORS TEST

Revised Questionnaire Scale	16PF Predicted Factors	16PF Actual Correlated Factors	r
Family Self	I, O	F	-.43**
		O	-.30*
		Q _{IV}	-.38**
Social Self	A, H, Q ₂ , Q ₃	None	
Religious Self	C, G	Q ₄	.36**
Occupational Self	F	M	.30*
Masculine/Feminine	None	None	
Body Self	None	None	
Past/Present/Future	None	Q ₄	.30*
		Q _{IV}	.34*
Public Self	F, M	A	-.43**
		F	-.36*
Empathy Scale	C, I, Q _{III}	G	.33*
		I	.33*
		Q ₁	.30*
		Q ₂	-.39*
Self Esteem	Q ₃	None	
Altruism Scale	C, I, Q _{III}	F	-.36*
		Q ₄	.36*
		Q _{III}	.31*
Purpose in Life	None	M	.38**
		Q _{IV}	.29*
Lie Scale	None	G	.29*
		H	-.61**
		I	.29*
		Q _I	.33*

Note.

^a $\bar{n} = 36$

* $P < .05$

** $P < .01$

TABLE 12

FACTOR ANALYSIS WITH ITERATION
FAMILY SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF027	0.66159	1	4.54966	43.8	43.8
PRF024	0.39675	2	1.76875	17.0	60.8
PRF030	0.72509	3	0.85085	8.3	69.0
PRF010	0.59066	4	0.74659	7.2	76.2
PRF052	0.69793	5	0.57688	5.5	81.7
PRF015	0.44252	7	0.53444	5.1	86.9
PRF040	0.60606	8	0.43811	4.2	91.1
PRF074	0.52362	9	0.29266	2.8	93.9
PRF0126	0.76990	10	0.22861	2.2	96.1
PRF082	0.44862	11	0.17104	1.7	97.8
PRF0130	0.70518	12	0.14933	1.4	99.2
PRF0107	0.70088	13	0.09411	0.9	100.1
PRF0165	0.56373	14	0.02514	0.2	100.3
PRF0143	0.44291	15	0.02218	0.2	100.6
PRF0189	0.50046	16	0.00391	0.0	100.6
PRF0190	0.68775		-0.04197	-0.6	100.0

a n = 96

TABLE 13

FACTOR ANALYSIS WITH ITERATIONS
SOCIAL SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF040	0.71704	1	5.03339	46.5	46.5
PRF013	0.51558	2	1.39610	12.8	59.3
PRF0113	0.63427	3	0.56078	5.2	64.5
PRF025	0.73100	4	0.72130	6.7	71.2
PRF0167	0.74599	5	0.67851	6.3	77.5
PRF073	0.66935	6	0.44551	4.1	81.6
PRF0170	0.66047	7	0.42141	3.9	85.5
PRF094	0.56602	8	0.35175	3.2	88.7
PRF0172	0.59933	9	0.30091	2.8	91.5
PRF099	0.51345	10	0.15378	1.4	92.9
PRF0179	0.71186	11	0.13601	1.2	94.1
PRF0125	0.67140	12	0.10516	1.0	95.1
PRF0195	0.52444	13	0.06344	0.6	95.7
PRF0132	0.55014	14	0.03680	0.3	96.0
PRF0212	0.57669	15	0.00501	0.0	96.0
PRF0156	0.74562	16	-0.00360	0.0	100.0

a n = 96

TABLE 14
 FACTOR ANALYSIS WITH ITERATION
 RELIGIOUS SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF01	0.76749	1	4.53163	39.4	39.4
PRF012	0.58978	2	1.90320	16.5	55.9
PRF07	0.91890	3	1.14954	10.0	65.9
PRF037	0.62910	4	0.75789	6.6	72.5
PRF028	0.60390	5	0.69109	5.9	78.5
PRF038	0.51730	6	0.60692	5.3	83.8
PRF085	0.89883	7	0.49923	4.3	88.1
PRF049	0.76815	8	0.40803	3.6	91.7
PRF005	0.81595	9	0.31420	2.7	94.4
PRF055	0.73489	10	0.26752	2.3	96.7
PRF0114	0.99543	11	0.17815	1.5	98.3
PRF078	0.64339	12	0.11668	1.0	99.3
PRF0123	0.69486	13	0.08017	0.7	100.0
PRF006	0.53389	14	0.03020	0.3	100.0
PRF0211	0.63214	15	0.00621	0.1	100.0
PRF0171	0.83964	16	-0.03220	-0.3	100.0

a n = 96

TABLE 15
 FACTOR ANALYSIS WITH ITERATIONS
 OCCUPATIONAL SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF016	0.65655	1	4.26115	37.4	37.4
PRF020	0.60360	2	1.45602	12.9	50.2
PRF017	0.50852	3	1.13204	9.9	60.2
PRF032	0.75490	4	0.91787	8.1	68.3
PRF066	0.62296	5	0.74851	6.6	74.8
PRF053	0.72067	6	0.54437	4.8	79.6
PRF088	0.75425	7	0.51267	4.5	84.1
PRF0146	0.57450	8	0.44224	3.9	88.0
PRF0141	0.84199	9	0.37969	3.3	91.3
PRF0173	0.64190	10	0.33032	2.9	94.2
PRF0193	0.78230	11	0.23928	2.1	96.3
PRF0185	0.66271	12	0.15936	1.4	97.7
PRF0205	0.78119	13	0.12797	1.1	98.9
PRF0109	0.68797	14	0.09539	0.8	99.7
PRF0206	0.95494	15	0.03779	0.3	100.0
PRF0200	0.83986	16	-0.00413	0.0	100.0

a n = 96

TABLE 16
 FACTOR ANALYSIS WITH ITERATION
 MASCULINE/FEMININE SCALE

VARIABLE	COMMUNITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF011	0.67706	1	2.97929	28.0	28.0
PRF014	0.35598	2	1.64763	15.8	43.8
PRF018	0.75198	3	1.21981	11.7	55.4
PRF041	0.62064	4	0.92268	8.8	64.2
PRF031	0.56755	5	0.83947	8.0	72.3
PRF074	0.80273	6	0.67628	6.6	78.7
PRF058	0.75596	7	0.66183	6.3	85.1
PRF097	0.75019	8	0.48645	4.7	89.7
PRF084	0.86989	9	0.39065	3.7	93.4
PRF0118	0.82485	10	0.22002	2.1	95.5
PRF0106	0.30164	11	0.16692	1.6	97.1
PRF0128	0.52903	12	0.12395	1.2	98.3
PRF0110	0.62373	13	0.11125	1.1	99.4
PRF0147	0.60135	14	0.06142	0.6	100.0
PRF0160	0.73971	15	0.00669	0.1	100.0
PRF0191	0.80520	16	-0.00405	0.0	100.0

a n = 96

TABLE 17
 FACTOR ANALYSIS WITH ITERATIONS
 BODY SELF SCALE

VARIABLE	COMMUNITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF051	0.56285	1	3.41184	34.8	34.8
PRF014	0.46011	2	1.41252	14.4	49.2
PRF063	0.43587	3	1.01376	10.3	59.5
PRF057	0.70744	4	0.84801	8.6	68.1
PRF077	0.48107	5	0.59453	6.1	74.2
PRF0108	0.56452	6	0.51904	5.3	79.6
PRF091	0.71176	7	0.45654	4.7	84.2
PRF0119	0.61640	8	0.42016	4.3	88.5
PRF0116	0.62603	9	0.36984	3.8	92.3
PRF0131	0.62245	10	0.26611	2.7	95.0
PRF0121	0.65620	11	0.23433	2.4	97.4
PRF0140	0.61943	12	0.16448	1.7	99.1
PRF0183	0.60480	13	0.06504	0.7	99.7
PRF0181	0.67046	14	0.02270	0.2	100.0
PRF0188	0.67105	15	0.00654	0.1	100.0
PRF0197	0.81705	16	-0.00300	0.0	100.0

a n = 96

TABLE 18
FACTOR ANALYSIS WITH ITERATION
PAST/PRESENT/FUTURE SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF047	0.42607	1	2.56292	21.4	21.4
PRF02	0.53592	2	2.32353	19.3	40.8
PRF023	0.47947	3	1.61381	13.4	54.3
PRF073	0.46085	4	1.01388	8.4	62.8
PRF043	0.50265	5	0.88982	7.3	70.2
PRF042	0.74035	6	0.63723	5.3	76.0
PRF0117	0.71581	7	0.57795	4.7	81.3
PRF045	0.83158	8	0.42320	3.5	86.1
PRF08	0.51201	9	0.36528	3.0	89.7
PRF0142	0.86990	10	0.30067	2.5	92.7
PRF059	0.55749	11	0.21755	1.8	95.2
PRF0120	0.68390	12	0.19334	1.6	97.1
PRF0144	0.87471	13	0.10989	0.9	98.7
PRF0162	0.93465	14	0.03878	0.3	99.6
PRF0136	0.23279	15	0.00747	0.1	99.9
PRF0187	0.80459	16	0.00466	0.0	100.0
PRF0203	0.86538	17	-0.00251	0.0	100.0
PRF0151	0.44890	18			

a n = 96

TABLE 19
FACTOR ANALYSIS WITH ITERATION
PUBLIC SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF079	0.76276	1	4.11915	38.7	38.7
PRF081	0.77749	2	1.71078	16.1	54.8
PRF093	0.78719	3	0.84262	7.9	62.7
PRF086	0.67122	4	0.74926	7.0	69.8
PRF0111	0.58791	5	0.66566	6.3	76.0
PRF084	0.75836	6	0.57007	5.4	81.4
PRF0135	0.41490	7	0.48017	4.5	85.9
PRF0109	0.79539	8	0.40975	3.9	89.8
PRF0137	0.77763	9	0.39331	3.7	93.5
PRF0122	0.58473	10	0.27353	2.6	96.0
PRF0154	0.62755	11	0.17833	1.7	97.7
PRF0145	0.67720	12	0.11615	1.1	98.8
PRF0105	0.52035	13	0.08436	0.8	99.6
PRF0157	0.20536	14	0.03684	0.3	99.9
PRF0207	0.59348	15	0.00952	0.1	100.0
PRF0177	0.54128	16	-0.00331	0.0	100.0

a n = 96

TABLE 20
 FACTOR ANALYSIS WITH ITERATION
 EMPATHY SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF034	0.45209	1	3.16626	24.3	24.3
PRF050	0.56437	2	1.70898	13.1	37.5
PRF046	0.57924	3	1.65835	12.8	50.2
PRF060	0.66863	4	1.15783	9.0	59.1
PRF064	0.80340	5	1.02552	7.9	67.0
PRF065	0.82412	6	0.91615	7.2	73.9
PRF076	0.87562	7	0.75330	5.8	79.1
PRF092	0.88222	8	0.62217	4.8	83.9
PRF096	0.57004	9	0.45013	3.5	87.3
PRF0100	0.63820	10	0.40008	3.1	90.4
PRF0104	0.65453	11	0.32013	2.5	92.9
PRF0117	0.62301	12	0.24742	1.9	94.8
PRF0134	0.62673	13	0.18495	1.4	96.2
PRF0150	0.64886	14	0.18382	1.4	97.6
PRF0158	0.69229	15	0.15320	1.2	98.8
PRF0186	0.47701	16	0.08693	0.7	99.5
PRF0182	0.56144	17	0.04195	0.3	99.8
PRF0208	0.87338	18	0.02915	0.2	100.0
PRF0204	0.64566	19	0.00312	0.0	100.0
PRF0209	0.59009	20	-0.00461	0.0	100.0

a n = 96

TABLE 21
 FACTOR ANALYSIS WITH ITERATION
 SELF ESTEEM SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF0103	0.48602	1	4.23967	66.6	66.6
PRF0102	0.10028	2	0.64491	10.1	76.7
PRF0156	0.26310	3	0.44303	7.0	83.7
PRF0138	0.57034	4	0.40867	6.4	90.1
PRF0161	0.29914	5	0.27972	4.4	94.5
PRF0166	0.73224	6	0.20605	3.2	97.7
PRF0169	0.68772	7	0.09014	1.4	99.1
PRF0184	0.30324	8	0.04801	0.8	99.9
PRF0183	0.72615	9	0.00937	0.1	100.0
PRF0201	0.70572	10	-0.00249	0.0	100.0

a n = 96

TABLE 22
 FACTOR ANALYSIS WITH ITERATION
 ALTRUISM SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF03	0.66112	1	2.85839	33.3	33.3
PRF033	0.40469	2	1.18553	13.7	47.0
PRF056	0.67623	3	1.00770	11.8	58.8
PRF035	0.50252	4	0.75497	8.8	67.5
PRF061	0.71202	5	0.66708	7.8	75.3
PRF039	0.38580	6	0.59887	7.0	82.3
PRF0101	0.72714	7	0.40765	4.7	87.0
PRF042	0.61546	8	0.31701	3.7	90.7
PRF0149	0.59557	9	0.28000	3.3	94.0
PRF0120	0.39261	10	0.21305	2.5	96.5
PRF0164	0.85375	11	0.16121	1.9	98.3
PRF0150	0.68021	12	0.11207	1.3	99.6
PRF0192	0.71071	13	0.03549	0.4	100.0
PRF0168	0.68470	14	-0.00361	0.0	100.0

a n = 96

TABLE 23
 FACTOR ANALYSIS WITH ITERATION
 PURPOSE IN LIFE SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRF04	0.66396	1	4.18844	30.2	30.2
PRF021	0.53116	2	1.58498	11.6	41.6
PRF072	0.54602	3	1.17849	8.5	50.1
PRF048	0.80711	4	1.13316	8.2	58.3
PRF0105	0.70025	5	0.91671	6.6	64.9
PRF054	0.68391	6	0.90667	6.5	71.4
PRF0115	0.62739	7	0.78803	5.7	77.1
PRF067	0.76614	8	0.67958	4.9	82.0
PRF0124	0.61905	9	0.49904	3.6	85.6
PRF0163	0.72813	10	0.45317	3.3	88.8
PRF0127	0.50850	11	0.44313	3.2	92.0
PRF0174	0.50689	12	0.37502	2.7	94.4
PRF0152	0.55396	13	0.21392	1.5	95.9
PRF0175	0.76340	14	0.18818	1.4	97.3
PRF0153	0.87252	15	0.17221	1.2	98.5
PRF0178	0.72462	16	0.12911	0.9	99.4
PRF0180	0.72135	17	0.05307	0.4	99.8
PRF0168	0.80480	18	0.01769	0.1	99.9
PRF0202	0.72012	19	0.01186	0.1	100.0
PRF0210	0.61529	20	-0.00406	0.0	100.0

a n = 96

TABLE 24

FACTOR ANALYSIS WITH ITERATION
LIE SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
PRE05	0.49027	1	2.46208	20.7	20.7
PRE09	0.55826	2	1.57342	13.2	33.9
PRE08	0.67273	3	1.50918	12.7	46.5
PRE02	0.80549	4	1.10226	9.3	55.8
PRE09	0.70747	5	1.04975	8.8	64.8
PRE026	0.48905	6	0.78360	6.6	71.9
PRE044	0.61729	7	0.67870	5.7	76.1
PRE036	0.53731	8	0.62484	5.2	82.1
PRE068	0.84478	9	0.53750	4.5	86.9
PRE089	0.66738	10	0.39038	3.3	89.9
PRE071	0.76752	11	0.37769	3.2	93.1
PRE013	0.61472	12	0.32610	2.7	95.8
PRE015	0.84326	13	0.19602	1.6	97.4
PRE013	0.79995	14	0.16864	1.4	98.9
PRE043	0.58263	15	0.08765	0.7	99.6
PRE0146	0.58709	16	0.05126	0.4	100.0
PRE047	0.71816	17	0.00030	0.0	100.0
PRE0176	0.77833	18	-0.00327	0.0	100.0

a n = 96

TABLE 25
 VARIMAX ROTATED FACTOR MATRIX
 FAMILY SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PRFQ27	0.03095	0.60847	-0.15473	-0.29812	0.14164	0.05080	0.02484	-0.10888	0.21182	-0.05117
PRFQ30	-0.02743	-0.00410	-0.04454	-0.02576	-0.10045	0.60454	0.04848	-0.010234	-0.04428	-0.03344
PRFQ10	0.01132	-0.78315	-0.15797	0.01651	-0.01343	-0.04384	-0.12232	0.03897	-0.00958	-0.09155
PRFQ52	0.22373	-0.13232	-0.68352	0.13258	-0.01777	0.02773	-0.01759	0.17989	-0.02920	0.01398
PRFQ15	-0.05290	0.05750	-0.10259	-0.22958	0.70714	-0.21652	0.03908	-0.15209	-0.06020	0.03647
PRFQ24	0.57826	-0.01067	0.22368	0.15375	-0.11099	-0.00332	0.13413	0.157615	0.04453	0.03088
PRFQ126	0.79655	-0.12004	-0.16046	-0.05730	-0.24275	0.05483	-0.17518	0.08774	0.22453	0.05709
PRFQ130	-0.48373	-0.13524	0.15659	-0.07650	0.18247	0.03412	-0.00043	0.01509	-0.08075	0.02966
PRFQ107	0.60833	-0.28180	0.34011	0.14755	-0.05705	0.25450	-0.01418	0.02212	0.05233	0.01549
PRFQ165	-0.57915	0.20845	0.10774	-0.05805	0.06589	-0.06215	-0.00837	0.04746	-0.02698	0.08544
PRFQ143	0.72239	-0.02856	0.26166	0.19275	-0.11907	0.02624	0.13714	-0.13647	0.04141	0.02269
PRFQ189	0.03707	-0.06357	-0.03333	0.03007	0.02906	-0.08334	0.09704	-0.06835	-0.05137	0.02449
PRFQ190	0.41186	-0.12469	-0.10620	0.07296	0.02036	0.05332	0.63775	-0.09733	-0.02242	0.08255
	-0.08052	-0.10286	-0.06604	-0.19721	-0.04442	-0.12356	-0.05406	0.09022	0.55263	0.03330
			0.17109	-0.72830	-0.20052	-0.08166	-0.12406	0.18392	-0.11899	
PRFQ27	-0.06406	-0.06561	-0.11162	0.27208	-0.00351	-0.00090				
PRFQ6	-0.01310	0.04071	0.00245	-0.20293	0.00079	0.00030				
PRFQ30	0.08516	-0.05237	0.01302	0.10920	0.00635	0.00037				
PRFQ52	0.02619	-0.02656	0.17117	-0.00072	0.00612	-0.07248				
PRFQ15	-0.01439	-0.02287	-0.02409	0.01251	0.00160	0.00085				
PRFQ80	0.02271	-0.00614	0.02045	-0.00825	0.00134	-0.00043				
PRFQ24	-0.05038	-0.16011	-0.06545	-0.02074	-0.00638	0.00654				
PRFQ126	0.11000	0.00273	0.05453	-0.01589	-0.00028	0.07369				
PRFQ130	0.54215	0.55537	-0.05256	-0.02016	0.14391	-0.00116				
PRFQ107	-0.10060	-0.02175	-0.07626	-0.01716	0.00563	-0.00234				
PRFQ165	0.06291	0.10178	0.42041	-0.04407	0.00463	0.00330				
PRFQ143	-0.00483	-0.07385	-0.02161	0.01024	-0.00802	0.00104				
PRFQ189	0.11183	-0.00169	0.01458	0.00215	-0.00099	0.00026				
PRFQ190	-0.02823	-0.02607	-0.00859	-0.01744	0.00092	0.00004				
		0.04817	0.02990	-0.00807	-0.00241	-0.00042				

Note. Number of factors equal to the number of items.

a n = 96

TABLE 26
 VARIMAX ROTATED FACTOR MATRIX
 SOCIAL SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PRE040	0.10550	0.13072	0.14109	0.14264	-0.10377	-0.01130	0.71376	0.00519	-0.09366	0.01853
PRE013	-0.11223	-0.02440	-0.04455	-0.05094	-0.00774	0.09822	-0.15493	-0.00324	-0.00202	0.05433
PRE017	-0.23466	-0.03353	-0.06052	-0.05035	0.00574	0.07378	-0.01195	-0.10140	-0.00638	-0.18172
PRE025	0.76250	0.09948	-0.14765	-0.01639	0.22196	0.18678	-0.28211	-0.04452	-0.00211	0.06166
PRE016	-0.03041	-0.03041	-0.02542	-0.22055	-0.18988	-0.06785	0.14361	-0.11821	-0.21853	-0.08666
PRE017	-0.05839	0.26914	-0.10489	-0.04654	0.65944	0.08306	-0.11501	-0.11436	0.16269	-0.22114
PRE094	0.13878	-0.13878	0.14971	0.11114	-0.07083	0.06648	0.16490	-0.25201	0.11020	-0.07377
PRE017	-0.10505	-0.10505	-0.11806	-0.15957	0.14622	-0.12361	-0.10100	0.22493	0.05959	-0.03610
PRE099	0.58312	-0.04871	-0.18417	0.18527	0.10966	-0.03617	0.05680	0.01024	0.09963	0.22661
PRE017	-0.43875	-0.71634	-0.17348	-0.13125	0.29809	-0.07565	-0.19527	0.09446	0.11536	-0.07360
PRE0125	-0.11213	0.38823	0.19667	0.15372	-0.10067	-0.01804	-0.06741	-0.28584	0.05777	0.22661
PRE0194	-0.26452	-0.17000	-0.15981	0.01329	0.20160	-0.29124	0.09219	-0.05964	-0.07450	0.67711
PRE0132	-0.17296	-0.10654	-0.09523	0.67360	-0.00652	-0.09916	0.11995	-0.17684	0.12158	0.06660
PRE0132	-0.28671	-0.18979	-0.21579	-0.19870	0.10813	-0.16411	0.00857	0.64171	-0.25545	0.07400
PRE0156	-0.58981	0.36611	-0.46308	-0.45422	-0.26501	0.15949	0.00924	-0.01880	-0.15648	0.00810
			-0.06204	0.00453	0.17351	-0.04981	-0.04587	0.17633	0.28338	0.20445
PRE040	-0.27823	-0.18978	-0.00711	-0.00312	-0.00043	0.00136	0.00174	0.00136	0.00174	0.00136
PRE013	0.61898	0.09924	-0.00013	-0.00418	-0.00001	-0.00204	-0.00204	-0.00204	-0.00204	-0.00204
PRE025	0.01418	0.65887	0.01109	0.00994	0.00004	0.00220	0.00220	0.00220	0.00220	0.00220
PRE073	-0.00149	0.00003	-0.00827	-0.00275	-0.10045	-0.01319	-0.01319	-0.01319	-0.01319	-0.01319
PRE017	-0.12442	0.17471	-0.00054	0.01079	0.00389	-0.00039	-0.00039	-0.00039	-0.00039	-0.00039
PRE094	-0.00293	-0.15051	-0.01060	0.00015	0.00485	0.02804	0.02804	0.02804	0.02804	0.02804
PRE017	-0.10621	0.20784	-0.01060	0.00728	0.00288	-0.00213	-0.00213	-0.00213	-0.00213	-0.00213
PRE099	-0.08926	-0.08047	0.12680	0.05837	-0.10374	-0.01286	-0.01286	-0.01286	-0.01286	-0.01286
PRE0170	-0.11166	-0.07923	0.28341	-0.01584	-0.00183	-0.00143	-0.00143	-0.00143	-0.00143	-0.00143
PRE0125	0.09371	0.04544	0.00481	0.00882	0.00040	0.00010	0.00010	0.00010	0.00010	0.00010
PRE0106	-0.12332	0.00880	-0.00065	0.01154	0.00311	-0.02076	-0.02076	-0.02076	-0.02076	-0.02076
PRE0132	-0.02340	0.02685	-0.01361	0.01166	0.00185	-0.00064	-0.00064	-0.00064	-0.00064	-0.00064
PRE0212	0.18394	-0.18394	0.07862	-0.05974	-0.01420	0.13080	0.13080	0.13080	0.13080	0.13080
PRE0156	0.15901	0.12365	0.02064	-0.24761	0.00684	-0.00984	-0.00984	-0.00984	-0.00984	-0.00984

a n = 96

TABLE 27
 VARIMAX ROTATED FACTOR MATRIX
 RELIGIOUS SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PRF01	0.76481	-0.20258	-0.21305	0.12055	0.14036	0.05583	-0.01262	0.03328	0.18153	-0.10999
PRF02	-0.01436	-0.02911	0.01745	-0.10762	-0.05593	-0.02619	-0.11611	-0.24797	-0.00143	0.07045
PRF07	-0.75350	-0.04878	0.03810	0.19166	-0.23073	0.15279	-0.47810	-0.01354	-0.00399	0.07335
PRF037	-0.31883	0.34052	0.33843	-0.04429	-0.16779	0.18272	0.11807	0.08254	0.07435	-0.17000
PRF028	0.17346	0.01358	0.05788	0.13018	-0.73534	0.01477	0.04916	0.04714	-0.02884	0.00220
PRF038	0.08634	0.03873	0.02980	0.37526	-0.02207	0.06047	0.09388	-0.03873	0.07052	0.00344
PRF049	0.09149	0.42203	-0.21951	0.32815	0.36598	-0.12388	0.21553	0.16913	0.15756	0.05666
PRF095	0.01283	-0.52449	0.22178	0.21815	0.13760	-0.23212	-0.06416	0.26726	0.34962	0.00334
PRF055	0.21062	-0.14230	-0.08787	0.25186	0.19648	-0.07730	0.22544	0.02378	0.06438	0.00220
PRF0114	-0.17722	0.78405	0.14623	-0.17668	-0.00547	-0.14683	0.02737	-0.06113	0.02684	0.00344
PRF078	0.26165	-0.42171	-0.31455	0.40814	0.41368	-0.22285	0.12587	-0.18206	0.05934	0.00133
PRF0123	-0.07250	0.14577	0.76721	-0.08828	-0.05066	0.07704	-0.07403	0.02066	0.01612	0.00174
PRF090	0.15259	-0.00283	-0.15223	0.19747	0.05973	-0.12840	-0.07251	0.08034	0.14852	0.00174
PRF0211	0.12747	0.14323	0.08564	-0.06895	0.01411	-0.68471	-0.05276	-0.08099	0.05712	0.00234
PRF0171	0.02076	-0.01933	0.02926	0.02676	0.05744	-0.07959	-0.05931	-0.74703	-0.03991	0.00101
	-0.22257	0.17193	0.54128	0.02072	-0.17887	0.51052	-0.19885	0.04153	-0.15795	
PRF01	0.07325	-0.01176	0.03598	0.03100	0.00811	-0.06916				
PRF012	0.06020	0.03383	-0.00463	-0.00556	-0.00112	0.00177				
PRF037	-0.06933	-0.10231	0.01134	0.05678	-0.05064	0.10921				
PRF038	0.04445	0.40831	-0.01970	-0.02693	0.00124	-0.00124				
PRF049	0.02669	-0.02681	0.02135	0.01016	-0.00173	0.00010				
PRF095	0.00660	0.01187	0.00249	0.00935	0.00867	-0.00078				
PRF0114	-0.06672	-0.07818	0.00580	-0.00946	0.01155	-0.00225				
PRF055	0.05178	0.00904	0.03354	0.02496	0.00018	0.00082				
PRF078	-0.00927	0.04406	-0.04204	-0.02551	0.00341	0.00020				
PRF0123	0.04795	-0.07830	0.04805	0.03771	0.002612	-0.00030				
PRF090	-0.03044	-0.02759	-0.03666	0.01543	-0.00289	0.00028				
PRF0211	0.03154	0.02495	-0.01895	-0.01403	-0.00789	-0.00078				
PRF0171	0.03113	0.01704	0.01959	0.01425	-0.00186	0.00143				
		0.00862	0.004260	0.01660	-0.00340	-0.00018				
		0.00862	0.004260	0.01660	0.33476	-0.00234				

Note. Number of factors equal to the number of items.

a n = 96

TABLE 28
 VARIMAX ROTATED FACTOR MATRIX
 OCCUPATIONAL SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
PRE016	0.19389	0.09458	-0.07780	0.71211	-0.10235	-0.07469	-0.00111	-0.01461	0.17856	0.06775
PRE020	-0.07777	0.06294	-0.12931	-0.11631	-0.12636	-0.00870	-0.17082	-0.69726	-0.12169	0.09255
PRE017	0.00816	0.12688	-0.19807	0.11849	-0.05777	0.04185	-0.07682	-0.08263	-0.14415	-0.01555
PRE032	0.00394	-0.02225	0.77234	-0.07362	-0.01997	0.06240	-0.25225	-0.08263	-0.14860	0.05351
PRE066	0.03078	-0.00688	-0.15587	0.18584	-0.05510	-0.01311	-0.07724	-0.14075	-0.06132	0.00180
PRE053	-0.02081	-0.06088	0.23428	-0.03317	0.16919	0.10258	-0.07570	-0.18027	0.06376	0.00170
PRE0148	-0.18908	0.29313	-0.32943	0.23215	-0.07597	-0.02063	-0.05681	-0.21078	-0.20779	0.10967
PRE0149	-0.15445	-0.21451	0.22400	-0.25090	0.00575	0.17911	-0.25486	0.23312	-0.31898	0.01796
PRE0141	0.05475	0.34279	-0.22645	0.21437	0.00187	-0.23283	-0.01064	-0.16446	0.32239	0.07611
PRE0173	-0.01549	-0.06832	0.03439	0.05229	0.11394	0.17338	-0.00271	0.07741	0.00890	0.10491
PRE0193	0.13498	0.07892	-0.01991	-0.09234	-0.11334	-0.14041	-0.06772	-0.08269	0.00172	0.20313
PRE0185	-0.12806	-0.11955	-0.05165	-0.06880	0.04142	0.17458	-0.09339	-0.00837	-0.01468	-0.01796
PRE0205	0.24749	-0.20533	-0.04027	0.08709	-0.27150	-0.08890	-0.00676	-0.05670	0.00146	0.02025
PRE0199	-0.06832	-0.09113	-0.01375	-0.08709	0.07610	-0.04097	-0.00676	-0.19330	-0.21593	0.13418
PRE0206	0.85203	0.06164	0.07309	-0.30576	0.04614	-0.02753	-0.05072	0.03562	-0.04340	0.01182
PRE0200	-0.71984	-0.19894	0.13058	0.00727	0.23424	-0.26182	-0.00738	0.24272	-0.00957	-0.02026

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16
PRE016	0.06218	0.14990	0.07855	0.07926	-0.07207	-0.00048
PRE020	-0.03662	-0.09082	-0.05915	-0.06819	0.06369	0.00150
PRE017	0.11815	0.63766	-0.02021	-0.02877	-0.01871	-0.00128
PRE032	-0.12620	-0.13529	0.08016	-0.09587	0.07210	0.00331
PRE066	0.15280	-0.10957	0.11123	-0.07537	-0.04440	-0.00210
PRE053	-0.00678	-0.08670	-0.00313	0.02460	0.06939	-0.00062
PRE0148	-0.04755	-0.05897	-0.13720	-0.54606	-0.44371	0.00112
PRE0141	0.07745	-0.05956	-0.03720	-0.05145	0.00186	0.00186
PRE0173	-0.00780	-0.01440	0.00639	0.18317	-0.11887	-0.00287
PRE0193	0.14644	0.17659	0.10856	0.04035	0.00262	-0.00099
PRE0185	-0.05533	0.04376	-0.07618	0.09000	-0.06863	-0.00209
PRE0205	0.69884	0.21359	0.04547	-0.00910	0.05178	-0.00027
PRE0199	-0.15443	-0.06008	-0.00178	-0.02729	-0.01591	0.00007
PRE0206	0.24605	-0.00023	-0.15209	-0.02683	0.00348	0.00164
PRE0200	0.00384	-0.21472	0.06514	0.11270	-0.01549	0.09447

a n = 96

TABLE 29

VARIMAX ROTATED FACTOR MATRIX
MASCULINE/FEMININE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
PRF011	0.05416	0.01035	0.00727	0.27351	-0.03883	-0.06438	0.25709	-0.02031	0.69768	0.01
PRF014	-0.03254	0.14647	-0.01415	-0.03839	0.21510	-0.06551	-0.02571	0.09004	-0.05216	-0.08
PRF018	0.05457	-0.07880	0.10731	0.21039	0.02525	-0.02982	-0.74244	-0.11798	0.25302	0.12
PRF041	-0.07909	0.07161	0.09814	0.01833	0.72220	-0.16127	0.00494	0.04683	-0.25059	-0.01
PRF031	0.17042	0.09663	0.05421	0.03272	0.00058	-0.04730	0.18070	0.10358	0.06166	0.01
PRF074	-0.21862	-0.00340	-0.15013	-0.08416	0.20386	-0.077393	-0.03467	0.17108	-0.16166	0.01
PRF058	0.08054	0.00918	0.09267	0.78255	0.00719	-0.07194	0.18814	0.09240	0.05333	0.13
PRF084	-0.83009	-0.21179	-0.06953	-0.06550	0.38953	-0.07933	0.21106	0.30602	-0.23483	-0.01
PRF011R	0.21456	0.19087	-0.23454	-0.05177	-0.01786	-0.22802	0.06337	0.04113	0.03391	0.19
PRF0106	0.01808	0.06482	-0.05849	-0.02088	0.04884	0.16374	0.01364	0.20261	0.03411	0.12
PRF0128	-0.07166	0.63958	-0.00930	-0.00586	0.01744	0.09922	0.00574	-0.03225	-0.05229	0.05
PRF0110	0.16052	-0.22253	0.14533	-0.012819	0.03640	0.00847	-0.08438	0.07431	0.05190	0.06
PRF0147	0.02484	-0.07340	-0.00120	0.05623	-0.05432	0.00847	0.10358	0.00928	0.01103	0.13
PRF0160	-0.03949	-0.09734	-0.081503	0.07788	0.10347	0.11272	-0.107822	0.074186	-0.01760	0.00
PRF0191	-0.40709	0.63586	-0.037395	0.01297	0.17582	-0.09402	0.08660	0.00722	-0.00414	0.12
PRF011	0.08322	0.17897	0.01058	-0.04218	0.00442	-0.00252	0.25709	-0.02031	0.69768	0.01
PRF014	-0.50709	-0.00289	-0.04872	0.04689	-0.00379	0.00145	-0.02571	0.09004	-0.05216	-0.08
PRF018	0.01587	0.19990	0.00968	0.00350	0.00379	0.00196	-0.74244	-0.11798	0.25302	0.12
PRF041	0.21393	0.01596	0.08604	0.03741	-0.00835	0.00275	0.00494	0.04683	-0.25059	-0.01
PRF074	-0.01035	0.64119	0.23654	-0.00281	-0.00281	-0.00209	0.18070	0.10358	0.06166	0.01
PRF058	0.09607	-0.05073	0.18536	-0.05065	-0.00257	0.00209	-0.03467	0.17108	-0.16166	0.01
PRF084	-0.06607	0.02814	0.03358	0.05828	0.00125	-0.00225	0.03467	0.17108	-0.16166	0.01
PRF011R	0.34577	-0.21555	-0.26368	-0.02839	-0.00125	0.00225	0.01364	0.20261	0.03411	0.12
PRF0106	-0.05619	0.14522	0.05060	0.06426	0.00560	-0.01139	0.00574	-0.03225	-0.05229	0.05
PRF0128	0.39227	-0.13682	0.02402	-0.04854	-0.00224	0.01139	0.00574	-0.03225	-0.05229	0.05
PRF0106	-0.14592	0.07651	0.58887	0.00454	0.00115	-0.00046	0.00574	-0.03225	-0.05229	0.05
PRF0128	0.14592	0.07651	0.58887	0.00454	0.00115	-0.00046	0.00574	-0.03225	-0.05229	0.05
PRF0110	-0.10638	0.01878	0.00798	-0.00552	-0.00203	-0.00519	0.00574	-0.03225	-0.05229	0.05
PRF0147	0.09849	0.07908	-0.03216	0.03758	0.00074	0.00066	0.00574	-0.03225	-0.05229	0.05
PRF0160	-0.01475	0.04870	0.08201	-0.04729	-0.00206	0.00171	0.00574	-0.03225	-0.05229	0.05
PRF0191	0.00671	0.04570	0.05909	-0.03774	0.002570	0.13546	0.08660	0.00722	-0.00414	0.12

a n = 96

TABLE 30
 VARIMAX ROTATED FACTOR MATRIX
 BODY SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PRE051	0.08246	-0.05210	0.06171	-0.10543	-0.07252	-0.21043	-0.17839	0.04817	0.19414	0.14355
PRE019	0.04253	-0.14967	-0.07766	-0.04839	-0.07503	-0.23769	-0.01705	0.02515	-0.13664	-0.01477
PRE063	-0.01711	-0.00619	0.10980	-0.06083	0.08316	-0.00781	-0.00251	-0.04383	-0.17064	-0.02277
PRE057	0.06228	-0.04991	0.03597	0.04406	-0.23324	-0.00589	-0.05663	0.02145	-0.17698	-0.02335
PRE077	-0.06375	0.16125	0.04776	0.02000	-0.16151	-0.04524	0.02318	-0.02100	0.62441	-0.01689
PRE010R	-0.19375	-0.08628	-0.04314	0.16837	0.03425	-0.04063	0.10788	0.02100	-0.02478	-0.01737
PRE011R	-0.05210	0.06651	0.76881	0.06260	-0.14561	-0.01114	0.18599	-0.03837	0.05541	-0.01533
PRE011K	-0.15290	0.04821	0.06406	0.71993	-0.12222	-0.00743	-0.01692	-0.01799	0.01470	-0.00933
PRE011L	-0.28008	0.29089	-0.09004	-0.07078	-0.12272	-0.00893	-0.09760	0.02272	0.04246	-0.00667
PRE0131	0.77472	0.01232	0.03348	-0.03309	-0.12615	-0.01553	-0.14804	-0.14004	-0.03231	-0.00907
PRE0121	-0.18318	-0.00596	0.13262	-0.12384	0.65916	-0.08169	0.03039	0.03195	0.15295	-0.01282
PRE0140	-0.53030	-0.09431	-0.26908	0.32470	-0.09112	-0.10226	0.09584	-0.02679	-0.02695	0.01343
PRE0183	-0.07770	0.02565	0.14290	-0.00795	-0.01469	0.01139	0.74294	0.09101	0.02308	0.00166
PRE0181	-0.08976	-0.21882	-0.28112	-0.20899	-0.38676	0.34215	-0.13308	0.10155	-0.02951	-0.00879
PRE0188	-0.08497	0.69688	0.05061	0.06334	-0.00606	-0.16338	-0.13491	-0.10341	-0.14764	0.00661
PRE0197	-0.62664	-0.44684	-0.22798	0.28249	-0.10349	-0.08838	0.07839	-0.01489	-0.14361	0.00760
PRE051	0.62833	0.07421	-0.02962	-0.00268	-0.00081	0.00080	-0.00080	0.00080	0.00080	0.00080
PRE019	-0.13632	-0.07706	0.01554	-0.00745	0.00199	-0.00045	-0.00045	-0.00045	-0.00045	-0.00045
PRE063	0.08786	-0.02643	0.01038	0.00640	0.00147	0.00013	0.00013	0.00013	0.00013	0.00013
PRE077	0.15668	-0.01910	-0.28669	0.00879	-0.01897	-0.11245	-0.11245	-0.11245	-0.11245	-0.11245
PRE010R	0.09322	-0.01910	-0.02162	0.00044	-0.00219	-0.00035	-0.00035	-0.00035	-0.00035	-0.00035
PRE011R	0.05304	0.10007	0.00614	0.00203	-0.00067	0.00028	0.00028	0.00028	0.00028	0.00028
PRE011K	-0.08687	-0.04882	0.03858	-0.00780	-0.00329	-0.00101	-0.00101	-0.00101	-0.00101	-0.00101
PRE011L	0.12474	-0.02925	0.03213	-0.00222	0.00184	0.00032	0.00032	0.00032	0.00032	0.00032
PRE0121	0.07413	0.56111	-0.11229	-0.01556	-0.00162	-0.00141	-0.00141	-0.00141	-0.00141	-0.00141
PRE0140	-0.02957	-0.05094	0.11229	0.02215	-0.03098	-0.05386	-0.05386	-0.05386	-0.05386	-0.05386
PRE0183	0.03099	0.07673	-0.01067	-0.00576	-0.00223	0.00254	0.00254	0.00254	0.00254	0.00254
PRE0181	-0.17090	-0.18837	0.00878	0.26041	0.01417	0.00074	0.00074	0.00074	0.00074	0.00074
PRE0188	-0.14754	0.04157	-0.01178	0.00558	0.00164	0.00047	0.00047	0.00047	0.00047	0.00047
PRE0197	-0.04673	0.07606	0.43283	0.00496	0.00125	0.00287	0.00287	0.00287	0.00287	0.00287
PRE0197	-0.01172	-0.11482	-0.01760	-0.01637	0.01258	-0.00045	-0.00045	-0.00045	-0.00045	-0.00045
PRE0197	-0.01172	-0.05472	0.006610	-0.10624	0.17222	-0.00617	-0.00617	-0.00617	-0.00617	-0.00617

a n = 96

TABLE 31

VARI-MAX ROTATED FACTOR MATRIX
PAST/PRESENT/FUTURE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
PRFO47	0.11130	-0.02553	-0.00106	0.00169	0.13565	0.15699	0.03452	0.04263	0.05976	-0.02568
PRFO2	-0.32355	-0.25894	-0.01581	0.19222	-0.16047	0.00162	0.07892	0.04094	-0.22579	-0.01927
PRFO23	-0.03539	-0.00924	-0.03280	0.12578	0.01524	0.06935	0.10717	0.03523	0.06457	-0.00928
PRFO70	-0.00209	-0.05870	0.06217	0.18401	0.05124	0.00323	0.16366	0.00942	0.06341	0.02855
PRFO43	-0.15171	0.20420	0.32748	-0.13054	0.02750	0.08213	-0.15866	-0.11261	0.08878	0.10301
PRFO112	-0.34396	0.03012	-0.26775	-0.12093	0.35822	0.31416	-0.15594	0.24263	0.05247	0.01021
PRFO45	-0.07877	0.23619	0.16642	0.17946	0.02255	-0.04273	-0.10766	0.13399	0.05247	0.01021
PRFO89	-0.09855	-0.02464	0.08308	0.05166	0.02241	-0.04273	-0.10766	0.13399	0.05247	0.01021
PRFO142	-0.08429	0.02470	-0.02470	-0.01852	-0.03687	0.06753	0.12203	-0.12251	0.07347	0.01021
PRFO59	-0.00654	0.03711	-0.02770	0.08616	-0.00250	-0.06810	-0.03759	0.12924	0.09151	0.01021
PRFO120	-0.00950	0.23392	0.17425	0.03822	0.13336	0.01652	0.06776	0.10668	0.13414	0.01021
PRFO144	-0.81230	-0.01367	0.01145	0.73595	-0.01039	-0.01394	-0.05393	0.17755	0.15041	0.01021
PRFO162	0.00772	0.02523	-0.07581	0.32344	0.09053	0.10394	0.09866	0.17755	0.15041	0.01021
PRFO136	0.00376	0.84549	-0.11973	-0.06172	0.04959	0.14287	0.09866	0.17755	0.15041	0.01021
PRFO187	-0.42680	-0.09401	0.03988	-0.10876	0.03859	-0.04563	0.05418	0.00795	0.11007	0.01021
PRFO203	-0.00465	-0.84000	-0.18676	0.13337	-0.03988	-0.36951	0.46518	0.11744	0.26494	0.01021
PRFO151	-0.01311	-0.05862	0.05601	0.09561	-0.17345	-0.16282	0.02857	-0.09728	0.07777	0.01021
PRFO47	-0.01503	0.59017	-0.02849	0.01208	0.00358	0.00137	0.00196	-0.00088	0.00088	0.00088
PRFO2	0.10484	-0.01307	0.48842	-0.04687	0.00443	0.00902	0.04376	0.00254	0.00254	0.00254
PRFO70	0.15050	0.05754	-0.05328	0.00545	0.00327	0.00100	-0.00219	-0.00117	-0.00117	-0.00117
PRFO43	0.10170	-0.01238	-0.03623	0.00554	-0.01223	0.00054	0.00240	0.00055	0.00055	0.00055
PRFO112	0.00870	0.18871	0.39477	0.00873	0.01174	0.02422	0.12263	0.00201	0.00201	0.00201
PRFO45	0.12148	0.07192	-0.00963	0.43663	0.01328	0.00474	0.00366	0.00146	0.00146	0.00146
PRFO89	0.01054	-0.09625	0.03206	-0.04377	-0.00323	0.00140	0.00558	0.00078	0.00078	0.00078
PRFO142	0.03354	0.15788	0.02032	0.01567	-0.00323	-0.00016	0.00305	0.00144	0.00144	0.00144
PRFO59	0.04816	0.02109	-0.06383	0.00306	0.00331	0.00046	0.00760	0.00394	0.00394	0.00394
PRFO120	0.03882	-0.00924	0.05416	0.00322	-0.00068	0.00191	0.00293	0.00101	0.00101	0.00101
PRFO144	0.05083	-0.01996	0.04434	-0.01105	-0.00206	-0.00057	0.00048	0.00101	0.00101	0.00101
PRFO162	0.22612	0.10417	-0.07997	0.00705	0.04664	0.17245	-0.02048	0.00518	0.00518	0.00518
PRFO136	-0.14560	-0.14656	0.04782	0.00666	0.00471	0.02319	0.02886	0.08974	0.08974	0.08974
PRFO187	-0.10770	0.10770	-0.24436	0.00696	-0.00251	-0.00113	-0.00036	0.00113	0.00113	0.00113
PRFO203	-0.00064	0.04258	0.00856	0.00615	0.21802	0.02811	0.00132	-0.00431	-0.00431	-0.00431
PRFO151	-0.02462	-0.03984	-0.02012	0.02378	0.00129	-0.00238	0.01652	0.00085	0.00085	0.00085

a n = 96

TABLE 32
 VARIMAX ROTATED FACTOR MATRIX
 PUBLIC SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PREQ79	0.38229	-0.06419	-0.15427	0.32706	-0.05111	-0.06329	-0.07503	0.00048	0.67702	0.06144
PREQ81	0.02730	-0.62488	-0.34469	0.09239	-0.19002	-0.05118	-0.27387	0.08594	-0.18963	0.09769
PREQ93	0.20703	-0.07704	-0.08567	0.81332	-0.11395	-0.06586	-0.09382	0.03477	-0.17753	0.00883
PREQ96	-0.09374	0.17530	0.15023	-0.13212	0.73404	0.15014	0.14336	-0.05033	-0.02241	0.02223
PREQ111	-0.06336	-0.07546	-0.21718	-0.26864	0.06353	-0.16243	-0.10797	-0.00073	0.04754	0.01787
PREQ135	-0.02184	-0.14556	-0.31305	-0.22460	0.22460	0.47473	-0.21965	-0.03745	0.00603	0.01089
PREQ139	-0.20633	-0.16498	-0.04857	0.08260	-0.41768	-0.03126	-0.06666	-0.60709	-0.01510	-0.12477
PREQ137	0.63737	-0.16764	-0.13973	0.08530	0.21768	0.10690	-0.34506	0.45387	0.20971	0.15297
PREQ122	-0.09064	-0.17718	-0.06204	0.20793	-0.25617	0.13745	-0.04725	0.12814	-0.04199	0.13553
PREQ154	0.64909	0.00769	0.15602	-0.11907	-0.15268	0.15291	-0.06639	0.12167	-0.10459	0.02754
PREQ145	-0.06120	0.11804	0.76336	-0.08259	-0.13762	0.07991	-0.05753	-0.07059	0.16695	-0.02744
PREQ195	0.17807	0.09758	-0.01457	0.06819	0.00484	-0.11496	0.10080	-0.00514	-0.08739	0.00894
PREQ157	-0.11640	0.69309	-0.04443	-0.06819	0.08422	0.17368	0.07595	-0.19267	0.03361	0.06775
PREQ207	-0.15637	-0.17381	-0.32756	-0.01042	-0.08063	-0.14586	-0.07571	-0.19848	0.02954	0.04442
PREQ177	-0.02901	-0.13183	-0.05754	-0.02890	-0.10684	-0.17496	-0.10935	-0.05117	-0.03959	-0.15866
PREQ79	0.04029	0.02857	0.00039	-0.01302	-0.00635	0.00109	-0.00172	-0.00172	-0.00139	-0.00159
PREQ81	-0.10654	0.10163	0.11800	-0.09791	-0.21653	-0.02173	0.00177	0.00177	0.00177	0.00177
PREQ93	-0.06869	0.02208	-0.02378	-0.00541	0.00304	-0.00097	0.00097	0.00097	0.00097	0.00097
PREQ111	-0.05501	-0.00454	-0.01151	-0.00832	0.01034	-0.00385	-0.00385	-0.00385	-0.00385	-0.00385
PREQ135	0.20972	-0.00454	0.37449	-0.02279	0.04383	0.09512	0.09512	0.09512	0.09512	0.09512
PREQ137	-0.03056	-0.00593	-0.00316	0.01667	-0.01972	0.00083	0.00083	0.00083	0.00083	0.00083
PREQ109	0.08607	0.36379	-0.05319	0.27651	-0.04363	-0.00177	-0.00177	-0.00177	-0.00177	-0.00177
PREQ122	-0.05620	-0.01141	-0.02229	0.00356	0.01937	-0.00451	-0.00451	-0.00451	-0.00451	-0.00451
PREQ154	0.25846	-0.10629	-0.00284	-0.00356	0.00358	0.00172	0.00172	0.00172	0.00172	0.00172
PREQ145	-0.16012	-0.01176	0.02001	-0.01780	-0.05886	0.12398	0.12398	0.12398	0.12398	0.12398
PREQ195	-0.02363	-0.01296	0.01612	0.01120	-0.00314	-0.00472	-0.00472	-0.00472	-0.00472	-0.00472
PREQ157	-0.09200	-0.06530	-0.02507	-0.00662	0.00326	-0.00041	-0.00041	-0.00041	-0.00041	-0.00041
PREQ207	0.50507	0.01731	-0.03242	-0.00046	-0.00206	-0.01161	-0.01161	-0.01161	-0.01161	-0.01161
PREQ177	-0.06642	0.02087	-0.00057	-0.00472	-0.000174	-0.00139	-0.00139	-0.00139	-0.00139	-0.00139

a n = 96

TABLE 33

VARIANX ROTATED FACTOR MATRIX
EMPATHY SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PRF034	0.07751	-0.00908	0.04199	0.17971	-0.04963	0.03527	0.07947	0.08060	0.13400	0.0055
PRF050	0.03575	0.04650	0.06666	-0.09134	-0.00737	0.07183	0.04166	0.08494	0.03767	-0.0124
PRF060	0.06766	0.02664	0.04464	0.09217	0.03253	0.12819	-0.01655	0.04034	0.08294	-0.0024
PRF064	0.04487	0.03009	0.03301	0.07332	0.07501	-0.00652	0.05390	-0.10413	0.05538	-0.01147
PRF065	0.07607	0.11547	-0.03413	0.11213	-0.00984	0.06166	-0.02095	0.05055	0.08000	0.0022
PRF076	0.07868	0.03061	0.03239	0.10554	0.06374	-0.00893	0.03016	-0.20620	0.04138	0.0059
PRF092	0.00744	-0.04208	0.03406	0.02935	0.28322	0.19658	0.03067	0.00949	0.04130	0.0708
PRF0100	0.02426	0.05508	0.01203	-0.00715	0.15746	0.15746	0.18161	0.00705	0.16560	0.0148
PRF0104	0.03765	-0.09731	-0.05940	-0.13096	0.04180	0.05059	0.01772	0.00705	0.08298	0.0021
PRF0117	0.02094	0.01853	0.07403	0.47219	0.21649	0.08665	-0.07391	0.14927	0.01903	0.0021
PRF0134	0.02841	0.01945	0.01411	0.00771	0.16097	0.00018	0.20881	0.03705	0.13355	0.0191
PRF0158	0.01556	-0.02666	0.07867	0.00221	0.10551	0.26688	0.07367	0.09483	0.23580	0.0170
PRF0162	0.04579	0.00275	0.07987	0.15514	0.12364	0.26543	-0.15661	0.20926	0.13598	0.0170
PRF0182	0.08103	-0.16241	-0.08978	-0.00485	0.09722	0.03051	0.02826	0.08143	0.07418	0.0031
PRF0204	0.03236	-0.09133	-0.01618	0.05082	-0.07103	0.04660	0.09000	-0.1560	0.01180	0.0022
PRF0209	0.03387	0.08176	-0.04363	0.07534	0.07387	-0.00094	-0.14822	-0.05452	0.04726	0.0146
	0.04818	0.00374	0.02769	-0.02632	-0.00870	0.08524	-0.17475	0.20077	0.14257	0.0104
	0.05932	0.01176	0.01389	0.04821	0.05252	-0.00814	-0.06848	0.17118	0.15948	0.0100
						0.05558	0.01728	0.12181	0.08692	0.0100
PRF034	0.02070	0.61203	0.03051	0.02072	0.04068	0.01725	0.00252	0.00256	0.00079	0.0001
PRF050	0.00313	0.02769	-0.00165	-0.04432	0.05723	0.03569	0.00070	0.00584	0.00127	0.0000
PRF060	0.07201	0.20544	0.05242	-0.03348	-0.00805	0.01976	0.01122	-0.03085	-0.00166	0.0001
PRF064	0.04639	-0.06147	0.01552	-0.08552	0.03756	0.02643	-0.00303	-0.01583	-0.00074	0.0000
PRF076	0.05994	-0.01810	-0.03572	0.02540	0.11757	0.01660	-0.00730	0.07582	-0.00019	0.0000
PRF092	0.07741	0.20505	0.02660	-0.15318	-0.04247	0.10260	-0.03019	-0.00293	-0.00656	0.0086
PRF0100	0.12569	-0.00571	0.04394	-0.19159	0.06728	0.02671	0.09349	-0.11732	-0.11668	0.0001
PRF0104	0.15338	0.09401	0.01370	0.00103	0.04207	0.05850	0.03684	0.01921	-0.00073	0.0000
PRF0117	0.07723	0.02691	0.01591	0.09840	0.02586	0.02952	0.01580	0.00771	0.00047	0.0000
PRF0134	0.13355	0.04805	0.05118	0.10743	0.04260	0.06136	-0.08644	-0.31352	-0.00257	0.0000
PRF0158	0.06660	0.14224	0.04512	0.03952	0.48655	0.05905	0.01228	0.01273	-0.00329	0.0001
PRF0182	0.09340	0.08281	0.03774	-0.00696	0.09105	0.43007	-0.01776	0.02401	-0.00040	0.0001
PRF0204	0.13693	0.02045	0.07427	-0.06651	0.05048	0.00186	-0.03678	0.00141	0.00151	0.0000
PRF0209	0.06948	-0.02090	0.00899	0.14766	0.01724	-0.01599	0.00309	-0.00863	0.00124	0.0000
	0.01407	0.13650	-0.01640	-0.06688	0.02414	0.11560	0.03665	0.02251	0.01001	0.0000
	0.05571	0.17014	0.15544	-0.01738	0.07271	-0.02512	0.37901	0.04521	0.00247	0.0000
						0.03233	0.02726	-0.01426	-0.00098	0.0000

a n = 96

TABLE 34

VARIMAX ROTATED FACTOR MATRIX
SELF ESTEEM SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
PRF0103	0.16645	0.17554	-0.15131	0.27731	-0.05506	0.54270	-0.16087	0.03194	0.01101	0.002
PRF0102	-0.10214	-0.11733	0.07682	-0.01012	0.22083	-0.10096	0.56527	-0.02491	-0.00672	-0.007
PRF0155	-0.60529	-0.60667	-0.29204	-0.16845	-0.08528	0.24344	-0.15447	-0.12705	-0.02745	0.081
PRF0138	-0.19858	-0.19712	0.50701	-0.09802	-0.05754	-0.38931	0.40228	0.00981	0.00981	0.013
PRF0161	0.37571	0.28639	-0.04842	-0.35935	-0.06312	0.14502	-0.20423	0.00048	0.00048	0.001
PRF0166	-0.28888	-0.14456	0.53681	-0.27317	0.34780	-0.13913	0.07048	-0.00163	-0.00163	0.002
PRF0169	0.64851	0.14398	-0.27903	0.26678	-0.20219	0.16603	-0.16559	-0.02191	-0.01309	-0.029
PRF0194	-0.08827	-0.12434	0.08985	-0.01754	-0.65688	-0.01637	0.17248	-0.00989	-0.00049	0.001
PRF0184	0.25190	0.25222	-0.23457	0.68106	-0.01980	0.28069	0.02954	0.00123	-0.00224	0.001
PRF0201	-0.15023	-0.69360	0.12135	-0.24989	0.24704	-0.16263	0.19021	-0.00948	0.01043	0.025

a \bar{n} = 96

TABLE 35
 VARIMAX ROTATED FACTOR MATRIX
 ALTRUISM SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
PRF033	0.15763	0.13024	0.12982	-0.10106	-0.01205	-0.02708	0.74532	-0.00180	-0.06211	-0.14622
PRF056	-0.06569	-0.00600	0.01307	-0.06473	-0.15119	0.02932	-0.01017	0.12435	-0.11008	0.08222
PRF035	-0.01593	0.02078	0.14553	-0.03342	-0.08733	0.07504	-0.03083	0.07983	-0.15493	0.01666
PRF061	-0.11257	0.00613	-0.10762	0.15151	0.06563	-0.15368	-0.06343	-0.06689	-0.62052	-0.01077
PRF061	0.13899	0.08670	-0.07445	0.08149	-0.04699	0.02052	0.18626	-0.07115	-0.15468	0.03939
PRF0101	-0.10927	0.02971	-0.05165	0.06847	-0.02327	-0.01429	-0.10778	-0.01473	-0.07982	0.05558
PRF042	0.01752	0.00187	0.08758	0.02902	-0.03359	0.19562	0.14060	-0.08135	0.02856	0.01199
PRF0149	0.02553	-0.10280	-0.05930	0.19193	-0.16806	0.08658	0.10014	-0.06145	0.07635	0.01199
PRF0149	0.70207	0.00980	0.13055	-0.05294	-0.03354	0.00466	0.20630	0.03780	-0.10358	0.01199
PRF0129	0.03654	0.03868	-0.06622	-0.04643	-0.02165	-0.00391	0.05512	0.07660	-0.13683	0.01199
PRF0164	0.4410	0.18089	0.52068	0.03480	-0.02903	-0.06371	-0.05905	0.00494	-0.07148	0.01199
PRF0159	-0.09918	0.02389	0.03807	-0.07124	0.13661	-0.04526	-0.12769	0.22475	0.19344	0.01199
PRF0192	0.49381	0.45608	0.10933	-0.11593	-0.30061	0.02067	-0.03517	-0.09780	-0.14063	0.01199
PRF0168	-0.10108	-0.07947	-0.10213	0.16116	0.08341	-0.13011	-0.02391	-0.22655	0.09080	0.01199
PRF033	-0.01188	-0.08458	-0.00242	-0.00164	-0.00164	-0.00164	-0.00164	-0.00164	-0.00164	-0.00164
PRF056	0.57491	0.07604	0.00573	-0.00117	-0.00117	-0.00117	-0.00117	-0.00117	-0.00117	-0.00117
PRF035	0.13706	-0.09976	0.00270	-0.00230	-0.00230	-0.00230	-0.00230	-0.00230	-0.00230	-0.00230
PRF061	0.03880	-0.05831	-0.01156	0.00222	0.00222	0.00222	0.00222	0.00222	0.00222	0.00222
PRF0101	0.07121	-0.09856	0.02852	-0.00028	-0.00028	-0.00028	-0.00028	-0.00028	-0.00028	-0.00028
PRF042	0.00049	0.07022	-0.00778	0.00444	0.00444	0.00444	0.00444	0.00444	0.00444	0.00444
PRF0149	0.16703	0.12581	-0.01809	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050	0.00050
PRF0129	-0.07856	0.08051	0.02090	-0.00767	-0.00767	-0.00767	-0.00767	-0.00767	-0.00767	-0.00767
PRF0164	0.05955	0.60368	-0.00355	-0.00105	-0.00105	-0.00105	-0.00105	-0.00105	-0.00105	-0.00105
PRF0159	0.03669	-0.09185	0.08475	0.16817	0.16817	0.16817	0.16817	0.16817	0.16817	0.16817
PRF0192	-0.08095	0.07764	-0.01507	-0.00342	-0.00342	-0.00342	-0.00342	-0.00342	-0.00342	-0.00342
PRF0168	0.28952	-0.05810	0.29498	-0.01159	-0.01159	-0.01159	-0.01159	-0.01159	-0.01159	-0.01159
PRF0168	-0.05778	-0.05778	-0.01426	-0.00069	-0.00069	-0.00069	-0.00069	-0.00069	-0.00069	-0.00069

a n = 96

TABLE 36
VARIMAX ROTATED FACTOR MATRIX
PURPOSE IN LIFE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
PRFO4	0.06537	-0.12292	-0.13077	-0.01340	0.09051	-0.04557	-0.10073	-0.10548	0.72858	0.00000
PRFO21	-0.04411	0.04411	0.15212	0.08714	0.01427	-0.03344	-0.06933	0.02304	0.07934	0.00000
PRFO72	-0.04803	0.01834	0.03563	-0.03319	0.07697	-0.03606	-0.09796	0.02304	0.10973	0.00000
PRFO48	0.12069	0.15070	0.03080	0.07929	0.12633	0.11493	0.27774	-0.03541	-0.07770	0.00000
PRFO105	0.11649	0.00231	0.00702	0.09414	0.75721	-0.01894	0.37744	-0.01851	0.07415	0.00000
PRFO15	0.01004	0.05039	0.11250	0.20981	0.03026	-0.02914	0.74635	0.00794	-0.08970	0.00000
PRFO17	0.26808	0.01969	-0.13908	0.01865	0.02334	-0.08280	0.31905	0.02110	-0.18309	0.00000
PRFO124	0.12780	0.06888	0.02835	0.08069	-0.19418	0.04729	0.32044	0.06245	-0.12645	0.00000
PRFO163	0.22197	0.15481	0.46331	-0.13164	-0.02657	0.75396	-0.02388	0.02451	0.03846	0.00000
PRFO127	-0.00172	0.01534	-0.00406	0.02886	-0.11152	-0.00876	-0.05022	0.01784	0.11380	0.00000
PRFO174	0.05532	0.07154	0.05688	0.03815	-0.00209	-0.00846	-0.03282	0.01843	-0.13755	0.00000
PRFO152	-0.15247	-0.04514	-0.06518	0.08944	0.01216	0.11398	0.08846	0.18436	-0.02777	0.00000
PRFO175	0.15600	0.60608	-0.07143	-0.28141	-0.03873	-0.06687	-0.00115	-0.08495	-0.00420	0.00000
PRFO153	0.04523	0.08395	-0.13321	0.09404	-0.16648	-0.06020	-0.01488	0.15605	0.27812	0.00000
PRFO178	0.73852	-0.02941	-0.02666	0.09187	-0.19253	0.13621	-0.01385	-0.13445	0.09979	0.00000
PRFO180	-0.06776	0.12920	-0.03633	0.02778	0.38629	-0.20977	0.13531	0.07840	-0.09411	0.00000
PRFO189	-0.29956	0.28736	0.16933	0.05264	-0.04071	-0.25878	-0.07886	0.31821	-0.15342	0.00000
PRFO202	-0.12695	-0.01441	-0.18711	-0.06171	-0.00491	-0.26403	-0.00388	-0.07212	-0.04042	0.00000
PRFO210	0.71278	-0.18705	0.31094	-0.07737	-0.09957	-0.03753	-0.13344	-0.11740	-0.19365	0.00000
PRFO4	0.07292	-0.04333	0.14105	0.00927	0.15302	-0.05345	-0.02936	0.00429	0.00110	0.00000
PRFO21	-0.08554	0.03881	0.00172	-0.05829	-0.07637	0.00406	0.03207	-0.03383	0.00107	0.00000
PRFO72	0.09614	0.02157	0.69604	-0.10305	0.01662	0.01700	-0.00668	-0.00055	-0.00078	0.00000
PRFO48	0.08833	0.05100	0.04530	-0.11004	0.01662	0.12078	-0.00585	-0.00605	0.00055	0.00000
PRFO105	0.10057	0.15223	-0.05512	0.13987	0.02003	-0.04323	0.02602	-0.00094	-0.00050	0.00000
PRFO115	-0.17258	-0.03802	0.11913	0.00035	0.00988	0.10232	-0.01750	-0.00258	0.00081	0.00000
PRFO67	-0.10585	-0.03004	-0.05314	0.01036	0.65767	0.01411	0.01750	-0.00564	-0.00017	0.00000
PRFO124	-0.08284	-0.00911	-0.05899	0.06477	-0.05128	0.58966	0.05828	-0.00753	0.00017	0.00000
PRFO163	0.11307	0.04063	-0.02273	-0.12928	-0.05128	0.16233	-0.03438	-0.00084	-0.00013	0.00000
PRFO127	-0.03638	0.07490	0.01517	0.06100	0.15123	-0.10315	0.09680	0.23087	0.00909	0.00000
PRFO174	-0.05005	0.08928	0.00645	-0.00928	-0.15611	-0.00859	-0.00451	-0.01076	-0.00146	0.00000
PRFO152	0.13374	0.08223	-0.12759	0.65721	0.01286	0.05812	0.02333	0.01028	0.00446	0.00000
PRFO175	-0.00047	0.27113	-0.02751	-0.16288	0.07239	0.00651	0.02173	-0.00429	-0.00043	0.00000
PRFO153	0.79017	-0.05703	0.17594	0.19682	0.06206	0.08070	-0.07911	-0.00336	0.00078	0.00000
PRFO178	-0.10592	0.03714	-0.02357	-0.00934	0.19990	-0.04100	-0.02698	0.01591	-0.00032	0.00000
PRFO180	0.00114	-0.01711	-0.04497	0.10946	-0.03721	0.12553	-0.00685	0.02354	-0.13087	0.00000
PRFO189	-0.13466	0.03624	0.04367	-0.12185	0.03140	0.05115	-0.04306	0.01420	0.000514	0.00000
PRFO202	-0.15301	-0.00282	-0.10048	-0.05184	0.11817	-0.04580	-0.00235	0.00646	-0.00096	0.00000
PRFO210	0.03009	-0.05635	-0.07870	-0.13458	0.02675	-0.05368	0.05135	-0.01633	0.15875	0.00000

a n = 96

TABLE 37
 VARIMAX ROTATED FACTOR MATRIX
 LIE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
PRE05	0.06545	0.0551	-0.03421	0.02858	0.03980	-0.03181	-0.01214	-0.01804	0.11810	-0.01111
PRE09	0.27569	0.00440	0.01957	0.06807	0.38010	-0.28613	-0.14256	-0.12108	0.28942	-0.00999
PRE08	0.21170	0.07466	0.01441	0.05523	0.07004	-0.04366	-0.13092	-0.12562	0.19416	-0.00129
PRE029	0.07991	0.10302	-0.01055	0.11372	0.05403	0.06789	0.07872	-0.01391	0.09416	-0.00099
PRE026	0.20770	-0.63449	0.07732	-0.20384	-0.11139	-0.02147	0.06311	-0.06745	0.13872	-0.00099
PRE044	0.01757	-0.04456	0.09642	0.20466	0.13634	-0.05066	0.15816	-0.06817	0.17132	-0.00099
PRE038	0.03191	0.10578	-0.06104	0.10052	0.04031	0.08852	-0.08569	-0.03473	0.07061	-0.00099
PRE030	0.03849	0.05509	0.03471	0.02420	0.10573	0.05947	0.08362	0.06310	0.13926	-0.00099
PRE069	0.00320	-0.06662	0.01487	0.12438	-0.14577	0.23319	-0.08618	0.04819	0.10241	-0.00099
PRE071	0.14582	0.00807	0.07902	-0.09906	0.75516	0.03022	0.06586	0.04583	0.06147	-0.00099
PRE0133	0.04220	-0.07220	-0.02676	-0.04728	0.03744	-0.04507	-0.07331	0.00177	0.10133	-0.00099
PRE075	0.84707	0.08028	0.16079	0.06594	0.14330	-0.01003	-0.13990	0.07615	0.02308	-0.00099
PRE0139	0.40267	0.13994	0.54119	-0.14677	-0.14289	0.09201	-0.09355	0.27391	0.02415	-0.00099
PRE083	-0.02163	-0.13066	0.11822	-0.21729	0.06289	-0.04850	0.07788	0.16071	0.07580	-0.00099
PRE0146	0.08624	-0.00726	0.11844	0.16343	-0.06303	0.12559	0.03064	0.04106	0.07233	-0.00099
PRE087	0.22060	0.06045	0.10658	0.17298	0.03101	0.01253	-0.10153	0.04106	0.03324	-0.00099
PRE0176	0.05797	-0.04435	0.15666	0.79855	-0.05192	0.08689	-0.10153	0.16031	0.10204	-0.00099

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16	FACTOR 17	FACTOR 18
PRE05	0.04511	0.12521	0.63997	-0.08440	0.10270	-0.01208	-0.00052	0.00033
PRE09	0.04722	0.26172	0.14367	-0.11052	0.10469	0.01209	-0.00961	-0.00280
PRE08	0.08579	0.00051	-0.01532	0.06026	0.05392	0.01085	-0.03229	-0.01878
PRE029	0.10251	0.14391	0.01754	0.21723	0.07504	0.00345	-0.00039	0.00062
PRE026	0.04443	0.13262	0.15955	0.00211	-0.09747	-0.21190	0.06267	0.00001
PRE044	0.00062	-0.01613	0.08693	0.62350	0.00488	0.08266	0.00099	0.00004
PRE038	0.10979	-0.04882	0.12860	-0.18431	0.03120	-0.01109	0.00334	-0.00044
PRE069	0.73846	0.68319	0.12990	-0.01637	-0.09147	0.00773	-0.00161	-0.00028
PRE071	0.14189	0.01285	0.05488	0.00052	0.08808	-0.00137	0.00137	0.00000
PRE0133	0.27113	0.08540	0.04760	-0.05939	0.04973	0.00759	0.01344	0.00052
PRE075	0.05057	0.10096	-0.13993	0.02889	-0.11481	0.00515	-0.00147	-0.00022
PRE075	0.00332	0.04662	-0.06316	0.02829	0.03465	-0.00111	0.00396	0.00087
PRE0139	0.01585	-0.07073	0.24518	-0.02829	-0.11719	0.29922	0.00106	-0.01514
PRE0146	0.10809	-0.13540	0.15527	-0.15879	0.62054	0.01176	0.00042	-0.00011
PRE0176	-0.01201	0.02006	0.00808	-0.05977	0.05885	-0.04113	-0.00042	-0.00269
PRE0176	0.01908	0.08337	-0.02012	-0.08300	0.15760	0.00612	-0.00152	-0.00002
PRE0176	0.13201	-0.02232	0.03644	0.03205	0.17642	-0.00463	0.00066	-0.00046

a n = 96

TABLE 38
 VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
 FAMILY SELF SCALE

	FACTOR 1	FACTOR 2
PRF027	0.23381	-0.47373
PRF06	-0.13562	0.10804
PRF030	0.35825	-0.33487
PRF010	0.03200	0.54977
PRF052	0.33874	-0.30201
PRF015	-0.02543	0.40658
PRF080	0.78859	-0.24735
PRF024	-0.04727	0.57816
PRF0126	0.81295	0.12306
PRF082	-0.60733	0.44271
PRF0130	0.76344	0.02452
PRF0107	-0.67400	0.42009
PRF0165	0.58145	0.04945
PRF0143	0.00229	0.27852
PRF0189	0.54008	-0.11217
PRF0190	-0.21566	0.48388

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.28844	73.5	73.5
2	1.54400	26.5	100.0

^a $\bar{n} = 96$

TABLE 39
 VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
 SOCIAL SELF SCALE

	FACTOR 1	FACTOR 2
PRF040	-0.22500	0.43591
PRF013	-0.02258	-0.33557
PRF0113	-0.30346	-0.41533
PRF025	0.31028	-0.47438
PRF0167	-0.37536	0.62469
PRF073	0.52152	-0.22887
PRF0170	-0.54556	0.27356
PRF004	0.52048	-0.19343
PRF0172	-0.15850	0.55423
PRF099	0.67302	-0.22931
PRF0179	-0.45266	0.49104
PRF0125	0.58879	0.07060
PRF0196	-0.23724	0.48980
PRF0132	0.56556	-0.15616
PRF0212	-0.56223	0.37557
PRF0156	0.58122	-0.44753

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.73589	81.5	81.5
2	1.07517	18.5	100.0

^a $\bar{n} = 96$

TABLE 40
VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
RELIGIOUS SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3
PRF01	-0.22129	0.69650	0.03512
PRF012	-0.00061	-0.07076	-0.41710
PRF07	-0.04638	0.83576	-0.01901
PRF037	0.59489	-0.35667	-0.06299
PRF028	-0.08150	0.38356	0.25192
PRF038	0.20331	0.23092	0.08140
PRF085	-0.43258	0.39922	0.47377
PRF049	0.70944	0.16866	0.33372
PRF095	-0.19204	0.49119	0.49693
PRF055	-0.57946	-0.19613	-0.16087
PRF0114	-0.54272	-0.49422	-0.50055
PRF078	-0.51346	-0.17399	-0.07499
PRF0123	-0.17190	0.37030	0.32501
PRF090	0.44476	0.22364	-0.23501
PRF0211	0.02383	-0.01242	0.48168
PRF0171	0.70266	-0.16543	-0.04042

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.26157	62.9	62.9
2	1.65923	24.5	87.4
3	0.85743	12.6	100.0

a
n = 96

TABLE 41
VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
OCCUPATIONAL SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3
PRF016	0.54357	-0.10142	-0.16360
PRF020	-0.08701	0.51102	-0.16920
PRF017	0.17757	-0.25285	-0.23546
PRF032	-0.25116	0.64691	-0.09943
PRF066	0.38858	-0.37452	-0.06195
PRF053	-0.03357	0.60844	0.19220
PRF098	0.66767	-0.33322	0.02030
PRF0148	-0.43719	0.40541	0.19778
PRF0141	0.71341	-0.24718	-0.10052
PRF0173	0.09835	-0.08525	-0.37713
PRF0193	0.40592	-0.04964	-0.38316
PRF0185	-0.17550	-0.00110	0.39453
PRF0205	0.37189	-0.13281	-0.47882
PRF0199	-0.03649	0.26208	0.47256
PRF0206	-0.51603	0.13794	-0.45420
PRF0200	-0.36614	0.14357	0.57237

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.93659	67.6	67.6
2	1.10124	18.9	86.6
3	0.78175	13.4	100.0

a
n = 96

TABLE 42

VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
MASCULINE/FEMININE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3
PRFQ11	0.67873	-0.07805	-0.10150
PRFQ14	-0.05445	0.15444	0.47770
PRFQ18	0.60239	-0.24975	0.01640
PRFQ41	0.05093	0.07345	0.58445
PRFQ31	0.44012	0.01076	0.00870
PRFQ74	-0.19421	0.19282	0.39373
PRFQ58	0.59137	0.02050	-0.11584
PRFQ07	-0.00234	-0.01107	0.55328
PRFQ84	0.19099	-0.43900	-0.24677
PRFQ118	-0.26515	0.31993	0.53295
PRFQ106	0.15137	0.11622	0.00545
PRFQ128	0.13375	0.57701	0.18408
PRFQ110	-0.03944	-0.52644	-0.08167
PRFQ147	0.07677	0.06835	0.31048
PRFQ160	0.21658	-0.32468	0.05888
PRFQ191	-0.05236	0.65758	0.21396

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	2.59227	54.1	54.1
2	1.33776	27.9	82.0
3	0.86085	18.0	100.0

a $\underline{n} = 96$

TABLE 43

VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
BODY SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3
PRFQ51	0.05973	0.43132	-0.38876
PRFQ19	0.15847	-0.39899	0.10921
PRFQ63	-0.01191	0.26953	-0.01495
PRFQ57	0.67239	-0.09789	-0.07377
PRFQ77	-0.09443	0.44738	0.00032
PRFQ108	0.43318	-0.09351	0.13251
PRFQ01	-0.02420	0.48181	0.39375
PRFQ119	0.37035	-0.14762	0.17280
PRFQ116	-0.51434	0.12707	-0.06671
PRFQ131	0.66698	0.06680	-0.24527
PRFQ121	-0.29857	0.36470	0.07167
PRFQ140	0.58545	-0.08939	-0.09636
PRFQ183	-0.02267	0.04304	0.49940
PRFQ181	0.24175	-0.69661	-0.17712
PRFQ188	-0.25667	0.25431	0.08594
PRFQ197	0.68840	-0.28728	-0.15130

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.13576	62.9	62.9
2	1.15699	23.2	86.1
3	0.69124	13.9	100.0

a $\underline{n} = 96$

TABLE 44
 VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
 PAST/PRESENT/FUTURE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4
PRFQ47	-0.12005	0.15844	0.22115	0.06303
PRFQ2	0.37542	-0.20082	-0.02015	0.06588
PRFQ23	0.03414	-0.01293	0.35462	0.29173
PRFQ70	-0.02537	-0.02863	0.08021	0.44955
PRFQ43	0.46201	-0.00056	-0.16353	0.04555
PRFQ62	0.04229	-0.06325	0.69291	0.12738
PRFQ112	0.19956	0.54195	0.21905	0.04187
PRFQ45	0.46839	-0.00413	-0.05023	0.01945
PRFQ89	-0.01959	-0.17063	0.31089	0.13024
PRFQ142	-0.08788	-0.80507	-0.13398	0.00496
PRFQ59	0.47386	-0.00464	0.03999	0.13697
PRFQ120	0.05373	0.25170	0.50038	0.01531
PRFQ144	-0.10720	0.85449	0.00488	0.08925
PRFQ162	0.81030	0.09344	-0.00346	0.31375
PRFQ136	-0.20059	0.00689	0.31559	0.02332
PRFQ187	-0.02773	0.43340	-0.13354	0.74752
PRFQ203	0.73037	0.06965	-0.13540	0.05134
PRFQ151	-0.10253	-0.02324	0.30782	0.01354

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	2.29874	35.2	35.2
2	2.09289	32.0	67.3
3	1.30920	20.0	87.3
4	0.82941	12.7	100.0

a
 n = 96

TABLE 45
 VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
 PUBLIC SELF SCALE

	FACTOR 1	FACTOR 2
PRFQ79	-0.22491	0.64080
PRFQ81	-0.69119	0.03943
PRFQ93	-0.24647	-0.50303
PRFQ96	0.51877	-0.22218
PRFQ111	-0.17093	-0.57095
PRFQ98	0.68143	-0.24017
PRFQ135	-0.32284	-0.03303
PRFQ109	0.37253	-0.34074
PRFQ137	-0.12360	-0.72889
PRFQ122	0.52764	-0.10865
PRFQ154	-0.10285	0.60757
PRFQ145	0.50543	-0.16434
PRFQ195	0.11791	-0.34581
PRFQ157	-0.53133	-0.06450
PRFQ207	-0.51203	0.18774
PRFQ177	0.39924	-0.18311

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.78747	72.9	72.9
2	1.40902	27.1	100.0

a
 n = 96

VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
EMPATHY SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5
PRFQ34	0.21094	0.16278	0.01467	0.12451	0.08865
PRFQ50	0.27135	0.06375	0.04448	-0.17901	0.16932
PRFQ46	0.04698	0.24211	0.03139	0.24555	-0.29032
PRFQ60	-0.26134	0.25370	0.00491	0.05902	0.02950
PRFQ64	-0.01885	0.75907	0.12369	0.00296	0.03297
PRFQ65	-0.11177	0.10547	0.67446	0.08331	-0.13364
PRFQ76	0.11899	0.77333	-0.13764	-0.04354	0.08757
PRFQ92	0.57874	0.14705	0.03341	-0.11859	0.27373
PRFQ96	0.03678	-0.03518	0.05737	0.38997	-0.04800
PRFQ100	0.05579	-0.02587	-0.11415	0.07713	0.67356
PRFQ104	0.15666	0.53340	0.13583	0.04077	-0.18374
PRFQ117	0.22765	0.05963	0.00395	0.61799	0.25386
PRFQ134	0.55866	0.22924	0.00002	0.15620	0.08727
PRFQ150	0.67079	0.14138	0.00406	0.06107	-0.16370
PRFQ158	0.60708	-0.07328	0.00551	-0.02799	-0.10734
PRFQ186	-0.22599	0.13852	-0.28896	0.27264	0.07764
PRFQ182	-0.15924	0.11552	-0.21654	0.36918	-0.20832
PRFQ208	0.14431	0.08548	0.87328	-0.02338	0.01727
PRFQ204	0.34613	0.47145	0.04369	-0.05227	-0.21957
PRFQ209	0.41528	0.07062	0.20792	0.26278	0.12519

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	2.91744	38.7	38.7
2	1.46573	19.4	58.1
3	1.44718	19.2	77.3
4	0.91011	12.1	89.4
5	0.79757	10.6	100.0

a $\bar{n} = 96$

TABLE 47

VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
SELF ESTEEM SCALE

	FACTOR 1	FACTOR 2
PRFQ103	0.56952	-0.13768
PRFQ102	-0.19765	-0.43963
PRFQ155	0.81577	-0.35048
PRFQ139	-0.56805	-0.27074
PRFQ161	-0.58908	-0.18544
PRFQ166	-0.56868	-0.38905
PRFQ169	0.64674	-0.33709
PRFQ194	-0.08079	0.61358
PRFQ184	0.74452	-0.02075
PRFQ201	-0.56413	0.37484

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	4.05080	89.0	89.0
2	0.50157	11.0	100.0

a $\bar{n} = 96$

TABLE 48
VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
ALTRUISM SCALE

	FACTOR 1	FACTOR 2	FACTOR 3
PRFQ3	0.41402	-0.04613	0.12634
PRFQ33	-0.11634	0.41004	0.06599
PRFQ56	0.05066	-0.01330	0.51895
PRFQ35	-0.31921	0.12015	-0.12765
PRFQ61	0.38684	0.00204	0.44067
PRFQ39	-0.37231	0.04552	0.07237
PRFQ101	0.03926	-0.09522	0.57392
PRFQ42	0.01295	0.59179	-0.01769
PRFQ149	0.67231	-0.00863	0.02518
PRFQ129	0.00228	0.12321	-0.04576
PRFQ164	0.59046	-0.26299	0.21610
PRFQ159	-0.30232	0.49532	0.05873
PRFQ192	-0.43664	-0.34163	0.37719
PRFQ168	-0.15973	0.59507	-0.27358

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	2.54388	61.8	61.8
2	0.87309	21.2	83.1
3	0.69672	16.9	100.0

a
n = 96

TABLE 49
VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
PURPOSE IN LIFE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4
PRFQ4	-0.14778	-0.15079	-0.22454	0.35201
PRFQ21	-0.04628	0.46483	-0.10798	0.01527
PRFQ72	0.02750	-0.01087	-0.16584	0.31315
PRFQ48	0.01369	0.10215	0.71530	0.12208
PRFQ105	-0.57188	0.05139	0.12922	0.39931
PRFQ54	-0.01572	0.14291	0.56081	-0.15418
PRFQ115	0.03723	-0.26078	0.02875	0.55827
PRFQ67	0.34412	0.06104	0.61992	-0.13514
PRFQ124	0.15795	0.20425	0.11314	-0.10290
PRFQ163	0.28209	0.53550	0.09718	-0.06679
PRFQ127	-0.10788	0.07620	0.04646	0.29114
PRFQ174	0.21617	0.24058	0.30319	0.04324
PRFQ152	-0.29284	-0.20439	-0.02521	0.10276
PRFQ175	0.27244	0.10347	0.37757	-0.11709
PRFQ153	-0.08640	-0.43675	-0.02708	0.47612
PRFQ178	0.62179	0.07267	0.32258	-0.03320
PRFQ180	-0.34817	-0.49082	0.01197	0.17681
PRFQ198	0.47174	0.47353	0.19094	0.05216
PRFQ202	-0.09688	-0.59911	-0.16861	0.11769
PRFQ210	0.61539	0.32378	0.25947	0.08257

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	3.85804	56.7	56.7
2	1.27356	18.7	75.4
3	0.88567	13.0	88.4
4	0.79163	11.6	100.0

a
n = 96

TABLE 50
 VARIMAX ROTATED FACTOR MATRIX AND EIGENVALUES
 LIE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5
PRFQ5	-0.13325	0.05937	0.12689	0.49022	0.14486
PRFQ9	0.19499	-0.22733	-0.04944	-0.20668	0.29423
PRFOR	0.06905	-0.19271	0.54035	-0.07813	0.09455
PRFO22	-0.09933	-0.15610	-0.39471	-0.09461	0.40112
PRFO29	0.17711	-0.06914	0.51926	0.11020	0.07414
PRFO26	-0.04440	-0.21127	-0.22700	-0.11117	0.21905
PRFO44	-0.06542	0.43554	0.17493	-0.17595	-0.10782
PRFO36	-0.04807	0.06925	0.12614	-0.02863	-0.48934
PRFO68	-0.05877	0.60598	-0.14726	-0.09485	-0.15484
PRFO69	-0.03796	-0.13164	0.03547	0.05006	0.43758
PRFO71	0.19807	0.59711	0.14622	-0.00539	0.02862
PRFO133	-0.10450	0.04364	-0.13335	0.49749	-0.20290
PRFO75	0.61817	0.07575	0.17084	-0.21106	-0.15025
PRFO139	0.67738	-0.07669	0.15325	-0.08749	-0.09218
PRFOR3	0.27789	0.16198	-0.39603	0.46437	-0.11835
PRFO146	0.46734	0.07744	-0.04774	0.05811	-0.05822
PRFOR7	0.54418	0.10325	0.06455	0.16005	-0.03881
PRFO176	0.35072	0.37843	-0.36544	0.24595	0.07115

FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
1	2.12826	34.7	34.7
2	1.26162	20.6	55.3
3	1.19243	19.5	74.8
4	0.80258	13.1	87.9
5	0.74044	12.1	100.0

^a $\bar{n} = 96$

Table 51
Reliability Analysis for Cross-Validation

<u>Family Self Scale</u>		<u>Social Self Scale</u>		<u>Religious Self Scale</u>	
Mean = 72.05		Mean = 65.07		Mean = 70.76	
Variance = 155.25		Variance = 286.02		Variance = 181.94	
S.D. = 12.46		S.D. = 16.91		S.D. = 13.49	
Alpha = 0.86		Alpha = 0.92		Alpha = 0.84	
Variables = 16		Variables = 16		Variables = 16	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
68	0.58	61	0.73	369	0.66
57	0.77	339	0.48	288	0.66
291	0.63	66	0.80	76	0.61
73	0.77	139	0.68	311	0.54
318	0.69	87	0.46	320	0.63
262	0.39	370	0.78	371	0.66
235	0.76	127	0.72	293	0.36
213	0.46	360	0.75	340	0.06
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
327	0.16	226	0.23	263	0.18
282	0.40	91	0.75	48	0.71
203	-0.20	198	0.78	28	-0.30
128	0.59	134	0.71	186	0.37
52	0.69	212	0.56	319	0.63
101	0.58	308	0.75	155	0.64
137	0.55	266	0.61	169	0.26
238	0.37	83	0.58	110	0.47

Table 51 (continued)

<u>Occupational Self Scale</u>		<u>Masculine/Feminine Scale</u>		<u>Body Self Scale</u>	
Mean = 70.17		Mean = 75.71		Mean = 67.83	
Variance = 194.10		Variance = 62.81		Variance = 109.90	
S.D. = 13.93		S.D. = 7.93		S.D. = 10.48	
Alpha = 0.88		Alpha = 0.57		Alpha = 0.74	
Variables = 16		Variables = 16		Variables = 16	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
219	0.68	247	0.18	322	0.42
180	0.61	192	0.14	250	0.24
285	0.36	26	0.00	146	0.35
264	0.67	351	0.30	190	0.52
170	0.71	20	0.37	347	0.33
202	0.51	193	0.19	287	0.58
75	0.58	337	0.28	284	0.09
120	0.39	41	0.25	201	0.32
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
171	0.39	239	0.31	159	0.55
37	0.59	94	0.13	342	0.22
307	0.70	162	0.38	79	0.40
25	0.66	273	0.17	321	0.32
74	0.09	317	0.25	265	0.25
323	0.53	254	0.22	172	0.20
217	0.61	130	0.08	352	0.22
125	0.44	206	0.07	218	0.59

Table 51 (continued)

<u>Past/Present/Future Scale</u>					
Mean = 62.85					
Variance = 44.43					
S.D. = 6.67					
Alpha = 0.30					
Variables = 18					
Corrected Item-Total Correlations		Corrected Item-Total Correlations		Corrected Item-Total Correlations	
<u>Past Item</u>	<u>r</u>	<u>Present Item</u>	<u>r</u>	<u>Future Item</u>	<u>r</u>
167	0.23	354	0.24	117	-0.00
205	-0.12	108	0.30	363	0.15
367	0.03	183	0.11	261	0.01
124	-0.09	359	0.39	326	0.19
144	-0.07	109	0.08	196	-0.06
281	0.26	116	-0.12	60	0.04

Table 51 (continued)

<u>Public Self Scale</u>		<u>Empathy Scale</u>		<u>Self Esteem Scale</u>	
Mean = 71.49		Mean = 78.12		Mean = 44.49	
Variance = 107.11		Variance = 66.21		Variance = 88.71	
S.D. = 10.35		S.D. = 8.14		S.D. = 9.42	
Alpha = 0.78		Alpha = 0.38		Alpha = 0.85	
Variables = 16		Variables = 20		Variables = 10	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
97	0.68	14	-0.05	16	0.71
112	0.56	191	-0.11	33	0.74
356	0.29	257	0.22	56	0.80
166	0.26	131	0.12	38	0.58
194	0.34	302	0.20	304	0.71
62	0.38	13	0.07		
224	0.21	173	0.16		
204	0.55	71	0.04		
		277	-0.00		
		132	0.03		
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
24	0.21	316	0.06	40	0.43
328	0.37	365	0.02	195	0.64
272	0.52	279	0.25	244	0.63
366	0.44	15	0.02	207	0.39
289	0.54	175	0.22	67	0.39
153	0.62	314	0.08		
106	-0.39	27	0.04		
80	0.41	278	0.19		
		221	0.24		
		240	0.37		

Table 51 (continued)

<u>Altruism Scale</u>		<u>Purpose in Life Scale</u>		<u>Lie Scale</u>	
Mean = 65.17		Mean = 90.05		Mean = 71.27	
Variance = 74.75		Variance = 170.70		Variance = 83.85	
S.D. = 8.65		S.D. = 13.07		S.D. = 9.16	
Alpha = 0.77		Alpha = 0.81		Alpha = 0.62	
Variables = 14		Variables = 20		Variables = 18	
<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>		<u>Corrected Item-Total Correlations</u>	
<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>	<u>Positive Item</u>	<u>r</u>
335	0.32	348	0.69	313	0.04
331	0.53	187	0.02	303	0.37
333	0.30	233	0.52	46	0.08
59	0.35	345	0.53	78	-0.09
55	0.37	298	-0.70	231	-0.22
150	0.63	246	0.07	220	0.12
242	0.67	32	0.56	119	0.47
		104	0.37	3	0.16
		350	0.62	296	0.38
		148	0.60	174	0.27
				118	0.59
				77	0.23
<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>	<u>Negative Item</u>	<u>r</u>
2	0.33	138	0.28	276	0.42
18	0.37	168	0.38	149	0.34
9	0.26	330	0.65	99	0.07
69	0.35	253	0.58	8	0.49
256	0.14	63	0.26	243	0.09
35	0.40	85	0.55	163	0.41
64	0.46	81	0.58		
		343	0.50		
		222	0.81		
		334	0.44		

Note. Item numbers correspond with Appendix D.

^a $\underline{n} = 41$

TABLE 52
EIGENVALUES FOR CROSS-VALIDATION
FAMILY SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
Q57	0.98959	1	6.33483	51.9	51.9
Q68	0.79281	2	1.45869	11.9	63.8
Q73	0.86977	3	1.02950	8.4	72.2
Q213	0.82243	4	1.07022	8.7	80.9
Q235	0.86929	5	0.86336	7.0	87.9
Q262	0.61437	6	0.58177	4.7	92.6
Q291	0.85285	7	0.42139	3.4	96.0
Q318	0.98139	8	0.26971	2.2	98.2
Q52	0.91496	9	0.21931	1.8	100.0
Q101	0.89069	10	0.08982	0.7	100.7
Q128	0.74743	11	0.06756	0.5	101.2
Q137	0.70947	12	0.06147	0.5	101.7
Q203	0.48496	13	0.00842	0.1	101.8
Q238	0.57194	14	-0.03594	-0.3	101.5
Q282	0.72133	15	-0.04485	-0.4	101.1
Q327	0.69416	16	-0.05063	-0.4	100.7

a n = 96

TABLE 53
EIGENVALUES FOR CROSS-VALIDATION
SOCIAL SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
Q61	0.77695	1	7.90857	63.4	63.4
Q66	0.64813	2	1.38545	11.1	74.5
Q87	0.68218	3	0.94017	7.5	82.0
Q127	0.89956	4	0.78476	6.3	88.3
Q139	0.78957	5	0.48636	3.8	92.2
Q339	0.75362	6	0.35425	2.8	95.1
Q360	0.88694	7	0.28567	2.3	97.4
Q370	0.99999	8	0.22573	1.8	99.2
Q83	0.81486	9	0.16883	1.4	100.5
Q91	0.87427	10	0.07221	0.6	101.1
Q134	0.87721	11	0.06685	0.5	101.6
Q108	0.94758	12	0.00663	0.1	101.7
Q212	0.60504	13	-0.01312	-0.1	101.6
Q226	0.56144	14	-0.05033	-0.4	101.2
Q266	0.75903	15	-0.06511	-0.5	100.7
Q308	0.71984	16	-0.08277	-0.7	100.0

a n = 41

TABLE 54
EIGENVALUES FOR CROSS-VALIDATION
RELIGIOUS SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
Q7K	0.90080	1	5.47105	45.5	45.5
Q28R	0.75825	2	1.73367	14.4	60.0
Q293	0.82027	3	1.47721	12.3	72.3
Q311	0.87881	4	1.05278	8.8	81.0
Q320	0.70525	5	0.72393	6.0	87.0
Q340	0.70600	6	0.64059	5.3	92.4
Q369	0.91900	7	0.45740	3.8	96.2
Q371	0.76691	8	0.28571	2.4	98.5
Q2R	0.54491	9	0.20339	1.7	100.2
Q4R	0.98513	10	0.14980	1.2	101.5
Q110	0.76214	11	0.05439	0.5	102.1
Q155	0.84906	12	0.01859	0.2	102.3
Q169	0.72232	13	-0.00150	0.0	102.3
Q186	0.69904	14	-0.01572	-0.1	102.2
Q263	0.71320	15	-0.08712	-0.7	101.2
Q319	0.78867	16	-0.14742	-1.2	100.0

a n = 41

TABLE 55
EIGENVALUES FOR CROSS-VALIDATION
OCCUPATIONAL SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
Q75	0.80089	1	6.06614	45.6	45.6
Q120	0.90590	2	1.59137	12.0	57.6
Q170	0.99443	3	1.10564	8.3	65.9
Q180	0.91033	4	0.96286	7.2	73.2
Q202	0.68663	5	0.90293	6.8	79.9
Q219	0.85675	6	0.75076	5.6	85.6
Q244	0.87410	7	0.55254	4.2	89.7
Q285	0.70218	8	0.50769	3.8	93.6
Q25	0.76455	9	0.24612	1.9	95.4
Q37	0.97689	10	0.20609	1.6	97.0
Q74	0.49967	11	0.18088	1.4	98.3
Q125	0.95436	12	0.11391	0.9	99.2
Q171	0.70165	13	0.05595	0.4	99.6
Q217	0.90438	14	0.04193	0.3	99.9
Q307	0.80325	15	0.01447	0.1	100.0
Q323	0.86752	16	-0.00401	0.0	100.0

a n = 41

TABLE 56
EIGENVALUES FOR CROSS-VALIDATION
MASCULINE/FEMINE SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
020	0.77471	1	2.71542	23.1	23.1
026	0.75377	2	2.12628	18.1	41.1
041	0.88402	3	1.43832	12.0	53.0
0192	0.89038	4	1.23913	10.5	63.5
0247	0.86546	5	0.95115	8.0	71.5
0337	0.50465	6	0.62196	5.3	76.8
0351	0.99281	7	0.62359	5.3	82.1
0351	0.83474	8	0.55914	4.7	86.8
094	0.5790	9	0.43570	3.7	90.5
0130	0.81068	10	0.32617	2.8	93.3
0162	0.67975	11	0.24938	2.1	95.4
0206	0.54579	12	0.16638	1.4	96.8
0239	0.74420	13	0.13128	1.1	97.9
0254	0.67250	14	0.09957	0.8	98.7
0273	0.49555	15	0.00625	0.1	98.8
0317	0.64186	16	-0.03905	-0.3	98.5
					100.0
					100.0
					100.0

a n = 41

TABLE 57
EIGENVALUES FOR CROSS-VALIDATION
BODY SELF SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
0146	0.86827	1	3.79008	30.3	30.3
0190	0.81590	2	1.70395	13.6	43.9
0201	0.77357	3	1.58834	12.7	56.5
0250	0.88408	4	1.27320	10.2	66.7
0284	0.54579	5	0.63394	5.1	71.8
0287	0.98883	6	0.80983	6.5	78.3
0322	0.79493	7	0.61716	4.9	83.2
0347	0.91254	8	0.49451	3.9	87.1
079	0.70233	9	0.44190	3.5	90.6
0159	0.97524	10	0.37358	3.0	93.6
0172	0.82162	11	0.26125	2.1	95.7
0218	0.97185	12	0.17822	1.4	97.1
0265	0.49737	13	0.08703	0.7	97.8
0321	0.74948	14	0.06159	0.5	98.3
0342	0.48319	15	0.00657	0.1	98.4
0352	0.75066	16	-0.00381	-0.3	98.1
					100.0
					100.0
					100.0

a n = 41

TABLE 58
EIGENVALUES FOR CROSS-VALIDATION
PAST/PRESENT/FUTURE SCALE

VARIABLE	COMMUNITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
0124	0.82310	1	3.57362	24.6	24.6
0144	0.91777	2	2.16002	14.9	39.5
0167	0.99188	3	1.65677	11.4	50.9
0205	0.78266	4	1.52474	10.5	61.4
0281	0.74227	5	1.22382	8.4	69.8
0367	0.70402	6	1.05237	7.2	77.0
0108	0.96206	7	0.72688	5.0	82.0
0116	0.93259	8	0.68410	4.7	86.8
0183	0.76516	9	0.56745	3.9	90.7
0354	0.91310	10	0.48972	3.4	94.0
0359	0.77638	11	0.42005	2.9	96.9
060	0.72789	12	0.26033	1.8	98.7
0117	0.61538	13	0.16399	1.1	99.8
0196	0.77262	14	0.08547	0.6	100.4
0261	0.91189	15	0.04628	0.3	100.8
0326	0.78607	16	-0.00047	0.0	100.7
0363	0.84670	17	-0.04123	-0.3	100.5
		18	-0.06742	-0.5	100.0

a n = 41

TABLE 59
EIGENVALUES FOR CROSS-VALIDATION
PUBLIC SELF SCALE

VARIABLE	COMMUNITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
062	0.68548	1	4.35021	37.7	37.7
097	0.95300	2	1.82493	15.2	53.0
0112	0.69942	3	1.17866	10.2	63.2
0166	0.62506	4	1.05073	9.1	72.3
0194	0.91277	5	0.95041	8.2	80.5
0204	0.84118	6	0.65551	5.7	86.2
0224	0.72888	7	0.53032	4.6	90.8
0356	0.63131	8	0.49396	4.3	95.1
024	0.56439	9	0.27434	2.4	97.5
080	0.73011	10	0.22141	1.9	99.4
0106	0.50699	11	0.11504	1.0	100.4
0153	0.74699	12	0.07853	0.7	101.1
0272	0.77132	13	0.02889	0.3	101.4
0289	0.90023	14	0.00864	0.1	101.5
0328	0.74541	15	-0.00864	-0.1	101.4
0366	0.64397	16	-0.14244	-1.2	100.2

a n = 41

TABLE 60
EIGENVALUES FOR CROSS-VALIDATION
EMPATHY SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
013	0.85574	1	3.11011	21.0	21.0
014	0.58109	2	2.08520	14.1	35.1
071	0.75622	3	1.88730	12.8	47.9
0131	0.92248	4	1.61556	10.9	58.8
0132	0.84675	5	1.50997	10.2	69.0
0173	0.65511	6	1.11108	7.5	76.5
0191	0.75962	7	0.89906	6.1	82.6
0257	0.75600	8	0.78513	5.3	87.9
0277	0.58979	9	0.57036	3.9	91.8
0302	0.78919	10	0.45039	3.0	94.8
015	0.78710	11	0.38084	2.6	97.4
027	0.79722	12	0.27046	1.8	99.2
0175	0.78984	13	0.18479	1.2	100.5
0221	0.94545	14	0.08779	0.6	101.1
0240	0.62922	15	0.06391	0.4	101.5
0278	0.89712	16	0.01250	0.1	101.6
0279	0.77811	17	-0.00555	0.0	101.6
0314	0.69357	18	-0.04385	-0.3	101.3
0316	0.70222	19	-0.06252	-0.4	100.8
0365	0.70532	20	-0.12525	-0.8	100.0

a n = 41

TABLE 61
EIGENVALUES FOR CROSS-VALIDATION
SELF ESTEEM SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
016	0.77697	1	4.83039	63.3	63.3
038	0.90094	2	0.81089	10.6	73.9
056	0.75057	3	0.66351	8.7	82.6
0304	0.84027	4	0.57650	7.6	90.2
040	0.90363	5	0.37497	4.9	95.1
067	0.55994	6	0.15647	2.1	97.1
0195	0.57252	7	0.13661	1.8	98.9
0207	0.86620	8	0.07588	1.0	99.9
0244	0.58186	9	0.05667	0.7	100.6
	0.88324	10	-0.00226	0.0	100.6

a n = 41

TABLE 62
EIGENVALUES FOR CROSS-VALIDATION
ALTRUISM SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM FCT
055	0.83011	1	3.69654	34.4	34.4
059	0.99522	2	1.86437	17.4	51.8
0150	0.90913	3	1.33085	12.3	64.1
0242	0.89297	4	1.06455	9.9	74.0
0331	0.95925	5	0.75438	7.0	81.0
0333	0.81721	6	0.65083	6.1	87.1
0335	0.60382	7	0.52041	4.8	91.9
02	0.93724	8	0.37603	3.5	95.4
09	0.70709	9	0.29876	2.8	98.2
019	0.61578	10	0.25086	2.3	100.5
035	0.78682	11	0.14416	1.3	99.3
064	0.57744	12	0.04395	0.4	100.3
069	0.65016	13	0.00113	0.0	100.3
0256	0.43841	14	-0.03287	-0.3	100.0

a n = 41

TABLE 63
EIGENVALUES FOR CROSS-VALIDATION
PURPOSE IN LIFE SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAR	CUM PCT
032	0.75053	1	6.89058	45.7	45.7
0104	0.67257	2	1.81699	12.7	58.4
0148	0.94281	3	1.30628	8.7	67.1
0197	0.68952	4	1.06356	7.1	74.2
0233	0.82625	5	1.05241	7.0	81.2
0246	0.70377	6	0.74774	5.1	86.3
0298	0.64113	7	0.54552	3.6	89.9
0345	0.94856	8	0.46660	3.1	93.0
0348	0.91355	9	0.36739	2.3	95.3
0350	0.78161	10	0.34829	2.2	97.5
063	0.46916	11	0.23102	1.6	99.1
081	0.87464	12	0.23519	1.6	100.7
085	0.74796	13	0.18288	1.2	101.9
0138	0.73662	14	0.09706	0.6	102.5
0168	0.63860	15	0.00646	0.0	102.5
0222	0.67950	16	-0.02409	-0.2	102.3
0253	0.62115	17	-0.03786	-0.3	102.0
0330	0.88092	18	-0.08573	-0.6	101.4
0334	0.68662	19	-0.09801	-0.7	100.7
0343	0.62143	20	-0.12456	-0.8	100.0

a n = 41

TABLE 64
EIGENVALUES FOR CROSS-VALIDATION
LIE SCALE

VARIABLE	COMMUNALITY	FACTOR	EIGENVALUE	PCT OF VAP	CUM PCT
03	0.55775	1	3.30472	28.04	28.04
046	0.54435	2	1.74320	15.05	43.09
077	0.56679	3	1.45241	12.08	55.17
078	0.69305	4	1.36817	11.6	66.73
0118	0.85858	5	1.00024	8.0	74.73
0174	0.77152	6	0.81218	6.9	81.63
0220	0.64702	7	0.69984	5.9	87.53
0231	0.77779	8	0.45805	3.4	90.93
0296	0.51790	9	0.39225	3.0	93.93
0303	0.69904	10	0.35321	3.0	96.93
0313	0.97667	11	0.24895	2.1	99.04
08	0.50957	12	0.18718	1.6	100.64
099	0.90498	13	0.04542	0.4	101.04
0149	0.61061	14	0.00105	0.0	101.04
0163	0.60569	15	-0.06516	-0.6	100.44
0243	0.81140	16	-0.07764	-0.7	99.74
0276	0.55005	17	-0.12052	-1.0	98.74
	0.83041	18	-0.17299	-1.5	97.24

a n = 41

TABLE 65
 CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 FAMILY SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
057	0.50563	0.08803	0.34464	0.23236	0.44558	0.33128	0.30077	-0.03878	-0.03656	0.37711
068	0.76835	0.09714	0.20594	-0.07650	0.20045	0.13816	0.10890	-0.30843	-0.01416	0.00990
073	0.34691	0.42449	0.41721	0.27864	0.19632	0.32004	0.12977	-0.09007	-0.16888	0.00501
0213	0.78954	0.17653	0.00129	0.12535	-0.05282	0.03049	0.22343	-0.04819	-0.26029	0.00041
0235	0.30599	0.34538	0.53860	0.43066	0.20381	0.09585	0.20419	0.00007	0.08886	0.00749
0262	0.02046	0.08806	0.75709	0.05409	0.07019	0.29462	0.09052	0.12129	0.01737	0.00366
0291	0.30507	0.13086	0.30476	0.61810	0.10369	0.29564	0.04543	0.13027	0.01823	0.00733
0318	0.49439	0.12969	0.62202	0.29960	-0.10271	0.33092	-0.04574	0.09646	0.03401	0.00333
052	0.14643	0.74116	0.20082	0.20938	-0.05598	0.37076	0.27830	-0.12316	0.01823	0.00733
0101	0.13840	0.38571	0.08022	-0.05131	0.32614	0.33092	0.05889	0.14821	-0.01923	0.00252
0128	0.13681	0.03655	0.09286	0.04044	0.24722	0.10766	0.08455	0.26314	0.01133	0.00242
0137	0.37939	0.30795	0.16732	-0.04036	0.04470	0.05958	0.65123	0.10007	-0.04299	0.00188
0203	0.10277	-0.00196	0.00992	-0.12543	-0.11260	-0.02987	0.02477	-0.11817	-0.06558	0.00188
0238	0.13638	0.23389	0.08797	-0.01682	0.16519	0.08079	0.06209	-0.06501	0.17321	0.00041
0282	0.05110	0.13482	0.11222	-0.04113	0.77509	0.17085	0.03260	0.17486	-0.00080	0.00080
0327	-0.02031	0.06121	0.06578	0.81611	0.00791	-0.06962	-0.00703	-0.04551	0.19820	0.00028
1										
	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16				
057	0.05056	0.04770	0.05454	0.05174	0.00396	-0.00020				
068	0.01308	0.00644	0.02007	-0.03047	0.25016	-0.00237				
073	0.01944	0.00858	0.00430	0.03492	0.00470	0.00296				
0213	0.01926	-0.04785	-0.04147	0.31344	-0.16103	-0.00153				
0235	-0.00684	0.00241	-0.03454	-0.02221	-0.02705	-0.00470				
0291	0.00657	0.32922	0.06508	-0.03861	0.01314	0.00072				
0318	0.06041	0.07736	0.34135	0.03857	0.07930	0.00331				
052	0.01983	0.10205	0.06787	-0.05632	0.00939	0.00456				
0128	-0.04452	-0.04369	-0.01601	0.01135	-0.01068	0.11054				
0137	0.01442	-0.00375	-0.02774	0.06072	0.01700	-0.00403				
0203	0.01175	-0.00864	-0.00772	0.01649	0.00708	-0.00721				
0238	-0.00849	0.01088	-0.00168	-0.00547	0.00126	-0.00174				
0282	0.01348	0.00760	-0.00703	-0.00021	0.00227	0.00150				
0327	0.01172	-0.04966	-0.00612	-0.01103	0.01119	-0.00187				
			-0.00115	-0.00494	-0.01355	0.00133				

Note. Factors equal to number of items.

a n = 41

TABLE 66

CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 SOCIAL SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
061	0.21969	0.34047	0.33324	0.23684	0.32184	0.19734	0.12100	0.52205	0.09982	0.03210
066	0.27925	0.20836	0.42575	0.53433	0.08667	0.34572	0.16402	0.30356	0.20239	0.03696
087	0.13158	0.17088	0.13696	0.15424	0.02841	0.76404	0.06012	0.05822	0.07039	0.02373
0127	0.28995	0.22556	0.07122	0.31050	0.07466	0.04664	0.27145	0.12813	0.08355	0.04609
0139	0.74056	0.26157	0.07533	0.20471	0.06267	0.11483	0.16591	0.04062	0.12120	0.05266
0360	0.79818	0.10852	0.15452	0.02417	0.19375	0.10974	0.02700	0.05447	0.02408	0.03123
0370	0.42509	0.22157	0.49824	0.08320	0.31165	0.34083	0.10555	0.08089	0.05694	0.03446
083	0.29509	0.36938	0.50915	0.16641	0.38340	0.10699	0.14662	0.17185	0.05260	0.03467
091	0.13923	0.19675	0.02144	0.78556	0.02167	0.16226	0.24255	0.05875	0.01930	0.00004
0134	0.15268	0.59670	0.29545	0.16773	0.19566	0.37263	0.28209	0.16562	0.13370	0.02359
0198	0.33125	0.78451	0.13859	0.22372	0.15603	0.20147	0.02799	0.09046	0.10444	0.04550
0212	0.64444	0.40724	0.24886	0.22903	0.04143	0.23377	0.09846	0.09046	0.06444	0.04550
0226	0.15984	0.09539	0.14921	0.35238	0.02184	0.21072	0.09797	0.20166	0.04727	0.03034
0266	0.10129	0.07683	0.72683	0.00089	0.01989	0.08949	0.06746	0.05098	0.03701	0.01501
0308	0.54327	0.00265	0.11879	0.17516	0.39481	0.01689	0.40776	0.05098	0.02631	0.00024
	0.47879	0.29737	0.00380	0.35421	0.22287	-0.22302	0.25743	0.13309	0.07855	0.06683

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16
061	0.04882	0.04156	0.02155	0.01828	-0.00243	0.00183
066	0.01621	-0.01317	-0.10247	0.05403	0.21821	0.04146
087	0.01676	0.01392	-0.00103	0.01102	0.00291	0.00149
0127	0.01493	0.02303	-0.00655	0.01576	0.00241	0.00241
0139	0.06574	0.13221	-0.01639	0.07128	0.03243	0.17748
0339	-0.01562	-0.06933	-0.01313	-0.06055	-0.01417	0.10641
0360	-0.02016	0.01298	0.02806	0.02789	0.01404	-0.00896
083	0.05836	0.02823	0.03548	0.00224	0.01174	0.00715
091	0.05836	0.33965	0.02095	0.01041	-0.00551	-0.00116
0134	0.01030	-0.04500	-0.00912	0.01564	0.00171	0.01883
0198	0.37063	0.04786	0.07004	0.01564	0.00332	0.00171
0212	0.01798	0.02404	-0.01506	0.05246	0.01284	-0.01278
0226	0.01955	0.01676	-0.00718	-0.01161	0.00602	0.00602
0266	-0.02405	0.02385	0.00718	-0.00063	-0.01776	0.00458
0308	0.04808	0.02385	0.28596	0.03185	-0.00260	-0.00228
	0.09808	0.01864	0.03821	0.25680	-0.02051	0.02409

Note. Factors equal to number of items.

a n = 41

TABLE 67
 CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 RELIGIOUS SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
0274	0.23137	0.83649	0.06935	0.08816	0.17944	0.04224	0.19793	0.18230	0.06734	0.07672
0288	0.44701	0.49458	0.15877	0.29072	0.03205	0.13109	0.01793	0.10774	0.05449	0.11034
0293	0.01732	0.05667	0.08961	0.04535	-0.02379	0.05358	0.04272	0.10375	-0.04185	-0.06236
0311	0.86869	0.17515	0.05017	0.22156	-0.03758	-0.11429	0.04323	0.08947	0.01251	-0.01893
0320	0.37374	0.26455	0.04736	0.06706	0.12889	0.16473	-0.04447	0.08225	0.01491	0.04772
0340	-0.01200	0.10802	0.00105	0.04986	-0.12155	-0.05675	0.79082	0.18500	0.01183	0.00071
0369	0.39754	0.03844	0.03844	0.15312	0.08082	0.08082	0.00222	0.21686	0.01926	0.07722
0371	0.27482	0.65085	0.28493	0.21811	0.14642	-0.06581	-0.00477	0.11092	-0.01001	0.03837
0388	-0.01025	-0.18112	-0.15571	-0.01783	-0.01877	0.04006	-0.21278	-0.65246	0.01150	-0.03294
0398	0.27615	0.22404	0.65623	0.10626	0.41996	0.26446	0.01445	0.22229	0.04666	0.03368
0110	0.11622	0.17753	0.11871	0.21014	0.77771	0.14913	-0.13920	0.01187	0.10037	0.04367
0155	0.11689	0.23048	0.20381	0.73054	0.31593	0.13600	0.08644	0.08559	0.15549	0.09654
0169	-0.01335	0.01570	0.16484	0.74156	0.15605	0.16725	-0.0185	0.08559	0.12012	0.02000
0186	0.46350	0.04825	-0.02032	0.75338	0.05551	0.18423	0.05163	-0.02425	-0.12892	0.09493
0263	-0.15063	0.04875	-0.15621	-0.15188	0.18449	-0.23630	0.37992	0.24731	0.18892	0.02463
0319	0.78922	0.15870	0.15960	-0.03750	0.21405	0.07060	-0.03458	-0.08487	0.15082	-0.04632

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16
0275	0.01782	-0.02162	-0.13106	-0.01182	0.00680	0.00071
0288	0.39746	-0.01766	-0.00811	-0.02116	-0.00096	0.00073
0293	0.03258	-0.03434	-0.01997	-0.03280	0.00038	0.00093
0310	-0.05437	-0.08272	0.08293	-0.04327	0.01108	-0.04377
0324	0.00390	-0.00067	0.05488	-0.26832	0.00547	-0.00098
0339	0.02338	-0.00067	-0.00152	-0.00808	-0.00089	-0.00040
0371	-0.01947	-0.00739	-0.02066	0.04024	-0.00804	0.00105
0388	-0.04449	-0.00955	-0.07648	-0.06186	-0.00085	-0.00113
0110	-0.00740	0.02792	0.07396	-0.03798	-0.01563	-0.00164
0155	0.00186	0.00217	0.00396	0.01423	-0.00223	0.00091
0169	0.02187	0.08696	-0.00067	0.03233	0.15583	-0.00082
0186	-0.04131	0.01284	-0.00626	0.01118	0.00143	0.00087
0263	0.01585	-0.00703	0.00074	-0.01111	-0.00364	-0.00009
0319	-0.05887	0.13033	-0.05915	0.05822	-0.00572	0.04773

a n = 41

TABLE 68

CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 OCCUPATIONAL SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
G75	0.26893	0.69403	0.13176	0.07205	-0.04276	0.16250	0.12818	0.08286	0.22937	0.133
G170	0.08875	0.32599	0.82330	-0.00359	0.02347	0.02851	0.06102	-0.04087	0.10347	-0.0133
G180	0.20506	0.17946	0.16348	0.27308	0.02376	0.01659	0.11808	0.04087	0.02302	0.093
G202	0.38172	0.85750	0.16643	0.14947	0.10632	0.06988	0.06999	0.18042	0.04021	0.092
G264	0.75443	0.05381	0.12069	0.21226	0.26162	0.51746	0.15358	0.02979	0.01021	0.079
G285	0.36601	0.24127	0.13619	0.09533	0.19786	0.08165	0.02972	0.06113	0.23443	0.079
G37	0.30279	0.24316	0.03238	0.13013	0.18869	-0.08984	0.14745	0.48512	0.02068	0.051
G125	0.35680	0.12253	0.01481	0.59550	0.27879	-0.26194	-0.03094	0.20986	0.08235	0.102
G217	0.16704	0.25690	0.10730	0.23365	0.20045	-0.04394	0.34179	0.25686	0.09341	0.081
G307	0.03865	0.10234	-0.01331	0.88975	0.04500	0.16180	0.11687	0.66039	0.09372	0.102
G125	0.16019	-0.03517	0.84511	-0.01837	0.04500	0.61855	0.11455	0.21396	0.08925	0.070
G217	0.10174	0.11235	0.24332	0.06638	0.05558	0.01148	0.31640	0.13538	0.01861	0.081
G307	0.19025	0.20675	0.08599	0.16696	0.01731	-0.01148	0.74212	0.08252	0.16483	0.045
G323	0.14356	0.31506	0.14698	0.36436	0.33444	0.17351	0.26199	0.07319	0.75699	0.138
G323	0.26807	0.04571	0.05495	0.11115	0.62055	0.24304	0.13536	0.68762	0.02707	0.078
G75	0.31786	-0.00357	-0.00656	-0.03678	-0.00332	0.00447	0.02325	0.15608	0.22707	0.133
G120	0.11396	0.08537	0.10449	-0.06758	0.03556	-0.11068	0.10241	0.08286	0.10347	-0.0133
G170	0.05978	-0.06216	-0.17430	-0.04403	-0.03018	-0.11068	0.10241	-0.04087	0.10347	-0.0133
G180	0.15920	0.01238	0.01157	-0.03823	0.01259	-0.00484	0.01259	0.04087	0.02302	0.092
G202	0.00093	0.27113	0.02597	-0.01074	-0.01691	0.00546	0.03334	0.00882	0.04021	0.092
G264	0.05955	0.14796	0.01824	-0.03832	0.05757	0.00882	0.03334	0.00882	0.01021	0.079
G285	0.02894	-0.03318	-0.04476	0.27545	0.05757	0.01091	0.03334	0.00882	0.01021	0.079
G37	0.01201	-0.02553	0.06801	0.05022	0.24611	-0.00748	0.03334	0.00882	0.01021	0.079
G125	0.00992	0.04665	-0.00824	-0.00712	-0.01582	0.00225	0.03334	0.00882	0.01021	0.079
G171	0.15044	0.03090	-0.00553	-0.01403	-0.10241	0.00606	0.03334	0.00882	0.01021	0.079
G217	0.07226	0.12947	0.12853	0.07659	0.05588	-0.00125	0.03334	0.00882	0.01021	0.079
G307	0.01722	0.01849	-0.00254	0.00500	0.00150	-0.00123	0.03334	0.00882	0.01021	0.079
G307	0.03478	-0.00194	0.00727	0.00577	0.00686	-0.00186	0.03334	0.00882	0.01021	0.079
G323	0.00616	0.02313	0.01407	-0.05285	-0.01734	0.00006	0.03334	0.00882	0.01021	0.079
G323	0.00616	0.02608	0.00544	-0.00966	0.00808	0.00006	0.03334	0.00882	0.01021	0.079

a n = 41

TABLE 69.
CROSS-VALIDATION
VARIMAX ROTATED FACTOR MATRIX
MASCULINE/FEMINE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR
020	0.20849	0.15638	0.17733	0.00852	0.11568	0.79012	0.08347	-0.03409	0.02434	0.10700
026	0.27308	-0.04213	0.17017	-0.14258	-0.23745	0.00560	0.00821	-0.04091	0.12325	-0.29044
041	0.58519	-0.13329	0.08896	-0.05101	-0.13152	0.32882	0.06945	0.04059	0.31074	-0.24526
0192	0.06470	-0.20243	0.04469	-0.10938	0.84203	0.11886	-0.00220	0.11714	0.10012	-0.16555
0193	-0.13326	-0.04694	0.02251	-0.03060	0.04079	0.19849	-0.02464	-0.11507	-0.10012	0.07499
0247	0.06322	0.01799	-0.03769	0.05649	0.05929	0.02410	0.02752	-0.06892	0.69029	-0.03660
0337	0.78058	0.04915	-0.04996	-0.22673	-0.21048	0.16425	0.16916	-0.00857	0.02744	0.07222
0351	0.07119	-0.00025	-0.09035	-0.14503	-0.07325	0.18259	-0.05978	-0.08690	0.04963	-0.07235
094	-0.09302	0.17508	-0.02282	0.84614	-0.08788	-0.02712	0.11777	0.071426	-0.08122	-0.02335
0130	-0.03190	-0.04819	0.24390	0.05641	0.04584	0.06009	-0.05195	0.07640	0.09099	0.07089
0206	-0.09334	0.07343	-0.04521	-0.07641	0.12079	0.11446	0.42743	0.44483	0.22062	0.0319
0239	0.10684	0.05039	-0.02116	0.23835	0.03444	-0.09212	0.106525	-0.02047	0.08244	0.6547
0254	0.16503	0.10254	0.11406	-0.04600	-0.06286	-0.00357	0.04596	-0.25503	0.36805	0.06544
0273	-0.02686	-0.01939	-0.15913	-0.06567	-0.08976	-0.00357	0.00102	0.03269	0.00102	-0.0149
0317	-0.03727	0.12725	-0.12904	-0.04903	-0.00427	0.005821	0.02384	-0.00822	-0.03047	0.1008
	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16				
020	0.12011	-0.04720	-0.00110	-0.02697	0.00470	-0.00234				
026	-0.09018	0.00416	0.67863	-0.03205	0.00335	0.00222				
041	0.09803	0.07674	0.10092	-0.14077	-0.08946	0.16276				
0192	0.14580	-0.08883	-0.16726	-0.01690	0.00254	-0.00200				
0247	-0.09514	0.16915	0.12877	-0.07560	0.00506	0.00089				
0337	-0.03344	-0.00504	0.05588	0.06496	0.00485	-0.00027				
0351	-0.08730	0.15204	-0.03317	0.02062	-0.00098	0.00027				
094	-0.01575	0.27217	0.20251	0.09552	-0.02436	-0.00498				
0130	0.09483	0.02405	-0.03097	0.04827	-0.00973	0.00219				
0206	0.36482	-0.07057	-0.08764	0.07128	0.00126	-0.00156				
0239	0.15854	-0.00949	-0.08365	0.28714	0.22601	0.00279				
0254	0.04020	0.06913	-0.15276	0.01073	-0.00690	0.00264				
0273	0.67197	0.78032	0.00207	0.53892	-0.00025	-0.00153				
0317	0.02260	0.02631	-0.04810	0.05965	-0.00186	0.00267				
		0.03903	-0.00527	0.01093	-0.00845	0.00086				

a n = 41

TABLE 70
CROSS-VALIDATION
VARIMAX ROTATED FACTOR MATRIX
BODY SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
0146	0.05810	0.66576	0.29187	0.19151	0.18007	0.23445	0.27102	0.03708	0.01243	-0.25321
0190	0.80763	0.15374	0.00806	0.10636	0.13370	-0.02158	0.00419	0.10359	0.26892	0.02258
0201	0.25954	0.02323	0.01174	0.00436	0.78600	-0.05803	-0.00198	0.00006	0.19191	-0.02258
0250	0.14678	0.85614	0.01925	-0.19350	-0.05629	0.08715	-0.01384	-0.08906	0.00301	0.01563
0284	0.04657	0.06786	-0.00942	-0.09979	0.02877	0.04421	0.072170	-0.07917	0.05345	0.01348
0287	0.86235	0.04859	0.26590	0.03898	-0.2124	0.08440	0.12335	0.17345	0.09468	0.00381
0322	0.19559	0.00389	0.04100	0.17193	0.31376	-0.05258	0.16107	0.20978	-0.071203	0.00162
0347	0.29649	-0.09725	0.10217	-0.11572	0.00096	0.02201	0.16423	0.79495	0.19430	0.01626
079	0.11488	0.06132	0.78858	0.15962	-0.00363	0.02313	-0.01497	0.04621	0.10946	0.01310
0159	0.44207	0.05548	0.16369	0.02888	0.02340	0.26947	0.06673	0.25299	0.17347	0.03651
0172	0.10415	-0.08764	0.22525	0.8102	0.01122	-0.08599	0.03327	0.07401	0.10919	0.02446
0218	0.25463	0.12429	0.51221	0.08350	0.06360	0.19904	-0.10610	0.26801	0.15515	0.00655
0265	0.00808	0.12902	0.06515	0.08932	0.14590	0.08949	-0.105340	0.09729	0.07128	0.01589
0321	0.02808	-0.03445	-0.05904	0.33639	0.34860	0.28977	0.50720	0.02743	0.12822	0.05884
0342	-0.00861	0.032805	0.12153	0.06609	-0.00744	0.01677	0.02702	-0.09243	0.05725	0.02209
0352	0.03538	0.14587	0.04546	-0.07308	-0.05482	-0.062843	0.09920	-0.01026	-0.03876	-0.02209

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16
0146	-0.17437	0.05599	-0.13504	-0.06089	0.15668	0.00874
0201	0.08406	0.01727	0.01277	0.10051	-0.01022	-0.08986
0250	0.00518	0.17442	0.02238	0.01456	0.00279	-0.00033
0284	0.10952	0.14428	0.10809	0.02256	-0.005821	-0.00477
0287	-0.02526	-0.06826	-0.01384	-0.02008	0.00185	0.00154
0322	0.13786	-0.01733	0.11648	-0.11628	0.00335	0.11061
0347	0.15692	0.12549	0.06681	0.02107	0.00077	-0.000035
079	0.08007	0.16171	0.10328	-0.00517	0.01338	0.00007
0159	0.71433	0.06171	0.06579	-0.00487	0.00174	0.00101
0172	0.01009	0.25522	-0.03947	0.00478	-0.00272	0.000031
0218	-0.06107	-0.08896	0.05823	0.01600	0.00276	-0.000031
0265	0.09408	0.08765	0.02476	-0.02507	-0.00310	-0.00130
0321	0.01642	0.62774	0.01046	0.01383	0.00021	-0.00037
0342	0.01642	0.12206	-0.06610	0.35575	-0.00376	-0.00037
0352	0.00843	0.11911	0.04974	0.00613	-0.00172	-0.000054
	0.09942	0.08550	0.05481	0.01655	0.00101	0.00112

a n = 41

TABLE 71
 CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 PAST/PRESENT/FUTURE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
0174	0.02245	0.05963	-0.09809	0.85021	-0.10435	0.01176	0.11168	0.07815	0.13922	0.04024
0144	0.22002	-0.14210	0.32897	0.20412	0.13033	-0.09276	0.00554	0.19166	0.80480	-0.14774
0167	0.78503	-0.11254	0.32625	0.094256	0.13051	-0.12815	0.08130	-0.17895	0.13554	-0.10270
0205	0.80009	-0.07144	-0.07144	-0.02971	-0.12555	-0.10324	-0.08999	-0.06088	0.13913	-0.08217
0367	0.00012	-0.07713	-0.09866	-0.03299	-0.06549	-0.05009	-0.07707	0.80703	0.12490	0.06512
0367	0.07535	-0.03721	-0.02290	-0.03074	0.20415	0.02521	-0.02087	0.18102	0.17674	0.05553
0108	-0.03760	0.83502	-0.09304	-0.04534	0.05874	0.06050	-0.09660	0.06702	0.08375	-0.11099
0116	-0.14668	0.39367	-0.08397	-0.01164	0.12802	0.14461	-0.07765	0.13444	0.22821	0.01544
0182	-0.44266	0.20253	-0.21959	-0.36572	-0.1496	0.01196	-0.41915	0.27544	-0.10354	0.03762
0354	-0.03769	0.30062	-0.42711	-0.26442	-0.4638	0.05485	-0.22354	0.16850	-0.10354	0.03496
0359	-0.18989	0.20451	-0.00709	-0.22894	-0.10477	0.37882	0.10277	0.11094	-0.06060	0.03308
060	-0.00540	0.06309	0.04136	-0.02687	-0.00857	0.80912	0.11993	0.05011	-0.06758	0.03089
0117	-0.11762	0.06628	0.02504	0.05600	0.07540	0.21807	0.07434	0.01867	-0.06685	0.02504
0106	-0.02185	-0.09553	0.12987	0.05101	0.05686	0.12282	0.71781	0.06115	-0.00471	0.01549
0261	-0.11399	-0.01100	0.11098	-0.03122	0.06510	-0.02681	0.16910	-0.06742	-0.10230	0.03791
0326	0.18120	0.18198	0.05903	-0.03346	-0.079015	0.28273	-0.01184	0.09330	-0.16869	0.08486
0363	0.10358	-0.03840	0.16705	-0.08094	0.79015	-0.00899	0.02404	0.02777	0.16844	0.08486
			0.84264	-0.13476	0.14163	0.003324	0.19675	-0.13991	0.03445	0.11818
0124	-0.04358	-0.14118	-0.03463	-0.06476	-0.11267	-0.01376	0.00457	-0.00017	-	-
0167	-0.10950	-0.16190	0.11052	-0.15303	0.0303	-0.01511	0.00470	-0.00004	-	-
0205	-0.18340	-0.09716	0.04276	-0.02939	-0.05998	0.06605	0.27222	-0.00052	-	-
0367	-0.01424	-0.05141	0.07081	-0.02154	-0.05288	-0.05113	-0.13268	-0.00058	-	-
0108	-0.03947	-0.08052	0.17461	-0.06570	-0.05495	-0.02113	-0.00449	0.00035	-	-
0116	-0.04684	0.11614	-0.76570	-0.03764	-0.06884	-0.00721	0.00080	-0.00017	-	-
0354	-0.20163	-0.12085	-0.11533	0.2173	0.20358	0.03902	-0.00178	-0.00038	-	-
0359	-0.12171	0.10722	-0.12172	0.19812	-0.02256	0.38058	0.03371	0.00837	-	-
060	0.15484	0.14116	-0.12335	0.18647	0.70817	0.22800	-0.02454	0.03075	-	-
0117	0.07535	0.17254	0.03778	0.06666	0.14915	-0.00658	-0.00592	-0.00019	-	-
0106	0.07581	-0.11953	-0.04330	-0.10193	0.08375	0.01375	0.00650	-0.00028	-	-
0261	-0.19514	-0.01502	-0.02701	-0.10351	0.04641	-0.01003	0.00984	0.00063	-	-
0326	0.16208	-0.02440	-0.11281	-0.00805	-0.01712	-0.00013	-0.00730	0.00034	-	-
0363	0.05220	-0.78675	-0.12550	-0.03039	0.10316	-0.01175	0.00451	0.00022	-	-
	0.03823	-0.03314	0.04312	-0.0212	-0.00692	0.03877	0.00111	0.00500	-	-
			0.04312	-0.0212	-0.00692	0.04384	0.00901	-0.00379	-	-

a n = 41

TABLE 72
 CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 PUBLIC SELF SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
Q62	0.21886	-0.02639	0.07406	0.11195	0.07000	0.74922	0.11609	0.08533	0.06584	0.108
Q97	0.73912	-0.02358	0.09476	0.14713	0.23662	0.34951	0.20881	0.14624	0.01187	0.222
Q112	0.72605	0.02539	0.06772	0.24713	-0.06163	0.36421	0.13617	0.17524	0.02873	0.107
Q166	0.04641	0.08295	0.13608	0.10600	0.01831	0.08137	0.10028	0.07275	0.07720	0.140
Q194	0.17752	0.02315	0.13040	0.09877	0.02281	0.09041	0.00040	0.17498	0.00706	0.073
Q204	0.23159	0.03349	0.04322	0.01484	0.21143	0.18449	0.75065	0.16337	0.00739	0.033
Q224	0.10605	0.07688	-0.00785	-0.00446	0.17053	-0.03682	0.00760	0.08925	0.04642	0.148
Q356	0.17940	0.04654	0.05869	0.04296	0.01152	0.10442	0.00851	-0.11577	0.01137	0.033
Q24	0.02097	-0.06991	0.16452	0.01291	0.15821	0.10680	0.21856	0.03125	0.04302	0.073
Q80	0.12110	0.10937	0.22070	0.27970	0.09398	-0.03503	0.00963	0.03125	0.11373	0.143
Q106	0.08235	-0.03882	-0.03548	0.07418	-0.00724	0.02510	0.00599	0.04086	-0.11762	0.181
Q272	0.08855	-0.07031	0.03870	0.31733	0.34224	0.28896	0.00515	0.02986	0.02056	0.021
Q272	0.21256	0.07788	0.28821	0.16037	0.07927	0.14706	0.23938	0.19856	0.13532	0.033
Q289	0.09737	0.39288	0.24164	-0.16037	0.79845	0.11287	0.00000	0.01486	0.01809	0.000
Q328	0.16244	0.01067	0.10093	0.78880	0.02105	0.11573	0.19382	0.01039	0.07283	0.036
Q366	0.06010	0.01185	0.73803	0.09426	0.12569	0.05951	-0.00193	0.13115	0.07857	0.000

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16
Q62	0.05010	-0.03534	-0.09611	0.05151	0.00065	-0.00307
Q97	-0.15213	0.12342	0.08935	0.17784	0.09186	0.09471
Q112	-0.15624	0.08272	-0.10152	0.10133	-0.07444	-0.08829
Q166	-0.04483	0.02370	0.02376	0.08500	0.00613	0.00038
Q194	0.02750	-0.14746	-0.14538	0.07967	0.00273	0.00129
Q204	0.02899	0.07820	0.27276	0.11949	0.00645	0.0028
Q224	-0.05365	0.07610	-0.05740	0.03423	-0.00318	-0.00034
Q24	-0.12355	0.15005	0.02126	0.06890	0.00603	0.0016
Q80	-0.04146	0.07055	0.06713	0.07014	0.00764	0.00178
Q106	0.08707	-0.02199	-0.17846	0.04776	0.00767	0.00027
Q153	-0.18844	0.17516	0.13647	-0.09372	-0.00157	0.00157
Q272	-0.11215	0.08878	0.16373	0.56896	0.02833	0.00042
Q289	0.00836	0.10150	0.22370	0.04425	0.00045	0.00125
Q328	0.11788	0.19268	0.00140	-0.06290	0.00150	0.00032
Q366	-0.02526	0.14050	0.11775	-0.08398	0.00588	-0.00004

a n = 41

TABLE 73

CROSS-VALIDATION
VARIMAX ROTATED FACTOR MATRIX
EMPATHY SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
013	-0.05675	0.10902	0.81036	0.02903	0.14397	0.30864	-0.06827	0.07515	-0.03373	0.17397
014	-0.04329	0.07231	-0.02641	0.12614	0.06576	0.00601	0.04797	-0.03641	-0.00911	0.04144
071	-0.07400	0.02174	-0.05945	0.07169	-0.10113	0.02566	0.02087	-0.00390	0.01086	0.00921
0131	-0.00861	0.26878	0.00411	0.48534	0.21565	0.52451	0.15087	-0.09196	0.13731	0.12789
0132	-0.02860	0.10898	0.00034	0.87094	0.04381	0.01643	-0.02268	-0.01632	0.12727	0.01291
0173	-0.04021	0.20010	0.04958	-0.06603	-0.22861	0.03443	0.13608	-0.15860	-0.07667	0.12945
0191	-0.10574	0.18296	-0.02720	-0.11110	0.07512	0.04708	-0.10958	-0.08219	0.07379	0.10945
0257	-0.01926	0.05727	0.02260	0.00431	0.01059	0.77457	-0.06674	-0.05840	0.01287	0.10751
0302	0.09391	-0.04531	-0.06775	0.03474	-0.12801	0.01146	-0.03217	-0.08775	0.01397	0.22394
015	0.11198	0.07650	-0.43367	-0.00018	0.25946	0.31800	-0.09525	-0.11944	0.13944	0.77436
027	0.21785	-0.61468	-0.29253	0.08547	0.06512	-0.04415	-0.06051	0.27137	0.19260	0.08602
0175	-0.08788	-0.14442	0.02775	0.05927	0.53863	0.04321	0.00321	0.17137	-0.03617	0.01092
0221	0.94564	-0.00418	0.03319	0.13842	0.00053	-0.02995	0.30330	0.22411	0.00247	0.21381
0240	0.04250	0.04611	0.00461	-0.06508	0.73230	0.07676	0.08617	0.07314	-0.11491	0.14291
0278	0.27309	0.05157	0.09795	-0.05876	0.24255	-0.10673	0.12771	0.05223	0.15070	0.04291
0279	0.78821	-0.21644	-0.08727	0.10126	0.02464	-0.04914	0.14299	-0.05645	-0.01228	0.02224
0314	-0.10030	0.21458	-0.04548	0.09241	0.12907	-0.00572	0.14299	-0.17115	-0.01016	0.09231
0316	0.10457	-0.00903	0.00418	-0.08003	0.09117	-0.06117	0.08783	0.17115	-0.15346	0.10514
0365	0.08287	0.07189	0.11690	-0.10219	0.04950	0.09999	-0.04072	-0.18272	0.01863	0.02954

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16	FACTOR 17	FACTOR 18	FACTOR 19	FACTOR 20
013	0.12531	-0.03927	-0.06680	0.03643	-0.03744	-0.02328	-0.00267	0.01340	0.01446	0.06646
071	-0.02099	0.02945	0.73237	-0.04606	0.00299	0.00105	0.00618	0.01340	0.00089	0.00025
0131	-0.08978	0.02092	0.06237	0.08029	0.06660	0.05699	-0.03454	-0.00747	0.02354	-0.00963
0132	-0.08936	0.02836	-0.15203	-0.03806	0.06234	-0.04382	0.31120	-0.05556	0.01878	-0.00027
0173	-0.30664	0.06836	-0.18275	0.03895	0.03106	0.01172	-0.01624	0.01070	-0.00725	0.00088
0191	0.07742	0.06482	-0.10088	0.61564	0.03161	-0.00349	0.00457	-0.00853	0.00106	0.00057
0257	0.13818	-0.05593	0.03531	0.03132	0.01607	0.01435	0.00540	-0.00177	0.00340	0.00024
0277	-0.06885	0.07021	0.02816	0.02589	-0.04283	0.00485	-0.00783	-0.00560	-0.00222	0.00040
0302	-0.03236	0.02270	0.05437	0.08838	-0.03459	0.00147	0.00880	-0.00320	0.00345	0.00024
015	-0.04174	0.17543	-0.15438	-0.02402	-0.07171	-0.07975	-0.00880	0.01300	0.00321	0.00024
027	0.02447	-0.09507	0.00204	-0.23025	0.04885	0.31671	-0.03220	-0.03803	0.07169	0.04874
0175	-0.09447	0.09149	0.16922	0.07384	0.09031	-0.05852	-0.04200	-0.05031	0.02022	0.00041
0240	0.05643	-0.03635	-0.00107	0.00444	-0.00950	0.08400	0.04484	0.02256	0.16333	0.00065
0278	0.08157	0.12867	-0.11980	0.10811	0.01315	0.01861	0.01916	-0.04158	0.00103	0.00003
0279	-0.03370	-0.03472	0.06912	0.10159	0.05129	0.00434	-0.00730	-0.00264	-0.00264	0.00003
0314	0.10828	0.12513	-0.07148	-0.04207	0.02615	-0.01352	0.04903	-0.01257	0.16081	0.00010
0316	-0.17933	0.26810	-0.00995	0.07637	0.46364	0.01352	-0.01208	0.01257	-0.00181	0.00042
0365	0.07659	0.10430	-0.04438	-0.09245	0.04078	0.01268	-0.00466	0.00899	0.00083	0.00010
				0.15572	-0.03034	0.00334	-0.00503	-0.00742	-0.00021	0.00010

a n = 41

TABLE 74

CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 SELF ESTEEM SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
Q16	0.48817	0.14253	0.39872	0.19114	0.43070	0.08766	0.35967	0.00632	-0.00528	-0.01482
Q33	0.74067	0.03335	0.34739	0.37933	0.22421	0.14206	-0.04947	-0.04159	0.10968	0.00103
Q38	0.76053	0.21799	-0.03398	0.03171	0.15172	0.29881	0.07054	-0.01091	0.10968	0.00111
Q56	0.57866	0.25504	0.25636	0.40541	0.29531	0.18041	0.04856	0.29693	-0.05840	0.00063
Q304	0.44213	0.30221	0.32474	0.02072	0.70203	0.13046	0.01297	0.02977	0.00375	0.00303
Q40	0.10449	0.17755	0.69433	0.04323	0.16182	0.08203	0.01973	0.01441	0.00276	0.00334
Q67	0.14378	0.16579	0.03364	0.07133	0.01924	0.12632	0.02860	0.00972	0.00077	-0.00035
Q195	0.09529	0.57675	0.43110	0.11555	0.03560	0.46967	0.25398	0.12226	0.00139	0.00033
Q207	0.21773	0.02913	0.07967	0.13164	0.06823	0.71078	0.20262	0.00552	0.00170	0.00054
Q244	0.24848	0.78069	0.22158	0.31011	0.25542	-0.01261	-0.02477	-0.00735	-0.00236	-0.02622

a n = 41

TABLE 75
CROSS-VALIDATION
VARI-MAX ROTATED FACTOR MATRIX
ALTRUISM SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
055	0.04649	0.16790	0.69728	-0.27613	0.16752	0.36006	0.07692	0.04826	-0.02756	0.04983
059	0.079945	0.23150	-0.20178	0.30207	0.07643	0.05049	0.04316	-0.03080	0.332906	-0.033528
0150	0.11601	0.10546	0.30267	0.03495	-0.32884	0.76720	0.31293	-0.08917	0.16283	-0.03919
0242	0.30175	0.07571	0.21302	0.14314	0.28688	0.14655	0.14814	0.24341	0.72717	0.05775
0331	0.82578	0.06151	0.10106	0.16726	0.32522	0.08034	0.03058	0.09012	0.09795	0.05775
0335	0.29701	0.03335	-0.08336	0.82067	0.08400	0.00780	-0.18358	-0.00034	0.010662	0.06101
02	0.25288	0.02150	0.17136	-0.00155	0.15341	0.04319	0.09605	0.72584	0.010662	-0.08948
09	-0.05228	0.74654	0.05848	-0.29579	0.08948	0.07262	0.27333	-0.19316	0.010662	0.08948
018	0.11666	0.01197	0.78668	0.02956	-0.05241	0.03041	0.00334	0.12682	0.12154	0.08948
035	-0.04793	0.10095	0.00416	0.05234	0.72627	0.14470	0.00952	0.15555	0.12477	0.08948
064	0.22848	0.80670	0.07544	0.10501	0.08472	0.13435	0.09143	0.14548	0.011818	0.08948
069	-0.00228	0.18390	0.18867	0.01721	0.05932	0.24412	0.09143	0.27030	0.07482	0.08948
0256	0.05821	0.18284	0.01546	0.15375	0.00844	0.14210	0.11205	0.11016	0.07482	0.08948
		0.09259	0.07740	0.13275	0.00844	-0.01445	0.02941	0.04064	0.01344	0.08948

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14
055	0.06747	0.26072	-0.02775	-0.00388
059	-0.03509	0.14923	0.12171	0.06311
0150	0.22587	-0.00393	-0.00483	0.00032
0242	0.12223	-0.00936	0.00134	-0.00265
0331	0.24359	-0.11076	-0.08273	-0.05410
0335	0.02044	-0.00110	-0.00656	-0.00081
02	0.15576	0.00110	-0.00716	-0.00037
09	-0.07625	-0.03661	0.23030	-0.00166
018	0.02842	0.10250	0.00998	-0.00031
035	-0.01087	0.00828	0.00156	-0.00001
064	0.53468	0.03521	-0.10583	-0.00285
069	0.05337	0.00420	0.00685	-0.00004
0256	-0.05557	0.00319	0.00384	-0.00065
		-0.00019	-0.00377	-0.00065

a n = 41

TABLE 76

CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 PURPOSE IN LIFE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
032	0.18830	0.16843	0.12409	0.05536	0.17112	0.05660	0.18873	0.70674	0.05635	0.25800
0104	0.47729	0.10821	0.08109	0.14105	0.01805	-0.06063	0.74028	0.12502	0.01337	0.13256
0148	0.20529	0.50190	0.50190	0.12147	0.01706	-0.15057	0.38563	0.29711	0.00444	0.06879
0233	0.09348	-0.07539	0.00136	0.07042	-0.04458	-0.12046	0.01562	0.07133	-0.11471	0.10887
0246	0.23439	0.20636	0.07647	0.31121	0.50138	0.12046	0.11409	0.17486	0.10691	0.06887
0345	0.03440	0.02574	0.00790	0.08944	0.01269	-0.06553	0.00048	0.08697	-0.04666	0.20112
0348	-0.22065	-0.84046	-0.74518	-0.16356	-0.04807	-0.17602	-0.11633	-0.08669	-0.14466	0.18331
0350	0.81133	0.10004	0.22140	0.20211	0.15427	-0.00617	0.23109	0.12495	0.14407	0.02011
0350	0.28346	0.09101	0.31688	0.17232	0.10417	0.13299	0.05510	0.15851	0.06223	0.11833
063	0.02499	0.00428	0.05283	0.21192	-0.00691	0.37208	0.09019	0.11172	-0.02331	0.02773
081	0.28867	0.55184	0.15719	0.16844	-0.06328	0.05366	0.16600	0.12796	0.12317	0.07803
085	0.13410	0.22408	0.08635	-0.01631	0.09845	0.13377	-0.19642	0.19437	0.40512	0.08251
0138	0.11123	0.01193	0.13256	-0.04684	-0.07213	0.76278	-0.05691	0.26466	0.03882	0.07205
0168	0.40387	0.15128	0.16176	0.18417	-0.03649	0.24531	0.05714	0.02631	0.19886	0.06546
0222	0.22793	0.22387	0.28192	0.56182	0.16342	0.20162	0.08128	0.02037	0.02631	0.05308
0330	0.23563	0.11058	0.22682	0.15483	-0.12875	0.26980	0.07724	0.07725	0.02637	0.01288
0334	0.08830	0.20170	0.08883	0.26820	0.14656	0.08131	0.27866	0.10452	0.12927	0.02063
0343	-0.13622	0.10025	0.08883	0.73823	0.13132	-0.06163	0.13813	0.01003	0.08220	0.08136
		0.10631	0.37325	0.03409	-0.06732	0.20169	-0.15198	0.22589	0.33347	0.04119

	FACTOR 11	FACTOR 12	FACTOR 13	FACTOR 14	FACTOR 15	FACTOR 16	FACTOR 17	FACTOR 18	FACTOR 19	FACTOR 20
032	0.11716	0.01960	0.06363	0.07079	0.04573	0.06286	0.02203	0.03070	0.01536	0.00168
0104	0.02214	-0.17468	0.03153	0.11376	0.02709	0.02980	0.02644	-0.01693	0.00701	0.00662
0148	0.07976	-0.07920	0.04037	0.05288	-0.01341	0.05821	0.03810	-0.00743	-0.06209	0.00017
0167	0.07946	-0.09539	0.05439	-0.01795	-0.02446	-0.00792	-0.02554	-0.00439	0.00330	0.00105
0233	-0.03577	-0.09565	0.11460	0.06305	-0.00795	0.52721	0.01825	-0.02739	0.00966	-0.00151
0246	-0.00014	-0.08368	-0.22522	-0.04664	-0.00553	0.02719	-0.00212	-0.01106	-0.00157	0.00151
0345	0.13426	-0.13500	0.03468	-0.13627	-0.10603	-0.02355	0.00839	-0.02774	-0.00985	-0.00134
0348	0.14955	0.06246	0.03468	0.12437	0.02128	0.05750	-0.01289	0.00988	0.00497	0.00660
0350	0.09737	0.08030	0.17664	0.13756	0.08857	0.08567	0.00231	0.02653	0.00194	-0.00122
063	-0.00103	0.60896	0.02678	0.04933	0.01841	-0.00646	-0.00269	0.03077	0.01883	-0.00115
081	0.14804	0.14804	0.24978	0.04528	0.07753	-0.07262	-0.00466	0.00377	0.00853	0.00115
085	0.10938	0.13781	0.10309	0.00993	0.04501	0.04306	0.13027	0.04137	0.00853	0.00354
0138	0.00982	0.07648	0.03066	0.03066	0.06847	0.01436	0.02307	0.00706	0.29340	0.00021
0168	-0.17214	0.22225	0.15253	0.03363	-0.06847	0.01436	0.01648	0.02189	0.01397	0.00129
0222	-0.21862	0.13624	0.06216	0.07363	0.01847	0.03408	-0.01241	0.02226	0.00570	0.00420
0230	0.19311	0.13624	0.14107	0.19079	-0.22234	-0.03441	-0.00283	0.00870	0.23541	0.13963
0233	0.11508	0.07419	0.68876	0.15936	0.04654	0.05389	0.00283	0.00870	0.01832	0.00250
0233	0.15513	0.15513	0.20124	0.56870	0.09696	0.03929	0.01084	0.03885	0.01207	0.00107
0334	-0.05728	-0.19248	0.06687	0.09500	0.02757	0.08227	-0.00219	0.00418	-0.03282	0.02289
0343	-0.04793	0.42344	0.20859	0.17576	0.07179	0.06619	-0.00368	0.37165	0.01847	-0.00014

a n = 41

TABLE 77
 CROSS-VALIDATION
 VARIMAX ROTATED FACTOR MATRIX
 LIE SCALE

	FACTOR 1	FACTOR 2	FACTOR 3	FACTOR 4	FACTOR 5	FACTOR 6	FACTOR 7	FACTOR 8	FACTOR 9	FACTOR 10
C3	0.00509	0.71712	0.02405	-0.06263	0.03191	0.02496	0.00177	-0.04337	-0.01520	0.03317
C4	-0.00738	0.03183	-0.00712	-0.00351	-0.00889	0.04670	0.10516	-0.04337	0.00396	0.07990
C7	0.12035	0.10463	0.00194	-0.00651	0.04894	-0.01286	0.07133	-0.00724	0.00872	0.02218
C7A	-0.14366	0.05799	0.14511	0.00659	0.10454	-0.02628	0.03415	-0.07234	0.06610	0.03278
C11	0.08406	-0.08406	0.15201	0.02780	0.12451	0.02165	-0.07494	-0.05132	-0.06770	0.02226
C11A	0.36578	0.33993	0.06344	0.12723	0.43823	0.24091	0.16882	0.13390	0.01285	0.08052
C17	0.10356	0.03963	0.10368	0.23045	0.06573	0.13473	0.13708	0.11495	0.03755	0.19335
C20	0.37734	0.15499	0.12427	0.14229	0.15776	0.14620	0.03706	-0.17254	0.01725	-0.27641
C23	-0.05735	-0.05825	-0.10469	0.00847	-0.05322	-0.06344	-0.02573	-0.07257	-0.04700	0.08721
C23A	0.12876	0.02456	0.17413	0.07456	0.18365	0.09251	0.17576	0.01822	0.04000	0.04435
C30	0.03058	0.02456	0.02635	0.26543	0.13492	0.06100	0.14181	0.23256	0.02790	0.02087
C31	-0.25345	0.05748	0.02345	0.09121	0.06149	0.08816	-0.01606	-0.01853	0.05265	0.03330
C8	0.07580	0.0504	-0.04660	0.03256	0.11597	0.31364	0.30348	-0.06634	0.01574	0.01594
C9	0.07652	0.00934	0.04263	0.08359	0.11597	0.14508	-0.01289	-0.06271	0.07304	0.00576
C16	0.82261	-0.01579	-0.04872	0.05733	0.20952	0.06568	0.12684	-0.05307	0.13428	0.05858
C24	-0.03814	0.07953	-0.04331	0.02961	-0.10851	0.01633	0.14471	-0.05169	0.23247	-0.00932
C27	0.64369	0.17749	0.30031	-0.06359	-0.12272	-0.01675	0.02990	-0.21879	0.03362	-0.07040
C3	0.06928	0.08088	0.07969	0.12435	0.02172	0.00993	-0.01958	0.00077	0.00077	0.00077
C4	0.06424	0.02128	0.03162	-0.07925	-0.06439	0.00612	0.00139	-0.00003	-0.00003	-0.00003
C7	0.17458	0.09557	0.02474	-0.10442	0.04762	0.00615	0.01589	0.00015	0.00015	0.00015
C7A	0.06425	-0.00738	-0.13879	0.08201	-0.03993	-0.00413	-0.0843	-0.00005	-0.00005	-0.00005
C11	0.13439	0.12577	-0.03279	0.04366	0.02816	0.02161	0.04131	-0.00013	-0.00013	-0.00013
C11A	-0.11214	-0.15486	0.19354	-0.09059	-0.06209	0.34310	0.04903	-0.01606	-0.01606	-0.01606
C17	0.15986	0.15442	-0.02103	0.08529	0.08778	-0.02248	0.00346	0.00200	0.00200	0.00200
C20	0.01559	0.09554	0.02684	0.06185	0.02618	-0.00924	-0.04309	0.00006	0.00006	0.00006
C23	0.03946	-0.01024	0.13146	-0.01610	0.05130	0.01570	-0.02011	0.00015	0.00015	0.00015
C23A	0.07024	0.02027	0.15028	0.09101	0.06444	0.01490	0.01378	-0.00013	-0.00013	-0.00013
C30	-0.07962	0.02036	0.05028	-0.09101	0.06444	0.01490	-0.01151	-0.00014	-0.00014	-0.00014
C31	0.08321	0.13694	0.06785	0.22527	-0.05415	0.01526	-0.00745	0.00017	0.00017	0.00017
C8	0.04052	0.06882	0.06245	0.07899	0.17703	0.04569	0.43520	-0.00027	-0.00027	-0.00027
C9	0.02037	0.01673	0.11670	0.07265	-0.04585	0.01986	0.01414	0.00024	0.00024	0.00024
C16	-0.16066	-0.0158	0.02102	0.13066	0.06984	-0.01986	0.02655	-0.00024	-0.00024	-0.00024
C24	0.16964	0.16964	-0.00751	-0.13066	0.06984	-0.00227	0.00944	0.00034	0.00034	0.00034
C27	0.19721	0.18322	-0.00903	-0.03899	0.14998	0.02758	0.04723	0.00391	0.00391	0.00391

a n = 41

Appendix A: Scales and Interpretations

1. Lie Scale or Faking Good: reflects the tendency for an individual to create a more favourable or unfavourable impression of himself/herself. A high or low score indicates that a person is unconsciously defending himself/herself against or reinforcing perceived shortcomings and is seeking social approval or disapproval. "Look, I am a good person."
2. Empathy Scale: reflects the perceived ability to understand another person from his/her point of view; the perceived ability to recognize, sense, and to understand the feelings that another person has associated with his/her behavioural and verbal expressions, and to accurately communicate this understanding. "I perceived myself to be an empathic person."
3. Altruism Scale: reflects how a person perceives himself/herself in relationship to others in a helping situation. "I will help you because you require aid."
4. Self Esteem Scale: reflects a conscious evaluation of oneself. It is the level of positive feelings and attitudes an individual perceives about himself/herself. "I like myself."
5. Purpose in Life Scale: reflects whether a person experiences a meaning or purpose in life. "I perceive myself to have or not have a purpose in life."

6. Family Self Scale: reflects one's feelings of adequacy, worth, and value as a family member. It refers to the individual's perception of self in reference to his/her closest and most immediate circle of associates. "This is how I perceive myself as a member of a family."
7. Social Self Scale: reflects how the self is perceived in relation to others but pertains to others in a more general way. It reflects the person's sense of adequacy and worth in his/her social interaction with other people in general. "This is how I perceive myself in relationship to others."
8. Religious Self Scale: reflects one's perceived satisfaction or dissatisfaction of his/her religious beliefs, religion in general, and his/her relationship with God. It is a person's relationship with religion. "This is how I perceive myself in a religious frame of reference."
9. Occupational Self Scale: reflects how the self is generally perceived in daily situations of life; his/her perceived value, adequacy, and worth as a contributing member of his/her environment. The occupational self reflects the self from a contributing frame of reference. "I am satisfied with my occupation as a student, housewife, dentist, etc.; I am bored with my lifestyle; this is how I perceive my daily life."

10. Masculine/Feminine Self Scale: reflects how the person perceives himself/herself and sense of adequacy and worth in relationship with his/her sex roles and gender. "This is how I accept my sexuality."
11. Body Self Scale: reflects how a person perceives his/her physical appearance; either positively or negatively. "This is how I perceive the way I look."
12. Past/Present/Future Time Orientation Scale: reflects the self in a time directional frame of reference. It reflects the person's perceived feelings of adequacy, worth, and value experienced in the past, present, and future. "This is the way I perceive my past, present and future."
13. Public Self Scale: reflects the ability to create a congruent public self or the perceived reputation one wants. "This is the way I am when I am with others."

Appendix B: Modified Scales

Lie Scale or Faking Good, Form A and B (Eysenck and Eysenck, 1968)

Positive Items

1. Once in awhile I lose my temper and get angry.
2. Occasionally I have thoughts and ideas that I would not like other people to know about.
3. I sometimes gossip.
4. I have been late for an appointment or work.
5. Of all the people I know there are some whom I definitely do not like.
6. I sometimes talk about things I know nothing about.
7. I sometimes get cross.
8. I sometimes laugh at a dirty joke.
9. I sometimes boast a little.
10. I sometimes put off until tomorrow what I ought to do today.
11. Sometimes I have told lies in my life.
12. I would rather win than lose a game.

Negative Items

13. If I say I will do something, I always keep my promise, no matter how inconvenient it might be to do so.
14. All my habits are good and desirable ones.
15. I would always declare everything at customs, even if I knew I could never be found out.
16. As a child I always did what I was told to do, immediately and without grumbling.

17. I am completely free from prejudices of any kind.
18. I always answer a personal letter as soon as I can after I have read it.

Empathy Scale (Hogan, 1969)

Positive Items

1. A person needs to "show off" a little now and then.
2. I like "Alice in Wonderland" by Lewis Carroll.
3. I usually take an active part in the entertainment at parties.
4. I have at one time or another in my life tried my hand at writing poetry.
5. Most of the arguments or quarrels I get into are over matters of principle.
6. I would like the job of a foreign correspondent for a newspaper.
7. I prefer a shower to a bathtub.
8. I always try to consider the other fellow's feelings before I do something.
9. I can remember "playing sick" to get out of something.
10. Before I do something I try to consider how my friends will react to it.
11. I like to talk before groups of people.
12. Sometimes I rather enjoy going against the rules and doing things I'm not supposed to.
13. I think I would like to belong to a singing club.

14. I think I am usually a leader in my group.
15. I have a natural talent for influencing people.
16. I am a good mixer.
17. I love poetry.
18. I have met problems so full of possibilities that I have been unable to make up my mind about them.
19. I would like to be a journalist.
20. I like to talk about sex.
21. Sometimes without any reason or even when things are going wrong I feel excitedly happy, "on top of the world".
22. I like to be with a crowd who play jokes on one another.
23. Sometimes I enjoy hurting persons I love.
24. I tend to be interested in several different hobbies rather than to stick to one of them for a long time.
25. I am not easily angered.
26. I am usually calm and not easily upset.
27. I would certainly enjoy beating a crook at his own game.
28. As a rule I have little difficulty in "putting myself into other people's shoes".
29. I have seen some things so sad that I almost felt like crying.
30. I have a pretty clear idea of what I would try to impart to my students if I were a teacher.
31. I enjoy the company of strong-willed people.
32. I frequently undertake more than I can accomplish.

Negative Items

33. Clever, sarcastic people make me feel very uncomfortable.
34. I feel sure that there is only one true religion.
35. I am afraid of deep water.
36. I must admit I often try to get my own way regardless of what others may want.
37. People today have forgotten how to feel properly ashamed of themselves.
38. I like to keep people guessing what I'm going to do next.
39. I usually don't like to talk much unless I am with people I know very well.
40. When a man is with a woman he is usually thinking about things related to her sex.
41. Only a fool would try to change our North American way of life.
42. My parents were always very strict and stern with me.
43. I like to have a place for everything and everything in its place.
44. I don't like to work on a problem unless there is the possibility of coming out with a clear-cut unambiguous answer.
45. It bothers me when something unexpected interrupts my daily routines.
46. I don't really care whether people like me or dislike me.
47. The trouble with many people is that they don't take things seriously enough.
48. It is hard for me just to sit still and relax.
49. Once in a while I think of things too bad to talk about.

50. I feel that it is certainly best to keep my mouth shut when I'm in trouble.
51. I am an important person.
52. My feelings are not easily hurt.
53. Often I can't understand why I have been so cross and grouchy.
54. What others think of me does not bother me.
55. My way of doing things is apt to be misunderstood by others.
56. My mother or father often made me obey even when I thought that it was unreasonable.
57. I easily become impatient with people.
58. People have often misunderstood my intentions when I was trying to put them right and be helpful.
59. I am often so annoyed when someone tries to get ahead of me in a line of people that I speak to him about it.
60. I used to like hopscotch.
61. I have never been made especially nervous over trouble that any members of my family have gotten into.
62. Disobedience to the government is never justified.
63. I am usually rather short-tempered with people who come around and bother me with foolish questions.
64. It is the duty of a citizen to support his country, right or wrong.

Altruism Scale (Wrightsman, 1964)Positive Items

1. I try to apply the Golden Rule even in today's complex society.
2. I do not hesitate to go out of my way to help someone in trouble.
3. I act as a "Good Samaritan" if I am given the opportunity.
4. "Do unto others as you would have them do unto you" is a motto I follow.
5. I am sincerely concerned about the problems of others.
6. If I had a fallout shelter, I would let my neighbours stay in it during a nuclear attack.
7. I would stop and help a person whose car is disabled.

Negative Items

8. I am conceited.
9. I would not risk my own life and limb in order to help someone else.
10. I think it is pathetic to see an unselfish person in today's world because so many people take advantage of him/her.
11. I pretend to care more for others than I really do.
12. I inwardly dislike putting myself out to help others.
13. I exaggerate my troubles in order to get sympathy.
14. I am usually out for my own good.

Self Esteem Scale (Rosenberg, 1979)Positive Items

1. On the whole, I am satisfied with myself.
2. I feel that I have a number of good qualities.
3. I am able to do things as well as most other people.
4. I feel that I'm a person of worth, at least on an equal plane with others.
5. I take a positive attitude towards myself.

Negative Items

6. At times I think I am no good at all.
7. I feel I do not have much to be proud of.
8. I certainly feel useless at times.
9. I wish I could have more respect for myself.
10. All in all, I am inclined to feel that I am a failure.

Purpose in Life Scale (Crumbaugh and Maholick, 1969)Positive Items

1. Life to me seems always exciting.
2. Every day is constantly new and different.
3. After retiring, I would do some of the exciting things I have always wanted to.
4. If I should die today, I would feel that my life has been very worthwhile.

5. Concerning man's freedom to make his own choices, I believe man is absolutely free to make all life choices.
6. With regard to death, I am prepared and unafraid.
7. With regard to suicide, I have thought of it seriously as a way out.
8. I regard my ability to find a meaning, purpose, or mission in life as very great.
9. My life is in my hands and I am in control of it.
10. Facing my daily tasks is a source of pleasure and satisfaction.

Negative Items

11. I am usually completely bored.
12. In life I have no goals or aims at all.
13. My personal existence is utterly meaningless, without purpose.
14. If I could choose, I would prefer never to have been born.
15. In achieving life goals I have made no progress whatever.
16. My life is empty, filled only with despair.
17. In thinking of my life, I often wonder why I exist.
18. As I view the world in relation to my life, the world completely confuses me.
19. I am a very irresponsible person.
20. I have discovered no mission or purpose in life.

Appendix C: Item Development

Instruction Page

Enclosed are eight scales. The definition or meaning of each scale is located at the top of the scale. Each scale is divided into two parts, positively stated items and negatively stated items. Please rate each item as to its face validity. In your opinion does the item appear to reflect the scale.

This is only the first phase in the development of the scales. Validity and reliability measures will be done on these scales at a later date. Thank you for your co-operation.

Please return to Karen Mihalik or leave it in the Psychology Office mail box for Graduate Students when completed.

Scale Definitions and Scale Items

Religious Self Scale

Religious Self: reflects one's perceived satisfaction or dissatisfaction of his/her religious beliefs, religion in general and relationship with God. It is a person's relationship with religion. It is how I perceive myself in a religious frame of reference.

Positive Stated Items

- | | | | | | | | |
|----|---|---|---------|---|--------------|---|---|
| 1. | I am glad to be known as a religious or non-religious person. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | Neutral | | High Meaning | | |
| 2. | I am happy that Religion is part or not part of my life. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3. | I am satisfied with my religious beliefs. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 4. | I am satisfied with my religious upbringing. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 5. | I am satisfied with my relationship with Christ. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 6. | I am satisfied with my religious preference. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 7. | I am not afraid to die. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | Neutral | | High Meaning | | |

Negative Stated Items

1. I am not satisfied with my religious beliefs.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I wish I went to church more.

1 2 3 4 5 6 7

3. I am not true to my religious beliefs in my everyday life.

1 2 3 4 5 6 7

4. I am not sure whether miracles really happen or not.

1 2 3 4 5 6 7

5. I am not satisfied with my relationship with God.

1 2 3 4 5 6 7

6. I wish I can be more religious.

1 2 3 4 5 6 7

7. I wish I could believe in what is written in the Bible.

1 2 3 4 5 6 7

8. I wish religion played a more important part in my life.

1 2 3 4 5 6 7

9. I am not satisfied with my conception of a Heaven and Hell.

1 2 3 4 5 6 7

10. I really do not know if the world was created by God.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

11. I am not satisfied with my conception of religion.

1 2 3 4 5 6 7

12. I am irritated by religious people.

1 2 3 4 5 6 7

13. I am irritated by non-religious people.

1 2 3 4 5 6 7

14. I wish I could believe in a life after death.

1 2 3 4 5 6 7

15. I am very confused about the whole religious issue.

1 2 3 4 5 6 7

16. I really do not believe in anything.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Past/Present/Future Orientation Scale

Past/Present/Future Orientation Scale: reflects the self in a directional frame of reference. It reflects the person's perceived feelings of adequacy, worth and value experienced in the past, present, and future. This is the way I perceive my past, present, future.

Past Stated Elements

1. I believe the best part of my life occurred in my past.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. Only my past has meaning for me.

1 2 3 4 5 6 7

3. I wish I was living in my past.

1 2 3 4 5 6 7

4. If I had a time machine I would travel to the past rather than to the future.

1 2 3 4 5 6 7

5. I am a person who enjoys living in my past.

1 2 3 4 5 6 7

6. I do not prepare for the future because it may not occur.

1 2 3 4 5 6 7

7. The future has no meaning for me.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

8. The present has no meaning for me.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

9. I am very sentimental.

1 2 3 4 5 6 7

10. I spend a lot of time thinking about what I have already done.

1 2 3 4 5 6 7

11. My memories are the only thing very dear to me.

1 2 3 4 5 6 7

12. I felt secure in my past.

1 2 3 4 5 6 7

13. I am not looking forward to my future.

1 2 3 4 5 6 7

14. I am uncertain about my present life and the future.

1 2 3 4 5 6 7

15. I worry a lot about what I have done in my past.

1 2 3 4 5 6 7

16. My past life is the only time that has significance for me.

1 2 3 4 5 6 7

17. I find it hard to identify myself in the future.

1 2 3 4 5 6 7

18. I have trouble understanding my present life.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Present Stated Elements

- | | | | | | | | |
|-----|--|---|---------|---|---|--------------|---|
| 1. | I am a person who enjoys living in the present. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | Neutral | | | High Meaning | |
| 2. | I plan my life on a day to day schedule. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3. | I live day by day. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 4. | I rarely think of my past life. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 5. | I take each day as it comes. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 6. | I do not prepare for the future because it may not occur. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 7. | I do not worry about what I had done in the past. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8. | I do not spend much time worrying about my future, I only worry about what is happening to me now. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 9. | The future has little meaning for me. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10. | The past holds little meaning for me. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | Neutral | | | High Meaning | |

11. I like to live my life day by day.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

12. I believe you should enjoy life now and not worry about tomorrow.

1 2 3 4 5 6 7

13. My present life is all that counts at this time.

1 2 3 4 5 6 7

14. I can not understand why people save for the future.

1 2 3 4 5 6 7

15. I treat each day as the first day of my life.

1 2 3 4 5 6 7

16. I have trouble identifying myself in the future.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Future Stated Elements

1. I feel driven towards my future.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I am a person who lives for the future.

1 2 3 4 5 6 7

3. I believe each day is a stepping stone for my future.

1 2 3 4 5 6 7

4. The future is all that matters for me.

1 2 3 4 5 6 7

5. I worry about what I presently do because I know it will influence my future.

1 2 3 4 5 6 7

6. I believe that people that live in their past or just for the present are foolish.

1 2 3 4 5 6 7

7. I rarely think of my past life.

1 2 3 4 5 6 7

8. I presently make sacrifices because I know it will pay off in the future.

1 2 3 4 5 6 7

9. I believe I will make my mark in the world in the years to come.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

10. I have or I am presently planning for my future.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

11. I spend a lot of time thinking about my future life.

1 2 3 4 5 6 7

12. I feel secure in my future.

1 2 3 4 5 6 7

13. I do not have trouble identifying myself in the future.

1 2 3 4 5 6 7

14. I always look ahead when I am planning my life.

1 2 3 4 5 6 7

15. I do not live my life day by day.

1 2 3 4 5 6 7

16. I am not afraid of my future.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Masculine/Feminine Self Scale

Masculine/Feminine Self Scale: reflects how the person perceives himself/herself and sense of adequacy and worth in relationships with his/her sex role and gender. This is how I accept my sexuality.

Positive Stated Items

1. I do not doubt my sexual powers.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I like my sexuality.

1 2 3 4 5 6 7

3. I believe there are positive aspects to my gender.

1 2 3 4 5 6 7

4. I believe there are negative aspects to my gender.

1 2 3 4 5 6 7

5. I believe I am a person first and a male/female second.

1 2 3 4 5 6 7

6. I believe that males and females should be treated equal in a job setting.

1 2 3 4 5 6 7

7. My gender does not have a major influence in what I do. I do things because I want to do it, not because of my sex.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

8. I am free to be me. It does not matter whether I am a male or a female.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

9. It does not irritate me when someone treats me according to my sex role as long as it is not done because I am considered inferior.

1 2 3 4 5 6 7

10. I like to do things that can be considered feminine.

1 2 3 4 5 6 7

11. I like to do things that can be considered masculine.

1 2 3 4 5 6 7

12. I do not feel inadequate because of my sex.

1 2 3 4 5 6 7

13. I believe it is the individual rather than the gender of a person that determines success.

1 2 3 4 5 6 7

14. I feel I am not superior to others because of my sex.

1 2 3 4 5 6 7

15. I feel I am not inferior to others due to my sex.

1 2 3 4 5 6 7

16. My limitations are a product of myself. They are not set due to my sexuality.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

17. I do not worry about how a female or male would react in different situations.

1	2	3	4	5	6	7
Low Meaning			Neutral		High Meaning	

11. I am dissatisfied with my nonconformity to society's prescribed sex roles.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

12. I feel trapped into different roles as a result of my sexuality.

1 2 3 4 5 6 7

13. I am upset when I realize that my sexuality has placed certain limitations upon me.

1 2 3 4 5 6 7

14. If I could change my gender, most of my problems would be over.

1 2 3 4 5 6 7

15. I would never go against society's stereotype sex roles because I realize it is my place in life; like it or not.

1 2 3 4 5 6 7

16. I feel I am under-rated as a direct result of my sexuality.

1 2 3 4 5 6 7

17. I believe the opposite sex has more fun.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Public Self Scale

Public Self Scale: reflects the ability to create a congruent public self or the perceived reputation one wants.

The way I am when I am with others.

Positive Stated Items

1. I am not critical of others because others want me to be.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I say things because I want to say them.

1 2 3 4 5 6 7

3. I do things because I want to do them.

1 2 3 4 5 6 7

4. I am not afraid of what others may think of me.

1 2 3 4 5 6 7

5. I am liked by most people without pretending to be someone I am not.

1 2 3 4 5 6 7

6. I feel secure within myself.

1 2 3 4 5 6 7

7. I rarely feel that I am not self reliant.

1 2 3 4 5 6 7

8. I am what I am and most people must accept me as I am.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

9. I am a person that has my own beliefs and values.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

10. I do not have the compulsion to do as others do.

1 2 3 4 5 6 7

11. I am only influenced by others when I want to be.

1 2 3 4 5 6 7

12. I do not do things in order to seek approval from others.

1 2 3 4 5 6 7

13. I always try to be myself even though it means others may not approve.

1 2 3 4 5 6 7

14. I try to be me, in any situation.

1 2 3 4 5 6 7

15. I believe I am very seldom a phony.

1 2 3 4 5 6 7

16. I have the reputation I want.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Negative Stated Items

- | | | | | | | | |
|-----|--|---|---------|---|--------------|---|---|
| 1. | I pretend quite often I am someone I am not. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | Neutral | | High Meaning | | |
| 2. | I do not have values and standards that I can call my own. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3. | I am not satisfied with my behaviour because it is not me. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 4. | I say different things at times only to seek approval from others. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 5. | I often get upset with myself for things I have done. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 6. | I feel inferior to others, so I try to be someone I am not. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 7. | If I say what I really think, I know people will laugh at me. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8. | I am tired of pretending to be someone I am not. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 9. | At times, I forget who I am. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10. | I dislike being a follower. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 11. | I feel inadequate, just being me. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | Neutral | | High Meaning | | |

12. I get upset when I try to get along with everyone.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

13. I am controlled by what others think I am.

1 2 3 4 5 6 7

14. I try to impress people more than I should.

1 2 3 4 5 6 7

15. At times, I am urged to do things I can not and become frustrated
as a result.

1 2 3 4 5 6 7

16. I am not satisfied with myself because of things I have done or said.

1 2 3 4 5 6 7

17. I get irritated at myself when I try to impress others.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Occupational Self Scale

Occupational Self Scale: reflects how the self is perceived in daily situations of life (in general); his/her perceived value, adequacy, and worth as a contributing member of his/her environment. The occupational self reflects the self from a contributing frame of reference. I am satisfied with my occupation as a student, housewife, dentist, etc. I am bored with my life style. This is how I perceive my daily life.

Positive Stated Items

1. I am as intelligent as I want to be.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I am a happy person.

1 2 3 4 5 6 7

3. I try to run away from problems I may encounter.

1 2 3 4 5 6 7

4. I like my occupation.

1 2 3 4 5 6 7

5. I am glad to be alive.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

6. I would not make any major changes to my daily life style, if given the opportunity.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

7. I am the person that I want to be.

1 2 3 4 5 6 7

8. I find each day challenging.

1 2 3 4 5 6 7

9. I find each day rewarding.

1 2 3 4 5 6 7

10. I am satisfied to be what I am.

1 2 3 4 5 6 7

11. I am a valuable person within society.

1 2 3 4 5 6 7

12. I am a contributing member of society.

1 2 3 4 5 6 7

13. Each day is a new experience for me.

1 2 3 4 5 6 7

14. I am important to life.

1 2 3 4 5 6 7

15. I am glad to be able to do what I am doing in my life.

1 2 3 4 5 6 7

16. I am convinced that I can do anything I want if I try.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

17. I am content with my life so far.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

18. I am loved and needed.

1 2 3 4 5 6 7

19. I am not a failure.

1 2 3 4 5 6 7

20. I believe that my daily performance is equal to others of my capabilities.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Negative Stated Items

1. I believe each day is a routine.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I believe nothing exciting ever happens to me.

1 2 3 4 5 6 7

3. I believe nothing new ever happens to me.

1 2 3 4 5 6 7

4. I am not satisfied with my daily life style.

1 2 3 4 5 6 7

5. I would like to change my daily life style.

1 2 3 4 5 6 7

6. I dread waking up in the morning.

1 2 3 4 5 6 7

7. I wish something exciting would happen to me.

1 2 3 4 5 6 7

8. I wish I could do something different with my life.

1 2 3 4 5 6 7

9. I am bored with my life.

1 2 3 4 5 6 7

10. I am not happy with how my life has been going.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

11. If I could I would change my life style with someone else.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

12. I feel stagnated.

1 2 3 4 5 6 7

13. I would not miss anything if I spent a day in bed.

1 2 3 4 5 6 7

14. I have little self-control.

1 2 3 4 5 6 7

15. I am a nobody within society.

1 2 3 4 5 6 7

16. I lack confidence.

1 2 3 4 5 6 7

17. I believe if I died no one would miss me.

1 2 3 4 5 6 7

18. I believe I have not accomplished anything in my life.

1 2 3 4 5 6 7

19. I feel so insignificant in my daily life.

1 2 3 4 5 6 7

20. I am regularly visited by misfortune.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Social Self Scale

Social Self Scale: reflects how the self is perceived in relation to others but pertains to others in a more general way. It reflects the person's sense of adequacy and worth in his/her social interaction with other people in general. This is how I perceive myself in relationship to others.

Positive Stated Items

1. I believe there are good points in everyone I meet.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I like meeting new people.

1 2 3 4 5 6 7

3. I feel comfortable at social gatherings.

1 2 3 4 5 6 7

4. I can make friends easily.

1 2 3 4 5 6 7

5. I am interested in what others have to say.

1 2 3 4 5 6 7

6. I am liked by other people.

1 2 3 4 5 6 7

7. I am satisfied with the relationships I have with others.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

8. I can hold a conversation with anyone I meet.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

9. I do not find it hard to talk to anyone I have just met.

1 2 3 4 5 6 7

10. I do not feel like an outcast at parties.

1 2 3 4 5 6 7

11. I like attending parties that I only know a few people.

1 2 3 4 5 6 7

12. I am satisfied with my relationship(s) with the opposite sex.

1 2 3 4 5 6 7

13. I am satisfied with my social life.

1 2 3 4 5 6 7

14. I feel at ease with other people.

1 2 3 4 5 6 7

15. I enjoy being with other people.

1 2 3 4 5 6 7

16. I am satisfied with my behaviour at social gatherings.

1 2 3 4 5 6 7

17. I introduce myself to people I do not know at social gatherings.

1 2 3 4 5 6 7

18. I like people.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Negative Stated Items

1. I should be more outgoing.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I do not like attending social gatherings when I only know a few people.

1 2 3 4 5 6 7

3. I do not feel at ease with people I do not know very well.

1 2 3 4 5 6 7

4. I do not like making new friends.

1 2 3 4 5 6 7

5. I am not satisfied with my social life.

1 2 3 4 5 6 7

6. I am not satisfied with my relationships with others.

1 2 3 4 5 6 7

7. I feel like an outsider at parties.

1 2 3 4 5 6 7

8. I find it hard to talk to people.

1 2 3 4 5 6 7

9. I have little in common with others.

1 2 3 4 5 6 7

10. I do not get along well with others.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

11. I would rather stay home than go to a social gathering.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

12. I will only attend parties if I know there will be someone there that I can feel comfortable with.

1 2 3 4 5 6 7

13. I am a shy person.

1 2 3 4 5 6 7

14. I feel nervous when I am with others.

1 2 3 4 5 6 7

15. I will not initiate a conversation with someone I do not know very well.

1 2 3 4 5 6 7

16. I know my friends do not care if I do not go out with them.

1 2 3 4 5 6 7

17. I will not introduce myself to another person unless he/she makes the introduction first.

1 2 3 4 5 6 7

18.. I find it hard to make friends.

1 2 3 4 5 6 7

19. I am not a friendly person.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Family Self Scale

Family Self Scale: reflects one's feelings of adequacy, worth, and value as a family member. It refers to the individual's perception of self in reference to his/her closest and most immediate circle of associates. This is how I perceive myself as a member of a family.

Positive Stated Items

1. My family is like a friend to me.

1	2	3	4	5	6	7
Low Meaning			Neutral	High meaning		
2. My opinion is considered in a family discussion.

1	2	3	4	5	6	7
---	---	---	---	---	---	---
3. My family respects me.

1	2	3	4	5	6	7
---	---	---	---	---	---	---
4. I am liked by my parents. (Use past tense if parent(s) are not living.)

1	2	3	4	5	6	7
---	---	---	---	---	---	---
5. I am liked by my brother(s) and/or sister(s).

1	2	3	4	5	6	7
---	---	---	---	---	---	---
6. I enjoy being with members of my family.

1	2	3	4	5	6	7
---	---	---	---	---	---	---
7. There is an atmosphere of love and acceptance within my family.

1	2	3	4	5	6	7
---	---	---	---	---	---	---
8. I would do anything for any member of my family.

1	2	3	4	5	6	7
Low Meaning			Neutral	High Meaning		

9. I would defend members of my family even if they were in the wrong.

1 2 3 4 5 6 7

Low Meaning

Neutral

High meaning

10. Members of my family would help me, if I was in trouble.

1 2 3 4 5 6 7

11. Within my family I am an important person.

1 2 3 4 5 6 7

12. I take a real interest in my family.

1 2 3 4 5 6 7

13. I treat members of my family as well as I should.

1 2 3 4 5 6 7

14. I am loved by members of my family.

1 2 3 4 5 6 7

15. I trust my family.

1 2 3 4 5 6 7

16. I am included in all family get togethers.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Negative Stated Items

- | | | | | | | | |
|-----|---|---|---|---------|---|--------------|---|
| 1. | I wish I was closer with my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | | Neutral | | High Meaning | |
| 2. | I wish members of my family would listen to me more. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 3. | I feel alienated from my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 4. | I have many disagreements with members of my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 5. | I have trouble discussing different things with members of my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 6. | It would not upset me if I never saw members of my family again. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 7. | I would never consider going out of my way to help another member of my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8. | I feel I do not get emotional support from my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 9. | I would not be able to depend on my family for help. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10. | I am embarrassed by members of my family. | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | Low Meaning | | | Neutral | | High Meaning | |

11. I would not be upset if I did not do things with my family.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

12. My family has not confidence in me.

1 2 3 4 5 6 7

13. I do not love members of my family like I think I should.

1 2 3 4 5 6 7

14. I believe my family really does not love me.

1 2 3 4 5 6 7

15. I am not satisfied with my relationship with my family.

1 2 3 4 5 6 7

16. I should not tell so many lies to my family.

1 2 3 4 5 6 7

Low Meaning

Neutral

High meaning

Body Self Scale

Body Self Scale: reflects how a person perceives his/her physical appearance; either positively or negatively. This is how I perceive the way I look.

Positive Stated Items

1. I like my overall physical appearance.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I am satisfied with my complexion.

1 2 3 4 5 6 7

3. I feel good about my appearance when I dress for a social function.

1 2 3 4 5 6 7

4. I like the appearance of my teeth.

1 2 3 4 5 6 7

5. I am satisfied with my weight.

1 2 3 4 5 6 7

6. I am satisfied with my body build.

1 2 3 4 5 6 7

7. I like the appearance of my eyes.

1 2 3 4 5 6 7

8. I am satisfied with my height.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

9. I feel good about my appearance.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

10. I like the way I walk.

1 2 3 4 5 6 7

11. I like the voice I have.

1 2 3 4 5 6 7

12. I am satisfied with my posture.

1 2 3 4 5 6 7

13. I like the appearance of my sex organs.

1 2 3 4 5 6 7

14. I like the shape of my legs.

1 2 3 4 5 6 7

15. I do not consider myself to be sloppy in my appearance.

1 2 3 4 5 6 7

16. I would not like to change any part of my body.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Negative Stated Items

1. I wish I could have cosmetic surgery done to parts of my body.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

2. I wish I could change the appearance of my hair.

1 2 3 4 5 6 7

3. I wish I was thinner or fatter.

1 2 3 4 5 6 7

4. I wish I could change things about my physical appearance.

1 2 3 4 5 6 7

5. I am not satisfied with my resistance to illness.

1 2 3 4 5 6 7

6. I am not satisfied with my physical stamina.

1 2 3 4 5 6 7

7. I do not like the way my hair is distributed over my body.

1 2 3 4 5 6 7

8. I do not like the appearance of my hips.

1 2 3 4 5 6 7

9. I do not like my pain tolerance level.

1 2 3 4 5 6 7

10. I wish I could change my appearance in different ways.

1 2 3 4 5 6 7

11. If I was given the opportunity to exchange my physical appearance with any person of my choice in the world, I would.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

12. I am not satisfied with the shape and size of my chest (or breast).

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

13. I am dissatisfied with my facial appearance.

1 2 3 4 5 6 7

14. I know I do not have the appearance that can attract the opposite sex.

1 2 3 4 5 6 7

15. I am not an attractive person.

1 2 3 4 5 6 7

16. No matter what I do to improve my appearance, I still look the same.

1 2 3 4 5 6 7

Low Meaning

Neutral

High Meaning

Appendix D: Questionnaire Used in Study One

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

1. I am not satisfied with my relationships with others.
2. I am conceited.
3. I sometimes boast a little.
4. I would not like to change any part of my body.
5. I used to like hopscotch.
6. I am controlled by what others think I am.
7. I think I am usually a leader in my group.
8. If I say I will do something, I always keep my promise, no matter how inconvenient it might be to do so.
9. I would not risk my own life and limb in order to help someone else.
10. A person needs to "show off" a little now and then.
11. Sometimes I enjoy hurting persons I love.
12. I don't like to work on a problem unless there is the possibility of coming out with a clear-cut unambiguous answer.
13. I enjoy the company of strong-willed people.
14. Most of the arguments or quarrels I get into are over matters of principle.
15. I must admit I often try to get my own way regardless of what others may want.
16. I feel that I have a number of good qualities.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

17. I frequently undertake more than I can accomplish.
18. I inwardly dislike putting myself out to help others.
19. I feel so insignificant in my daily life.
20. I like my sexuality.
21. I would like to be a journalist.
22. I like to have a place for everything and everything in its place.
23. I am embarrassed by members of my family.
24. I often get upset with myself for things I have done.
25. I am bored with my life.
26. I believe I am a person first and a male/female second.
27. I like to keep people guessing what I'm going to do next.
28. I am irritated by non-religious people.
29. I can remember "playing sick" to get out of something.
30. I feel stagnated.
31. I always try to consider the other fellow's feelings before I do something.
32. I believe that man is absolutely free to make all life choices.
33. I take a positive attitude towards myself.
34. I enjoy being with other people.
35. I exaggerate my troubles in order to get sympathy.
36. I like to be with a crowd who play jokes on one another.
37. I would like to change my daily life style.

1	2	3	4	5	6
Completely	Mostly	Slightly	Slightly	Mostly	Completely
Disagree	Disagree	Disagree	Agree	Agree	Agree

38. On the whole, I am satisfied with myself.
39. I prefer a shower to a bathtub.
40. I wish I could have respect for myself.
41. My gender does not have a major influence in what I do. I do things because I want to do it, not because of my sex.
42. I have never been made especially nervous over trouble that any members of my family have gotten into.
43. I am usually calm and not easily upset.
44. I am not easily angered.
45. I am afraid of deep water.
46. Of all the people I know there are some whom I definitely do not like.
47. I like poetry.
48. I am not satisfied with my conception of religion.
49. I find it hard to make friends.
50. I am important to life.
51. My limitations are a product of myself. They are not set due to my sex.
52. I do not love members of my family like I think I should.
53. My feelings are not easily hurt.
54. I believe if I died no one would miss me.
55. I would stop and help a person whose car is disabled.
56. I am able to do things as well as most other people.
57. Within my family I am an important person.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

58. I am not a friendly person.
59. "Do unto others as you would have them do unto you" is a motto I follow.
60. I feel driven towards my future.
61. I can make friends easily.
62. I am a person that has my own beliefs and values.
63. I am a very irresponsible person.
64. I am usually out for my own good.
65. I have little self-control.
66. I feel at ease with other people.
67. At times I think I am no good at all.
68. My opinion is considered in a family discussion.
69. I pretend to care more for others than I really do.
70. I believe that my daily performance is equal to others of my capabilities.
71. Sometimes I rather enjoy going against the rules and doing things
I'm not supposed to.
72. I am satisfied with my body build.
73. I am loved by members of my family.
74. I dread waking up in the morning.
75. I am a valuable person within society.
76. I am satisfied with my belief in an "Almighty Being".
77. I sometimes talk about things I know nothing about.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

78. Occasionally I have thoughts and ideas that I would not like other people to know about.
79. I am not satisfied with my physical stamina.
80. I am tired of pretending to be someone I am not.
81. I am usually completely bored.
82. I am loved and needed.
83. I feel nervous when I am with others.
84. I am usually rather short-tempered with people who come around and bother me with foolish questions.
85. In achieving life goals I have made no progress whatsoever.
86. I feel secure in my future.
87. I am satisfied with my relationship(s) with the opposite sex.
88. I am convinced that I can do anything I want if I try.
89. I feel trapped into different roles as a result of my sex.
90. People today have forgotten how to feel properly ashamed of themselves.
91. I find it hard to talk to people.
92. At times I feel worthless as a result of my sexuality.
93. My way of doing things is apt to be misunderstood by others.
94. I am upset when I realize that my sex has placed certain limitations upon me.
95. I have met problems so full of possibilities that I have been unable to make up my mind about them.

1	2	3	4	5	6
Completely	Mostly	Slightly	Slightly	Mostly	Completely
Disagree	Disagree	Disagree	Agree	Agree	Agree

96. My family respects me.
97. I try to be me, in any situation.
98. I am interested in what others have to say.
99. As a child I always did what I was told to do, immediately and without grumbling.
100. I feel sure that there is only one true religion.
101. I feel I do not get emotional support from my family.
102. I like my overall physical appearance.
103. I am not satisfied with my relationship with my family.
104. I regard my ability to find a meaning, purpose, or mission in life as very great.
105. I believe I am very seldom a phony.
106. I get upset when I try to get along with everyone.
107. I like my occupation.
108. I believe you should enjoy life now and not worry about tomorrow.
109. I like to live my life day by day.
110. I am not satisfied with my relationship with God.
111. I have seen some things so sad that I almost felt like crying.
112. I always try to be myself even though it means others may not approve.
113. I do not worry about how a female or male would react in different situations.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

114. I like to talk about sex.
115. I believe I will make my mark in the world in the years to come.
116. I live day by day.
117. I worry about what I presently do because I know it will influence my future.
118. I sometimes gossip.
119. I sometimes put off until tomorrow what I ought to do today.
120. I am glad to be alive.
121. I am not satisfied with the shape and size of my chest (or breast).
122. I easily become impatient with people.
123. My life is controlled because of my sex.
124. Only my past has meaning for me.
125. I believe nothing exciting ever happens to me.
126. I believe it is possible for an individual to follow a Christian's way of life even though that person may not be religious.
127. I do not feel like an outcast at parties.
128. I wish I was closer with my family.
129. It would not upset me if I never saw members of my family again.
130. I get upset when I get something as a result of my sexuality.
131. I usually take an active part in the entertainment at parties.
132. I have a natural talent for influencing people.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

133. I do not prepare for the future because it may not occur.
134. I do not feel at ease with people I do not know very well.
135. I believe I have not accomplished anything in my life.
136. I am glad to be able to do what I am doing in my life.
137. I would not be upset if I did not do things with my family.
138. My personal existence is utterly meaningless, without purpose.
139. I introduce myself to people I do not know at social gatherings.
140. I am satisfied with my weight.
141. I would rather stay home than go to a social gathering.
142. I am satisfied with the relationships I have with others.
143. I enjoy being with members of my family.
144. My past life is the only time that has significance for me.
145. I am very confused about the whole religious issue.
146. I like the voice I have.
147. I am not a failure.
148. Life to me seems always exciting.
149. All my habits are good and desirable ones.
150. I do not hesitate to go out of my way to help someone in trouble.
151. It is hard for me just to sit still and relax.
152. I say things because I want to say them.
153. I am not satisfied with myself because of things I have done or said.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

154. I do not get along well with others.
155. I am not satisfied with my religious beliefs.
156. I know my friends do not care if I do not go out with them.
157. I treat members of my family as well as I should.
158. I wish something exciting would happen to me.
159. I know I do not have the appearance that can attract the opposite sex.
160. I find each day challenging.
161. If I had a time machine I would travel to my past life rather than to my future life.
162. I feel I am under-rated as a direct result of my sex.
163. I am completely free from prejudices of any kind.
164. Clever, sarcastic people make me feel very uncomfortable.
165. I feel that it is certainly best to keep my mouth shut when I'm in trouble.
166. I rarely feel that I am not self reliant.
167. I spend a lot of time thinking about what I have already done.
168. My life is empty, filled only with despair.
169. I am not true to my religious beliefs in my everyday life.
170. I am the person that I want to be.
171. I lack confidence.
172. I wish I could have cosmetic surgery done to parts of my body.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

173. I would certainly enjoy beating a crook at his own game.
174. Once in awhile I lose my temper and get angry.
175. When a man is with a woman he is usually thinking about things related to her sex.
176. I always look ahead when I am planning my life.
177. I will not introduce myself to another person unless he/she makes the introduction first.
178. I will only attend parties, if I know there will be someone there that I can feel comfortable with.
179. I like the way I walk.
180. I am a contributing member of society.
181. If I could I would change my life style with someone else.
182. I am satisfied with my social life.
183. My present life is all that counts at this time.
184. I do not have values and standards that I can call my own.
185. My family has no confidence in me.
186. I wish religion played a more important part in my life.
187. With regard to death, I am prepared and unafraid.
188. I have a pretty clear idea of what I would try to impart to my students if I were a teacher.
189. Before I do something I try to consider how my friends will react to it.

1	2	3	4	5	6
Completely	Mostly	Slightly	Slightly	Mostly	Completely
Disagree	Disagree	Disagree	Agree	Agree	Agree

190. I feel good about my appearance when I dress for a social function.
191. Sometimes without any reason or even when things are going wrong I feel excitedly happy, "on top of the world".
192. I believe there are positive aspects to my gender.
193. I like to do things that can be considered feminine.
194. I do things because I want to do them.
195. I feel I do not have much to be proud of.
196. I believe that people that live in their past or just for the present are foolish.
197. I believe my family really does not love me.
198. I am a shy person.
199. I am satisfied with my complexion.
200. I find each day rewarding.
201. I am satisfied with my height.
202. Each day is a new experience for me.
203. I should not tell so many lies to my family.
204. I have the reputation I want.
205. I wish I was living in my past.
206. I wish I was the opposite sex.
207. I certainly feel useless at times.
208. I do not do things in order to seek approval from others.
209. Only a fool would try to change our North American way of life.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

210. I am dissatisfied with my conformity to my sex role.
211. I am a person who enjoys living in the present.
212. I should be more outgoing.
213. I take a real interest in my family.
214. I presently make sacrifices because I know it will pay off in the future.
215. I would not be able to depend on my family for help.
216. I am satisfied with my relationship with Christ.
217. I believe each day is a routine.
218. I wish I could change things about my physical appearance.
219. I am a happy person.
220. Sometimes I have told lies in my life.
221. I don't really care whether people like me or dislike me.
222. I have discovered no mission or purpose in life.
223. I am liked by most people without pretending to be someone I am not.
224. I am only influenced by others when I want to be.
225. I am not satisfied with my social life.
226. I have little in common with others.
227. I do not like the appearance of my hips.
228. No matter what I do to improve my appearance, I still look the same.
229. I am a nobody within society.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

230. I like the appearance of my sex organs.
231. I have been late for an appointment or work.
232. I would like the job of a foreign correspondent for a newspaper.
233. My life is in my hands and I am in control of it.
234. Once in a while I think of things too bad to talk about.
235. I am liked by my brother(s) and/or sister(s).
236. I am satisfied with my behaviour at social gatherings.
237. I try to run away from problems I may encounter.
238. I have trouble discussing different things with members of my family.
239. At times I feel helpless as a result of my sex.
240. People have often misunderstood my intentions when I was trying to put them right and be helpful.
241. It does not irritate me when someone treats me according to my sex role as long as it is not done because I am considered inferior.
242. I am sincerely concerned about the problems of others.
243. I always answer a personal letter as soon as I can after I have read it.
244. All in all, I am inclined to feel that I am a failure.
245. I think I would like to belong to a singing club.
246. After retiring, I would do some of the exciting things I have always wanted to.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

247. I do not feel inadequate because of my sex.
248. Members of my family would help me, if I was in trouble.
249. I like meeting new people.
250. I do not consider myself to be sloppy in appearance.
251. I am not an attractive person.
252. I am content with my life so far.
253. In thinking of my life, I often wonder why I exist.
254. If I could change my gender, most of my problems would be over.
255. My parents were always very strict and stern with me.
256. I think it is pathetic to see an unselfish person in today's world because so many people take advantage of him/her.
257. I am a good mixer.
258. I like to talk before groups of people.
259. It is the duty of a citizen to support his/her country, right or wrong.
260. I feel inferior to others, so I try to be someone I am not.
261. I believe each day is a stepping stone for my future.
262. I am included in all family get togethers.
263. I am irritated by religious people.
264. I am satisfied to be what I am.
265. I wish I was thinner or fatter.
266. I will not initiate a conversation with someone I do not know very well.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

267. I treat each day as the first day of my life.
268. I spend a lot of time thinking about my future life.
269. I feel alienated from my family.
270. I do not spend much time worrying about my future, I only worry about what is happening to me now.
271. I am a person who enjoys living in my past.
272. I am not satisfied with my behaviour because it is not me.
273. I consciously do things against my prescribed sex roles, just because they are prescribed sex roles.
274. I believe that males and females should be treated equal in a job setting.
275. I like "Alice in Wonderland" by Lewis Carroll.
276. I would always declare everything at the customs, even if I knew I could never be found out.
277. I have at one time or another in my life tried my hand at writing poetry.
278. Disobedience to the government is never justified.
279. What others think of me does not bother me.
280. I feel secure within myself.
281. I believe the best part of my life occurred in my past.
282. I wish members of my family would listen to me more.
283. I feel like an outsider at parties.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

284. I like the appearance of my teeth.
285. I would not make any major changes to my daily life style, if given the opportunity.
286. I am not satisfied with my resistance to illness.
287. I feel good about my appearance.
288. I am happy that Religion is part or not part of my life.
289. I feel inadequate, just being me.
290. I felt secure in my past.
291. I trust my family.
292. I am liked by other people.
293. I am glad to be known as a religious or non-religious person.
294. If I was given the opportunity to exchange my physical appearance with any person of my choice in the world, I would.
295. I am not satisfied with my daily life style.
296. I sometimes get cross.
297. I usually don't like to talk much unless I am with people I know very well.
298. With regard to suicide, I have thought of it seriously as a way out.
299. I feel I am a product of my sexuality.
300. I am not afraid of what others may think of me.
301. I am an important person.
302. I tend to be interested in several different hobbies rather than to stick to one of them for a long time.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

303. I sometimes laugh at a dirty joke.
304. I feel that I'm a person of worth, at least on an equal plane with others.
305. I pretend quite often I am someone I am not.
306. My family is like a friend to me.
307. I wish I could do something different with my life.
308. I do not like attending social gatherings when I only know a few people.
309. I like people.
310. I do not like the way my hair is distributed over my body.
311. I am satisfied with my religious preference.
312. I am not happy with how my life has been going.
313. I would rather win, than lose a game.
314. The trouble with many people is that they don't take things seriously enough.
315. I do not like making new friends.
316. I am often so annoyed when someone tries to get ahead of me in a line of people that I speak to him/her about it.
317. I am confused about my sex roles.
318. I am loved by my parents. (Use past tense is parent(s) are not living.)
319. I am not satisfied with my conception of a Heaven and Hell.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

320. I am satisfied with my belief or disbelief that God is the final judge of my behaviour.
321. I wish I could change the appearance of my hair.
322. I like the appearance of my eyes.
323. I would not miss anything if I spent a day in bed.
324. It does not upset me if I meet someone who is or is not religious.
325. I believe there are good points in everyone I meet.
326. The future is all that matters for me.
327. I would never consider going out of my way to help another member of my family.
328. I try to impress people more than I should.
329. I am dissatisfied with my nonconformity to society's prescribed sex roles.
330. As I view the world in relation to my life, the world completely confuses me.
331. I try to apply the Golden Rule even in today's complex society.
332. As a rule I have little difficulty in "putting myself into other people's shoes".
333. I act as a "Good Samaritan" if I am given the opportunity.
334. In life I have no goals or aims at all.
335. If I had a fall out shelter, I would let my neighbours stay in it during a nuclear attack.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

336. It bothers me when something unexpected interrupts my daily routines.
337. I do not doubt my sexual powers.
338. I get irritated at myself when I try to impress others.
339. I like attending parties that I only know a few people.
340. I believe there are spiritual realities of some kind.
341. There is an atmosphere of love and acceptance within my family.
342. I wish I could change my appearance in different ways.
343. If I could choose, I would prefer never to have been born.
344. I would never go against society's stereotype sex roles because I realize it is my place in life; whether I like it or not.
345. Every day is constantly new and different.
346. Often I can't understand why I have been so cross and grouchy.
347. I like the shape of my legs.
348. Facing my daily tasks is a source of pleasure and satisfaction.
349. I am satisfied with my posture.
350. If I should die today, I would feel that my life has been very worthwhile.
351. I believe it is the individual rather than the gender of a person that determines success.
352. I am dissatisfied with my facial appearance.
353. The future has no meaning for me.
354. I take each day as it comes.

1	2	3	4	5	6
Completely	Mostly	Slightly	Slightly	Mostly	Completely
Disagree	Disagree	Disagree	Agree	Agree	Agree

355. I am free to be me. It does not matter whether I am a male or a female.
356. I am what I am and people must accept me as I am.
357. The present has no meaning for me.
358. I believe the opposite sex has more fun.
359. I plan my life on a day to day schedule.
360. I feel comfortable at social gatherings.
361. I have or I am presently planning for my future.
362. I say different things at times only to seek approval from others.
363. I am a person who lives for the future.
364. I do not have the compulsion to do as others do.
365. My mother or father often made me obey even when I thought it was unreasonable.
366. If I say what I really think, I know people will laugh at me.
367. My memories are the only things very dear to me.
368. I like to do things that can be considered masculine.
369. I am satisfied in my belief that God is or is not constantly with us.
370. I do not find it hard to talk to anyone I have just met.
371. I am satisfied with my religious beliefs.

Appendix E: Revised Questionnaire

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

1. I am satisfied in my belief that God is or is not constantly with us.
2. I take each day as it comes.
3. If I had a fall out shelter, I would let my neighbours stay in it during a nuclear attack.
4. Facing my daily tasks is a source of pleasure and satisfaction.
5. I would rather win, than lose a game.
6. I would never consider going out of my way to help another member of my family.
7. I am happy that Religion is part or not part of my life.
8. I sometimes laugh at a dirty joke.
9. I would always declare everything at the customs, even if I knew I could never be found out.
10. I wish members of my family would listen to me more.
11. I do not feel inadequate because of my sex.
12. I am irritated by religious people.
13. I have little in common with others.
14. At times I feel helpless as a result of my sex.
15. I should not tell so many lies to my family.
16. I am a happy person.
17. I am a contributing member of society.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

18. I believe there are positive aspects to my gender.
19. I know I do not have the appearance that can attract the opposite sex.
20. I lack confidence.
21. My personal existence is utterly meaningless, without purpose.
22. All my habits are good and desirable ones.
23. I worry about what I presently do because I know it will influence my future.
24. I wish I was closer with my family.
25. I find it hard to talk to people.
26. As a child I always did what I was told to do, immediately and without grumbling.
27. My opinion is considered in a family discussion.
28. I am satisfied with my belief in an "Almighty Being".
29. Of all the people I know there are some whom I definitely do not like.
30. Within my family I am an important person.
31. I believe I am a person first and a male/female second.
32. I would like to change my daily life style.
33. I am conceited.
34. Most of the arguments or quarrels I get into are over matters of principle.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

35. I inwardly dislike putting myself out to help others.
36. If I say I will do something, I always keep my promise, no matter how inconvenient it might be to do so.
37. I am not satisfied with my conception of religion.
38. I am irritated by non-religious people.
39. I would not risk my own life and limb in order to help someone else.
40. I can make friends easily.
41. I am upset when I realize that my sex has placed certain limitations upon me.
42. I pretend to care more for others than I really do.
43. I believe you should enjoy life now and not worry about tomorrow.
44. Occasionally I have thoughts and ideas that I would not like other people to know about.
45. My present life is all that counts at this time.
46. Sometimes without any reason or even when things are going wrong I feel excitedly happy, "on top of the world".
47. I spend a lot of time thinking about what I have already done.
48. My life is empty, filled only with despair.
49. I wish religion played a more important part in my life.
50. I am often so annoyed when someone tries to get ahead of me in a line of people that I speak to him/her about it.
51. I like the appearance of my eyes.

1	2	3	4	5	6
Completely	Mostly	Slightly	Slightly	Mostly	Completely
Disagree	Disagree	Disagree	Agree	Agree	Agree

52. I trust my family.
53. I wish I could do something different with my life.
54. As I view the world in relation to my life, the world completely confuses me.
55. I am not satisfied with my conception of a Heaven and Hell.
56. I try to apply the Golden Rule even in today's complex society.
57. I wish I could change my appearance in different ways.
58. I believe it is the individual rather than the gender of a person that determines success.
59. I plan my life on a day to day schedule.
60. My mother or father often made me obey even when I thought it was unreasonable.
61. I act as a "Good Samaritan" if I am given the opportunity.
62. I am a person who lives for the future.
63. I do not consider myself to be sloppy in appearance.
64. I am a good mixer.
65. What others think of me does not bother me.
66. I would not make any major changes to my daily life style, if given the opportunity.
67. In thinking of my life, I often wonder why I exist.
68. I have been late for an appointment or work.

1	2	3	4	5	6
Completely	Mostly	Slightly	Slightly	Mostly	Completely
Disagree	Disagree	Disagree	Agree	Agree	Agree

69. I always answer a personal letter as soon as I can after I have read it.
70. I wish I was living in my past.
71. Sometimes I have told lies in my life.
72. With regard to death, I am prepared and unafraid.
73. I am a shy person.
74. I feel I am under-rated as a direct result of my sex.
75. I sometimes put off until tomorrow what I ought to do today.
76. I usually take an active part in the entertainment at parties.
77. I like the voice I have.
78. I am not satisfied with my religious beliefs.
79. I try to be me, in any situation.
80. I am loved by members of my family.
81. I often get upset with myself for things I have done.
82. I do not love members of my family like I think I should.
83. I sometimes boast a little.
84. I like my sexuality.
85. I am satisfied with my religious preference.
86. I try to impress people more than I should.
87. I sometimes get cross.
88. I am not satisfied with my behaviour because it is not me.
89. I believe each day is a stepping stone for my future.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

90. I am not true to my religious beliefs in my everyday life.
91. I feel good about my appearance when I dress for a social function.
92. I must admit I often try to get my own way regardless of what others may want.
93. I always try to be myself even though it means others may not approve.
94. I do not feel at ease with people I do not know very well.
95. I am satisfied with my belief or disbelief that God is the final judge of my behaviour.
96. I tend to be interested in several different hobbies rather than to stick to one of them for a long time.
97. I consciously do things against my prescribed sex roles, just because they are prescribed sex roles.
98. I am satisfied to be what I am.
99. I should be more outgoing.
100. When a man is with a woman he is usually thinking about things related to her sex.
101. "Do unto others as you would have them do unto you" is a motto I follow.
102. I wish I could have respect for myself.
103. I feel that I have a number of good qualities.
104. I enjoy the company of strong-willed people.
105. My life is in my hands and I am in control of it.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

106. I like to do things that can be considered feminine.
107. I feel I do not get emotional support from my family.
108. I am not satisfied with my physical stamina.
109. If I say what I really think, I know people will laugh at me.
110. I do not doubt my sexual powers.
111. I am what I am and people must accept me as I am.
112. My memories are the only things very dear to me.
113. I like attending parties that I only know a few people.
114. I am satisfied with my religious beliefs.
115. Every day is constantly new and different.
116. I like the shape of my legs.
117. The trouble with many people is that they don't take things seriously enough.
118. I am confused about my sex roles.
119. I wish I could change the appearance of my hair.
120. The future is all that matters for me.
121. I feel good about my appearance.
122. I feel inadequate, just being me.
123. I am glad to be known as a religious or non-religious person.
124. With regard to suicide, I have thought of it seriously as a way out.
125. I do not like attending social gatherings when I only know a few people.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

126. I am loved by my parents. (Use past tense if parent(s) are not living.)
127. After retiring, I would do some of the exciting things I have always wanted to do.
128. If I could change my gender, most of my problems would be over.
129. I think it is pathetic to see an unselfish person in today's world because so many people take advantage of him/her.
130. I am included in all family get togethers.
131. I wish I was thinner or fatter.
132. I will not initiate a conversation with someone I do not know very well.
133. I am completely free from prejudices of any kind.
134. I would certainly enjoy beating a crook at his/her own game.
135. I rarely feel that I am not self reliant.
136. I believe that people that live in their past or just for the present are foolish.
137. I do things because I want to do them.
138. I feel I do not have much to be proud of.
139. Once in awhile I lose my temper and get angry.
140. I wish I could have cosmetic surgery done to parts of my body.
141. I am the person that I want to be.
142. Only my past has meaning for me.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

143. I would not be upset if I did not do things with my family.
144. My past life is the only time that has significance for me.
145. I am not satisfied with myself because of things I have done or said.
146. I sometimes gossip.
147. I get upset when I get something as a result of my sexuality.
148. I am bored with my life.
149. I would stop and help a person whose car is disabled.
150. I like to keep people guessing what I'm going to do next.
151. I feel driven towards my future.
152. I believe that man is absolutely free to make all life choices.
153. I regard my ability to find a meaning, purpose, or mission in life as very great.
154. I am a person that has my own beliefs and values.
155. I take a positive attitude towards myself.
156. I feel nervous when I am with others.
157. I get upset when I try to get along with everyone.
158. Sometimes I rather enjoy going against the rules and doing things I'm not supposed to.
159. I exaggerate my troubles in order to get sympathy.
160. My gender does not have a major influence in what I do. I do things because I want to do it, not because of my sex.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

161. I am able to do things as well as most other people.
162. I like to live my life day to day.
163. I am a very irresponsible person.
164. I do not hesitate to go out of my way to help someone in trouble.
165. I am liked by my brother(s) and/or sister(s).
166. All in all, I am inclined to feel that I am a failure.
167. I feel at ease with other people.
168. I am usually out for my own good.
169. On the whole, I am satisfied with myself.
170. I introduce myself to people I do not know at social gatherings.
171. I am not satisfied with my relationship with God.
172. I am satisfied with my relationship(s) with the opposite sex.
173. I dread waking up in the morning.
174. In achieving life goals I have made no progress whatever.
175. I am usually completely bored.
176. I sometimes talk about things I know nothing about.
177. I am tired of pretending to be someone I am not.
178. If I could choose, I would prefer never to have been born.
179. I do not find it hard to talk to anyone I have just met.
180. If I should die today, I would feel that my life has been very worthwhile.
181. I am dissatisfied with my facial appearance.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

182. I have at one time or another in my life tried my hand at writing poetry.
183. I like the appearance of my teeth.
184. I feel that I'm a person of worth, at least on an equal plane with others.
185. I would not miss anything if I spent a day in bed.
186. Disobedience to the government is never justified.
187. I believe the best part of my life occurred in the past.
188. I am satisfied with my height.
189. I take a real interest in my family.
190. I have trouble discussing different things with members of my family.
191. I wish I was the opposite sex.
192. I am sincerely concerned about the problems of others.
193. Each day is a new experience for me.
194. I certainly feel useless at times.
195. I am only influenced by others when I want to be.
196. I do not feel like an outcast at parties.
197. I wish I could change things about my physical appearance.
198. I have discovered no mission or purpose in life.
199. I believe each day is a routine.
200. I believe nothing exciting ever happens to me.

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

201. At times I think I am no good at all.
202. Life to me seems always exciting.
203. I live day by day.
204. I have a natural talent for influencing people.
205. I am a valuable person within society.
206. I am glad to be alive.
207. I have the reputation I want.
208. I don't really care whether people like me or dislike me.
209. People have often misunderstood my intentions when I was trying to put them right and be helpful.
210. In life I have no goals or aims at all.
211. I believe there are spiritual realities of some kind.
212. I feel comfortable at social gatherings.

Appendix F: Instructions and Score Sheets Used in Study One and Study Two

INSTRUCTIONS

Respond to each item as if you were describing yourself to yourself. For each of the following statements, circle the number that would be mostly true for yourself.

Responses

1	2	3	4	5	6
Completely Disagree	Mostly Disagree	Slightly Disagree	Slightly Agree	Mostly Agree	Completely Agree

Example:

123. 1 2 3 4 5 6

124. 1 2 3 4 5 6

You will find the response numbers repeated at the top of each page.

AGE _____ SEX _____ EDUCATION _____

ARE YOU A FOREIGN STUDENT? YES/NO

QUESTIONS

1. 1 2 3 4 5 6
2. 1 2 3 4 5 6
3. 1 2 3 4 5 6
4. 1 2 3 4 5 6
5. 1 2 3 4 5 6
6. 1 2 3 4 5 6
7. 1 2 3 4 5 6
8. 1 2 3 4 5 6
9. 1 2 3 4 5 6
10. 1 2 3 4 5 6
11. 1 2 3 4 5 6
12. 1 2 3 4 5 6
13. 1 2 3 4 5 6
14. 1 2 3 4 5 6
15. 1 2 3 4 5 6
16. 1 2 3 4 5 6
17. 1 2 3 4 5 6
18. 1 2 3 4 5 6
19. 1 2 3 4 5 6
20. 1 2 3 4 5 6

QUESTIONS

21. 1 2 3 4 5 6
22. 1 2 3 4 5 6
23. 1 2 3 4 5 6
24. 1 2 3 4 5 6
25. 1 2 3 4 5 6
26. 1 2 3 4 5 6
27. 1 2 3 4 5 6
28. 1 2 3 4 5 6
29. 1 2 3 4 5 6
30. 1 2 3 4 5 6
31. 1 2 3 4 5 6
32. 1 2 3 4 5 6
33. 1 2 3 4 5 6
34. 1 2 3 4 5 6
35. 1 2 3 4 5 6
36. 1 2 3 4 5 6
37. 1 2 3 4 5 6
38. 1 2 3 4 5 6
39. 1 2 3 4 5 6
40. 1 2 3 4 5 6

QUESTIONS

41. 1 2 3 4 5 6
42. 1 2 3 4 5 6
43. 1 2 3 4 5 6
44. 1 2 3 4 5 6
45. 1 2 3 4 5 6
46. 1 2 3 4 5 6
47. 1 2 3 4 5 6
48. 1 2 3 4 5 6
49. 1 2 3 4 5 6
50. 1 2 3 4 5 6
51. 1 2 3 4 5 6
52. 1 2 3 4 5 6
53. 1 2 3 4 5 6
54. 1 2 3 4 5 6
55. 1 2 3 4 5 6
56. 1 2 3 4 5 6
57. 1 2 3 4 5 6
58. 1 2 3 4 5 6
59. 1 2 3 4 5 6
60. 1 2 3 4 5 6
61. 1 2 3 4 5 6
62. 1 2 3 4 5 6
63. 1 2 3 4 5 6

QUESTIONS

64. 1 2 3 4 5 6
65. 1 2 3 4 5 6
66. 1 2 3 4 5 6
67. 1 2 3 4 5 6
68. 1 2 3 4 5 6
69. 1 2 3 4 5 6
70. 1 2 3 4 5 6
71. 1 2 3 4 5 6
72. 1 2 3 4 5 6
73. 1 2 3 4 5 6
74. 1 2 3 4 5 6
75. 1 2 3 4 5 6
76. 1 2 3 4 5 6
77. 1 2 3 4 5 6
78. 1 2 3 4 5 6
79. 1 2 3 4 5 6
80. 1 2 3 4 5 6
81. 1 2 3 4 5 6
82. 1 2 3 4 5 6
83. 1 2 3 4 5 6
84. 1 2 3 4 5 6
85. 1 2 3 4 5 6
86. 1 2 3 4 5 6

QUESTIONS

87. 1 2 3 4 5 6
88. 1 2 3 4 5 6
89. 1 2 3 4 5 6
90. 1 2 3 4 5 6
91. 1 2 3 4 5 6
92. 1 2 3 4 5 6
93. 1 2 3 4 5 6
94. 1 2 3 4 5 6
95. 1 2 3 4 5 6
96. 1 2 3 4 5 6
97. 1 2 3 4 5 6
98. 1 2 3 4 5 6
99. 1 2 3 4 5 6
100. 1 2 3 4 5 6
101. 1 2 3 4 5 6
102. 1 2 3 4 5 6
103. 1 2 3 4 5 6
104. 1 2 3 4 5 6
105. 1 2 3 4 5 6
106. 1 2 3 4 5 6
107. 1 2 3 4 5 6
108. 1 2 3 4 5 6
109. 1 2 3 4 5 6

QUESTIONS

110. 1 2 3 4 5 6
111. 1 2 3 4 5 6
112. 1 2 3 4 5 6
113. 1 2 3 4 5 6
114. 1 2 3 4 5 6
115. 1 2 3 4 5 6
116. 1 2 3 4 5 6
117. 1 2 3 4 5 6
118. 1 2 3 4 5 6
119. 1 2 3 4 5 6
120. 1 2 3 4 5 6
121. 1 2 3 4 5 6
122. 1 2 3 4 5 6
123. 1 2 3 4 5 6
124. 1 2 3 4 5 6
125. 1 2 3 4 5 6
126. 1 2 3 4 5 6
127. 1 2 3 4 5 6
128. 1 2 3 4 5 6
129. 1 2 3 4 5 6
130. 1 2 3 4 5 6
131. 1 2 3 4 5 6
132. 1 2 3 4 5 6

QUESTIONS

133. 1 2 3 4 5 6
134. 1 2 3 4 5 6
135. 1 2 3 4 5 6
136. 1 2 3 4 5 6
137. 1 2 3 4 5 6
138. 1 2 3 4 5 6
139. 1 2 3 4 5 6
140. 1 2 3 4 5 6
141. 1 2 3 4 5 6
142. 1 2 3 4 5 6
143. 1 2 3 4 5 6
144. 1 2 3 4 5 6
145. 1 2 3 4 5 6
146. 1 2 3 4 5 6
147. 1 2 3 4 5 6
148. 1 2 3 4 5 6
149. 1 2 3 4 5 6
150. 1 2 3 4 5 6
151. 1 2 3 4 5 6
152. 1 2 3 4 5 6
153. 1 2 3 4 5 6
154. 1 2 3 4 5 6
155. 1 2 3 4 5 6

QUESTIONS

156. 1 2 3 4 5 6
157. 1 2 3 4 5 6
158. 1 2 3 4 5 6
159. 1 2 3 4 5 6
160. 1 2 3 4 5 6
161. 1 2 3 4 5 6
162. 1 2 3 4 5 6
163. 1 2 3 4 5 6
164. 1 2 3 4 5 6
165. 1 2 3 4 5 6
166. 1 2 3 4 5 6
167. 1 2 3 4 5 6
168. 1 2 3 4 5 6
169. 1 2 3 4 5 6
170. 1 2 3 4 5 6
171. 1 2 3 4 5 6
172. 1 2 3 4 5 6
173. 1 2 3 4 5 6
174. 1 2 3 4 5 6
175. 1 2 3 4 5 6
176. 1 2 3 4 5 6
177. 1 2 3 4 5 6
178. 1 2 3 4 5 6

QUESTIONS

179. 1 2 3 4 5 6
180. 1 2 3 4 5 6
181. 1 2 3 4 5 6
182. 1 2 3 4 5 6
183. 1 2 3 4 5 6
184. 1 2 3 4 5 6
185. 1 2 3 4 5 6
186. 1 2 3 4 5 6
187. 1 2 3 4 5 6
188. 1 2 3 4 5 6
189. 1 2 3 4 5 6
190. 1 2 3 4 5 6
191. 1 2 3 4 5 6
192. 1 2 3 4 5 6
193. 1 2 3 4 5 6
194. 1 2 3 4 5 6
195. 1 2 3 4 5 6
196. 1 2 3 4 5 6
197. 1 2 3 4 5 6
198. 1 2 3 4 5 6
199. 1 2 3 4 5 6
200. 1 2 3 4 5 6
201. 1 2 3 4 5 6

QUESTIONS

202. 1 2 3 4 5 6
203. 1 2 3 4 5 6
204. 1 2 3 4 5 6
205. 1 2 3 4 5 6
206. 1 2 3 4 5 6
207. 1 2 3 4 5 6
208. 1 2 3 4 5 6
209. 1 2 3 4 5 6
210. 1 2 3 4 5 6
211. 1 2 3 4 5 6
212. 1 2 3 4 5 6
213. 1 2 3 4 5 6
214. 1 2 3 4 5 6
215. 1 2 3 4 5 6
216. 1 2 3 4 5 6
217. 1 2 3 4 5 6
218. 1 2 3 4 5 6
219. 1 2 3 4 5 6
220. 1 2 3 4 5 6
221. 1 2 3 4 5 6
222. 1 2 3 4 5 6
223. 1 2 3 4 5 6
224. 1 2 3 4 5 6

QUESTIONS

225. 1 2 3 4 5 6
226. 1 2 3 4 5 6
227. 1 2 3 4 5 6
228. 1 2 3 4 5 6
229. 1 2 3 4 5 6
230. 1 2 3 4 5 6
231. 1 2 3 4 5 6
232. 1 2 3 4 5 6
233. 1 2 3 4 5 6
234. 1 2 3 4 5 6
235. 1 2 3 4 5 6
236. 1 2 3 4 5 6
237. 1 2 3 4 5 6
238. 1 2 3 4 5 6
239. 1 2 3 4 5 6
240. 1 2 3 4 5 6
241. 1 2 3 4 5 6
242. 1 2 3 4 5 6
243. 1 2 3 4 5 6
244. 1 2 3 4 5 6
245. 1 2 3 4 5 6
246. 1 2 3 4 5 6
247. 1 2 3 4 5 6

QUESTIONS

248. 1 2 3 4 5 6
249. 1 2 3 4 5 6
250. 1 2 3 4 5 6
251. 1 2 3 4 5 6
252. 1 2 3 4 5 6
253. 1 2 3 4 5 6
254. 1 2 3 4 5 6
255. 1 2 3 4 5 6
256. 1 2 3 4 5 6
257. 1 2 3 4 5 6
258. 1 2 3 4 5 6
259. 1 2 3 4 5 6
260. 1 2 3 4 5 6
261. 1 2 3 4 5 6
262. 1 2 3 4 5 6
263. 1 2 3 4 5 6
264. 1 2 3 4 5 6
265. 1 2 3 4 5 6
266. 1 2 3 4 5 6
267. 1 2 3 4 5 6
268. 1 2 3 4 5 6
269. 1 2 3 4 5 6
270. 1 2 3 4 5 6

QUESTIONS

271. 1 2 3 4 5 6
272. 1 2 3 4 5 6
273. 1 2 3 4 5 6
274. 1 2 3 4 5 6
275. 1 2 3 4 5 6
276. 1 2 3 4 5 6
277. 1 2 3 4 5 6
278. 1 2 3 4 5 6
279. 1 2 3 4 5 6
280. 1 2 3 4 5 6
281. 1 2 3 4 5 6
282. 1 2 3 4 5 6
283. 1 2 3 4 5 6
284. 1 2 3 4 5 6
285. 1 2 3 4 5 6
286. 1 2 3 4 5 6
287. 1 2 3 4 5 6
288. 1 2 3 4 5 6
289. 1 2 3 4 5 6
290. 1 2 3 4 5 6
291. 1 2 3 4 5 6
292. 1 2 3 4 5 6
293. 1 2 3 4 5 6

QUESTIONS

294. 1 2 3 4 5 6
295. 1 2 3 4 5 6
296. 1 2 3 4 5 6
297. 1 2 3 4 5 6
298. 1 2 3 4 5 6
299. 1 2 3 4 5 6
300. 1 2 3 4 5 6
301. 1 2 3 4 5 6
302. 1 2 3 4 5 6
303. 1 2 3 4 5 6
304. 1 2 3 4 5 6
305. 1 2 3 4 5 6
306. 1 2 3 4 5 6
307. 1 2 3 4 5 6
308. 1 2 3 4 5 6
309. 1 2 3 4 5 6
310. 1 2 3 4 5 6
311. 1 2 3 4 5 6
312. 1 2 3 4 5 6
313. 1 2 3 4 5 6
314. 1 2 3 4 5 6
315. 1 2 3 4 5 6
316. 1 2 3 4 5 6

QUESTIONS

317. 1 2 3 4 5 6
318. 1 2 3 4 5 6
319. 1 2 3 4 5 6
320. 1 2 3 4 5 6
321. 1 2 3 4 5 6
322. 1 2 3 4 5 6
323. 1 2 3 4 5 6
324. 1 2 3 4 5 6
325. 1 2 3 4 5 6
326. 1 2 3 4 5 6
327. 1 2 3 4 5 6
328. 1 2 3 4 5 6
329. 1 2 3 4 5 6
330. 1 2 3 4 5 6
331. 1 2 3 4 5 6
332. 1 2 3 4 5 6
333. 1 2 3 4 5 6
334. 1 2 3 4 5 6
335. 1 2 3 4 5 6
336. 1 2 3 4 5 6
337. 1 2 3 4 5 6
338. 1 2 3 4 5 6
339. 1 2 3 4 5 6

QUESTIONS

340. 1 2 3 4 5 6
341. 1 2 3 4 5 6
342. 1 2 3 4 5 6
343. 1 2 3 4 5 6
344. 1 2 3 4 5 6
345. 1 2 3 4 5 6
346. 1 2 3 4 5 6
347. 1 2 3 4 5 6
348. 1 2 3 4 5 6
349. 1 2 3 4 5 6
350. 1 2 3 4 5 6
351. 1 2 3 4 5 6
352. 1 2 3 4 5 6
353. 1 2 3 4 5 6
354. 1 2 3 4 5 6
355. 1 2 3 4 5 6
356. 1 2 3 4 5 6
357. 1 2 3 4 5 6
358. 1 2 3 4 5 6
359. 1 2 3 4 5 6
360. 1 2 3 4 5 6
361. 1 2 3 4 5 6
362. 1 2 3 4 5 6

QUESTIONS

363. 1 2 3 4 5 6

364. 1 2 3 4 5 6

365. 1 2 3 4 5 6

366. 1 2 3 4 5 6

367. 1 2 3 4 5 6

368. 1 2 3 4 5 6

369. 1 2 3 4 5 6

370. 1 2 3 4 5 6

371. 1 2 3 4 5 6

Appendix G: Items Grouped According to Factors for Each Scale

(Only items with loading .30 or greater in one factor are shown.)

Family Self Scale

Factor 1

80. I am loved by members of my family.
126. I am loved by my parents. (Use past tense if parent(s) are not living.)
130. I am included in all family get togethers.
165. I am liked by my brother(s) and/or sister(s).
189. I take a real interest in my family.

Factor 2

10. I wish members of my family would listen to me more.
15. I should not tell so many lies to my family.
24. I wish I was closer with my family.
27. My opinion is considered in a family discussion.
190. I have trouble discussing different things with members of my family.

Social Self Scale

Factor 1

73. I am a shy person.
94. I do not feel at ease with people I do not know very well.
99. I should be more outgoing.
125. I do not like attending social gatherings when I only know a few people.
132. I will not initiate a conversation with someone I do not know very well.

170. I introduce myself to people I do not know at social gatherings.

Factor 2

13. I have little in common with others.

40. I can make friends easily.

172. I am satisfied with my relationship(s) with the opposite sex.

196. I do not feel like an outcast at parties.

Religious Self Scale

Factor 1

1. I am satisfied in my belief that God is or is not constantly with us.

7. I am happy that Religion is part or not part of my life.

28. I am satisfied with my belief in an "Almighty Being".

95. I am satisfied with my belief or disbelief that God is the final judge of my behaviour.

123. I am glad to be known as a religious or non-religious person.

Factor 2

55. I am not satisfied with my conception of a Heaven and Hell.

78. I am not satisfied with my religious beliefs.

90. I am not true to my religious beliefs in my everyday life.

171. I am not satisfied with my relationship with God.

Occupational Self Scale

Factor 1

16. I am a happy person.

141. I am the person that I want to be.

Factor 2

- 20. I lack confidence.
- 32. I would like to change my daily life style.
- 53. I wish I could do something different with my life.

Factor 3

- 173. I dread waking up in the morning.
- 185. I would not miss anything if I spent a day in bed.
- 199. I believe each day is a routine.

Masculine/Feminine Self ScaleFactor 1

- 11. I do not feel inadequate because of my sex.
- 18. I believe there are positive aspects to my gender.
- 31. I believe I am a person first and a male/female second.
- 58. I believe it is the individual rather than the gender of a person that determines success.

Factor 2

- 84. I like my sexuality.
- 110. I do not doubt my sexual powers.
- 128. If I could change my gender, most of my problems would be over.
- 160. My gender does not have a major influence in what I do. I do things because I want to do it, not because of my sex.
- 191. I wish I was the opposite sex.

Factor 3

41. I am upset when I realize that my sex has placed certain limitations upon me.
74. I feel I am under-rated as a direct result of my sex.
97. I consciously do things against my prescribed sex roles, just because they are prescribed sex roles.
147. I get upset when I get something as a result of my sexuality.

Factor 4

14. At times I feel helpless as a result of my sex.

Body Self ScaleFactor 1

57. I wish I could change my appearance in different ways.
108. I am not satisfied with my physical stamina.
116. I like the shape of my legs.
119. I wish I could change the appearance of my hair.
131. I wish I was thinner or fatter.
140. I wish I could have cosmetic surgery done to parts of my body.
197. I wish I could change things about my physical appearance.

Factor 2

19. I know I do not have the appearance that can attract the opposite sex.
77. I like the voice I have.
121. I feel good about my appearance.
181. I am dissatisfied with my facial appearance.

Factor 3

183. I like the appearance of my teeth.

Past/Present/Future ScaleFactor 1

2. I take each day as it comes.

43. I believe you should enjoy life now and not worry about tomorrow.

45. My present life is all that counts at this time.

59. I plan my life on a day to day schedule.

162. I like to live my life day to day.

203. I live day by day.

Factor 2

112. My memories are the only things very dear to me.

142. Only my past has meaning for me.

144. My past life is the only time that has significance for me.

Factor 3

23. I worry about what I presently do because I know it will influence my future.

62. I am a person who lives for the future.

89. I believe each day is a stepping stone for my future.

120. The future is all that matters for me.

136. I believe that people that live in their past or just for the present are foolish.

151. I feel driven towards my future.

Factor 4

70. I wish I was living in my past.

Public Self ScaleFactor 1

81. I often get upset with myself for things I have done.
86. I try to impress people more than I should.
88. I am not satisfied with my behaviour because it is not me.
122. I feel inadequate, just being me.
145. I am not satisfied with myself because of things I have done or said.
157. I get upset when I try to get along with everyone.
177. I am tired of pretending to be someone I am not.
207. I have the reputation I want.

Factor 2

79. I try to be me, in any situation.
93. I always try to be myself even though it means others may not approve.
111. I am what I am and people must accept me as I am.
135. I rarely feel that I am not self reliant.
137. I do things because I want to do them.
154. I am a person that has my own beliefs and values.
195. I am only influenced by others when I want to be.

Empathy ScaleFactor 1

92. I must admit I often try to get my own way regardless of what others may want.
134. I would certainly enjoy beating a crook at his/her own game.
150. I like to keep people guessing what I'm going to do next.
158. Sometimes I rather enjoy going against the rules and doing things I'm not supposed to.
209. People have often misunderstood my intentions when I was trying to put them right and be helpful.

Factor 2

64. I am a good mixer.
76. I usually take an active part in the entertainment at parties.
104. I enjoy the company of strong-willed people.

Factor 3

65. What others think of me does not bother me.
208. I don't really care whether people like me or dislike me.

Factor 4

96. I tend to be interested in several different hobbies rather than to stick to one of them for a long time.
117. The trouble with many people is that they don't take things seriously enough.
182. I have at one time or another in my life tried my hand at writing poetry.

Factor 5

100. When a man is with a woman he is usually thinking about things related to her sex.

Self Esteem ScaleFactor 1

103. I feel that I have a number of good qualities.
138. I feel I do not have much to be proud of.
161. I am able to do things as well as most other people.
184. I feel that I'm a person of worth, at least on an equal plane with others.

Factor 2

102. I wish I could have respect for myself.
194. I certainly feel useless at times.

Altruism ScaleFactor 1

3. If I had a fall out shelter, I would let my neighbours stay in it during a nuclear attack.
35. I inwardly dislike putting myself out to help others.
39. I would not risk my own life and limb in order to help someone else.
149. I would stop and help a person whose car is disabled.
164. I do not hesitate to go out of my way to help someone in trouble.

Factor 2

33. I am conceited.
42. I pretend to care more for others than I really do.
168. Disobedience to the government is never justified.

Factor 3

56. I try to apply the Golden Rule even in today's complex society.
101. "Do unto others as you would have them do unto you" is a motto I follow.

Purpose in Life ScaleFactor 2

21. My personal existence is utterly meaningless, without purpose.
163. I am a very irresponsible person.
202. Life to me seems always exciting.

Factor 3

48. My life is empty, filled only with despair.
54. As I view the world in relation to my life, the world completely confuses me.
174. In achieving life goals I have made no progress whatever.
175. I am usually completely bored.

Factor 4

4. Facing my daily tasks is a source of pleasure and satisfaction.
72. With regard to death, I am prepared and unafraid.
115. Every day is constantly new and different.

Lie ScaleFactor 1

75. I sometimes put off until tomorrow what I ought to do today.
87. I sometimes get cross.
139. Once in awhile I lose my temper and get angry.
146. I sometimes gossip.

Factor 2

44. Occasionally I have thoughts and ideas that I would not like other people to know about.
68. I have been late for an appointment or work.
71. Sometimes I have told lies in my life.

Factor 3

8. I sometimes laugh at a dirty joke.
29. Of all the people I know there are some whom I definitely do not like.

Factor 4

5. I would rather win, than lose a game.
133. I am completely free from prejudices of any kind.

Factor 5

36. If I say I will do something, I always keep my promise, no matter how inconvenient it might be to do so.
69. I always answer a personal letter as soon as I can after I have read it.

REFERENCES

- Adams, J. L. and Fitts, W. H. The Development of the Self Concept. In W. H. Fitts, J. L. Adams, G. Radford, Thompson, The Self Concept and Self-Actualization. Nashville, Tennessee: Counselor Recordings and Tests, Dede Wallace Center Monograph No. 3, 1971, 27-38.
- Adler, A. The Practice and Theory of Individual Psychology (2nd Ed. Revised). Translated by P. Radin, London: Routledge and Kegan Paul Ltd., 1929.
- Adler, A. Understanding Human Nature. New York: Fawcett World Library, 1954.
- Allport, G. W. Becoming: Basic Considerations for a Psychology of Personality. New Haven: Yale University Press Inc., 1955.
- Allport, G. W. Pattern and Growth in Personality. New York: Holt, Rinehart and Winston, Inc., 1961.
- Allport, G. W. The Person in Psychology. Boston: Beacon Press, 1968.
- Anastasi, A. Psychological Testing (4th ed.). New York: MacMillan Publishing Co., Inc., 1976.
- Aronford, J. The Socialization of Altruistic and Sympathetic Behaviour: Some Theoretical and Experimental Analysis. Altruism and Helping Behaviour. Macaulay, J. and Berkowitz, L. (ed.) New York: Academic Press, 1970, 103-126.
- Bandura, A. and Rosenthal, T. Vicarious Classical Conditioning as a Function of Arousal Level. Journal of Personality and Social Psychology. 1966, 3, 54-62.
- Bem, D. J. Self-Perception Theory. In L. Berkowitz (ed.) Advances in Experimental Social Psychology (Vol. 6). New York: Academic Press, 1972.
- Bentler, P. M. In Buros, O.K. (ed.). Seventh Mental Measurement Yearbook. New Jersey: The Gryphon Press, 1972, 1, 366-367.
- Berg, I. A. (ed.) Response Set in Personality Assessment. Chicago: Aldine Publishing Co., 1967.
- Berger, E. The Relations Between Expressed Acceptance of Self and Expressed Acceptance of Others. Journal of Abnormal and Social Psychology. 1952, 47, 778-782.
- Bills, R., Vance, E. and Mclean, O. An Index of Adjustment and Values. Journal of Consulting Psychology. 1951, 15, 257-261.
- Braun, J. R. In Buros, O. K. (ed.). Seventh Mental Measurement Yearbook. New Jersey: The Gryphon Press, 1972, 1, 313-314.

- Burns, R. B. The Self Concept. New York: Longman Inc., 1979.
- Buros, O. K. (ed.). Seventh Mental Measurement Yearbook. New Jersey: The Gryphon Press, 1972, 1.
- Butler, J. and Haigh, G. Changes in the Relation Between Self-Concepts and Ideal-Concepts Consequent upon Client-Centered Counselling. Psychotherapy and Personality Change. Rogers, C. R. and Dymond, R. F. (ed.), Chicago Press, 1954, 55-75.
- Cattell, R. B. and Eber, H. W. Handbook for the Sixteen Personality Factor Questionnaire. Champaign, Ill.: I.P.A.T., 1962.
- Cattell, R. B. and Eber, H. W. The Sixteen Personality Factor Questionnaire. Champaign, Ill.: I.P.A.T., 1961.
- Charkhuff, R. The Development of Human Resources. New York: Holt, Rinehart and Winston, Inc., 1971.
- Chein, I. The Awareness of Self and the Structure of the Ego. Psychological Review, 1944, 51, 304-315.
- Combs, A. W. The Self in Chaos. Contemporary Psychology, 1962, 1, 53-54.
- Combs, A. W. and Snygg, D. Individual Behaviour: A Perceptual Approach. (Rev. ed.). New York: Harper and Row, Publishers, 1959.
- Cooley, C. H. Human Nature and the Social Order (2nd Printing). New York: Schocken Books, Inc., 1967.
- Coopersmith, S. The Antecedents of Self-Esteem. San Francisco: W. H. Freeman and Co., 1967.
- Cottrell, L. S. and Dymond, R. A. The Empathic Responses: A Neglected Field for Research. Psychiatry. 1949, 12, 355-359.
- Crites, J. O. Test Reviews. Journal of Counselling Psychology. 1965, 12 (3), 330-331.
- Cronbach, L. J. Essentials of Psychological Testing (2nd Ed.). New York: Harper and Row, 1960.
- Cronbach, L. J. Essentials of Psychological Testing (3rd Ed.). New York: Harper and Row Publishers, 1970.

- Crumbaugh, J. Cross-Validation of Purpose-in-Life Test Based on Frank's Concepts. Journal of Individual Psychology. 1968, 24, 74-81.
- Crumbaugh, J. C. and Moholick, L. T. Manual of Instructions for the Purpose-in-Life Test. Indiana: Psychometric Affiliates, 1969.
- De Levita, D. J. The Concept of Identity. Paris: Mouton and Co., 1965.
- Domino, G. In Buros, O. K. (ed.). Seventh Mental Measurement Yearbook. New Jersey: The Gryphon Press, 1972, 1, 314-315.
- Doyles, S. E. Effects of a Sensitivity Training Laboratory Experience on Self Disclosure, Self-Esteem and Social Desirability. Unpublished Master's Thesis, George Peabody College, 1969.
- Edwards, A. L. The Measurement of Personality Traits by Scales and Inventories. New York: Holt, Rinehart and Winston, Inc., 1970.
- Edwards, A. L. The Social Desirability Variable in Personality Assessment and Research. New York: The Dryden Press, 1957.
- Edwards, A. L. The Social Desirability Variable: A Broad Statement. Response Set in Personality Assessment. Berg, I. A. (ed.). Chicago: Aldine Publishing Co., 1967 (a), 32-47.
- Edwards, A. L. The Social Desirability Variable: A Review of the Evidence. Response Set in Personality Assessment. Berg, I. A. (ed.). Chicago: Aldine Publishing Co., 1967 (b), 48-70.
- Erikson, E. H. Identity: Youth and Crisis. London: Faber and Faber Ltd., 1968.
- Eysenck, H. J. The Structure of Human Personality. New York: John Wiley and Sons Inc., 1960.
- Eysenck, H. J. and Eysenck, S. Eysenck Personality Inventory Manual. San Diego, California: Educational and Industrial Testing Service, 1968.
- Festinger, L. A. Theory of Social Comparison Process. Human Relation. 1954, 7, 117-140.
- Fitts, W. H. A Conceptualization of the Self Concept. In W. H. Fitts, J. L. Adams, G. Radford, W. C. Richard, B. K. Thomas, M. M. Thomas, and W. Thompson. The Self Concept and Self-Actualization. Nashville, Tennessee: Counselor Recordings and Tests, Dede Wallace Center, Monograph No. 3, 1971, 11-26.

- Fitts, W. H. Manual Tennessee Self Concept Scale. Department of Mental Health, Nashville: Counselor Recording and Tests, 1965.
- Fitts, W. H., Adams, J. L., Radford, G., Richard, W. C., Thomas, B.K., Thomas, M. M. and Thompson, W. The Self Concept and Self-Actualization. Nashville, Tennessee. Counselor Recordings and Tests, Dede Wallace Centre, Monograph No. 3, 1971.
- Frankl, V. E. The Doctor and the Soul: From Psychotherapy to Logotherapy. New York: Vintage Books (Trans. by Richard and Clara Winston). Second, expanded edition, 1973.
- Freud, S. The Ego and the Id. London: Hogarth, 1950.
- Fromm, E. Escape from Freedom. New York: Holdt, Rinehart and Winston, Inc., 1941.
- Fromm, E. Value, Psychology, and Human Existence. In A. H. Maslow (ed.) New Knowledge in Human Values. New York: Harper and Row, Publishers, 1959.
- Gable, R. K., LaSalle, A. J. and Cook, K. E. Dimensionality of Self-Perception: Tennessee Self-Concept Scale. Perceptual and Motor Skills. 1973, 36, 551-560.
- Gergen, K. J. The Concept of Self. New York: Holt, Rinehart and Winston, Inc., 1971.
- Goffman, E. Interaction Ritual: Essays in Face-to-Face Behaviour. Chicago: Aldine Press., 1969.
- Gough, H. G. California Psychological Inventory Manual. California: Consulting Psychologists Press, 1957.
- Gough, H. G. and Heilbrun, A. B. The Adjective Check List Manual. California: Consulting Psychologists Press, Inc., 1965.
- Greenberg, G. and Frank, G. Response Set in the Tennessee Department of Mental health Self-Concept Scale. Journal of Clinical Psychology. 1965, 21, 287-288.
- Grief, E. B. and Hogan, R. The Theory and Measurement of Emphathy. Journal of Counseling Psychology. 1973, 20 (3), 280-284.
- Guilford, J. P. Psychometric Methods. New York: McGraw-Hill, 1954.
- Hathaway, S. R. and McKinley, J. C. Minnesota Multiphasic Personality Inventory Revised Manual. New York: McGraw-Hill Books, Inc., 1970.

- Hensley, W. E. and Roberts, M. K. Dimensions of the Rosenberg's Self-Esteem Scale. Psychological Reports. 1976, 38, 583-584.
- Hickman, C. A. and Kuhn, M. H. Individuals, Groups, and Economic Behavior. New York: Dryden Press, 1956.
- Hogan, R. Development of an Empathy Scale. Journal of Consulting and Clinical Psychology. 1969, 33 (3), 307-316.
- Hogan, R. Moral Conduct and Moral Character: A Psychological Perspective. Psychological Bulletin. 1973, 79, 217-232.
- Horney, K. Neurosis and Human Growth. New York: Norton and Co., Inc., 1950.
- Horrocks, J. E. and Jackson, D. W. Self and Role: A Theory of Self Process and Role Behaviour. Boston: Houghton Mifflin Co., 1972.
- Hsu, F. L. K. (ed.). Aspects of Culture and Personality. New York: Abelard-Schuman, Inc., 1954.
- Hull, C. H. and Nie, N. Statistical Package for the Social Sciences Update, New Procedures and Facilities for Releases 7 and 8. New York: McGraw-Hill Book Co., 1979.
- Jackson, D. N. Acquiescence Response Styles: Problems of Identification and Control. Response Set in Personality Assessment. Berg, I. A. (ed.). Chicago: Aldine Publishing Co., 1967, 71-114.
- Jersild, A. T. Child Psychology (5th ed.). Englewood Cliffs, New Jersey: Prentice-Hall, 1960.
- Jourard, S. M. Disclosing Man to Himself. Princeton: Van Nostrand, 1968.
- Jourard, S. M. Healthy Personality: An Approach from the Viewpoint of Humanistic Psychology. New York: MacMillan Publishing Co., Inc., 1974.
- Jourard, S. M. Personal Adjustment: An Approach Through the Study of Healthy Personality (2nd ed.). New York: MacMillan Co., 1963.
- Jung, C. G. Aion: Researches into the Phenomenology of the Self. Routledge and Kezan Paul Ltd., 1959. (Bollinger Series XX, Collected Works of C. G. Jung. Vol. 9, Part II, edited by H. Read, M. Fordham, and G. Adler.)

- Jung, C. G. The Development of Personality. New York: Plantheon Books, 1954. (Bollinger Series XX, Collected Works of C. G. Jung. Vol. 17, edited by H. Read, M. Fordham, and G. Adler.)
- Jung, C. G. Modern Man in Search of a Soul. New York: Harcourt, Brace, 1933.
- Jung, C. G. Psychological Types. New Jersey: Princeton University Press, 1971. (Bollinger Series XX, Collected Works of C. G. Jung. Vol. 6, edited by H. Read, M. Fordman, and G. Adler.)
- Jung, C. G. Psychology and Religion: West and East (2nd ed.). New Jersey: Princeton University Press, 1969. (Bollinger Series XX, Collected Works of C. G. Jung. Vol. II, edited by H. Read, M. Fordham, and G. Adler.)
- Jung, C. G. Two Essays on Analytical Psychology. New York: Plantheon Books, 1953. (Bollinger Series XX, Collected Works of C. G. Jung. Vol. 7, edited by H. Read, M. Fordham, and G. Adler.)
- Kaplan, R. M. and Saccuzzo, D. P. Psychological Testing Principles, Applications, and Issues. California: Brooks/Cole Publishing Company, 1982.
- Kuhn, M. H. Factors in Personality: Socio-Cultural Determinants as Seen Through the Amish. In F. L. K. Hsu (ed.), Aspects of Culture and Personality. New York: Abelard-Schuman, Inc., 1954, 43-60.
- Kubs, D. L. Altruism - An Examination of the Concept and a Review of the Literature. Psychological Bulletin. 1970, 73 (4), 258-302.
- Maslow, A. H. A Dynamic Theory of Human Motivation. In C. L. Stacey and M. F. De Martino (ed.) Understanding Human Motivations. Cleveland: Howard Allen, Inc., 1958.
- Maslow, A. H. Motivation and Personality, 2nd Ed. New York: Harper and Row, Publishers, 1970.
- Maslow, A. H. New Knowledge in Human Values. New York: Harper and Row, Publishers, 1959.
- Maslow, A. H. Toward a Psychology of Being, 2nd Ed. New York: D. Van Nostrand Co., 1968.
- May, R. The Emergence of Existential Psychology. In R. May (ed.) Existential Psychology. New York: Random House Inc., 1969, 1-48.
- May, R. (ed.). Existential Psychology. New York: Random House Inc., 1969.
- May, R. Man's Search for Himself. New York: Dell Publishing Co., Inc., 1953.

- Mead, G. H. Mind, Self, and Society. Chicago: University Press, 1934.
- Megargee, E. The California Psychological Inventory Handbook. San Francisco: Jossey-Bass, Inc., 1972.
- Murphy, G. Personality: A Biosocial Approach to Origins and Structure. New York: Basic Books, Inc., 1966.
- Nie, N., Hull, C. H., Jenkins, J. G., Steinbrenner, K. and Bent, D. H. Statistical Package for the Social Sciences, Second Edition, New York: McGraw-Hill Book Co., 1975.
- Nunnally, J. C. Introduction to Psychological Measurements. New York: McGraw-Hill Books Inc., 1970.
- Nunnally, J. C. Psychometric Theory. New York: McGraw-hill, 1967.
- Nunnally, J. C. Psychometric Theory. 2nd Ed. New York: McGraw-hill Book Co., 1978.
- Penrod, S. Social Psychology. (2nd ed.). New Jersey: Prentice Hall, 1986.
- Perls, F. Gestalt Therapy Verbatim. Lafayette, C.A.: Real People Press, 1969.
- Perls, F. In and Out of the Garbage Pail. Lafayette, California: Real People Press, 1969.
- Perry, D. G. and Bussy, K. Social Development. New Jersey: Prentice Hall, 1984.
- Phillips, E. Attitudes Toward Self and Others: A Brief Questionnaire Report. Journal of Consulting Psychology. 1951, 15, 79-81.
- Piers, E. Manual for the Piers-Harris Children's Self Concept Scale. Nashville, Tennessee: Counselor Recordings and Tests, 1969.
- Piers, E. and Harris, D. The Piers-Harris Children's Self-Concept Scale. Nashville, Tennessee: Counselor Recordings and Tests, 1969.
- Poland, R. Human Experience: A Psychology of Growth. St. Louis: The C. V. Mosley Co., 1974.
- Radford, G., Thompson, W. and Fitts, W. H. The Measurement of the Self Concept. In W. H. Fitts, J. L. Adams, G. Radford, W. C. Richard, B. K. Thomas, M. M. Thomas, and W. Thompson, The Self Concept and Self-Actualization. Nashville, Tennessee: Counselor Recordings and Tests, Dede Wallace Center Monograph No. 3, 1971, 39-64.

- Robinson, R. and Shaver, P. Measures of Social Psychological Attitudes. Michigan: Survey Research Center Institute for Social Research, The University of Michigan Revised Edition, 1973.
- Rogers, C. R. Client-Centered Therapy: Its Current Practice, Implications, and Theory. Boston: Houghton Mifflin Co., 1951.
- Rogers, C. R. On Becoming a Person. Boston: Houghton Mifflin Co., 1961.
- Rogers, C. R. and Dymond, R. F. (ed.). Psychotherapy and Personality Change: Co-ordinated Research Studies in the Client-Centered Approach. Chicago: University of Chicago Press, 1954.
- Rosenberg, M. Conceiving the Self. New York: Basic Books, Inc., Publishers, 1979.
- Rosenberg, M. Society and the Adolescent Self-Image. Princeton, New Jersey: Princeton University Press, 1965.
- Sawyer, J. The Altruism Scale: A Measure of Co-operative Individualistic and Competitive Interpersonal Orientation. American Journal of Sociology. 1966, 71 (4), 407-416.
- Shapiro, A. The Relationship Between Self Concept and Self-Disclosure. Unpublished Doctoral Dissertation, Purdue University, 1968. Effects of a Sensory Training Laboratory Experience on Self-Disclosure, Self-Esteem and Social Desirability. Doyles, S. E. Tennessee: Unpublished Master's Thesis, George Peabody College, 1969.
- Shostrom, E. EITS Manual for the Personal Orientation Inventory. California: Educational and Industrial Testing Service, 1966, supplemented 1968.
- Silber, E. and Tippett, J. S. Self-Esteem: Clinical Assessment and Measurement Validation. Psychological Reports. 1965, 16, 1017-1071.
- Spitzer, S., Couch, C. and Stratton, J. The Assessment of the Self. Iowa City: Sernoll, Inc., 1971.
- Stacey, C. L. and De Martino, M. F. (eds.). Understanding Human Motivations. Cleveland: Howard Allen, Inc., 1958.
- Stone, S. and Farberman, H. Social Psychology Through Symbolic Interaction. Massachusetts: Ginn-Blaisdell and Co., 1970.
- Suinn, R. M. In Buros, O. K. (ed.). Seventh Mental Measurement Yearbook. New Jersey: The Gryphon Press, 1972, 1, 367-369.

- Sullivan, H. S. The Interpersonal Theory of Psychiatry. New York: Norton and Co., Inc., 1953.
- Sullivan, H. S. The Psychiatric Interview (edited by H. S. Perry and M. L. Gawel). New York: W. W. Norton and Co. Inc., 1954.
- Symonds, P. M. The Ego and the Self. New York: Appleton-Century-Crofts, 1951.
- Thompson, W. Correlates of the Self-Concept: Studies on the Self Concept and Rehabilitation. Nashville, Tennessee: Counselor Recordings and Tests, Dede Wallace Center Monograph No. 6, 1972.
- Vacchiano, R. and Strauss, P. The Construct Validity of the Tennessee Self Concept Scale. Journal of Clinical Psychology. 1964, 14, 743-751.
- Wright, D. The Psychology of Moral Behaviour. Baltimore, MD: Penguin, 1972.
- Wrightsman, L. Measurement of Philosophies of Human Nature. Psychological Reports. 1964, 14, 743-751.
- Wylie, R. C. The Self-Concept: A Critical Survey of Pertinent Research Literature. Nebraska: University of Nebraska Press, 1961.
- Wylie, R. C. The Self-Concept: Vol. A. Review of Methodological Considerations and Measuring Instruments. Nebraska: University of Nebraska Press, 2, 1979.
- Ziller, R., Hagery, J., Smith, M. and Long, B. Self-Esteem: A Self-Social Construct. Journal of Consulting and Clinical Psychology. 1969, 33, 84-95.