17450

NATIONAL-LIBRARY



BIBLIOTHÈQUE NATIONALE OTTAWA

SITA

t ø

CLIFFORD INDI BEREPIKI NAME OF AUTHOR. NON COGANVE VARIABLES AND TITLE OF THESIS.... SELP - PERCEIVED ACHINEMENT

UNIVERSITY. University of Alberta DEGREE FOR WHICH THESIS WAS PRESENTED. PLD YEAR THIS DEGREE GRANTED. July 5, 1973.

Permission is hereby grantad to THE NATIONAL LIBRARY OF CANADA to microfilm this thesis and to lend or sell copies of the film.

The author reserves other publication rights, and neither the thesis nor extensive extracts from it may be printed or otherwise reproduced without the author's

written permission. DORESS: (Signed). PERMANENT ADDRESS MINISTRY OF EDUCATION BORT HARCOURT KNERS STARE OF NIGERIA

## THE UNIVERSITY OF ALBERTA

# "NON-COONITIVE VARIABLES AND SELF-PERCEIVED ACHIEVEMENT".

BY

CLIFFORD IWO BEREPIKI

## A DISSERTATION

SUBMITTED TO THE FACULTY OF GRADUATE STUDIES AND RESEARCH

IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE DEGREE

OF DOCTOR OF PHILOSOPHY

IN EDUCATIONAL PSYCHOLOGY

## L DEPARIMENT OF EDUCATIONAL PSYCHOLOGY

EDMONTON, -ALBERTA

FALL - 1973

#### THE UNIVERSITY OF ALBERTA

#### FACULTY OF GRADUATE STUDIES AND RESEARCH

The undersigned certify that they have read, and recommend to the Faculty of Graduate Studies and Research, for acceptance, a dissertation entitled "Non-Cognitive Variables and Self-Perceived Achievement" submitted by Clifford Two Berepiki in partial fulfilment of the requirements for the degree of Doctor of Philosophy in Educational Psychology.

10.0

Ram Krishna Cubb Supervisor

phinidt

External Examiner

Date, July 5. 1973

NO W

#### ABSTRACT

The main purpose of this research was to examine Self-Perceived Achievement' (SPA) of high school students in the context of twentyeight non-cognitive variables,

SPA was purported to reflect the qualitative self-evaluation by the student himself as to how, in his own view, he is doing in his academic work. It is thus assumed to be presult of the youth's feelings in relation to his actual academic achievement, his own life aspiration, intellectual ability, etc. Empirically, SPA was taken to mean the students' responses to:

"Which of the following best describes the kind of grades or marks you get at school?"

Excellent grades Above Average grades Average grades Below Average grades Vetý Low gradios:

The twenty-eight variables consisted of eighteen scales and ten pieces of information, biographical and demographic in nature. All the variables came from the Youth Research Center Survey Questionnaire (Strommen and Cupta, 1971). The scales indicate beliefs, concerns and values of high school youth. Each of the variables had two, three, four or five (e.g. SPA) levels as the case may be.

The sample consisted of 6534 North American Youths who were high school students in 1969/70 in the United States of America. It was drawn by using multi-stage-proportionate-random sampling technique.

The data obtained were examined primarily through Analysis of Variance (ANOVA). There were geslam factorial designs containing two, three, or four factors in each. The analyses of data were limited to the first order interactions, simple and overall main effects. Contrasts were examined where necessary. Higher order interactions' were not considered.

The results from each design were given separately, with occasional practical implications. Correlation of SPA with each of the Atwenty-eight variables was also calculated mainly for the sake of curiosity. A number of interesting results were found, several having important practical implications.

The writer wishes to express his sincere gratitude to all those who have contributed in various ways to the successful completion of this research. Probably, it would have been difficult without them.

ACKNOWLADCEMENTS

To them it is "O MIE TE" (Thank you all) -- (in Kalabari-ljaw: Nigeria).

lle particularly acknowledges gratefully the selfless sacrifice and devotion of members of his committee in directing this research. They are in alphabetic order: Prof. J. Goldberg, Dr. R.K. Gupta (Chairman), Dr. M. Mohan (External Examiner), Dr. (Mme) M. Monod, Dr. V. Nyberg, and Dr. W.H.O. Schmidt.

To Dr. R.K. Gupta, his mentor, the writer owes's debt of gratitude for his undaunted cooperation in initiating and directing this research through to its present form. Dr. Gupta was not only the writer's academic oun thesis supervisor but also a sincere friend and confident whose warmth and reassurance were invaluable.

Thanks and due to Dr. M.P. Stromman and Dr. R.K. Gupta, co-authors' of the Youth Research Center Survey, for making the instrument and the data available to facilitate this study.

Grateful wishes are due to the Edmonton Public and Separate School Boards for their assistance in an initial pilot study.

The writer also acknowledges with thanks the finantial support. In had from the University of Alberts. He destived Graduate Service/ Research Assistantianip (2971/721) Graduate Teaching Assistants (1972/73) and intersession Bursarles. For these he is very grateful to Dr. B.R. Corman (former Chairman), and his successor, Dr. W.H.O. Schmidt.

The computer analysis of the data was considerably facilitated by Dr. S. Hunka, the Director of the Educational Research Serivces, University of Alberta. The writer expresses his special appreciation to him,

The Government of the Rivers State of Nigeria, the writer's employer, deserves sincere thanks for according him a study-leave in the face of an acute manpower shortage.

Above all, the writer is indebted to his wife, Eva, for so patiently bearing his long absence. She has been the main source of his inspiration and motivation in pursuing this research abroad. In appreciation of her sustained devotion therefore, this research is dedicated to her and the children.

### TABLE OF CONTENTS

. . '

•

CHAPTER	PAGE
I. INTRODUCTION	Ì
Background of the Study	2
The Problem	8
Significance of the Study	10
II. REVIEW OF LITERATURE	
Parental or Familial Contribution to Achievement	14
Achievement and Self Concept of Ability	
Academic Achievement and Within-School' Problems	
A The School	
School Teachefs	
The Peers	
Achievement and Self and Social Interaction	•
Literature on Additional Variables	1
Age	22
· Socio-Economic Status of Parents	
Religiosity	24
Religious Affiliation	25
Parent's/Quardian's Educational Status	26
Use of Drug (including Alcohol)	27
Family Unit	28
Type of School Attending	29
Size of Family	
III. INSTRUMENT; POPULATION, SAMPLE, DATA AND THEIR MALYS	ES- 32
-The Instrument and Its Rationale	32

يند. روچه

4

ili Tangan

j.

e Life Anna A

na shekara Tabu ta 1853 Anna ana an .

ġ

CHAPTER	PAGE
Sampling Procedures	
The Sample	
The YRC Scales	•
Reliability	
Validity	
"The Data'	
Statistical Procedures for Analyses of Data	C C
The Design of the Study,	
Analyses of Data	
IV. HYPOTHESES, ANALYSES OF DATA, RESULTS AND DISCUSSION	
Structural Models	
General Procedures for Examining Factorial Designs	•
Guide for Interpreting Levels of 18 Scales (Variables)	
Factorial Designs	
Results and Discussions	- 73
Design #2.1; Within School Problems: Academic Schoolems	- 75
and Classenam Dalationation Trace	- 75
Design #2.2: Self and Social Interaction (Part 11)	
Meaningful Life Overall Main Effect	- 82
Human Relations Overall Main Effect	- 84
Design #3.1; Self Esteem or Self Regard (Part 11)	•
Moral Responsibility Overall Main Effect	
Design #3,2: Self and Social Interaction (Part 11)	- 67
National Issues and Orientation for Change Interaction	
	18 🔥 🔒 🕹
	- 92

, ¥

Family Unity and Family Pressure Interaction

d.

10 m

1. 14

a (\* 27

s definition

CHAPTER

6.1

Parental Understanding and Family Pressure Interaction	on- 97	
Family Social Congerns Overall Main Effect	102	
Design #4.2: Self Esteem or Self Regard (Part i)		
Personal Faults and Maturity of Values Interaction		
Personal Faults and Self Regard Interaction		
Lack of Self Confidence Overall Main Effect		
Doin #4.2	• •	. 1
•	- 114	•
Socio-Economic Status of Parents and Sex Interaction-		
Socio-Economic Status of Parents and Parent's/Guardia	n's	
Educational Status Interaction	- 117	• •
Sex and Age Interaction	- 119	•
Design #4.4	- 122	1.
	, כאו ייי	
		٤
Socio-Economic Status of Parents and Parent's/Guardian	าร	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123	• (ر
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123	· <b>\</b>
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123 126 126 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123 126 126 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction Family Unit Overall Main Effect Size of Family Overall Main Effect Opsign #4.5- Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction Religiosity of Youths and Socio-Economic Status of Parents Interaction	1's 123 123 126 126 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Educational Status Interaction	1's 123 123 126 126 126 126	
Socio-Economic Status of Parents and Parent's/Guardian Fducational Status Interaction	1's 123 123 126 126 126 126	

111

Ľ.

( 23) 13

ſ

PAGE

 $\sim t'$ 

٨.

• \*

ER (	PAGE
Interaction	134
Drug (including Alcohol), Usage and Size of Family	
Interaction	137
Design #4.7	142
Type of School Attending and Parent's/Guardian's Edu	
Status Interaction	
Socio-Economic Status of Parents and Parent's/Guard	
Status Interaction	
Dape of School Attending and Size of Family Interact	ion 146
Design #4.8	150
Religiosity of Youths and Type of School Attending	•
Interaction	150
Religiosity of Youths and Drug Usage Interaction	156
Type of School Attending and Drug Usage Interaction-	
Drug Usage and Religious Affiliation Interaction	
earson Product Operelations: An Ancilliary Analysis	165
UMMARY, FINDINGS, IMPLICATIONS AND SUGGESTIONS	168
Autority -	168
indings and Their Implications	172 ·
Destons #2.1 - 4.8) Sugginetions for Further Research-	- 16
IBLICRAPHY	- 190.

Result of Pilot Study in regard Appendix B: The Instrument Questionnaire for the 28 ables VAL 218

 $\mathbb{R}^{(1)}_{\mathcal{S}}$ 

有 病 的复数

 $f^{k}$ 

LIST OF TABLES

11

.

ha -

2

TABLE	•	PAGE
1.1	Classification of the 18 Selected Scales	
1.2	A list of 10 Additional Socio-Biographical Variables	12`
3.1	The YRC Sample: Classified by Religious Affiliation	
3.2	Refined Sample Classified According to Religious	·
	Affiliation (Denomination)	
3.3	Refined Sample Size Classified According to Type of School	1
•••	Attending	
3.4	Summary of Biographical Variables Included in the Designs	59
4.1	ANOVA for Design #2.1	76
4.2	Results of Analysis of Simple Main Effects of Levels of	<b>1</b>
	Factors A and B (Academic Problems and Classroom Relation	-
•	ships) in Design #2.1	78
ŧ	Mean's and Sample Sizes for Different Combinations of Leve	ls
<b>.</b>	of Factors A and B in Design #2.1	79
	ANOVA for Design #2,2-	83
	Means and Sample Sizes at Different Levels, of Factors A.	- <del>7</del>
e 11	and B separately (A. Meaningful Life; B. Ruman Relations)	
	ANOVA for Design #3.1-	<b>86</b>
n tri fr		
	Maans and Sample Sizes of Different Levels of Factor A:	06
	Moral Responsibility	00
e n di i	ANOVA for Design #3:2	<b>55</b>
	Results of Analysis of Simple Main Effects of Factors B a	<b>ņdl</b> a ir statististististististististististististist
	C in Design 43.2 (National Issued and Orientation for	
	Change)	-89

.

		State Charles	
		* <b>*</b>	
	• • • • • • • • • • • • • • • • • • •		с. <b>с</b>
TABIE		•	PAGE .
4.1Ö	Means and Sample Sizes at Different Comb	inations of lev	els
•	of Factors B and C (National Issues and C	Drientation for	
	(hange)		91
4.11	NOVA for Design #4.1		93
4.12	Results of Analysis of Simple Main Effect	s of Levels of	•
	Factors A and C' (Family Unity and Family	Pressure)	95
4.13	· · · · · · · · · · · · · · · · · · ·	)	
•	of Factors A and C (Family Unity and Fami		
4.14			
•	Factor B and C (Parental Understanding an		·
н		, 7	
•	Pressure)	•	
, 4.15	Means and Sample Sizes for Different Comb	inations of Lev	rets <u>1</u>
•	of Factors B and C (Parental Understandin		• •
	Pressure)	ـــــــــــــــــــــــــــــــــــــ	99
4.16	Means and Sample Sizes of Different Level	s of Factor D	
· · · · · · · · · · · · · · · · · · ·	(Family Social Concerns)		- 103
4.17	MOVA for Design #4.2		- 105
4.18	Results of Analysis of Simple Main Effect	s of levels of	
	Factors B and C (Personal Faults and Matu		- 706
4,19	Means and Sample Sizes for Different Comb		
	[2] 영영 - 김 16[6] 관련 2017년 - 1917년 - 1917년 🖓 🛣 - 1917년 -	そうし 目前に しょうし 勝手に	
	of Factors B and C (Figure 6 1 Faults and M	acurity of Valu	
	Values) -		- 10 <b>7</b>
4.20	Pesults of Analysis of Simple Main Effects	s of levels of	
	Factors B and D in Design 14:2 (Personal 1	aults and Self	
	Recard)	H	<b></b>

•	TABLE	- PAG
	2 4.21	Monu And Sample Sizes for Different Combinations of
		Levels of Factors B and D (Personal Faults and Self
		(equird)111
	4,22	Means and Sample Sizes of Different Levels of Factor A:
		lack of Self (Infidence
	4.23	MONA for Disign #4.3
	4.24	Results of Analysis of Simple Main Effects of Levels of -
• • •		Factors A and B in Dessign 4.3 (Socio-Economic Status of
	· \	Parents and Sex)
	4:25	Means and Sample Sizes for Different Combinations of Levels
<b>``</b>		of Factors A and B (Socio-Economic Status of Parents and
		90x)
	4,26	Results of Analysis of Simple Main Effects of Levels of
•	,	Factors A and D in Design 4.3 (Socio-Economic Status of
		Parents and Parent's/Guardian's Educational Status)120
•	•	Mean's and Sample Sizes for Different Combinations of Levels
	,	of Factors A and D (Socio-Economic Status of Parents and
		Parent's/Quardian & Educational Status
•		Results of Analysis of Simple Main Effects of Levels of
		Factors B and C in Design #4.3 (Sex and Age)
		Means and Sample Sizes for Different Combinations of Levels
а ] Г м		of Factors B and C (Sex and Age)124
N.	•	ANOVA for Design #4.4125
, . •₁ • •	•	Means and Sample Sizes for Different Levels of Factors ,
•	<b>.</b>	and D, respectively (B. Family Witt; D. Size of Family)-127

1

4.>

	4,32	ANOVA for Design #4.5128
	4.33	Results of Analysis of Simple Main Effects of Levels of
		Factors A and B in Design #4.5 (Poligiosity of Youths and
		Socio-Economic Status of Parents)
	4, 34•	Moans and Sample Sizes for Different Combinations of Levels
		of Factors A and B (Beligiosity of Youths and Socio-Economic
		Status of Parents) 131
	4,35	Results of Analysis of Simple Main Effects of Levels of
	~	Factors A and C in Design #4.5 (Beligiosity of Youths and
		Denomination-Heligious Affiliation)
	43.6	Means and Sample Sizes for Different Combinations of Levels
		of Factors A and C (Religiosity of Youths and Denomination:
		Religious Affiliation)133
	4.37	ANOVA for Design #4.6135
	4.38	Results of Analymis of Simple Main Effects of Levels of
	•	Factors A and B in Design #4.5 (Socio-Economic Status of
		Parents and Family Unit
	4, 39	Means and Sample Sizes for Different Combinations of Levels
		of Factors A and B (Socio-Economic Status of Parents and
	•	Family Unit)
	4.40	Results of Analysis of Simple Main Effects of Levels of
	•	Factors C and D in Design #4.6 (Drug-including Alcohol-
		Usage and Size of Family)
	4.41	Means and Sample Sizes for Different Combinations of Lavels
	• •	of Factors C and D (Drug-including Alochol-Usage and Size
٠		of Family)141
24		

TABLE:	PAGE	2
4,42	ANOVA for Design #4.7	
4,43	Results of Analysis of Simple Main Effects of Levels of	
	Factors A and C in Design #4.7 (Type of School Attending	
	and Parent's/Quardian's Educational Status	)
4,44	Means and Sample Sizes for Different Combinations of Levels	
	of Factors A and C (Type of School Attending and Parent's/	
•	Quardian's Educational Status)	
4,45	Results of Analysis of Simple Main Effects of Levels of Factors	`
	A and D in Design #4.7 (Type of School Attending and Size	
	of Family)149	
4.46	Means and Sample Sizes for Different Combinations of Levels	
r	of Factors A and D (Type of School Attending and Size of	
-	Family)151	
4.47	ANOVA for Design #4.8152	
4.48	Results of Analysis of Simple Main Effects of Levels of	
	Factors A and B in Design #4.8	
4.49	Means and Sample Sizes for Different Combinations of Levels	•
•	of Factors A and B (Religiosity of Youths and Type of School	
	Attending)	
4,50	Results of Analysis of Simple Main Effects of Levels of	
	Factors A and C in Design #4.8 (Religiosity of Youths and	,
	Drug-including Aloohol-Usage)	•
4.51	Means and Sample Sizes of Different Combinations of Levels	
	of Factors A and C (Religiosity of Youths and Drug-including	
•	Alochal-Usage)158	•
· •		• .
•	-xvi-	

1	۱	۱	1	١	ł	ł	l	1	÷	
---	---	---	---	---	---	---	---	---	---	--

ť

4,52	Nesults of Analysis of Simple Main Effects of Lovels of
	Factors B and C (Type of School Attending and Drug Usage) 160
4,53	Means and Sample Sizes of Different Combinations of Levels
	of Factors B and C (Type of School Attending and Drug
	Usage)162
4,54	Results of Analysis of Simple Main Effects of Levels of
	Factors C and D in Design #4.8 (Drug Usage and Denomination-
	Religious Affiliation)163
4.55	Means and Sample Sizes of Different Combinations of Levels
	of Factors C and D (Drug Usage and Denomination-Religious
	Affiliation)
4.56	Showing Magnitude of Correlations Between Each of the 28
	Variables and Self Perceived Achievement (SPA)166
4,57	Intercorrelations Among SPA and the 28 Variables

¢

LIST OF FIGURES

ыслл	₫; ₽A(₽
· 1.1	Subjects A, B or C ~ All Equally Bright, Same SES,
•	Different Levels of Expectation, Different SPA 6
1.2	
4.1	-
	Two Factors and Their Interactions69
. 4.2	
· ·	Problems and Classroom Relationship)80
4.3	•
•	and Family Pressure)
4.4	Graphs Showing B and C Simple Main Effects (B. Parental Under-
	standing and Family Pressure)
4.5	
	and Self Regard) 112
4.6	Graphs showing A and C Simple Main Effects (Type of School
	Attending and Parent's/Guardian's Educational Status) 148
A.1	A Scattergram for SPA - GPA correlation 212
۱ A.2	A Scattergram for SPA Test-Retest correlation 213
•	

1

1 / 13 PT 18 1

.

#### CHAPTER I

#### INTRODUCTION

For the sake of convenience, learning is considered to belong to three domains: cognitive, affective, and psychomotor. However, in actual learning-teaching situations, these three domains can hardly be separated, as emphasized by Tyler (1973, p. 1),

5

Academic achievement can thus be seen as a combination of (a) cognitive domain relating to knowledge, and "intellectual abilities and skills" (Bloom et al., 1956), (b) non-cognitive or affective domain pertaining to values, beliefs; and other socio-psychological outcomes (Krathwohl, st al., 1964), and (c) psychomotor domain concerned with motor skills (Bloom, ed. in press).

As an individual grows, he tends to perceive his own achievement in a certain way, resulting in what may be termed "Self Perceived Achievement" or SRA. Whereas the student's intellectual ability per-

heps plays a major role is determining his SPA, it is suspected that Certain socic-psychological and biographical variables or antgosdants also play an important role in it. Whether this actually is so or not is the subject matter of this research.

### Background to the Study

As it will be clear from the preceding section, the research reported here pertains to Self-Perceived Achievement (SPA). This variable was systematically examined in relation to certain selected non-cognitive variables. The term means here the qualitative self-evaluation by the learner himself - how, in his own view, he is doing in his academic work. If he thinks that he is not doing well at school, it may evoke in him some anxiety or concern. If, on the other hand, he thinks he is doing well, he may tend to feel secure and satisfied. HIt will probably involve the learner's understanding about himself and his environment, his intellectual ability, and his use thereof, his aspirations and how he attains them, finally how he judges his actual performance in relation to what he thinks to be his assets. and liabilities.

The writer is as yet unaware of any research done on this concept. It should however, be a major concern not only to classroom teachers, parents, sociologists, and counsellors, but also to educational psychologists. SPA can be viewed in terms of both cognitive and non-cognitive dimensions or variables. Whereas the cognitive aspect deals with the handling of knowledge through the various types of mental propesses, the non-cognitive aspect comprises the emotions, atticudes, values, concarns, and other affective components associated with learning. The non-commitive factors largely help the learner in setting specific life goals or level of aspiration for himself which he may or may not attain eventually as could be revealed in his report about his own SPA. SPA reported by a person may, thus, vary from very-high to very-low, depending upon whether or not his goals are met according to his own expectations.

A cursory inspection of the literature revealed that ample research has been conducted on <u>actual academic achievement</u> and its correlates (Brookover, Paterson, and Thomas, 1948; Bloom, <u>et al.</u>, 1956; Roth, 1959; Krathwohl <u>et al.</u>, 1964; Holt; 1964, Krathwohl, 1965; and Torrance, 1968); on level of aspiration (Mack, <u>et al.</u>, 1956; Dynes, Clarke and Dintz, 1956; Reissman, 1953; Sears, 1940, 1941; Sivertsen, 1957; Swinehart, 1963; and Versteeg, 1971); and also, on <u>academic self-concept</u>. Roth, (1959), Everett, (1971); Brookover, Thomas and Paterson, (1964); Brookover, <u>et al.</u>, (1967), Dyson, (1967); William, (1968) are among a long list of studies that have elaborated on academic self-concept (or self-image).

Contrariwise, it seems that SPA which is neither synonymous with level of aspiration, nor academic self-concept, has been almost overlooked. If at all it was included in a previous study, it was considered merely as an intervening variable (e.g. by Kelly, 1971) mather than as a major, independent variable, fit to be studied with respect to its correlates, non-cognitive in nature. This may be so because of the various difficulties likely to be encountered in studying such variables. One of them could be the fear of discriminating against the individual's

values and philosophy, attitudes, and concepts (Scriven, 1965, 1970). There is also the problem of devising valid and reliable instruments for measuring those variables. However, such difficulties notwithstanding, a study of SPA in relation to pertinent non-cognitive variables has value because of its bearing upon mental health.

"If non-cognitive variables which have some bearing upon the learner's self-image (and therefore, his SPA), can be identified, the information may provide a research-based guidance to the classroom teacher. He can know, for example, to which variables he should pay more attention in his professional life. The difference between the subjects who report high SPA and those who report low can be due to several psychological and sociological variables impinging upon them. One of them is the level of self-image which may be high or low. It could be that a high SPA subject is experiencing satisfaction and feelings of adequacy and fulfilment whereas his counterpart with a much lower SPA may be experiencing emotional and mental dissatisfaction or feelings of inadequacy and, therefore, needs appropriate counselling.

It is not inconceivable that in certain cases, a variety of internal and external pressures may be impinging on the student regardless of his intellectual and motivational levels. Some of these may one from teachers, parents, peers, schools, family and, perhaps, from the society. The student may subsequently be compelled to set unrealistically high achievement as his goal in order to conform to these pressures. On the other hand, a student may sometimes be living under unfavourable conditions, theraby failing to experience the necessary motivation conducive to set the appropriate level of aspiration.

for himself. If his aspiration is low, his SPA may tend to be high, and vice versa. Such "unfavourable conditions" may be "teacher-types" (Rossi, 1961), "home conditions" (Stephenson, 1958) or "school climate" (Coleman, 1960).

5

The following may clarify the point further.

(1) Subject (A) comes from a high socio-economic background. His intèllectual level is high. But he has orientation to business and his life expectation is moderate in relation to his capability. His SPA is likely to be medium rather than low if he has not perceived the relevance of high academic achievement to his life-expectation as a prospective businessman.

(2) Subject (B) has the same level of intellectual ability and similar socio-economic level as A except that his parents are professionals and expect the subject to set a high level of aspiration for himself and do very well academically. As he struggles to do so he will tend to report a low SPA.

(3) Subject (C) is typified by high Ability, high SES, low L.E.,

Thus it is assumed that the level of SPA is based than a combination of the student's actual academic achievement and high satisfaction in achieving the level of aspiration he sets for himself, as illustrated in Figure 1.1, page 6. Consequently, there will be various levels of SPA arising out of the combinations of (a) Intellectual Ability. (b) Life Aspiration or Expectation and (c) Feeling of Satisfaction about one's Aspiration. Combinations of Figure 1.3 (A-E) may, thus, typify most youth e.

It can be similarly illustrated with several other examples that if the intellectual ability and SES are similar, but derived differences





exist in the subject's life expectations (and in their probable concomitants - family security, motivation, and so on), SPA will likely vary according to whether or not the subject feels that his line expectations are satisfied in his academic pursuits. Some SPA's may prove satisfactory to students while others may not. This may affect the student's motivation, attitudes, values and concerns. An SPA may be seen in two ways. For example, it is influenced by certain psychological and sociological variables and, at the same time, influences those types of variables in the long run. The identification of non-cognitive variables which have bearing upon SPA is, thus, of interest in this study.

# The Problem

As stated earlier, the central theme of this study is an attempt at identifying certain non-cognitive variables having bearing upon selfperceived achievement (SPA).

The major variable of interest here was SPA. It refers to selfperceived level of academic achievement expressed by the subject in qualitative terms about himself. This <u>self-report</u> may be an outcome of a host of variables — internal or external influences on the subject. Some of the external variables may be (a) how recent an experience the subject had had about his achievement (Thorndike's Law of Recency, 1933), and (b) the way he got his littlet feedback. Other variables have also been suggested as having one influences on the subject's self-report. For example. Only and Save (1959), and Comps and Soper (1957) considered the following:

1) The clarity of the subject's awareness, 2) The availability of adequate symbols of expression, 3) The willingness of the subject to cooperate, 4) The individual's feeling of personal adequacy, 5) The individual's feeling of freedom from threat, 6) The social expectancy.

The subject in this situation will consider most of the factors such as the ones mentioned above while estimating and expressing his level of SPA.

The theoretical support for this research is derived from the studies of Strommen and Gupta (1971), Mead (1934), Combe and Snygg (1959), and Torrance (1962, 1966, and 1968), who have variously emphasized the importance of adequate self-image and involvement of students in a purposeful, participatory fashion. They have also stressed how these variables could have differential infiluence on self-perceived achievement (SPA).

SPA was assumed to be reflected qualitatively in the subjects' answer to Question - #189 in the Youth Research Survey (Strommen and Gupte, 1971). It runs thus:

Which of the following best describes the kind of grades or marks you get at school?

- A. Excellent grades.
- B. Above Average grades.
- C. Average grades.
- D. Below Average grades
- E. Very Low grades.

The pool of variables from which the correlates of SPA were sought to be identified here consisted of eighteen scales of attitudes, concorns, values, Beliefs, and appreciations (all within the affective domain) (Table 1.1) and ten variables, biographical and demographic in nature, eq. sox, age, socio-beconomic status, religiosity, religious affiliation, educational level of parent/guardian, drug usage, size of family, type of school attending and family unit of youths (Table 1.2). It was hoped that most of these twenty-eight variables had some bearing on SPA.

Ditailed justification for the inclusion of the variables in this study is given in Chapter, III.

The population studied of North American high school students in the United States, aged approximately fifteen to eighteen years. They came from a wide variety of cultural, educational, socioeconomic, and religious backgrounds, mainly of ecumenical type.

The instrument used is the Youth Research Survey developed for the Youth Research Center of Minneapolis, Minnesota, by Stromman and Oupta (1971).

The analytical approach used was pasically factorial designs. Some use was also made of Pearson's Product Moment correlation.

## statificance of the study

The writer is as yet unawars of any research directly bearing on the subject "Self Perceived Achievement". Considering its probable importance, it should, however, the sensitived a major concern not only of classroom teachers, deress apostologists, and counsellors, but also of educational psychologists — in fact of all those dealing

## TABLE 1.1

# CLASSIFICATIONS OF THE 18 SELECTED SCALES.

Variable No.	Scale No.	Categories and Scales	No, of Items	Cronbachs o
·		I. FAMILY & INTERACTIONAL MODES	······	
1	1	Family Unity	10	89
· 2 🔨	2	Parental Understanding	9	.88
3	3	Family Pressures	7	.56
18	24.	Family Social Concerns	8	. <u>7</u> 0
		II. SELF ESTEEM OR SELF REGARD		
5	5	Lack of Self-Confidence	8	.78
7	7	Personal Faults	12	.87
10	12	Maturity of Values	7	.61
12 🖗	14	Moral Responsibility	10	.73
14	18	Self-Regard	13 '	
16	22	Youth Group Vitality	10	.80
17	23	Adult Caring	11	.81
•	•	III. WITHIN SCHOOL PROBLEMS		
6	6	Academic Problems	9	,85
• 8	8	Classroom Relationship	15	.87
بر بر بر		IV. SEEF AND SOCIAL INTERACTION		
4	4	Life Partner	7	.81
11 6 5	13	Orientation for change	11	.75
13	15	Meaningful Life	17	.76
9	9	National Issues	11	. 86
15	19	Human Ralations	12	.75

11

.

'4

.



Variable No.	Socio-Biographical Variables	Survey Item Number
19	(i)' Sex *	Personal Data
/20	(ii) Aqe	- ditto -
21	(iii) Socio-Economic Status of Parents	195
22	(iv) Religiosity of Youths	190
. 23	(v) Religious Affiliation of Youths	Personal Data
24	(vi) Parent's/Quardian's Educational Status	196 & 197
25	(vii) Drug (including Alcohol) Usage	198
د 26	(viii)' Family Unit	202
27	(ix) Type of School attending	193
28	(x) Size of Family	214

â

à

~

۵.

with youth.

It should be obvious from the above that this study attempted to explore a relatively new and, at the same time, an important area in education, largely overlooked so far. This could, therefore, be regarded as its major contribution. This also tended to make it more of a pilot or exploratory study which may form the basis for further researches of this kind.

Although the research bore directly on North American youth, particularly USA, most of its findings could probably transcend highschool youth across cultures. The findings should improve understanding of youths and also have desired application in youth counselling and guidance, curricular development, educational innovations and the like.

It should generate some interest in further research in this area. It would also provide to this researcher further experience in research methods which may be useful in subsequent studies in a very different psycho-social and cultural setting.

#### CHAPTER II

#### REVIEW OF LITERATURE

#### Introduction

There seems to be hardly any study so far bearing directly upon "Self Perceived Achievement" (SPA). The closest one to it is a recent study by Kelly (1971) reviewed later on Under the circumstance, this chapter attempts to examine studies which have rather remote relevance to the present study. The review is based on the four groups of the scales and also on the biographical data included.

#### 1. Parental or familial contribution to Achievement

The variables related to family considered in this study are family unity, parental understanding, family pressures, and family social concerns.

A major contribution which parents or the family can possibly make to influence a youth's academic achievement is to enhance the latter's feelings of self-acceptance through showing interest in him and by accepting him. Many research findings have pointed to the importance of this factor. Rosenberg (1965), for example, studied parental interest of youths and youth's self-conception smorp high school juniors. It was discovered that the students who reported punitive responses tended to have lower self-acceptance than those who gave non-punitive responses. Other self-acceptance that the

-14-

importance of parents' attitude toward youngsters' self-acceptance which, in turn, has been found to enhance youngsters' academic achievement (Bronfenbrenner, 1961; Helper, 1955; Gecas, Thomas and Weigert, 1970; Rosen, 1961).

The failure of some disadvantaged children to keep up at school seems to be due partly to the adverse influence of family background (Coleman, Campbell, and Hobson, et al., 1966). It has often been suggested that minority pupils do not aspire to achieve in school, do not aspire to a college education, or do not have ambitions for high status occupations. For these reasons, it is suggested that they perform poorly in schools. The study conducted by Gottlieb (1964) seemed to support the view that individuals from disadvantaged families have a low level of aspiration. However, among white and negro families, for instance, Rosen (1961) showed that aspirations are similar but expectations of realizing these aspirations differ.

Sullivan (1947) also observed that certain patterns of parental or familial attitudes toward their youngsters during the process of socialization could be associated to negative academic results in youths; that is, instead of the youngster doing wall at school, the attitude of his parents could bring about unsatisfying academic results. For example, some parents could build certain wrong types of selfconception and self-perception in their youngsters in such a way that they sometimes develop over-anxiety which is not conducive to academic success (Grooms and Endler, 1960).

Rogers (1961) considered certain attitudes of parents or the family as being unconducive to learning in their interaction with youngsters and

warned against them. He suggested that such unconducive parental attitudes show certain dysfunctioning signs in the formation of youth's selfacceptance.

bynes, Clarke, and Dintz (1956) also suggested that although the experience of the family could serve as a variable for the levels of youths' occupational aspiration, it could, on the other hand, become a source of anxiety if the youth is not capable of achieving such a goal. Parental socio-economic status has also been found to be a source for youth's success-striving, but, sometimes, it has its advantages and disadvantages (Douvan, 1956; and Empey, 1956).

Self-acceptance, according to Allport (1971), is the striving generic force in youngsters towards achievement, self-direction as well as, 'becoming' of youths' personality growth. It is also conceived by Allport that the effort of the family to socialize the youngster is very important and must continue consistently with the youth's growth and development. The youth may start with developing a conscience by adjusting to the 'musts', but he should also develop an independent and self-guided attitude to develop the 'oughts' as self-components of his value-schemata. Such a self-direction would serve as the urge for his academic-striving, self-image, and life aspiration, and thus become continuous or propriate striving for success (Allport, 1971). Brantley (1969) noted that a youth undergoing family stress may be more prone to academic failure than one who is not.

2. Achievement and Self Concept of Ability

Self-concept about one's academic ability is formed as a result

of self-acceptance which, in turn, grows at least partly out of parents' acceptance and interest and usually gets extended to the school, Mead (1934) pointed out that a youth's success in academic work and learning processes is closely related to his self-concept. On the other hand, lack of adequate self-concept and inability to adjust to the school environment have been found to be common with school drop-outs (Torrance, 1968; Holt, 1964).

In the school situation, however, the youth is expected to purposefully select correspondingly desired learning behaviour patterns, as suggested in Allport's Theory of Becoming (Allport, 1971), also the youth, in order to achieve, is expected continually to endeavour to relate his environment to himself during his change and development (Mowrer, 1946).

High academic achievement, therefore, may be related to how well a youth endeavours to strive for success. If he is satisfied that he is meeting the level of aspiration, he will report a high SPA. When a youngster reports a high SPA as a result of satisfying his ability and level of aspiration, it is believed that he is undergoing a healthy development with some self-direction (Maslow, 1968; Allport, 1971), or with self-monitoring reinforcement system (Bandura, et al., 1967).

The academic performance of the youngster, whether high or low, is capable of affecting his self-concept. That is, he feels 'good' when he knows he has done well but could be depressed when he realizes that he did badly (Benjamin, 1950; Roth, 1959). Kelly (1971) included "Academic Self-Evaluation" as a variable while studying School Avoidance

and Deviant Behaviour among high school students. Some of the results Kelly reported were; (1) a high relationship between grades and academic self-evaluation, (2) high interrelationships among school failure, academic self-evaluation, school avoidance, and deviance.

Brookover, Erickson and Joiner (1967) discovered that self-concept of ability and school achievement in the High School are positively related. This is consistent with an earlier study on the "Relationship of self-image to achievement in the Junior High School" by Brookover, Paterson, and Thomas (1964). Also Fink (1962), and Everett (1971) arrived at similar conclusions. The result of a realistic self-image is further enhanced by the prestige and acceptance accorded it by the school, teachers; peers, and parents. For instance, Kelly (1971) reported that some parents tended to erode their youths' self-opncept by withholding certain privileges as a result of school failure shown on school reports such as the use of the family car, cuting, dating, and pocket allowances in severe cases. On the other hand, when the youngster does well at school, he becomes the 'pride' of the family and to himself, thus reinforcing his self-acceptance.

The variables referred to as aspects of academic self-concept in this study are self-confidence, self-regard, personal faults, maturity of values, moral responsibility, adult caring and youth group vitality. Each of these variables is considered to be capable of contributing to the youngster's academic self-concept which eventually could enhance his perceived achievement and vice-versa.
#### 3. Academic Achievement and 'Within-School' Problems:

(1, 1)

Academic problems which relate to how well the youngster is adjusting to his school environment and thus making propriate progress, and also classroom relationship he encounters, are the two variables to be considered here.

A variety of school problems have recently been reported by educational psychologists and sociologists as being responsible for underachievement, misbehaviour and maladjustment. The studies of Hargreaves (1967), Rhodes and Reiss(1969), Schafer et. al. (1968); Stinchcombe (1964) have confirmed this notion.

Some of those problems can be attributed to the school system, the teachers, the peers, and the youngster himself.

(a) The <u>School</u> has its own method of ascribing labels to its students. Such labels as 'gifted', 'special', 'average', or 'slow' classes (or streams) are sometimes used. Some of these labels are stigmas and could 'dash' the self-image or self concept of the students. Hargreaves (1967), Hansen (1967), Kelly (1971); and Williams and Cole (1968) are among a number of authors who have drawn attention to this problem in schools.

Also, the school atmosphere, whether it is accepting, understanding; and has set up adequate curricula or not, is a matter that affects students academic self-concept and achievement (Lippitt and Gold, 1959; Polk, 1969).

(b) School teachers also have an important task to perform with

regard to teacher-pupil as well as teacher-parent relationships (Bush, 1954). There is always a reflection in the youth's perception of the teacher according to how the teacher feels about him. This was clearly brought out by Davidson and Lang (1960). Snyder (1947) also suggested the possibility of some teachers causing maladjustment in youths as a result of their attitude toward the students. An optimum teacher-pupil interaction is called for by Soar (1968) if the youth is to be given the maximum opportunity to develop his self-image to the fullest with respect to his academic pursuit.

(c) The Peers: Although one would expect that the greatest influence on the youth would come from the interaction of the school and the teacher with the student, a considerable measure of behavioural adjustment leading to academic success or failure could also come from his peer interaction or subculture. This cleavage is seen to be a common characteristic of youths (Bonney, 1946). Some measure of successful and unsuccessful training of youths has been seen as coming from peer influence in spoicmetric studies. Sometimes, the student could also bepefit from certain admirable traits of personality through his relationship with some peer group which has a purposeful direction and striving-for-success as distinguishing factors of its status objective (Echelberger, 1959). This advantage has also been detected in youth sub-cultures and student achievement studies where the former happens to be oriented to achievement (Coleman, 1960).

(d) Some form of within-school problems can' be traced to the youngster himself. Some youths, for instance, do not possess the ability to cope with change in the school. Some children who may have difficulty

in adjusting to their parents may also find similar difficulties at school. Others also require some special situation, and perhaps /involvement and active participation in school activities (Schafer, 1968; Stinchcombe, 1964). In certain cases where the youth is unable to adjust to the learning situation in order to make good grades, he either becomes a drop-out or rebels against the school authorities, possibly ending up as a delinquent (Rhodes and Reiss, 1969).

# 4. Achievement and Self and Social Interaction

The preceding discussion on the youth's need to interact successfully with members of his family, the community, the school, and the peers in order to develop an adequate academic self-image also applies here (Schafer, 1968; and Rhodes and Reiss, 1969). If, on the contrary, he is unable to adjust reasonably well, it is likely that he would not be socially accepted, and hence his self-acceptance or self-image could be lowered and his achievement rendered unacceptable.

The literature reviewed above has mainly dealt with the various factors that could influence youths' academic achievement and thus his self-acceptance and self-image, specially in the context of the school. It included the family, the school environment, and the society at large, and also how the youth develops his own self-evaluation. The literature related to the 10 additional biographical and

demographic variables selected for this study is reviewed in the next

section.

# Literature on the Additional Variables Included in this Study and Their

#### Rationale.

(a) <u>Sex: Male or Female</u>: Sex difference in youth can play any important role in identification processes, setting level of aspiration, and developing self-concept or image. For example, the youth will tend to identify with persons of his (her) own sex as a 'significant other' who may become a more dominant figure. This can influence his or her own life expectation (Marke and Nyman, 1963; Kugelmas and Breznitz, 1966). This, in turn, may affect SPA.

During puberty, each person develops his or her own sex related characteristics. Sometimes, girls find it difficult to determine just what society expects of them, especially since the role of women in our society is in a state of flux. It is, therefore, possible that a sister and a brother from the same parents and having similar intellectual ability could set for themselves different levels of expectations (Garrison, 1965), and hence report different levels of SPA. For instance, girls often have lower life or academic expectations or levels of aspirations as compared to boys and, therefore, may have a lower expectation about achievement in spite of their abilities. In this case, the reported SPA may be deemed high enough or satisfying to them. In the other hand, boys of comparable ability may plan to be as economically or socially successful as possible and may, therefore, set a high amirational level. They may, therefore, report lower (or unsatisfying) SPA.

-\*

#### (b) Age: 15, 16, 17, and 18 years.

It can be assumed that as the kid gets older, he has greater awareness of his role in life. With age, the need for achievement may become more obvious and higher so that the youngster is more likely to set up higher aspirational level for himself as he grows older. It is, therefore, envisioned that the SPA of 15 year olds will be higher than that of 17 year olds, other things remaining the same. At about 16, the ideas of the youth are becoming more crystalized than was the case at 15, the latter tending to be more influenced by his peer or gang culture in which serious life expectations tend to be minimal. But by about 17 years, there tends to be a "return-home" attitude to the father or mother as the most "significant other" in normal cases (Bealer, Willits, and Maida, 1964; Bandura, 1962). This may also apply more to boys than to girls, so that age may also have <u>interaction</u> with sex (making it advisable that these two variables be included in the same design).

(c) Socio-Economic Status (SES) of Parents.

in his SPA.

The socio-economic status of parents can be a factor in setting up level of aspiration. For instance, youngsters from higher SES may feel more secure and realistically hopeful about achieving their life expectation (particularly, if that entails financial support and adequate metivation) than those of low SES. Youngsters become more constrained or limited in the kind of support they require in a lower SES family than in a higher one. The type of life expectation which the youngster sets up for himself in a higher or lower SES family may, therefore, reflect

Oddberg (1964), for instance, suggested that the parents' socioeconomic background and plans for financing the youngster's higher education can affect the aspirational level or motivation of the youngster/ Since lower SES youths seem to set lower aspirational levels for themselves (perhaps due to lack of inspiration from their parents), whatever they achieve at school may be perceived by them as satisfying.

The reverse may be true for those from higher SES homes who, due to high aspirational levels, would look on whatever they achieve as being unsatisfying to their parents and to themselves and, therefore, they may tend to report a lower SPA. Here, again, the argument may hold more for boys than for girls, thus suggesting interaction of <u>sex</u> with SES.

(Since interaction of sex with age was envisaged earlier, age, sex, and SES, therefore, will need to be included in the same factorial dusign).

It can be surmised then that levels of SES on possibly play an important part on the youngster's life-expectation in Educational and vocational terms and hence reflect in the SPA (Sears, 1951; and McKinley, 1966).

(d) Religiosity:

Indicately as considered in this study was in terms of how often the youngster attends church services, Sundry schools, synagogues, temples and other religious meeting places. A parent may have high religiosity while the youngster may not.

Neight and Darwin (1970) suggested that in the process of youths' socialisation, religiosity (frequency at religious meetings) has some

24.

effect on youths' behavioural patterns, particularly so if that religious affiliation is of the traditional type. This may affect how the youth sees his world and sets level of aspiration for himself - a tread which may decrease from high to low religiosity of the youngsters. It seems likely that youths of high religiosity may tend to set higher level of aspiration for themselves as a result of the influence of the type of socialization modes they have undergone (assuming that high religiosity effect is characterized by the socialization process) than others of lower religiosity. If this assumption is valid, youths of higher religiosity would tend to report lower SPA, whatever their abilities, than their counterparts of lower religiosity who may tend to report higher SPA. Beligiosity, therefore, could be related to achievementmotivation to youngsters which enables them to set life expectations and, . therefore, may have bearing upon SPA's.

#### (e) Religious Affiliation:

There are a number of religious bodies to which the youngsters under study were affiliated. Each of these bodies has its own doctrines and observances, doomas, philosophies, and resulting attitudes, and it is supposed that the youngsters would be trained along those doctrines. All of these may tend to influence how the youth looks at the world in which he lives. For instance, he may look at it materialistically or spiritually, or parhaps neutrally. These, in turn, may contribute to sotting up his life expectations in a particular direction. For instance, youths in a certain denominational affiliation may think that setting high life expectations may be a matter of the "flesh", and that more

importance should be attached to things of the 'Kingdom of God' so that life expectation should only be on the basis of bare existence. ' 'The more traditional, monastic, nunneric, and spiritual types of religions are some of the common examples which could influence youngsters in setting low life expectations for themselves.

Some religions may tend to identify themselves more with social aspirations, politics, or material satisfaction. Youngsters who affiliate themselves to such religious school system will tend to set higher life goals or aspirations for themselves which, in turn, will reflect in their SPA's. On the other hand, religions which under-play 'wordly' aspirations could help youngsters to set normal or very modest life goals and, therefore, may report a high SPA. Weber (1930), for instance, suggested that social goals and life expectations can differ considerably among Protestants and Catholics. Perhaps, this difference could be revealed in the Catholic, Protestant, and other youngsters of the study in their SPA.

Also, that religious orientation of the school has some effect on "education is shown in a study which reports that Catholic Parochial school students compared unfavourably with Protestants, Jews, and Catholic students in Public Schools on a test of Openmindedness (Quinn, 1965).

The importance of the youngster's religious attitude within his religious affiliation has been pointed out by Erickson (1964) also.

(f) Parent's/Guardian's Educational Status:

The educational status of the parent or guardian (e.g. the princibal 'bread winner' of the family) can be related to the academic motivation of the child, particularly if such an educational status is high.

Some parents seem to 'drift with the tide', and can hardly offer much education to their children. Others realize what education implies socially and economically and tend to transfer this notion or attitude to their youngsters. This could influence the scholastic achievement drive or academic orientation of the child. It is assumed that the parents of this type are more capable of helping their youngsters in setting high life expectation for themselves. This is likely to reflect in the SPA of the latter. In certain educated families, the child, however, has a better opportunity for being introduced at an earlier age to learning situations and learning materials than in others with limited opportunities. All these and the parents' interest in, and concern for, the youngster's educational success can help the youngster to set higher levels of aspiration and, therefore, low SPA.

Nor example, many children in Mighly educated families read books, magazines and newspapers, watch television programmes, listen to radio and discuss intelligently with their parents even before they are ready for school. While at school, these opportunities enrich their language and social development and also their functional intelligence. By and large, through this type of educational awareness, coupled with the parents' anxiety about the youngster's line goal, the youngster could set a certain type of educational and vocational goal which can be reflected in his SPA. The less-privileged youngster's who suffer from the lack of such educational advantages tend to go in from the field of such educational advantages tend to go in SFA.

(g) Use of Drugs (including Alcohol);

Drugs and alochol and considered here as any form of chemical

-27

agent introduced into the human system, the reaction of which is capable of impairing or affecting the nervous system of the individual, making his normal functioning difficult. Some of these chemicals are mild and may have very gradual effect, while others may have severe and long lasting results. It is conceivable that youths who habitually indulge in drugs or alcohol are very likely not to be able to settle down to their academic work. Since they cannot do well at school under the conditions, they may tend to set low life expectation for themselves. They may even be carefree about it. Whatever their ability, any level of achievement will tend to be looked at as being satisfying, Such youths may be said to have learned how to escape or avoid temporarily (or possibly permanently) realities of life by being under the influence of drug or alcohol (Mutter and Schleifer, 1966). Therefore, there is likely to be substantial difference in the life-expectations of drugusing and non-drug-using youths, and their SPA. Therefore, the reported SPA for drug users may be high, whereas that of others low, all being equal.

(h) Family Unit:

The changing role of women, incidence of divorce and increase in single-parent families are a few factors which can influence the child's life expectations and, therefore, SPA. A stable and happy family, for instance, is in itself an achievement motivation to the youngstar, whereas an unstable or broken family situation may not be able to provide such a psychological support to him (O'Neill and Alexander, 1971). In a broken family, it may be difficult for the youngstar to are a realistic life supectation for himself and, perhaps, he may find that it is not easy to achieve his life goal. In this game the SPA will band

to be high and satisfying to the subject. Some single family cases may be the outcomes of drug effects, or some drug-usage could be outcomes of single families. In either case, the youngster finds it difficult to plan a realistic life expectation for himself and, perhaps, he may find that it is not easy to achieve his life goal. In this case, the SPA will tend to be high and satisfying to the subject.

Difficulties encountered by youths in single parent families in the process of identification have been stressed by Parson <u>et al.</u>, (1955), and also by Smith (1970). The lack of educational motivation for the youngsters in such single families has been pointed out by Becker and McArdle (1967). This condition could affect the youngster in such a way that he may be unable to set adequate level of aspiration for himself which will eventually reflect in his reported SPA. It could be expected that the child from a disturbed or disrupted family has more difficulties than one from a stable one in setting life expectation (Hoffman and Lippitt, 1960). There seems to be a relationship between family stress (divorce, etc.) and academic under-achievement (Brantley, 1969). It is suspected that the type of family unit may contribute to life expectation and hence affect the SPA.

There could be an interaction between San, and family unit, if it can be assumed that incidence of divorce may result from inadequate economic family support in certain cases and vice-versa.

(i) <u>Type of School Attending</u>. The institutional alimate of the School depends largely upon its source of support (and the associated philosophy). This may reflect in the levels of supectations of its subjects. For instance, certain highly reputable private schools tend

Q

to accomplish consistently excellent academic results and their students may set higher goals than those studying in less equipped or less costly schools. Also, there may be different emphases on the curricula in certain types of schools. For example, church sponsored schools may spend more time on religious education. Special emphasis may also affect ) education in vocational and technical schools where training for specific manpower may be more important than general type of education. The type of curriculum or exposure may influence the subjects in setting up life expectations as revealed in the level of SPA (Dougherty, 1965). It may be suspected that SIM's of subjects in public (government sponsored) schools may tend to be higher than those of subjects in private (privileged) schools. In this context, 'Public schools' would mean the ones provided by the government, and 'Private' schools would refer to the type of fee paying school for the privileged class. (It is also likely that some interaction between 'type of school', religiosity', and 'religious affiliation will be noticed so these variables were incorporated in the same design in this study).

(1) Size of Family

This study will examine the size of family of the youngsters as 'small' or 'large'. 'Small' will refer to those families in which there are less than 3 children, and 'Zarge' to those with 3 or more children. Size of family, in conjunction with SES, goens to be an important.

factor in the youngster's life. Children in small families seem to get more attention from parents than those in large ones, other things

being equal. Much pressure from the parents may go with size of family and could also compel the child to set an unrealistically high life expectation for himself, leading to lower SPA. In large families, there may be general neglect for lack of proper resources. This may affect life expectation and, therefore, SPA. The youth may have lower achievement motivation, hence lower life expectation and, therefore, higher reported SPA.

#### CHAPTER III

INSTRUMENT, POPULATION, SAMPLE, DATA AND THEIR ANALYSES.

#### The Instrument and Its Rationale:

As stated earlier, the instrument used in this research is known as "Youth Research Survey" (YRS). It was developed by Strommen and Oupta (1971) for the Youth Research Centre of Minneapolis, Minnesota, the United States of America. It is a self-report type questionnaire printed in two Books (Books One and Two) and contains 420 items.

Book One entitled "Myself and My View of the World", contains 220 items related to 'Oncerns' and 'Attitudes' of youths. These items are considered to be important for the use of counsellors, teachers," and other educators in parochial as well as public school systems. They are also useful to clergymen in congregations and to other social workers who may be interested in helping youths.

Book Two entitled "My Values and Beliefs", has 200 items of a different orientation. They are primarily designed to elicit various information about youths' values and beliefs. This book is intended for use mainly in religious institutions by virtue of the type of questions it contains.

There are two theoretical stances reflected in the questionnaire both of which are directly relevant to the needs of youths. They are: 1) the need for youths to feel accepted by an identifiable family or 9roup(that is <u>mutuality</u>); and 2) the need for youths to be meaningfully

32-

involved in something that gives one a sense of purpose (that is, <u>mission</u>). These two stances are deemed to be relevant to most youths macrocosmically in North America irrespective of cultural, racial, denominational or other socio-psychological differences, and are supposed to be reflected in the items of the YRC Survey. These basic needs could be considered as typifying all youth. It is assumed by the authors that both needs must be met for the youth as a person, since he needs a group to belong to and a purpose with which he can identify.

01

Meaningful life to the youth can characterize itself in two life-styles or clusters of behaviour. The first is finding satisfaction in adventure, recognition, pleasure, personal freedom and plenty, high priority to gaining personal power, physical attractiveness, and skill or expertise. The second polarity is the life aspiration of serving others.

Young people who lack a feeling of belongingness to a group will, it is assumed, be anxious about mutual relationships. On the other hand, youths who experience the warmth and acceptance of a family or familial group will be less troubled over their relationship with others, themselves, or God. They will tend to perceive others and life in general in a favourable light.

Mutuality is reflected in the scales grouped as 'concerns'. They constitute the main theme of the items of Book One. Mission in the life of youths is reflected in the 'BELIEFS AND VALLES' scales embodied in the the items of Book Two.

A total of 280 out of the 420 items of the questionnaire, that is, 2/3 of the total, constitute twenty-five scales. Several of the remaining

items are intended to draw-out a variety of useful information. Some of these 'extra-scale' items are personal data questions purported to elicit biographical, demographic and sociological information about youths. These data could be used to enhance the understanding of youths.

#### Population

The general population with which this study is concerned consisted of high school students in 1969/70 in North America (mainly from the USA). They belonged to one of the following sub-populations: (i) American Baptists, (ii) Southern Baptists, (iii) Episcopalians, (iv) United Methodists, (v) Roman Catholics, (vi) youths of the Twin Cities of Minneapolis and St. Paul (Minnesota), and (vii) , Young Life Clubs.

#### Sampling procedures

From each of the above seven sub-populations, the sample was drawn, using multi-stage proportionate random sampling procedures. The details are given below:

(i) <u>American Baptists</u>: Congregations of the American Baptist Church were stratified according to their membership: (i.e. 50 - 199; 200 - 499; 500 - 999; and 1,000 and over). Those with membership less than 50 were excluded for being too small from the point of view of administrative convenience. The proportion of the total sample to be drawn from each stratum was first decided upon. After this, the required number was drawn randomly, using the table of Fisher and Yates

(1963). The ratio was approximately 1:66, and a sample of 1,038 was drawn.

(ii) <u>Southern Baptists</u>: A sample from this church was drawn from sixteen widely separated States in 50 churches with membership of not less than 200. The youths from each church had to fulfil an additional condition - that of being enrolled in Sunday Schools. As in the case of American Baptists, the sample from each grade level was randomly drawn but the ratio was 1:534 and the sample size 917.

(iii) Episcopalians: The Episcopalian sample of 593 came from the State of Hawaii drawn essentially at random.

(iv) United Methodists: 500 congregations were chosen from among all the United Methodist churches, half of which (250) were asked to give the Survey to 8 groups of their youths. A sample of 522 was drawn. One would besitate to call it a representative or a random sample, however.

(v) <u>Roman Catholics</u>: This sample came from Roman Catholic high school students. The high schools were from seven randomly selected Roman Catholic Dioceses, and from each of the selected high schools, approximately 300 were asked to take the Survey in May, 1970. A total of 1,818 (over 85 per cent of those chosen) actually participated. The serven diocesan areas which supplied the sample were: Dubuque - Iowa; Baton Rouge - Iouisiana; Manchester - New Hampshire; Rockville - New York; San Diego - California; St. Paul and Minneapolis - Minnesota; and San Francisco - California.

(vi) Youths of Twin Cities (Minneapolis and St. Paul): A randomly

selected sample of 922 youths was used.

(vii) Young Life Clubs (comprising 670 Youth Clubs): These clubs were in 10 regions. A third of the area leaders within each region was randomly selected to obtain 31 leaders from 245 clubs. The next stage was to randomly select 20 per cent of the clubs out of the 31 areas so as to obtain 48 glubs. A sample of 1,397 was obtained from 35 of these clubs.

#### The Sample

On the whole, the total ecumenical sample was close enough to being random. With the active co-operation and interest shown in this study by the various church authorities, it was possible to get the Survey completed successfully. The classification of the subjects who answered at least 95 per cent of the items is shown in Table 3.1.

The present study used the above sample which was predominantly ecumenical., In view of the origin and the nature of the sample, therefore, generalizations from the present study would need to be made with some caution and reservation. They could perhaps not be totally definitive and substantive but may have value in highlighting certain useful findings.

This study was able to the only 6534 from the total sample of 7050, since some were not high school students and on some others, information on one or more of the selected questice was missing, (See Tables 3.2 and 3.5),

ે.રૂલ

• •		
6		je e j
• •		•
· · · · · · · · · · · · · · · · · · ·	TABLE 3.1	, , , , , , , , , , , , , , , , , , ,
THE SAMPLE:	CLASSIFIED BY AFFILIATION.	
n en		

2

7,050

ŝ

		•	· · · · · · · · · · · · · · · · · · ·	1	- ·
·	•	Religious Affiliation	1	Number	
, ,		· · ·	x <sup>€</sup>		<b>-</b>
1.	<b>b</b>	American Baptists	· · · · ·	1,038	
· 2.	•	Southern Baptists	,	917	•
3.	•	Episcopalians		5,93	
4.	<b>.</b> .	United Methodists	•	522	<b>*</b>
5.		Roman Catholics		1, 818	·
6.		Twin Cities		7 6 5'	
7.		Youth LiferClubs	· · · · · ·	1, 3 9 7	

.

Consisted of a variety of religious affiliations - a few also being . Jewish. ્રા

• 16<sup>1</sup>0 - •

An Inter-faith Youth Group.

4. 4. X.

4

•

 $A^{-1}$ 

, .

ì

TAME 3.	,2
---------	----

4

## REFINED SAMPLE CLASSIFIED ACCORDING (1) RELIGIOUS AFFILIATIONS (DENOMINATION)

wligious Affiliation		Number
1. Roman Catholic	n ya mini i mini kwa ku minimu ukuwa ku uji ji j	1, 8 5 8
2. Protestants		3, 181
3, *Othera	<i>.</i>	1, 4 9 5
r	TOTAL.	6,534

NOTT: \*Others included youths in religions other than Christianity, as well as, those not attached to any religion.

#### TABLE 3.3

REFINED SAMPLE CLASSIFIED ACCORDING -

Туре л А	of School Ittending		Number
1. P	ublic	,	4, 4 1 5
2. P	rivate	•	1,638
3. P	arochial		3 2 3
· 4, n	Others	•	158
		TOTAL	6, 5 3 4

NOTE: "Others comprised youths in Vocational/Technical or other specialized schools. tow the YRC Scales were derived:

The responses of the 7,050 subjects to the 420 items of the Youth Research Center (YRC) survey were analyzed by its authors using three multivariate techniques of analyses with a view to deriving scales from the items. The three methods used were:

1) Technique of Homogeneous Keying

2) Hrincipal Components Analysis, and

3) Principal Eactor Analysis.

Details of the procedures are available in Strommen and Supta (1971; pp. 7-11).

The YRC Scales:

\_Twenty-five scales comprising 280 items were extracted from the 420 items of the questionnaire. These scales are supposed to measure relatively independent variables (traits) relating to youths' attitutes, beliefs, concerns and values.

The items in the scales have two, three, or six alternative answers. The scales vary in length as well.

The raw scores from each scale were linearly transformed to at and scores to give a standard deviation of 10 and a mean of 50. The scales are grouped by Strommon and Gupta (1971) as follows:

#### CONCERN SCALES

1. Family Unity.

2., Parental Understanding.

3, A Family Pressure.

4. Life Partner.

- 5. Lack of Self-confidence.
- 6. Academic Problems.

7. Parental Faults.

8. Classroom Relations.

9. National Issues.

10. Ood Relationships.

#### VALUES AND BELIEFS SCALES

11. Interest in Help.

12. Maturity of Values.

13. Orientation for change.

14. Moral Responsibility.

15. Meaningful Life.

16. Religious Participation.

17. Social Action.

18. Self Regard.

19. Human Relations.

20, God Awareness.

21. Biblical concepts.

#### PERCEPTION SCALES

22. Youth Group Vitality.

23. Adult Caring.

24. Family Social Concerns.

and

25. FRANKESS OR VALIDITY SCALE

4()

The last one is a Lie Scale (as the title implies, this scale was included to detect youths who lacked frankness, that is, those who were unwilling to respond honestly to the questionnaire.)

Poliability:

The type of reliability himed at in the process of extracting the Scales was homogeneity (Loevinger, 1947, 1948), or internal consistency (Kuler-Richardson, 1937). On the whole, the internal consistency is high or, at least, acceptable. It ranged from .56 to .93 with the median at .80. Some information is available about test-retest reliability also. Validity:

In establishing construct validity, the questions within each scale were demonstrated to be highly correlated to one another and thus considered to assess the same concept or construct. The manual also gives ample information with regard to concurrent validity in that rationally justifiable predictions were found to have been sustained by the data. For example, seventy null hypotheses were generated on the basis of logic, ten on each of the 'Concerns'-scales.

One-tailed (directional) test was applied in testing them. As many as sixty-eight out of the seventy null hypotheses were rejected at .01 level of significance, one at .05 level. Only one null hypothesis<sup>6</sup> failed to be rejected.

The validity of the "Beliefs - Values" Scales was also established similarly.

#### The Nature of the Instrument and the Data used for this Study.

The major variable of interest was Self Perceived Achievement (SPA). Measures of it were obtained through the responses to question #189 in the YRS which runs thus:

"Which of the following best describes the kind of grades or marks you get at school?"

A. Excellent grades.

B. Above Average grades.

C. Average grades.

D. Below Average grades.

E. Very Low grades.

The above responses were linearly transformed on a 5-point scale (assigning 5 points to A, 4 to B, etc., and finally, 1 point to E) in order to facilitate further analyses.

The variables examined in relation to SPA were 28 in all - 18 of the 25 scales, and 10 items as variables of sociological and demographic nature. They are listed in Tables 1.1 and 1.2 (Chapter I).

The scales of the YRS were thoroughly examined contextually with a view to selecting from among them those most suited to this study. It was felt by this researcher that 18 scales (made up of 187 items) in their original form were the most pertinent to the rationale underlying this investigation. Also, on the basis of the relative independence of the scales, and judging purely on the basis of similarity and underlying logic and rationale, (Eysenck, 1953), an attempt was made to re-classify the 18 selected scales in a different way under four broad concepts.

1

- 1) Family and Interactional Modes
- 2) Self-Esteen or Self-Regard
- 3) Within School Problems
- 4) Self and Social Interaction

As will be seen later in the chapter, this type of re-grouping is intended to provide an 'a priori' or conceptual framework for test-

()

The selected 18 scales are described below in some detail under the four broad concepts.

## I. Family and Its Interactional Modes

•

# Variable 1. Family Unity: Scale No. 1; 10 Items ; Rel: 89

This scale reflects youths concern and anxiety over emotional climate within his home - the lack of closeness, cohesiveness, togetherness, and oneness of family members, their lack of understanding and consideration for one another, and the quality of interaction between the parents and children.

Variable 2. Parental Understanding: Scale No. 2; 9 Items; Rel: .88

This scale measures the lack of communication and understanding between a youth and his parents: distress over the feeling that he is being treated like a child, and disappointment in his parents' distrust or rejection of him and his friends.

#### Variable 3. Family Pressures. Scale No. 3; 7 Items; Rel: .56

The pressures identified in this scale are those which tend to intensify negative reactions in a home. They include such difficulties as divorce, separation, illness, financial problems, tragedy and parentyouth strife. The more difficulties that are identified, the higher the score.

Variable 18. Family Social Concerns. Scale No. 24; 8 Items; Rel: .70

The dimension assessed here is youth's perception of the degree to which his parents and family are responsive to human needs. It gives a fair estimate of the extent to which they are involved in some form of social action or some effort to help others.

#### II. Self-Esteem or Self-Regard of Youths.

### Variable 5. Lack of Self-Confidence. Scale No. 5; 8 Items; Rel: .78

This measure indicates the extent to which a youth feels uncertain about himself and is afraid of making mistakes or exposing himself to ridicule. A high score identifies a person who tends to be self-conscious, uneasy in a group situation, anxious to please others, and over-eager to avoid occasions where he may be embarrassed.

## Variable 7. Personal faults. Scale No. 7; 12 Items; Rel: .87

Another'source of self-oriticism is a youth's awareness of not having lived up to his ideals. As a result, he feels guilty. This scale measures his feeling of self-oriticism, both with respect to

what he has done and what he has failed to do. It reflects a mode of thinking and feeling about oneself that often undermines one's selfconfidence.

# Variable 10. Maturity of Values. Scale No. 12; 7 Items; Rel: .61

A maturing person is increasingly able to make his own decisions rather than depend upon the opinion of others. The scale assesses the degree to which one feels in control of his behaviour and able to resist immediate drives and pressures of others. A high score suggests one who believes he can move toward goals that serve as his ideals.

Variable 12. Moral Responsibility. Scale No. 14; 10 Items; Rel: .73

An important attitudinal stance toward life relates to the ageold question: "Am I my brother's keeper?" The items in this scale reflect the extent to which a youth retreats to a privatism where he denies the existence of a moral order or becomes involved in life by accepting a God-given sense of responsibility for others.

Variable 14. Self-Regard, Scale No. 18; 13 Items; Rel: .79

Most youth experience times when they hold a few unfavourable opinions of themselves. When the occasions are prolonged or become " frequent, self-confidence or self-esteem is undermined. The selfregard scale measures the degree to which youths accept themselves as persons of worth and promise.

# Variable 16, Youth Group Vitality. Scale No. 22: 10 Items; Rel: .80

The measure shows the degree to which a youth is impressed by the climate of acceptance and sense of mission that characterize his youth group - a climate in which he feels at home and can be himself without fear of criticism of being belittled.

# Variable 17. Adult Caring. Scale No. 23; 11 Items; Rel: .81

These items relate to youths' perception of the acceptance, care and attention accorded them by adults in their congregations. It also reflects their evaluation of what the congregation is doing in relation to human needs and their manifest concern over current social problems. A low score identifies those who feel negative about what they see in ()

#### 111. Within School Problems

Variable 6. Academic Problems, Scale No. 6; 9 Items; Rel: .85

This dimension relates to concerns about the academic aspects of school life. The scale assesses the degree to which the respondent is worried about his grades - actual and anticipated, his frustration over not being able to concentrate on school work, and his self-blame over doing poorly or failing.

# Variable 8. Classroom Relationships. Scale No. 8; 15 Items; Rel: .87

The scale focusses on the feelings of not being accepted by

one's classmates or teachers. It indicates the degree to which a respondent is lonely and feels like an outsider or an unwanted intruder. In the case of girls, high scores are usually associated with feelings of inadequacy. For boys, they are associated with criticism by others. A high concern in this area often indicates a conformity to 'status quo' and a willingness to acquiesce to social power.

#### IV. Self and Social Interaction

ا كم

## Variable 4. Life Partner. Scale No. 4; 7 Items; Rel: .81

The scale reflects a youth's uncertainty, his anxiety about the possibility of not having a happy marriage. The items also tap the fear of not being wanted or found desirable by person of the opposite sex.

## Variable 11. Orientation for change. Scale No. 13; 11 Items; Rel: .75

This scale reflects youth's thinking in the political realm of law inforcement, social welfare, race relations, war reforms, school curricula, and sexual behaviour. It indicates whether one leans toward traditional thinking in these matters or whether one takes a liberal stance that welcomes change.

## Variable 13. Meaningful Life, Scale No. 15; 17 Items; Rel: .78

The items here centre in a life style that accords importance to such life goals as serving others, ethical behaviour, wisdom, honesty, giving and receiving love, forgiveness, family happiness

and meaningful work.

٦.

A low score points to a contrasting life style which is characterized by goals that are hedonistic and self-centred, giving a high priority to having plenty of money, personal power, physical attractive-/ ness, pleasure and excitement, recognition, skill and expertise.

Variable 9. National Issues. Scale No. 9; 11 Items; Rel: .86

The past decade has witnessed a phenomenal rise in concern among youth for what is happening within the nation and the world, especially as it relates to peace and happiness. The scale reflects their fear of pollution, nuclear holocaust, violence, revolution, war, disorder and lawlessness. It also assesses their concern over unjust laws and the seeming unresponsiveness of government to the needs of the people.

Variable 15. Human Relations. Scale No. 19; 12 Items; Rel: .75

The attitudes probed by these items relate to the presence or absence of an open-mindedness, sensitivity and compassion toward those who are often criticized and judged harshly. The reasons or criticisms may be racial, (Negroes), religious (Jews), chauvinistic (people of enemy countries), ideological (communists), or the like. A high score implies an understanding of the essential equality of all men before God.

Variable 19. Sex:

The sex of the subject was obtainable from S's Answer Sheet.

It was classified as Male = 1, and Female = 2. The sample sizes were Males = 2961, Females = 3573.

#### Variable 20. Age

The Answer Sheet provided a column for the subject's age. The classification 15=1; 16=2; 17=3; 18 years = 4. There were 2692, 1746, 1523, and 573 subject's respectively in the four categories.

# Variable 21. Socio-Feonomic Status of Parents

The SES of the parents was known from the responses to Item 195. which runs thus:

"The occupation of the main wage-earner in my family is

λ. Profession (doctor, lawyer, teacher, minister, and other professional positions).

- B. Farmer.
- C. Sales white-collar, business.
- D. Skilled, Unskilled manual work.
- E. Service work (barber, waiter).
- F. None of these.

Based on the U.S. Census (1963), the occupations were regrouped as

A r High (3); B, C, and D = Medium (2), and E, F = Low (1).

Variable 22. Religiosity of Youths

Information about the subject's religiosity was obtained through his response to Item 190 -

"During the past six months I have gone to church, synagogue or temple (or mosque).

A. Several times a week.

B. About once a week.

C. About every other week.

D. About an average of once a month.

E. Rarely.

F. Not at all.

The responses were coded according to frequencies at prayer houses

50

as follows:

 $\Lambda$  and B = High or 3

C and D = Medium or 2

 $E^{U}$  and F = 1 ow or 1.

-Com

Variable 23. Denomination - Religious Affiliation of Youths

Religious affiliations were classified as Catholic, Protestant, and Others, for the purpose of this study. The information was obtained from the subjects' response to the following biographical item:

1. Baptist

2. Episcopal

3. Lutheran

4. Methodist 5. Presbyterian

6. United Church of Canada

7. United Church of Christ

8. Orthodox

9. Roman Catholic

10. Jewish

11. Other

12. I do not attend any church.

#### The above were reclassified as

Number 9 = Roman Catholic, category 1 Nos. 1-7 = Protestant, category 2 Nos. 8, 10-12, = Others, category 3

The sample sizes were:

1. Catholics = 1858

2. Protestants = 3181

3. Others = 1495

#### Variable 24. Educational status of Parent/Guardian was obtained from

the response to the following questions:

(i) Item 196: "How much education has your father (or male guardian) had?"

A. . 8 grades or less.

B. Some vocational or high school.

C. Vocational or high school graduate.

D. Some college or university work.

E. College or university graduate.

F. Some graduate training.

## (ii) Item 197:

"How much education has your mother (or female guardian) "had?".....

A. 8 grades or less.

B. Some vocational or high school.

C. Vocational or high school graduate

D. Some college or university work.

E. College or university graduate,

F. Some graduate training.

In order to combine the responses for each subject on these two items so as to obtain a single score of standing on this variable, the following procedure was adopted:

Step 1. The responses of A-E were converted to a six-point numerical scale  $(\Lambda = 1, \exists B = 2, \dots, \exists e \in G_{n})$ .





The sample sizes were as follows:

101 = 1

1. Low = 1536; 2. Medium = 3074; 3. High 1924.

This classification is similar to that suggested by Hollingshead and Redlich (1958).

Variable 25. Drug (including Alcohol) Usage:

Drug Usage was revealed in the response to Item 198\*.....

"Which statement best describes your use of drugs?"

A. I have not used drugs.

B. Luse pot (marijuana) occasionally.

C. I use pot frequently.

D. I use not frequently and have used acid ~ L.S.D.

E. I have used speed, either alone or with other drugs.

F. I have used heroin or other hard narcotics.

The recolding war: A and  $B \sim Logy$ ; C and D = High; E and E = Wery. High,

Variable 26. Family Unit.

Family Unit is classified here as separated or divorced parents on one hand, 'not so'on the other. This information was ascertained from the response to Itam 202 - -

"My parents are separated (or divorced)". Yes/No.

In this study the single parent concept also includes youths in the care of widnes, widowers or unmarried parents.

\*Confidentiality of the subjects' responses was guaranteed. This was in accordance with the recommendations of the APA -- "Clearance of Questionnaire with Respect to 'Invasion of Privacy', Public Sensitivities and Ethical Standards, etc." (Conrad, 1967). Variable 27. Type of School Attending

"What type of school do you attend?"

- A. Public ( $Gov^{\dagger}t$ ).
- B. Beligiously sponsored (parochial).
- C. Private.
- D. Vocational pr Technical.
- E. Others.

The response under D. and E. were but together as others for the  $\sqrt{\frac{1}{2}}$  purpose of analysis.

Public 1, Private 2, Parochial = 3, Others = 4.

Wariable 28, Size of Family

Responses of the subjects to Item 214 provided information about size of family. It runs thus:

"I have three or more brothers or sisters" ----- Yes/No

#### The Designs of the Study

The basic design was factorial. The 28 variables selected for analyses in relation to SPA were grouped according to the number of variables a design contained. They were:

Group I - 2-way: 2.1; 2.2 (2 designs) Group II'- 3-way: 3.1; 3.2 (2 designs) Group IIJ - 4-way: 4.1; 4.2; 4.3; 4.4; 4.5; 4.6; 4.7; and 4.8 (8 designs)

Thus there were /12 designs as given below.
Design #2.1 Within School Problems

A. (6) Academic Problems

(8) Classroom Relationship

Design #2.2 Self and Social Interaction (Part ii)

A. (13) Meaningful Life

B. (15) Human Relations

Design #3.1 Self Esteen or Self Degard (Part 11)

A. (12) Moral Responsibility

B. (16) Youth Group Vitality

C. (17) Adult Caring

1

Design #3.2 Self and Social Interaction (Part i)

 $(\mathbf{0})$ 

 $\Lambda$ . (4) Life Partner

B. (9) National Issues

C. (11) Orientation for Change

Design #4.1 Family and Its Interactional Modes.

A. (1) Family Unity

B. (2) Parental Understanding

C. (3) Family Pressures

D. (18) Family Social Opnoerns

#### Design #4.2 Solf Esteem or Self Regard (Part i)

- (i)  $\wedge$  (5) Lack of Self Confidence:
  - B. (7) Personal Faults:
  - C. (10) Maturity of Values:
  - D. (14) Self Regard:

#### Design #4.3 Biographical Variables

- A. (195)' Socio-Economic Status of Parents: Low, Medium, High.
  - B. Sex: Male, Pemale,
  - C. Apr. 15, 16, 17, 18,
  - D. (196/197) Parents/Guardians Educational Status: Low, Medium High.

#### Design #4.4

١

- A. (195) Souio-Economic Status of Parents: Low, Medium, High.
- B. (202) Family Unit: Spearated, Unseparated.
- C. (196/197) Parent's/Guardian Education: Low, Medium, High.
- D. (204) Size of Family: 3 and more, Less than 3.

#### Design #4.5

- A. (190) Religiosity of Youths: Low, Medium, Righ.
- 'B. (195) Socio-Economic Status of Parents: Low, Medium, High.
- C. (Denomination) Religious Affiliation: Catholics, Protestants, Others.

1.4

D. Parent's/Quardians - Education: Low, Medium, High.

Design	#4.	<u>6</u>	
, ,	Λ.	(195)	Socio-Economic Status of Parents:' Low, Medium, High.
	в,	(202)	Family Unit: Separated, Unseparated.
	с.	(198)	Drug (including Alcohol) Usage: Low, Medium, High.
	D,	(214)	Size of Family: 3 and more, Less than 3.

- Design #4.7
  - A. (193) Type of School Attending: Public, Private, Parochial, Others.
  - B. (195) Socio-Economic Status of Parents: Low, Medium, High.
  - ". (196/197) Parent's/Guardian's Educational Status: Low, Medium, High.
  - D: (214) Size of Family: 3 and more children, Less than 3.

Design #4.8

,В,

- A. (190) Heligiosity of Youths: Low, Medium, High.
  - (193) Type of School Attending: Public, Private, Parochial, Others.
- C. (198) Drug (including Alcohol) Usage: Low, Medium, High.
- D. (Denomination) Religious Affiliation: Catholic, Protestants, Others.

It would be observed in Table 3.4 showing the summary that for example, Religiosity, Religious Affiliation, Drug Usage and Family Unit and Type of School Attending appeared twice; Size of Family, thrice; Parents or Guardian's Education, four times, and SES five times. This made it possible to examine certain interactions hypothesized in Chapter 11.

The lay-out of the data in the most complex design, that is, fourfactor is illustrated below as it is in besign #4.1 - Family and Interactional Modes.

Variables A. Family Unity.

B. Parental Understanding.

C. Family Pressures.

D. Family Social Concerns.

The scores on the 18 scales were classified as follows:

	Level	T-Soore	Label	
	High	56 and over	a <sub>1</sub> , <sup>b</sup> 1, <sup>c</sup> 1, <sup>d</sup> 1	
	Medium	46 55	$a_2, b_2, c_2, d_2$	•
	LOW /	45 and less	a3,p3,c3,d3	
•	4 · · · · ·	· · · · · · · · · · · · · · · · · · ·		a second s

Each of the 10 biographical and demographic variables had two, three or four levels.

In this design, there were FOUR FACTORS, each with three levels. The entries in the cells were the SPA's of the subjects belonging to the various classifications.

### TABLE 3.4

# SUMMARY OF BIOGRAPHICAL VARIABLES INCLUDED IN THE DESIGNS.

		DESIGNS						•
Va	riables .	4.3	4.4	4.5	4.6	4.7	4.8	Frequency
1.	Sex	x			<u> </u>		· · · · ·	1
2.	Ago .	x						1
3.	Socio-Economic Status (of parents)	x	×	x	×	X.		/ 5
4.	Religiosity			x	>		x	2
5.	Religious Affiliation			x			х	2
5.	Parents/Quardians Education	x	×.	x			x	4
	Drug Usage		, E u		x		x	2
3.	Family Unit		×	•	x	•		2.
<b>)</b>	Type of School Attending					x	x	2
•	Size of Family	Ċ	х		x	x		3

# DESIGN 4.1

### FAMILY AND ITS INTERACTIONAL MODES

		A =		al			<sup>a</sup> 2			a <sub>3</sub>	
<b>**</b> **		B =	bj	b	b3	b	<b>h</b> 2	b3	bl	b2	b3
	.*	$C = c_1$		·					•. <b></b>		
•	dl	°2									
		°3								1	
•		cl								•	
D =	a <sub>2</sub>	°2									
		c3		•							
· · ·		°ړ				1	•.				
4 ,	d <sub>3</sub>	°2		lai i	4						1
. Nh.		°3		in.							.  .

The sample size was 6534

- 3

,

#### Analyses of Data

İ

The data in the various <u>factorial designs</u> were analysed, assuming that all the designs had fixed classifications. Because of unequal within cell samples, unweighted means approach was adopted. In the various designs, it was considered desirable to test simple main effects and first order interactions only. Higher order interactions were not examined.

SUMMARY OF ANALYSIS OF VARIANCE (4 FACTOR COMPLETELY CROSSED-FIXED DES.)

#### FOR INCOMPLETE ANALYSES, EACH FACTOR HAVING THREE LEVELS.

Source of Variation	d.f.	Deviation Sum of Squares
A main effect	A-1 = 2	SSa
B main effect	B-1 = 2	SSb
C main effect	C-1 <del>7</del> 2	SSC
D main effect	D-1 = 2	SSd
	4	
A x B Interaction	(A-1)(B-1) = 4	SSab
A x C Interaction	(A-1)(C-1) = 4	SSac
A x D Interaction	(A-1)(D-1) = 4	SSad
B x,C Interaction	(B-1)(C-1) = 4	SSbc
B x D Interaction	(B-1) (D-1) = 4	SSbd
C x D Interaction	(C-1) (D-1) = 4	SSort
Error	BCD (n, -1) 501	• SS <sub>Error</sub>
TOTAL	N - 1 = 6533	SSTOTAL

### EXPECTED MEAN SQUARE: F. (MS)

(Incomplete)



#### Two and Three-factor designs:

The designs for the two and three factors were obtained by modifying the 4-factor design appropriately.

#### Unweighted means analysis:

In a factorial design, unequal cell frequencies are a natural phenomenon. Unweighted means analysis was, therefore, needed to be used.

63

The rationale behind it was to seek a way of equalizing the n's in each cell for the purpose of analyses of (main and interaction) effects. Instead of using the arithmetic mean of all frequencies  $(n_{ij} \text{ in } 2 \text{ factors}, n_{ijk} \text{ in } 3 \text{ factors}, \text{ and } n_{ijkm} \text{ in } 4 \text{ factor designs}),$  the unweighted means analysis used the harmonic means  $(n_h)$  to represent the frequency of each cell. The harmonic mean  $(n_h)$  to be the summed reciprocals of all means. The standard error of a mean is proportional to  $1/n_{ij}$  rather than  $n_{ij}$ . (Winer, 1971, pp. '402-404; Glass and Stanley, 1970).

The harmonic means for the various designs were:

(i) For 2 factors of 3 levels each:

 $\overline{n}_{h} = \frac{3}{\Sigma} \cdot \frac{3}{\Sigma} \cdot \frac{1}{n_{ij}}$ 

(ii) For 3 factors of 3 levels each:

$$\hat{n}_{h} = \sum_{i=1}^{3} \sum_{j=1}^{3} \frac{1}{k=1}$$

(iii) For 4 factors of 3 levels each:

In1(i) for instance, the means for each of the cells may be

represented as follows:

	b1	b <sub>2</sub>	b <sub>3</sub> (	
a <sub>1</sub>	AB <sub>11</sub>	AB <sub>12</sub>	AB <sub>13</sub>	-
a <sub>2</sub>	AB <sub>21</sub>	AB <sub>22</sub>	AB <sub>23</sub>	
a <sub>3</sub>	AB <sub>31</sub>	AB <sub>32</sub>	AB <sub>33</sub>	

The following form for equal cell means does not apply in this study which has unequal cell means:

	<sup>b</sup> l	<sup>b</sup> 2	<sup>р</sup> з
a <sub>1</sub>	nll	<sup>n</sup> 12 ,	<sup>n</sup> 13
a <sub>2</sub>	<sup>n</sup> 21	<sup>n</sup> 22	<sup>n</sup> 23
a <sub>3</sub>	<sup>n</sup> 31	n <sub>32</sub>	<sup>n</sup> 33

The harmonic means for 2-factors were derived on the same principles as

those for 3 and 4 factor designs,

#### - CHAPTER IV

HYPOTHESES, ANALYSES OF DATA, RESULTS, AND DISCUSSION

It was stated in Chapter III that the principal analytic procedure used in this research was ANALYSIS OF VARIANCE (ANOVA). All the designs were fixed and had cross classification. Some designs contained two factors, others three, but most of them contained four.

The basic assumptions associated with factorial designs are widely known (Box, 1953; Lubin, 1961; Hayes, 1963; Downie and Heath, 1965; Glass and Stanley, 1970; Sharma, 1970; and Winer, 1971), and therefore, are not given here.

It would be recalled that only the first order interactions which were supposed to produce more conservative results of F's, were planned to be chamined here. The higher order interactions did not seem to be of interest and, as such, their effects were included in the error term. This would be clear from the following models applied in analyses;

(i) Structural Model for 2-Factor Designs:

 $x_{ijn} = \mu + \alpha_i \beta_j + \alpha_{ij} \epsilon_{ijn}$ 

Where,

A: the overall population mean.

 $a_i$ : the effect due to level i of the first factor.  $\beta_j$ : the effect due to level j of the second factor.  $a\beta_{ij}$ : the interaction between factors A and B at levels and j respectively.

sin: the residual or the error for the ijn coservation,

- (ii) (Incomplete) Structural Model for 3-Factor Designs:  $X_{ijkn} = \mu + a_{i} + \beta_{j} + \gamma_{k} + \alpha_{k} + \beta_{ij}$   $+ a_{ik} + \beta_{j} + \beta_{k} + \epsilon_{ijkn}$ Where,

  - $j_k$ : the interaction between the second and the third factors at levels j and k respectively.
  - 'ijkn: the residual or error for the ijkn<sup>th</sup> observation, including the effects due to the second order interaction,  $a\beta_{jik}$ .
- (iii) (Incomplete) Structural Model for 4-Factor Designs

 $X_{ijkmn} \stackrel{\text{we here}}{\longrightarrow} \mu + \frac{\mu_i}{2} \stackrel{\text{def}}{\longrightarrow} \frac{\mu_j}{2} \stackrel{\text{def}}{\longrightarrow} \frac{\mu_j}{2} \frac{\mu_j}{$ + afing + ay ik + ad im <sup>Ay</sup>jk<sup>+</sup> <sup>Bo</sup>jm ijkm.

where,

I

" , ai By Ykrasij, avik, Byjk have the meanings given

in (11 and (11) above.

. the effect due to level m of the fourth factor.

-66

ind : the interaction between the first and the fourth factors at levels i and m respectively.

 $\frac{184}{\text{jm}}$ : the interaction between the second and the fourth factors at levels j and m respectively.

 $m_{\rm km}^{\rm a}$  : the interaction between the third and the fourth

factors at levels k and m respectively.

'ijkm: the residual or error for the ijkm th observation,

including the effects due to higher order interactions

67

 $- a\beta\gamma$  if  $a\beta\delta$  if  $a\gamma\delta$  ikm  $\beta\gamma\delta$  ikm and  $a\beta\gamma\delta$  it  $a\beta\gamma\delta$  if  $a\beta\gamma\delta$ 

In examining the various hypotheses, the levels of significance used were .05 to indicate 'significant', and .01 'highly significant' differences.

Contrasts were examined, using Sheffe's method about which Winer (1971, p. 201) commented as follows:

> The Schaffe method is clearly the most conservative with respect to Type I error; this method will lead to the smallest number of significant differences. In making tests on differences between all possible paire of means, it will yield too few significant results.

Coneral procedure for examining the outcomes from the Factorial Designs

(1) All the possible first order interactions in a design were examined first, taken the at a time. An interaction gould be non-

Y

÷

significant or significant.

(2) If the first order interaction under examination was not significant, the results related to the <u>overall</u> main effects for the two non-interacting factors were interpreted. In the case of a significant overall main effect, Scheffe's contrasts were set up, examined, and the results interpreted.

(3) If the first order interaction under examination turned out to be significant, the results related to the two overall factors were considered to be meaningless and therefore, <u>simple main</u> effects where examined as follows: the simple main effects for all the levels of the first factor (A) were examined taking <u>each</u> level of the second. factor (B), and vice versa.

Whenever the F for a simple main effect was significant, Scheffe's contrasts were examined, provided the factor had more than two levels.

The data were analysed, using IBM 360, Model 67 system at the University of Alberta. Appropriate DERS (Division of Educational Research Services) programmes were used, so, the Datran, Nybmul, and ANOVA 15 and 35, with necessary modifications.

The general procedure is presented schematically in Figure 4.1. The results from the factorial designs are presented first. They are followed by a listing of correlations of SPA with each of the 28 independent variables under study.

The results are grouped according to the factors within each lign and serially numbered as follows:



FIGURE 4.1. SCHEMATIC REPRESENTATION OF THE PROCEDURE USED FOR REAMINING

ING FACTORS AND THEIR INTERACTION.

A Guide for Interpreting the Various Levels of the 18 Variables in the Following Six Designs,

Desgin #2.1

A. (6) Academic Problems:

Icw - Little worries and frustration over grades are experienced.

High - A lot of worries and frustrations over grades.

B. (8) Classroom Relationship

low ~ A feeling of adequacy and wantedness.

High - A feeling of inadequacy and unwantedness.

"Design #2.2

A. (13) Meaningful Life

Iow - A contrasting life style of self-centredness.

. High - Having a life's goal of serving others.

B. (15) Human Relations

Low - Absence of openmindedness and compassion for others.

High - Presence of openmindedness, and compassion for

others. Believes that all men are equal before God.

Design #3.1.

A. (12) Moral Responsibility.

Low - Living for one's self (privitism). High - Having responsibility for others.

(16) Youth Group Vitality

Icar - A feeling of unacceptance in grou

High - A feeling of acceptance in a group, and a sense of mission.

C. (17) Adult Caring:

Low - A negative feeling about adult behaviour to youths in congregation,

High - A positive feeling about adult behaviour to youths in congregations.

Design #3.2

 $\Lambda_{-}$  (4) Life Partner

Low - A feeling of <u>certainty</u> about future (ppy marriage.

B. (9) National Issues

Low - Low interest, and lukewarmess in social problems.

High - Much interest in identifying with social problems.

C. (11) Qrientation for Change

"Low - More inclined to traditional thinking." High - Takes a liberal stance to change.

Design #4.1

A. (1)' Family Unity

'inw - less anxiety over family closeness.

High - Much anxiety over lack of family closenes

B. (2) Parental Understanding

Low - Preserve of communication between youth and parents.

C. (3) Family Pressure

Iow - Very few family difficulties.

High - Many family difficulties.

D. (18)' Family Social Concern

Low - Less family involvement in human needs.

72

High - Much family involvement in human needs.

Design #4.2

A. (5) Lack of Self Confidence

Low - Youth has much self-confidence.

High - Youth has little self-confidence.

B. (7) Personal Faults

Low - Little feeling of self-criticism, and quilt.

High - Extreme feeling of self-criticism, and guilt,

C. (10) Maturity of Values

Low - Youth canhot move toward achieving a goal.

High - Youth believes in setting, and moving toward a goal

D. (14) Self Regard

Low - Youth does not accept himself as a person of worth. High - Youth has little self-confidence.

4	<u>1. (</u>	roup I: 2-Factor Design	<u>s</u>
		Design $#2.1$ .	
• **.		Variables $-A(6)$ *	Academic Problems.
X		B (8)	Classroom Relations
۱	, ,	Design # 2.2.	
		Variables - A (13) -	Meaningful Life
	1	, B (15)	Human Relations
	2. <u>G</u>	roup II: 3-Factor Design	19:
		Design # 3.1.	
•	,	Variables - A (12)	Moral Responsibility
		B (16)	Youth Group Vitablity
•		• (17)	Adult Caring
	•	Design # 3.2.	
•		Variables - A (4)	Life Partner
		. В (9)	Orientation for Change
, up	•	C (11)	National Issues
	,3. °G	oup III: 4-Factor Desig	ns:
-	•	Design # 4.1.	
	•	Variables - A (1)	Family Unit
		> В (2)	Parental Understanding
••		C (3)	Family Pressure
		.D (18)	Family Social Concerns

The variable numbers within the perentheses

73

Y,

• .			$\langle A^{(i)} \rangle$		74	
ſ					¥ ,	Ş.
•	l.			4		الع مرجورية
	Design # 4.2.		•		•	3
	Variables - A (	5)	Lack of Self-Confiden	œ		
<b>r</b> ,	в (	7)	Self-Regard		· .	
,	с (	10)	Personal Faults			
	D (	14)	Maturity of Values		•	
T.	Design # 4.3.		^	ſ	r	
	Variables - A (	195)	Socio-Economic Status	of Parent	s	
۱. ا	в (	Sex)	Sex			•
	c (	Age)	Age	۰.,		
u .	D (	196/197)	Parent's/Guardian's F	ducational	Status	
	Design # 4.4.			•	•	
	Variables - A (	195)	Socio-Economic Status	of Parent	່	
	В	202)	Family Unit	• •		1 .
	·** C.(	196/197)	Parent's/Guardian's E	ducaționa]	Status	•
	D (	214)	Size of Family		N .	•
N N	Design # 4.5.	2 X		٠		
	Variables - A (	(190)	Religiosity of Youths	а		•
	В	195)	Socio-Economic Status	of Parent	s .	× '
ین اور		DENOMINA-				
	10	TION)	Religious Affiliation	•	•	•
	• <b>D</b> (	196/197)	Parent is/Gyandian's E	ducational	Status	
	Design # 4.6.				•	, î
12.			Socio-Economic Status	of Parent	<b>.</b> .	*
			Family Unit			e de la constante de la consta
			Drug (including Alcot	nol,) Usage		
		(214)	Size of Family	un de la constante de la const La constante de la constante de		

Design # 4.7.

Variables - A (193) Type of School Attending B (195) Socio-Economic Status of Parents C (196/197) Parent's/Guardian's Educational Status D (214) Size of Family

Design # 4.8.

Variables - A (190)

B (193)

Reliogiosity of Youths

Type of School Attending

C (198) / Drug (including Alcohol) Usage D (DENOMINA-

TION) Religious Affiliation

1,SION #2.1.

There were two factors in this design, both related to WITHIN SCHOOL PROBLEMS, namely:

A (6) Academic Problems, and B (8) Classroom Relationship,

Academic Problems reflect, the degrée to which the youngster is worried about his academic brogress. It's items include self-blame, self-pity, and self-criticism about his academic achievement. Highscores mean a lot of concern and anxiety. Similarly, Classroom Relationship indicated loneliness, unwantedness, inadequacy, and anxiety bout satisfying others, with high scores meaning high degree of concern about such madequacies.

between these two factors as it was expected. The effects due to

TABLE 4.1	
-----------	--

. N

#### ANOVA FOR DESIGN #2.1.

Source of Variation	Sum of Squ	iares 🍝	df	Mean Square	F(observed)
			· .	· · · · · · · · · · · · · · · · · · ·	· · ·
		• 1			
A. Academic Problems	802.235	•	2	401.117	616.93**
3. Classroom Relation-	76.509	. <i>C</i>	2	38,255	58,84**
ship	· · · · · · · · · · · · · · · · · · ·	1 . · .		:	· 8
B. Interaction	9.419		4	2.355	3,62**
<b>*'</b> *	•	3. 		· ·	•
Error	4242.420	6	525	0,650	•*

the two factors were non-additive. The six possible main effects were examined. Each of them was found to be highly significant as shown in  $A_{1}^{(1)}$ . Table 4.2. Also, all but one of the eighteen contrasts were significant, fourteen of them at level .01. The only non-significant contrast was that between the medium and high levels of Academic Problems when the level of classroom relationship was high :  $B_{2-3}(A_3)$ .

In the different combinations of levels of the two factors (Table 4.3) which are also presented in Figure 4.2, low on Academic Problems and high on Classroom Relationship indicated the lowest SPA scores. On the contrary, the highest SPA was observed for the combination: 'high' on Academic Problems and 'low' on Classroom Relationship.

The result suggests that youngsters who are experiencing low Classroom Belationship, as well as high Academic Problems are faced with a repulsive situation from which they want to get out quickly. Consequently, they no longer desire to remain in it to work harder. They perceive and feel whatever grades they make as acceptable, and probably are waiting to drop-out of the scene.

Youngsters who experience high Academic Problems as well as low Classroom Felationship seem to undergo tension and are, therefore, most susceptible to maladjustments in the school (Snyder, 1947; Davidson and Lang, 1960; and Bonney, 1946). It is conceivable, therefore, that whenever youngsters are indergoing such classroom strains and stresses; they would rationally perceive and feel differently, not only about their achievements but also about the people and the whole world around them;

#### TABLE 4.2

## RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND B

### IN DESIGN #2.1.

Levels	Result	Levels Results
Α <sub>1</sub> (B <sub>1</sub> )	**	B <sub>j</sub> (A <sub>1</sub> )
<sup>A</sup> 1'' <sup>A</sup> 2	). 	B <sub>1</sub> B <sub>2</sub>
` ۲ <sup>۰۰</sup> ۸3	**	<sup>B</sup> 1∕B3 <sup>*</sup> *
<sup>4</sup> 2 <sup>1,A</sup> 3	**	<sup>B</sup> 2∿ <sup>B</sup> 3 · *
	• •	
(B <sub>2</sub> )	<b>K</b> A	<sup>B</sup> <sub>j</sub> (A <sub>2</sub> )
`1 <sup>∿A</sup> 2	**	B <sub>1</sub> ∿B <sub>2</sub> ★★
<sup>1,.,A</sup> 3	**	B <sub>1</sub> ~B <sub>3</sub>
2 <sup>~A</sup> 3	*	B <sub>2</sub> · · · ·
W .	•	
(B <sub>B</sub> )	**	··· B <sub>j</sub> (A <sub>3</sub> ) **
1 <sup>A</sup> 2		B <sub>1</sub> ∿B <sub>2</sub>
1 <sup>1,A</sup> 3	**	B10B3
2 <sup>~</sup> Å3		B22B3
ote: *Prob	bility of Fs.05	

TABLE 4.3

79

# MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

3

# A AND B.

		ı.			ACADEMI( Medium		1	•		
	<u></u>	·····	·		· / ·	<u> </u>		/		
		x ⊭	2.209		2.621	3.0	078	2.459		
N	1.Low		•	• • •	•	р Че			s – <b>†</b>	,
,		N =	1253		702		322	• 2277 4		4
	, 									1
PH -	•	x =	1.922	•	2.472	2	912	2.420		•
HSH	2. Mediu	m			•		2		•	* . •
O TIA	• •	N =	703	•	870		516	2189	 	
	١۵			•		÷***	1			
ASSRÓOM=ŘELATI ÖVSHLF		Χ <sub>Π</sub>	1.784	•	2.368	2.	875	2.523	, , , , , <b>, , , , , , , , , , , , , , </b>	r • . •••• •
ASS	3.High		•		•			•		
ទ		N =	338	·	709	1	0 <b>21</b> -m	1959	•	
#	•			•			A CONTRACTOR OF	and the second		
â			2294		2281		المربية الم	= /6534		•
		é.,	. •			· · · · · · · · · · · · · · · · · · ·			1. 10	
	••• # •	, X, ≠,	2.058		2.486	4	920			
· · · · · ·	<u></u>	+			an a					
	n Station In Station			• 5, 6			n Para		<b>\</b>	
	Na the m	4 - 17 4 - 1 4 - 1	4 5 4 T 4	1997 - S.			18 N.		4	



FIGURE 4 SPA FOR DIFFERENT .2: MBINATIONS Œ LEVELS **OF** B

It was illustrative (Table 4.3) that high Academic Problems is a very serious factor. Whenever this factor combined with any level of Classroom Relations, it considerably showed a higher value of SPA. Similarly low Classroom Relationship showed the same value on SPA. High Classroom Relationship was associated with lower SPA scores in each level of Academic Problems.

The implication in the school situation is that some of the Academic Problems (Davidson and Lang, 1960; Snyder, 1947; Soar, 1968) are created by teachers or by the school itself (Hargreaves, 1967; Hanson, 1967; Kelly, 1971), while others are due to the students' attitude and ability. Classroom Relationship in some cases can be made difficult either by peers (Bonney, 1946; Echelberger, 1959; Coleman, 1960) or by the youngster himself (Rhodes and Reiss, 1969; Schafer & Polk, 1968; Stinchcombe, 1964). In each case, however it calls for teachers and counsellors to aim at creating favourable atmosphere for students to learn, and also to enhance relationships with peers and teachers for sound mental health.

It may be argued that some pleasant and unpleasant experiences are condiments for wholesome personality growth; but when unpleasant experiences are prolonged, they could lead to self-hate and frustration. Other highlights of the effects to be guarded against are for example, low Academic Problems and high Classroom Relationship which showed very low SPA scores.

#### DESIGN #2.2

The two factors in this design pertained to SELF AND SOCIAL INTERACTION (Part 11). They were:

A (13) Meaningful Life

B (15) Human Relations.

A. Meaningful Life.

Scores on this factor reflect the life style of the youngster, how he cherishes the ideal of serving others, strives for ethical behaviour, wisdom, honesty, and sharing love and sympathy with others. Low scorers are typified as self-centred individuals, seeking wealth and honour for themselves alone. High scorers are the opposite.

The interaction between Meaningful Life and Human Relations was not significant (Table 4.4). This means that the effect due to these two factors are additive so that they can be considered independently of one another.

Both variables mentioned above showed highly significant overall main effects. All the six possible contrasts (three in each variable) gave significant F's.

The trend in both factors is the same. That is, when their levels increased, SPA lowered consistently. The three possible contrasts for the levels of Meaningful Life ware significant, two being highly significant. The same held true for the three possible contrasts for Human Relations (Table 4.5).

As indicated in Table 4.5, youngsters with low scores on Meaningful Life had high SPA, and vice varsa. The resulting band to suggest that youngsters to preveninently consider service to others over and above their personal considerations could be adversely



p		Life		N =	2246	2255	2033	Low-High** Medium-High**	f
B	(15)	Human Relations	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<b>X</b> =	2.726	2.476	2.158	Ion Medium** Low High **	
			4.	N 🗖	2249	2241 -	2044	Madium High**	

83

.

affected in trying to meet the expectations and satisfaction of others In so doing, their own self-acceptance could become secondary hence their lower SPA. Consequently, the result is probably, a feeling and perception of their own achievement as being unsatisfying, whatever the grades.

A persistent state of low SPA could sometimes give rise to maladjustment and mental ill health. It would be the duty of school Counsellor to assist such younsters. Meaningful Life is a necessity in educational practice, but youngsters should be encouraged to detelop self-acceptance and self-awareness to enable them to perceive their achievements realistically.

#### B. Human Relations

Human Relations is an important factor in self and social interaction. This factor is about presence or absence of an openmindedness, sensitivity to people who are often criticized harshly, such as, on the basis of race (Negroes), religion (Jews), chauvinism (people of enemy country), ideology (Communism), and the like, A high score is associated with an understanding that all man are entitled to equality before God.

Low scores on Human Relations (Table 4.5) are associated with high SPA. The permit this suggests that youngsters with low Human Relations tend to perceive their achievements as more setistying than those with medium and also high. Since High scores on Human Relations distinguish individuals sho are meaning becomed with the rights and desends of others, it is obnosivable that much esternal pressures could be reflected a the youngster's perception. Whenever the youngster struggles to satisfy an extraneous body, hertends to perceive his achievement as unsatifying, hence the lower SPA.

#### Group II: 3 Factor Designs

There were two 3-Factor designs in this group (3.1 and 3.2); The results thereof are given below:

#### Design #3.1

The three factors in this design were related to SELF ESTERM OR SELF RECARD (Part II). They were:

- A (12) Moral Responsibility
  - B (16) Youth Group Vitality;
  - C (17) Adult Caring

As Table 4.6 shows, five of the six null hypotheses examined here were accepted. Even though AB interaction was expected to be significant, it did not turn cut to be.so.

The rejected null hypothesis related to (A) <u>Moral Responsibility</u> which produced a highly significant F. The implication of scores on Moral Responsibility is the degree to which the youngster resorts to privatism (minding himself flone), or to how much he can maintain the ideology of becoming involved in helping others. Ich scores are associated with privation.

In the possible contrasts (presided (This 4.7), each pair ...

### TABLE 4.6

# ANOVA FOR DESIGN #3.1

	riable	1. LOW 2.1	Medium 3.	Res High Con	ults of trasts	•
1 1	, 1			4		
ME	ANS AND SAMPLE SIZ	ES OF DIFFEREN	T LEVELS O	F FACTOR A: M	ORAL RESPONSI	BIL
	•	TZ	BIE 4.7		•	
		•	• •	1 1	•	•
: ، ، ،	• • • •		ſ		, ,	
	•	<b>_</b>	/	•	nin 1. 1. and a state of the	
: بې 	· · · · · · · · · · · · · · · · · · ·		•			
<b>'</b> •	Error	4983.975	6515	0.765	•	
AC.	. Interaction	1,117	4	0.279	0.36	
BC.	Interaction	4.327	4	1.082	0.41	
C.	Adult Caring	1.474	2	0.737	0,96	
AB.	Interaction	1.329	4	0,332	` 0 <b>.4</b> 3	
Β,	Youth Group Vitality	2.159	. 2	1.079	1.41	•
۸.۰	Moral Responsibi- lity	106,735	<sup>2</sup>	53.367	<b>69•</b> 78*	1
			, ,			
500	arce of Variation	Sums of Squar	res df	Mean Square	F(obs).	•

(12) A: Moral  $\bar{X} = 2.636$  2.412 2.284 Responsibility N = 2518 2374 1642

Low Madium\*\* Low High\*\* Modium High\* 8Ğ

show highly significant differences in SPA scores. This trend typifies youngsters with increasing scores on Moral Responsibility as showing lower SPA. In schools, youngsters who had high scores on Moral Responsibility are those who are mostly out to help others, hence they perceive their achievement as low and unsatisfying. The tendency for youngsters to satisfy others mostly, while at the same time ignoring their own satisfaction, could ultimately develop into a state of anxiety and tension which maylend up in mental ill health.

Design #3.2

This design contained three factors concerned with SELF AND SOCIAL INTERACTION (Part I). They were:

A. (4) Life Partner

B. (9) National Issues

C. (11) Orientation for Change

Two of the six null hypotheses examined gave significant F's and were, therefore, rejected (Table 4.8). They were BC interaction, and the overall main effect due to C. The former made it necessary to examine simple main effects for B and C. The results are given in Table 4.9.

The interaction between (B) Mational Issues and (C) Ocientation for Change.

Sobres on National Issues relate to awareness of those conditions likely to produce peace and happiness, wiolence, pollution, and other social phenomena. Low scores reflect lukewareness of the youngster TABLE 4.8

88

ſ

ANOVA FOR DESIGN #3.2

Source of Variation Sums of Squares  df  Mean Square  F(observed)    A. Life Partner  4.285  2  2.123  2.74    B. National Issues  1.753  2  0.877  1.12    AB. Interaction  .0,860  4  0.215  0.27    C. Orientation for Change  9.812  2  4.906  6.27**    BC: Interaction  9.826  4  2.457  3.14*    AC. Interaction  1.556  4  0.389  0.50    Error  5094.730  6515  0.782	· · · · · · · · · · · · · · · · · · ·				Q1
B, National Issues  1.753  2  0.877  1.12    AB. Interaction 0.860  4  0.215  0.27    C. Orientation for Change  9.812  2  4.906  6.27**    BC. Interaction  9.826  4  2.457  3.14*    AC. Interaction  1.556  4  0.389  0.50	Source of Variation	Sums of Squares	đf	Mean Square	F(observed)
AB. Interaction  .0.860  4  0.215  0.27    C. Orientation for Change  9.812  2  4.906  6.27**    BC. Interaction  9.826  4  2.457  3.14*    AC. Interaction  1.556  4  0.389  0.50	A. Life Partner	4.285	2	2.123	2.74
C. Orientation for Change  9.812  2  4.906  6.27**    BC. Interaction  9.826  4  2.457  3.14*    AC. Interaction  1.556  4  0.389  0.50	B. National Issues	1.753	2	0.877	1.12
Change  9.812  2  4.906  6.27**    BC. Interaction  9.826  4  2.457  3.14*    AC. Interaction  1.556  4  0.389  0.50	B. Interaction	-0.860	4	0,215	0.27
AC. Interaction 1.556 4 0.389 0.50		9.812	.2 1	• <b>4.</b> 906	6.27**
	C. Interaction	9.826	4	2.457	3.14*
Error 5094.730 6515 0.782	C. Interaction	1.556	4	0,389	0.50
	Error	5094.730	6515	0.782	

#### TABLE 4.9

RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF FACTORS B AND C IN DESIGN

<u>#3.2</u> .	1



Note: Probability of F<.05, but>.01

towards such concerns, and high scores reflect high concern. In Orientation for Change, high scores indicate the desire for changes in such things as curricula, war, social welfare, race relations, and school regulations. Low scores are identified with traditional thinking and unpreparedness to welcome changes. Two of the six simple main effect were found to be significant and one of them being highly significant. Among the nine contrasts on simple main effects examined (3 for each significant or highly significant simple main effect) only three were significant and six were not.

The general trend observed from Table 4.10 was somewhat inconsistent. SPA scores, for example, at both low and medium Orientation for Change, as well as high National Issues illustrate the point. But increasing trend in SPA scores was observed in Orientation for Change only at the low and medium levels of National Issues. Also, at high Orientation for **Change SPA** scores showed a decreasing trend from low to high in National Issues scores.

Even though the F for National Isbues (B) at low level of Orientation for Ghange was significant, B<sub>1</sub>(C<sub>3</sub>), only one of its three possible contrasts was significant. This was probably because the significant F was marginalized a result of the conservative Scheffé F test applied. Orientation for Change did not show significant differences in SA scores at the medium and high levels but highly significant differences in SPA scores ware observed at low and medium, and low and high levels. It could be descered from the results that growth interarrass for change in National Issues could lead to significantly higher SPA scores
)

ી 91

1.1

٩

### MEANS AND SAMPLE SIZES AT DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

B AND C.

		$\bar{X} = 2.373$	2,464	2.438	X ≐ 2,413
· ·	1.Low			•	
	ξ <b>η</b> ξ	N = 1245	761	5 <b>1</b> 6	N ⇒*2522
¢ Change	•	X = 2.525	2.476	2,494	x = 2,500
ţi Li	2. Medium				
Drientation f		N = 964	827	625	N == 2416
Lient		X <b>≠ 2.608</b>	2,517	2.440	X = 2,497
	3.High				
ć. č		N = 319	484	793	N = 1596
		N = 2528	2072	. 1934	N = *6534
		<b>3 = 2,4</b> 60	2.481	2:457	

lower SPA's cores, probably because the youngster is neither involved in, nor committed to a change or National process going on.

The educational implication would be to systematically expose youngsters to psycho-social awareness through its activities. Such a desire for a change and concern for National Issues should be based on democratic principles. Moderation on both factors is suggested, considering that their medium scores could lead to relatively medium SPA scores.

92

### Group III: 4 Factor Designs

There were eight designs in this group, examined separately. Design #4.1

The four factors in this design related to Family and Interaction Modes. They were:

- A' (1) Family Unity
- B (2) Parental Understanding
- C (3) Family Pressure
- D (18) Family Social Concerns

The results (Table 4.11) showed that six of the ten mult hypotheses examined ware rejected. Among them were the AC and BC interactions. Factor D, Family Social Concerns, did act interact with any other variable. In its three contrasts, SPA mean scores at low and high levels were significantly different, but no significant difference was every

between either low and medium, or medium and high levels of the factor.

1

• 1

•

1

١.

1

### ANOVA FOR DESIGN #4.1

Sou	ree of Variation	Sums of Squares	đf	Mean Square	F' (nbu).
۸.	Family thity	21.058	2	10.529	14.02**
3,	Parental Understan	nd- 98.683	2	49.342	65,68**
- 1 - 1	Family Pressure	76.435	2	38.218	50.87**
) <b>.</b> 1	Family Social Concerns	10.461	2	5.231	6,96**
NA.	Interaction	1.813	4	0.453	0,60
c.	Interaction	14.794	4	3.697	4,92**
d).	Interact fon	5.464	4	1.366	1.82
ю.	Interaction	8,168	. 4	2.042	2.72*
BD.	Interact ion	1.640	4	0.410	0.55
D.	Interaction	5.482	4 .	1.370	1.82
	Fror	4883.863	6501 •		
				· · · · · · · · · · · · · · · · · · ·	
	•	•	•	,	•

Hecause of the AC interaction, simple main effects for A & C were examined. Four out of the six such effects were significant and two were not.

In the <u>AC interaction</u>, levels on (A) <u>Family Unity</u> reflect. the concom over anxiety within the home - incohesiveness, lack of consideration for others, and quality of interaction between parents and children. High scores depict high anxiety, while low scores do the opposite. (C) <u>Family Pressures levels are about difficulties caused by separation</u>, divorce, illness, financial problems, tragedy and parent-youth strife. High scores depict greater difficulties and emotional instability.

Four of the six simple main effects produced highly significant F's (Table 4.12). Also, the twelve possible contrasts were examined. Eight of them gave highly significant F's. Some non-significant differences were found in the contrasts of both variables (Family Pressures and Family Unit) in their high levels -  $A_i(C_3)$ , and  $C_k(A_3)$ , respectively.

In both factors, a common trend was not observed. In factor C (Family Pressure), for instance, SPA means rose as the levels increased for all mevels of Family Unity, but this was not true of factor A (Family Unity) for the levels of Family Pressure.

The highest SPA mean was found in the 'medium' Tamily Unity and 'high' Family Pressure cell. This indicates that when youngsters have anxiety and concern over lack of closeness in their families, and also suffer from much difficulties in their family/ they would probably be unable to strive for success in their academic achievement and, therefore report high SPA.

The youngsters may drop-out of school in time to eke out a means of helping the family out of their problems, or escape from those problems.

The implication is that some parents like to discuss their vorries

)

RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND C

		IN DESIGN #4.1"	ب	
: FAMILY U	YTI	C: FAMILY P	ACSSURE	
levels	Result	Levels	Result	5
(C <sub>1</sub> )	N.S.	(A1)	` * <b>*</b> *	
	•	C1~C2	**	
(C <sub>2</sub> )	N.S. '	° <sub>1</sub> ,~C <sub>3</sub>	** = 2	
- ,		<sup>6</sup> C2 <sup>AC</sup> 3	**	•
i (c <sub>3</sub> )	**	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	^**	
A		°1 <sup>4</sup> °2	∕	•
1 <sup>~A</sup> 2	N.S.	C1~C3	**	(
ייי <u>א</u> יר איי	N.S.	C2~C3	***	
2 <sup>~A</sup> 3	常音	•		
	* * * * *	GK (A3)	★★	
		C1 ~ C2	N.8.	
		C1~C3	1	and a free free free free free free free fr
	•	. <sup>C</sup> 2 <sup>^C</sup> 3 •	N.S.	
obin. *Probe	bility of Fs.05 bility of Fs.01	best: >.01.		
		\$ •		• ( ) • •

95 <sup>:</sup>

		A AND C		·· · ·
		A: #1 - FAMIL	X UNITY	•
		1. Iow 2. Medium		·
	l. Low	x̄ = 2,291 2.282	2.399	X = 2.301
	PRESSURE	N = 1260 625	253	2138
		X = 2.476 2.450	2.510	X = 2.477
	κ. 	N == 952 1051	909	~ 2912
	ü 3. High	x = 2.690 2.810	2.607	2,680
		N = 210 453	<b>82</b> 1	1484
· • •	•	2422 2129 - 2.398 2.477	1973 2.536	= 6534 .

1

.

•

•

96

.

and bring them to the knowledge of their youngsters. The result is usually lack of concentration in school work and a desire to leave school early. Low scores on the two variables are associated with low SPA indicating that those youngsters, who experience <u>less family problems</u> and low anxiety while their papents expect them to achieve the standard set for them.

The school can offer necessary counselling as well as channel the youngstews' anxiety to other interesting extra-curricular activities. Probably, it would call for a meeting with the parents to discuss with them how their family problems are affecting the youngster and how it is too early in his life to get too directly involved in their problems overtly since he can hardly solve them while at school.

In the <u>BC interaction</u>; (B) <u>Parental Understanding</u> levels are related to lack of communication and understanding between a youth and his parents, feeling of dissatisfaction and disappointment over parents' ill treatment of him and his friends. High scores then are depicting high intensity. (C) <u>Family Pressure</u> levels here as in the previous design also relate to the degree of difficulty the youngster has in his family because of separation, divorce and other problems. High scores depict greater difficulties and emotional instability. Four of the six simple main effects examined were significant (Table 4.14).

Also, eleven of the twelve possible contrasts examined were significant. There was an increasing trend whereby, standing on both variable became higher, SPA also became higher (Table 4.15 & Figures 4.3 and 4.4).

The implication is that when a youngever feels disappointed or dissatisfied by the way his parents' treat him and is conscious of his femily problems, he finds school boxing and wishes to get out of it as soon as possible. C

### RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS B AND C

# IN DESIGN #4.1

Levels	Results	Levels	Results	
B <sub>j</sub> (C <sub>1</sub> ) ,	**	<sup>-</sup> <sup>-</sup> <sup>-</sup> <sup>-</sup> <sub>k</sub> (B <sub>1</sub> )	**	• •
<sup>B</sup> 1 <sup>∿B</sup> 2	A	C1vC2	**	
<sup>B</sup> 1 <sup>∿B</sup> 3	**************************************	, C1~C3	**	
<sup>B</sup> 2 <sup>∿B</sup> 3	**	• C <sub>2</sub> ~C <sub>3</sub>		· · · · · · · · · · · · · · · · · · ·
в <sub>ј</sub> (С <sub>2</sub> )	**	С <mark>к (В</mark> 2)	**	
<sup>B</sup> l∿B2	**	C1~C2	**	O , '
<sup>B</sup> 1 <sup>∿B</sup> 3	**	°2∿°3	**	
<sup>B</sup> 2 <sup>∿B</sup> 3	N.S.	C2~C3	**	<b>)</b> 
	N.S.	. C <sub>k</sub> (B <sub>3</sub> )	N.9.	

Note: "Probability of Rg.05 but>.01.

.

.

t

1

۹. <sup>1</sup>

### MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

B AND C.

			<u>B AND C</u>	••		
			*	1	1. J.	ter;
ι.		<u>B: #2 -</u>	PARENTAL	NDERSTANDIN	G	1 mg
	•	1. Iow		,		,1°
*1		x = 2.229	2.340	2.593	$\bar{X} = 2.301$	
·	1. Low					
		N = 1266	646	226	2138	
E C	·	X 7 2.332	2,523	2,600	X = 2.301	
PRESSURE	2. Medium		•	•		
		N = 1035	1037	N 8 <b>4</b> 0	2912	
FAMILY	<u>, e</u>		1037	₦ 840		
L E		x̄ = 2.596	2.701	2.702	x = 2.680	
ປີ	3. High		•			
and the second se	and a second	N = 297	502	685 ,	1484	'n
	a and a state of the state of t		<u>}</u>			
	• 2 · · · · · ·	2598	2185	1751	<b>-</b> 6534	а <sup>6</sup> 1 — 4 — 4
•		X = 2.312	2.510	2.639	*	•
				<b>)</b>		1
	al Manada a constante presidente e da s <b>presa</b> re e da si al 1999.		•	بینیندی میں ایک ایک ا	n felin a serie and a serie and a series of the series The series of the series of th	
•			· · · · · ·			

99

١.





to seek liberty and a means of providing for his needs. He, therefore, feels his grades are acceptable as being satisfying to him. The bipolar concept of youth (adolescence) is not uncommon in both schools and homes (Mitchell, 1971). That is, in one breath the adolescent is looked upon as a child, an immature adult, and hence deprived of all reasonable gran-up's privileges and attention. In another breath, he is considered old an mature enough to know better. He is often called upon to participate in adult's activities such as national service, marriage, and other similar duties. The degree with which the youngsters perceive and feel this adult behaviour toward them varies.

Low scores on these two factors, Parental Understanding and Family Pressure, are identified with youngstors who are struggling to meet the high aspirations extraneously set for them. The medium standing on the factors reflect, youngsters with medium SPA.

Even though the school-can hardly change directly the prevailing circumstances in the homes, it could use the medium of the Parentsthere is an overall main effect due to (D) Family Social Concerns. There is an overall main effect due to (D) Family Social Concerns. Their scores are characterized by the degree, to which the youngster perceives and feels about how his parents are concerned about, and responsive to human needs. High scores indicate high concern and feeling, and vice versa.

In the contrasts (Table 4.16), significant differences did not occur in SPA mean scores between low and medium, or medium and high standing on the variable. But the difference between low and high was highly significant. When levels on the variable became higher, SPA

Cores were lower,

5.3**1**1

It is implied that the youngster's feelings of Family Social Concerns could probably enhance the awareness of his parent's expectations toward his personal goals and ambition. We thus reports an unsatisfying lower SPA scores. Positive and negative awareness could be generated by the School through Youth clubs, Red Cross, 4 H Clubs, and Community activities.

### 'Table 4.16

### MEANS AND SAMPLE SIZES FOR DIFFERENT LEVELS OF FACTOR D: FAMILY SOCIAL

#### CONCERNS.

Varia	able	1. Low 2.	Medium	3. High	Result of Contrasts
(18)	D:	<b>X</b> = 2,573	2 <b>. 46</b> 8	2,362	Low Medium N.S.
•	Family Socia	1	<b>%</b>		Iow High**
	Concerns	N = 2041	2347	2146	Medium High N.S.
	•	•*1			•

### Design 1.2

The four factors in this design were related to SELF ESTEEM OR SELF REGARD . (Part 1). They were

A (5) . Lack of Self Confidence

B (7) Personal Faults

C (10) Maturity of Values

#### D (174) Self Regard

It was observed (Table 4.17) that there were two significant interactions among five of the rejected null hypotheses. They were (i) B and C, and (ii) B and D. None of them was highly significant. There was also a significent overall main effect due to Factor A.

In the <u>BC interaction</u>, (B) <u>Personal Faults</u> scores relate to the youth's self-criticism as to whether he had lived up to his ideals, thus bringing about a feeling of guilt. They have to do with the youths mode of thinking and feeling about himself and also question his selfconfidence.

(C) <u>Maturity of Values</u> scores have to do with the youth's ability to make his own decisions rather than depend upon others. High scores are associated with the youth's ability to move towards his own goals and ideals.

Simple main effects and their contrasts were examined (Table 4.18). The general trend observed in the combinations of the different levels (Table 4.19) was that as the levels of both factors - Personal Faults and Maturity of Values, increased, SPA scores became lower with the exception of the high levels of both factors. The combination of high standing on Maturity of Values and each level of Personal Faults was associated with comparatively lower SPA mean scores. The the effects due to high level of Maturity of Values became an attenuating factors on SPA scores on Personal Faults. The implication is that as the youngster becomes more and more mature, he tends to feel that his actual achievement is not satisfying enough to meat his ideals and goals. The cellice Maturity and Ice Personal Faults (Table 5.19) buttained the highest SP

P

٦

`\_-

権

ANOVA FOR DESIGN #4.2

Source of Variable	Sum of Squares	s df	Mean Squa	re F(observed
Λ. Lack of self-Confidence	7.301	\ <sup>2</sup> .	3.650	4.86**
B. Personal Faults	3.975	2	1.488	1.98
C. Maturity of Values	39.684	2	19.842	26,42**
D. Self; Regard	164.622	2	82.311	109.59**
AB. Interaction	1,484	4	0.371	0,49
AC. Interaction	3.739	4	0.935.	1.24
AD. Interaction	5.137	4	1.284	1.71
BC. Interaction	7.919	4	1.980	2,64*
3D. Interaction	7.395	<b>4</b>	1.849	2.46*
D. Interaction	4.937	4	1.234	1,64
Error	4882.661	6501	0.751	
		• 1		

105

		۲ ۲	IN DESIGN #4.2		· ·
-	B: PERSONAL	FAULTS	C: MATURIT	Y OF VALUES	• • •
ī	Levels	Result	Ievels	Result	,
	$B_{j}(C_{1})$	*	С <sub>к</sub> (В <sub>1</sub> )	**	
	<sup>B</sup> 1 <sup>∿B</sup> 2	**	C <sub>1</sub> ~C <sub>2</sub>	***	
63	B <sub>1</sub> ∧B <b>3</b>	**	C1~C3	**	•
	<sup>B</sup> 2 <sup>∿B</sup> 3	N.S.	C2~C3	**	1 4
				18 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	.•
	B <sub>j</sub> (C <sub>2</sub> )	N.S:	C <sub>k</sub> (B <sub>2</sub> )		<b>4</b> , , , ,
		1	C <sub>1</sub> ^C <sub>2</sub>	N.S.	• • • • • • • • • • • • • • • • • • •
· · ·	B (Ĉ <sub>3</sub> )	*	C <sub>1</sub> ~C <sub>3</sub>	5 ( <del>**</del>	•
, ·			C2 <sup>AC</sup> 3		na series de la companya de la comp Na companya de la comp
	B <sub>1</sub> ^B <sub>2</sub>	N.S.		•	
	B <sub>1</sub> <sup>AB</sup> 3	N.S.	С <sub>қ</sub> (В <sub>3</sub> )	N.S.	
	B₂∿B3	N.S.			
	Note: Probal	aility of Fs.05 h	ut>.01		
τ. 1. λ. τ. <sup>1</sup> ξ1 -	**Probal	bility of Fs.01			

TABLE 4.18

			$\frac{B \text{ AND C.}}{k}$	AL FAULTS	•	
		1. I. I. I.				
		x = 2.667	2,509	2.511	x - 2.544	• •
Ň		N =	" 953	.1020	N = 2526	
SENTEN		x = 2.489.	2', 452	2.453	2.465	
В	2. Medium	n . N≕ 841	<del>9</del> 51	585	2377	-
ALIMINE - OTE	- -	<b>X</b> = 2.321	2.320	2.460	• 2,345	
c: #10 -	3. Hagh	7	553	289	1631	
`		2183	2457	1894	= 6534	
•	5111	2.473	2.444	2.485		t

.>

. •

107

•

!

scores.

In schools, Maturity of Values which is very crucial to SPA, , we could be enhanced by providing opportunities for a variety of reasoning exercises allowing youngsters to experience sharing responsibility through class supervision as an opportunity for participatory education. Maturity of Values is gained through practice. It is also observable that, as Personal Faults decreased and Maturity increased, the youngster probably perceived and felt his own actual achievement more soberly in accordance with his own ideals and expectations, hence the associated lowered SPA scores.

As already described in this design, scores on (B) Personal Faults indicate a source of self-criticism as a youth's awareness of not having lived up to his ideals. As a result, he feels guilty. This scale measures his feeling of self-criticism, both with respect to what he has done and what he has failed to do. It reflects a mode of thinking and feeling about oneself that often undermines one's self-confidence. High scores are related to high feeling of self-criticism, and vice versa.

BD interaction. Variable (B) <u>Personal Faults</u> was explained above. (D) <u>Self Regard</u> secres reflect youths' experience as they hold a low opinion of themselves, when unfavourable conditions are prolonged or become frequent. Self-confidence or self-esteem is, therefore, undermined. The Self-Regard scale measures the degree to which youths accept themselves as persons of worth and promise.

Five simple main effects out of the six examined showed highly significant differences in SPA mean scores. Thus only Personal Faults with high Self Regard was not significant,  $B_1(D)_3$  (Table 4.20). Twelve related contrasts of the possible sixteen were highly significant.

109 TABLE 4.20 ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS B AND D IN DESIGN #4.2 H: PERSONAL FAULTS D: SELF REGARD Irvels -Result Ievels Result <sup>B</sup>j <sup>(D</sup>1<sup>)</sup> D<sub>m</sub> (B<sub>1</sub>) \*\* \*\* B1<sup>10</sup>B2 N.S.  $D_1 \sim D_2$ B10B3 D<sub>1</sub>∿B<sub>3</sub> <sup>B</sup>2<sup>--B</sup>3 N.S.  $D_2 \sim D_3$ C <sup>B</sup>j <sup>(D</sup>2) ₽<sub>m</sub> (B<sub>2</sub>) \*\* \*B1~B2  $D_{1}^{D_{2}}$ B<sub>1</sub>~B<sub>3</sub> \*\* D<sub>1</sub>~D<sub>3</sub> B<sub>7</sub>∿B<sub>3</sub> N.S.  $D_2 \sim D_3$ B<sub>1</sub> (D<sub>3</sub>) ₽<sub>m</sub> (B<sub>3</sub>) N.S.  $p_1 \sim p_2$ `D₁~D₃ D2~D3 N.S. \*\*Probability of Fg.05 but>.01 \*Probability of Fg.01 Note:

In both factors, low levels were associated with higher SPA, and medium-high levels with lower SPA scores (Table 4.21). High level of Self Regard was related to lower SPA scores wherever it combined with each level of Personal Faults. The low levels of the two variables (Table 4.21) showed the highest SPA mean scores (Figure 4.5).

The implication is that SPA scores are highest when the youngster is low on both Self Regard and Personal Faults. But as he gains on the two factors (except for the H-H cell), SPA scores become lower. Significant differences are observed in SPA as the two factors are developed. It is essential that the youngster should gain in Self Regard. Personal Faults which also indicates self-criticism and self awareness which are necessary to enhance a realistic self-perception of achievement. The schools, teachers and counsellors should provide opportunities for youth to develop self-criticism and self-acceptance, by certain 'significant others' accepting the youth to accept himself. It is a reflective behaviour. Without self-criticism and self-acceptance, a youngster could delude himself with a feeling of pre-emptive satisfaction about his achievement.

The significant <u>overall main effect was due to Factor A, Lack</u> of <u>Self-Confidence</u>. Scores on this factor are related to how much the youngster is afraid of making mistakes. High scores are associated with self-consciousness, uneasy in group situations, anxious to please others, and over-mager to avoid embarrassing situations.

High level (Table 4.22) on this factor are associated with slightly higher SPA scores. The SPA mean scores of the low and medium levels are identical. There is a significant difference between low and high, as well as on medium are ligh. It thus suggests that it

TABLE	4.	2	1
-------	----	---	---

١

•

ŧ

. .

•

.

. .

,

# MEANS AND SAMPLES SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

### B'AND D.

		1. Low	<ul><li>#7 - PERSONA</li><li>2. Medium</li></ul>	, <b>,</b>	
1.	Low	x = 2.824	2.688	2.594	$\bar{X} = 2.666$
		N = 336	676	954	. N = 1966
•	Medium	X ≈ 2.601	2.435	2,418	2.481
		N ≈ 745 ,	1025	660	2430
	High	x = 2.279	2.230	2.271	2.264
	4 <b>-</b> - <sup>12</sup>	N = 1102	756	280	2138
		2183 X = 2.473	2457 2.444	1894 <sup>4</sup> 2.485	6534
		\$2.	t	nîn în antișe friție - Lean șe nî sep	

, i

.

•



		CONFIDENC	E.	
$\int$			м. М	
· · · · · · · · · · · · · · · · · · ·	·			1
Variable	1. Low 2	. Medium	3. High	Result of Contrasts
•	۱.·			
5) A: Lack	X = 2.444	2.444	2.516	Low Medium N.S.
of Self			·	Low-High**
Donfidence	N = 2238	2301	1995	Medium High **
• · ·		· · ·		

113

.

requires some degree of self-confidence, at least beyond the medium level, for the youngster to perceive and feel realistically about his actual achievement. High level on Lack of Self-Confidence (which implies anxiety to please others) is associated with increase in SPA scores.

Undoubtedly, youngsters need some degree of a feeling of selfconfidence and therefore, need to be helped in the school environment through such activities as could elicit initiative and positive reinforce ment from 'significant others' (Bandura et. al., 1964; 1967; and Bandura, 1963).

### Design #4.3

The four factors in this design were BIOGRAPHICAL AND DEMOGRAPHIC in nature. They were:

A. (195) Socio-Economic Status of Parents

B. Sex.

C. Age

D. (196/197) Parent's/Guardian's Educational Status

In the results presented (Table 4.23), there are seven rejected hypotheses including three on interactions. The latter are AB, AD, and BC, each of which was examined separately.

In the <u>AB interaction</u>, the variable (A) <u>Socio-Economic Status</u> <u>of Parents</u> is considered with regard to the differential sub-oultures of youngsters within each of its three levels: low, medium, and high. The F for each of the five simple main effects was highly significant. Similarly, all the six contrasts gave significant F's (Table 4.24).

### ANOVA FOR DESIGN #4.3

2

ŗ

	Sou	rce of Variation	Sum of Squares	df	Mean Square	F(observed)
	Α.	Socio Economic Status of Parents	104.862	· · 2	52,431	70,80**
1	в.	Sex	65,320	1	65.320	88,20**
	с,	Age	8,316	3	2.772	3.74*
	D.	Parents/Guardians Educational Status	94,891	- 2	47.446	64.06**
	AB.	Interaction	7.823	2	3.911	5,28**
	AC.	Interaction	5,096	6	0.850	1.15
	AD.	Interaction	11.786	4	2.946	3.98**
	BC.	Interaction	8,673	3	2,891	3.90**
	BD.	Interaction	3.930	2	1.965	2.65
	CD.	Interaction	1.812	6	0.303	0.41
		Error	4815,362	6502	0.741	•

115

(NO

RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND B

### IN DESIGN #4.3



The SPA means for the combinations of the different levels of the two  $\frac{1}{2}$  factors were seen to fall in a general pattern (Table 4.25), leading to the following generalizations. (1) In SPA means they were lower for females than for males at each SES level.

In this study Girls in each level of SES of Parents showed lower SPA indicating that they are probably more achievement-oriented than Boys in spite of the social handicap. This is contrary to what was expected.

It-was anticipated that Boys as prospective bread-winners for the family would probably be more achievement-oriented and would therefore perceive their actual grades as less satisfying, leading to lower SPA. It did not turn out to be so. A plausible explanation for this reversal impthe Girls' expected SPA could be that the Women's Liberation Movement has heightened the academic expectations of Girls.

(2) The SPAs tended to be lower as SES became higher. This is very interesting and indicates that low SES Parents are probably not capable of motivating the youth to strive harder for better achievement as a result of their sub-culture and social handicaps. Consequently, those youngsters tended to perceive whatever their actual grades were as more satisfying to them and, hence, reported higher SPA. Obviously, youngsters who come from high levels of both of the factors are probably working hard to keep pace with their parents' expectations, hence they perceive their actual achievement as low. The reverse was the case for youths from low-low combination.

AD interaction: The variable A is SpS of Parents. (D) Parent's/ Guardian's Educational Status relates to the amount of education of both



parents, classified as low, medium or high (details are given in Chapter III).

All of the six simple main effects related to this interaction yielded significant F's (Table 4.26). The same held true for thirteen of the eighteen contrasts. At the low and medium levels of Parent's/ Guardian Educational Status, no significant F's were observed for the difference between medium and high SES of Parents.

The SPA means for the combinations of levels of the two factors (Table 4.27) do not show clear-cut trends when the level of A or of B is 'low'. However for levels 'medium' and 'high' of factor A, there is a downward trend -- SPA decreasing with increase in the levels of factor  $B_{\nu}$ . The reverse holds true for the corresponding levels of factor B. This phenomenon is very interesting. It should be noted that SPA is the lowest in the high-high combination of the two factors, and highest in the low-low combination, thus inversely proportional in reflecting the familial pressure or otherwise, on the youths.

BC interaction. The variable (B) is Sex and (C) is Age - 15, 16, 17, and 18 years.

Five of the six simple main effects were significant, four of them for the four age levels for each of which Boys' SPA was higher than that of Girls. Girls did not show age-related difference in SPA, and accounted for the only non-significant simple main effect (Table 4.28). Two of the six possible contrasts examined (these of Boys) gave significant F's. These for Girls did not need to be examined.

However, as far as trend is concerned, only the  $C_1^{\Lambda}C_2^{\Lambda}$ ,  $C_2^{\Lambda}C_3^{\Lambda}$ and  $C_3^{\Lambda}C_4$  contrasts are meaningful. The first two of them gave

### RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND D

### IN DESIGN #4.3.

SOCIO-ECONOMIC STATUS Λ: OF PARENTS

۱.,

PARENT'S/GUARDIAN'S D: EDICATIONAL STATUS

OF PA	RENTS	ELUCAT	IONAL STATUS
levels	Result	Levels	Result
A <sub>1,0</sub> (D <sub>1</sub> )	**	D <sub>m</sub> (A <sub>1</sub> )	**
A1~A2	**	<sup>D</sup> 1∿ <sup>D</sup> 2.	**
^ <u>1</u> ^^3	N.S.	D <sub>1</sub> ∿D <sub>3</sub>	° , ↔ N.S.
<sup>A</sup> 2' <sup>VA</sup> 3	N.S.	D2~D3	N.S.
Α <sub>i</sub> ( <sup>b</sup> 2)	**	• (A2)	**
1 <sup>*</sup> <sup>1</sup> <sup>*</sup> <sup>1</sup> <sup>A</sup> 2	**	D <sub>1</sub> ∿D <sub>2</sub>	**
1''A3	**	D <sub>l</sub> j D <sub>3</sub>	
<sup>4</sup> 2 <sup>1</sup> A3	N.S.	₽ <sub>2</sub> ∿₽ <sub>3</sub>	**
• • (D <sub>3</sub> )		D <sub>m</sub> (A <sub>3</sub> )	
<sup>A</sup> 1 <sup>∿A</sup> ₹		D <sub>1</sub> ∿D <sub>2</sub>	
<sup>1</sup> 1∼ <sup>A</sup> 3		<sup>D</sup> ī <sup>∿D</sup> 3	
2 <sup>^^</sup> 3.		D2^D3	
Note: *Pr **Pr	obability of F<.05 obability of F<.01.	but>.01.	

MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

. 1

A AND D.

١

	X = 2.676	2.476 2.295	
<u>(*</u>	N = 1231	3584 1719	- 6534
•	N = 195	723 1006	1924
3. High	X = 2.677	2.322	X - 2.289
	N = 615	1857 , 602	N = 3074
2. Medium	<del>x</del> = 2.566	2,439 2,394	x = 2.456
	N = 421	1004 111	N = 1536
1. Low	x̃ ≈ 2.836	2.653 2.712	x̄ = 2.708
	l. Low	2. Medium 3. High	

TABLE 4.28

-1

t

# RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS B AND C

. .

levels	Result	Levels	Result
B <sub>j</sub> (C <sub>1</sub> ) .	**	<sup>C</sup> κ (B <sub>1</sub> )	**
. •		C1 <sup>vC2</sup>	**
		ClvC3	N.S.
Ry (C <sub>2</sub> ),	** ^	։ <sup>C</sup> Ղ <sup>∿</sup> C₄	N.S.
	-	<sup>C</sup> 2 <sup>^C</sup> 3	*
		C2 <sup>vC</sup> 4	N.S. `
		°3∿°4	N.S.
م) (C <sub>3</sub> )	**	4	
		ς <sub>κ</sub> (Β <sub>2</sub> )	N.S.
(C <sub>4</sub> )	**		· ·
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	.* * * .* *
iote: *Proba **Proba	bility of Fg.05 bility of Fg.01	5 but>.01.	

• •

ć

122

۰ . .

1.

significant F's, indicating significant differences between fifteen and sixteen years, **AS Well** as between sixteen and seventeen years (for Boys). However from fifteen to seventeen years the trend was not clear, (Table 4.29).

**DESIGN # 4.4** 

The four variables in this design were:

A. (195) Socio-Economic Status of Parents,

B. (202) Family Unit.

C. (196/197) Parent's/Guardian's Educational Status.

D. (214) Size of family

As Table 4.30 shows, five of the ben null hypotheses were rejected, including the one on AC interaction.

The AC interaction. The variables in this interaction were: (A) Socio-Economic Status of Parents and (C) Parent's/Guardian's Educational Status. This interaction has already been dealt with in Design #4.3, (as AD interaction) nor is it necessary to deal with factors A and C here for the same reason. This leaves us with only two of the five rejected null hypotheses - those related to overall effects B and D.

(B) Family Unit

Family Unit was considered to be of two types: 1. Separated and 2. Unseparated. In the former, the youngster is living with one parent only, in the latter, with both.

SPA was significantly higher for youths from "unseparated type.

TABLE 4.29

### MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

BAND C.

		1. Boys	2. Girls	
		X = 2.513	2.404	x = 2.452
	1. 15 yrs	• N = 1191	1501	N = 2692
		x = 2.671	2.373	<b>X</b> = 2.505
	2. 16 yr	s, N = 767	979	N = 1746
C: YG	**************************************	x = 2.533	2.325	x = 2.422
	3. 17 yr:	9. N = 710	813	N = 1523
		x̄ = 2.635	2.414	X = 2.527
.8	4. 18 yfs	N - 293	200	N = 573
\ \	•	N = 2961	3573	- 6534,
<u>.</u>		X = 2.572	2.378	

### ANOVA FOR DESIGN #4.4

		a df	mean aquares	s F(observed)
Socio-Foonamic	·····		<del></del>	
Status of Parents	104.862	2	52.431	69.85**
Family Unit	15.273	1	15.273	26.35**
Parents/Guardians		,	, ,	
Educational Status.	88.614	2	44,307	59.03** <sup>′</sup>
Size of Family	9.231	1	9.231	12.30**
Interaction	3,393	2	1.697	2.26
Interaction	11.836	4	2,959	3.94**
Interaction	0,588	2	0,294	0,39
Interaction	2,463	2	1.231	1.64
Interaction	0.390	1	0,390	0.52
Interaction	1.649	2	0.825	1.10
Stror	4889,571	6514	0,751	·
	Status of Parents Family Unit Parents/Quardians Educational Status. Size of Family Interaction Interaction Interaction Interaction Interaction Interaction	Status of Parents104.862Family Unit15.273Parents/Quardians Educational Status,88.614Size of Family9.231Interaction3.393Interaction11.836Interaction0.588Interaction2.463Interaction0.390Interaction1.649	Status of Parents104.8622Family Unit15.2731Parents/Quardians Educational Status.88.6142Size of Family9.2311Interaction3.3932Interaction11.8364Interaction0.5882Interaction2.4632Interaction0.3901Interaction1.6492	Status of Parents 104.862 2 52.431   Family Unit 15.273 1 15.273   Parents/Quardians 88.614 2 44.307   Size of Family 9.231 1 9.231   Interaction 3.393 2 1.697   Interaction 11.836 4 2.959   Interaction 0.588 2 0.294   Interaction 2.463 2 1.231   Interaction 0.390 1 0.390   Interaction 1.649 2 0.825

٠,

•

•

- Æ.

a

1\_\_\_\_

(Table 4.31). It seems that the youths from separated families do not have the necessary push towards high academic goals, so that they tend to perceive their actual achievement as satisfying. This phenomenon has been alluded to by previous researchers, for instance, O'Neill (1971), Parsons et al. (1965), Smith (1970), Becker et al. (1967), Brantly (1969), and Hoffman et al., (1960).

(D) Size of Family

The Size of Family was considered to be either 1. Large (three or more children), or 2. Small (less than three children).

SPA was significantly higher for youths from 'large' families (Table 4.31). Considering that large families are associated with dissipation of parental affection, support and motivation, it could be rationally expected that youngsters from such families would report higher SPA mean since they perceive their actual grades with satisfaction.

### DESTON # 4.5

The four factors in this design were:

A. (190) Religiosity of Youths.

B. (195) Socio-Economic Status of Parents.

C. (DENOMINATION) Religious Affiliation.

D. (196/197) Parantis/Guardian's Educational.Status.

There were three highly significant interactions among the seven rejected null hypotheses (Table 4.32). These were 28, AC, and BD, respectively. Since the last die, BD interaction, has been included
# MEANS AND SAMPLE SIZES MOR DIFFERENT LEVELS OF FACTORS B AND D, RESPECTIVELY. ή Results 1.Parents Separated 2.Parents Unseparated Variable (202) B: Family x = 2.637 2.449 Unit B<sub>1</sub>∿B<sub>2</sub> 595 5939 N Results 1. Family with 3chn. 2. Family with 3chn. (214) D: Size of · x = 2.510 421 ₯∿₽ Family 3270 3264 N

) ۱ ۲

1

TABLE 4.31

¥ .

## ANOVA FOR DESIGN #4.5.

Sou	rce of Variation	Sums of Squares	a df	Mean Squares	F(observed)
— A.	Religiosity of	<u>n</u>	· · ·		•
4	Youths	95.541	1	47.770	64.99**
Β.	Socio-Economic Status of Parents	97.917	2	46.958	66.60**
C.	Religious Affiliation	26.140	Ž	13.070	, 17.78**
D.	Parent's/Quardian's Educational Status	85.110	2	42,555	57.89**
AB	Interaction	11.970	4	2.992	4.07**
AC	Interaction	12.194	. 4	3.048	4.15**
ÂD	Interaction	2.138	4	0.535	0.73
BC	Interaction	6.906	4	1.726	2.35
BD	Interaction,	10.300	4	2,575	3,50**
æ	Interaction	, 929	4	0,232	0.32
	Error	4778.729	6501	0,735	

in design #4.3 as AD interaction, it will not be dealt with here. The details about the remaining two are as follows.

<u>AB interaction</u>: The standing on variable (A) Religiosity of Youths reflects the frequency with which the youth attends religious meetings or services. High frequency meant 'high' Religiosity.

From Table 4.33, all the six simple main effects as well as most of the possible contrasts can be seen as highly significant. On both the variables, SPA had a clear downward trend, that is, as their levels rose from low to high in either case, SPA means fell (Table 4.34). It was observed that  $A_1$  and  $A_2^{\circ}$  alike for each of the three levels of B in their contrasts.

The implication of the trend seems to be that when youngsters strictly uphold an ideal, say in religion, conviction or faith, they tend to strive hard towards that goal and they perceive their actual achievement as low.

The same applies to youngsters from all the SES's of Parents. This is specially evident from the lowest SPA in HH cell, and highest in IL cell.

<u>AC interaction</u>: The variables involved in this interaction , were (A) Religiosity of Youths as described above, and (C) Religious Affiliation, The latter comprised, 1. Catholic, 2. Protestants, and 3. Others: neither RC nor Protestant.

The results from all the six simple main effects, as well as their possible contrasts are presented in Tables 4.35 and 4.36. It was observed that the SPA mean for Catholics was significantly higher than either Protestants or Others, whereas the latter two groups were alike at all the levels of factor A.

 $\sqrt{2}$ 

.,

# RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND B

1

IN	DESIGN	#4	•	5	•

levels	Result	levels	Result	
Λ <sub>i</sub> (B <sub>1</sub> )	**	B <sub>j</sub> (A <sub>1</sub> )	***	
^1 <sup></sup> ^2	N.S.	<sup>B</sup> 1∿ <sup>B</sup> 2	**	
<sup>۸</sup> ـــ <sup>۲</sup> ـ۸	**	<sup>B</sup> 1∿B3	*	
<sup>A</sup> 2 <sup>~~A</sup> 3	** •	<sup>B</sup> 2 <sup>∿B</sup> 3	N.S.	
	\$ <b>`</b> *			: . <b>#</b>
A <sub>1</sub> (B <sub>2</sub> )	<u>~</u> **	B <sub>j</sub> (A <sub>2</sub> )	** -	
<sup>A</sup> 1 <sup>~A</sup> 2	N.S.	<sup>B</sup> 1∿ <sup>B</sup> 2	**	
A1 <sup>~A</sup> 3	**	B <sub>1</sub> ~B <sub>3</sub>	**	
A2~A3	· . **	<sup>B</sup> 2 <sup>∧B</sup> 3	**	• •
•	•	<b>t</b>	A	
л <sub>і</sub> (в <sub>3</sub> )	**	B <sub>j</sub> (A <sub>3</sub> )	. <b>★</b> ★	
<sup>A</sup> 1 <sup>~A</sup> 2	N.S.	<sup>B</sup> l∿ <sup>B</sup> 2	**	
<sup>A</sup> 1 <sup>~A</sup> 3		₽ <sub></sub> ĵ∿B <sub>3</sub>	₩	•
A2~A3	N.S.	B22233		

•		
	•	``
	TABLE 4	. 34

١

•

.

,

٠

**A** 

¢

1740121 4.04								
MEANS AND	SAMP	LE SIZES	FOR DIF	FERENT	COMBINATIONS	OF LEVELS	OF FACTORS	
	n	•		<u>a and</u>	<b>B</b> .		(	
		•	\$ <sup>10</sup> -					
						e	1,	
		• •				$\overline{}$ .	•	

	1	1. Iow 2.	Medium	3. High	Δ
	•	$\hat{\chi} = 3.058$	2.919	2.537	$\bar{X} = 2.676$
1.	Low			•	
		N = 155	235	841	N = 1231
		$\bar{x} = 2.702$	2,582	2.414	$\hat{\mathbf{x}} = 2.476$
2,	Medium		vb		
••		N = 426	584	2574	N = 3584
	· · · ·	$\overline{\mathbf{X}} \neq 2.500$	2,364	2,252	x = 2.448
3.	Hìgh			•	
	•	N = 163	305	1251	N = 1719
<b>1</b>	·	744	1124	4666	= 6534
•		x = 2,731	2.593	2.393	

3

131

**9** 1

· .

ù,

1

4

# ITSULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND C

# IN DESIGN #4.5

•

Levels	Resplts	levels	ION (RELIGIOUS AFFILIATION Results
∧ <sub>i</sub> (C <sub>1</sub> )	, ** <i>1</i> .	<sup>C</sup> k (A <sub>1</sub> )	**
`1 <sup>~A</sup> 2	N.S.	C1~C2	*
1 <sup>~A</sup> 3	**	c <sub>1</sub> c <sub>3</sub>	*
2 <sup>~Å</sup> 3	**	C2~C3	N.S.
		•	•
(C <sub>2</sub> )	**	<sup>C</sup> k (A <sub>2</sub> )	**
1 <sup>~^</sup> 2	** *	° <sub>1</sub> ∿°2	**
1 <sup>~A</sup> 3	**	с <sub>1</sub> "с3	**
2 <sup>~A</sup> 3	**	C <sub>2</sub> ~C <sub>3</sub>	N.S.
,	4		
(C <sub>3</sub> )	<b>• **</b>	С <sub>к</sub> (А <sub>3</sub> )	
1 <sup>2</sup> A2	N.S.	C <sub>1</sub> ∿C <sub>2</sub>	
~A3	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	° <sub>1</sub> ∿c <sub>3</sub>	
∿A <sub>3</sub>		C₂∿C3	N.S.
te: *Probabi	lity of Re.05 bu	6>.01.	
**Probab	lity of Re.05 bu Lity of Fe.01.		

132

A,

MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

53

١.

## A AND C.

.

· · · · · · · · · · · · · · · · · · ·	1. LOW	2. Medium	3: High		<b>∑</b>
•	$\bar{X} = 2.964$	2.876	2.460	x ≠ 2.552	
P 1. Catholic	×,	. •	a A Star		
0 1.Catholic	N 🛪 167	209	1482	'N = 1858	
	<b>x</b> = 2.669	2,508	2.373	$\overline{\mathbf{X}} = 2.424$	
9 9 7 2.Protesta	nts			~ <b>3</b>	
R.	N = 293	571	2317	N = 3181	•
χ.	\ 	· <u>\</u>			
NO LEXANDARY 3, Others	x = 2,658	2.564	2,332	$\bar{X} = 2.448$	
2. 3. Others		· · · · ·	•		
	N = 284	344	867 🏘	N = 1495	
	744	1124	4666	= 6534.	
	2.731	2.593	2.393		

133

Rise in the level of Religiosity of Youths as in the predesign seems to be associated with lower SPA for Catholics and, separately, for Protestants and Others. Occasionally, this low

The result is in line with the findings of Weber (1930), stated that social goals and life expectations are different for Catholics and Protestants. The higher SPA for the former and low for the latter illustrate the discrepancy.

DESIGN # 4.6

11

The four factors in this design were:

A.	(195)	Socio-Economic Status of	Parents.
Β.	(202)	Family Unit.	
C.	(198)	Drug (including Alcohol)	<b>Usage.</b>
D.	(214)	Size of Family.	• • •

Table 4.37 shows that six of the ten null hypotheses rejections.

<u>AB interaction</u>: The variables this interaction were ( Sis of Parents, and (B) Family Unit. Four the five possible main effects gave significant F's (Table 4.38). Of the nine possicontrasts, eight showed significant F's, the only exception being  $A_{2-3}(a_2)$ , that is, between medium and high SES of parents in 'second families.

Taking factor B, one could say that the SPA for the young

TABLE 4, 37

# ANOVA FOR DESIGN #4.6

Source of Variation	Sums of Squares	df	Mean Squar	e F(observed
A. Socio-E <b>Conc</b> mic 5 Status of Parents	104,862	2	52.401	70.65**
B. Family Unit.	15,273	1	15.27	20,58**
C. Drug (including Alcohol)-Usage.	139,753	2	• 69,377	93.48**
D. Size of Family	10,319	1	10.319	13.90**
AB. Interaction	4.784	2	2.392	3,22*
AC. Interaction	6,085	· 4	- 1.521	2.05
ND. Interaction	0.761	2	0,381	0,51
3C. Interaction	3.625	2	1.812	2.44
BD. Interaction	0.338	1	0.338	0.45
D. Interaction	8,835	^_2	4.418	5,95**
Error	4834.241	6514	0.742	
			1	

7

\*

ť

4

(

ſ

135

¢

# RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND B

### IN DESIGN #4.6.

A: SOCIO-ECONOMIC STATUS OF PARENTS B: FAMILY UNIT

\$



counterparts from unseparated ones at each SES level, since such youths experience lower support and scanty motivation for success. This actually turned out to be so for the low and medium SES levels, but not for the high SES (Table 4.39). The exception does seem to have "Some justification since high SES parents, even though separated from their spouses, should be able to provide the needed financial and emotional support and motivation to the youngster for achievement.

The youngsters from the combination of low SES' and 'separated families' reported the highest SPA, probably because they perceive their actual achievement as pre-eminently satisfying in the absence of motivation and financial support. This is further substantiated by the fact that the SPA is the lowest for the youths from the combination of 'unseparated families' and 'high SES'.

The implication is that in terms of economic and socio-psychological support, the youngsters who come from unseparated homes are at an advantage over their counterparts from separated families. This happened in view of the high achievement, ideals, and values which their parents and society expect of them.

<u>CD interaction</u>: On the variable C, Drug (including Alcohol) Usage, the levels indicate the degree to which the youngster is using drugs and/or alcohol. The various types of drugs used and their frequencies were considered <u>low</u>, <u>medium</u> and <u>high</u> as classified in Chapters I and III. Factor D, Size of Family, is Large (with three or more children) and Small (less than three children).

The results (Table 4.40) showed four significant F's out of five,

٤

# MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

A AND B.

	l. Low	2. Medium	_3. High	
	X = 2.937	X = 2.581	2.422	$\vec{X} = 2.639$
1.Separ	rated		··• •	
· ·	N = 159	289	147	N = 595
2 12 22	$\bar{X} = 2.637$	X = 2.466	2.283	x = 2.449
<b>,2.Unse</b> p	arated	•		
• •	N = 1072`	3295	1572	N = 5939
	·			
	N = 1231	3584	1719	<b>=</b> <sup>-</sup> 6534
	x = 2.676	2.476	2.295	
	,			

1

# RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS C AND D

#### IN DESIGN #4.6.

C: DRUG (INCLUDING ALCOHOL) USAGE D: SIZE OF FAMILY



those related to as many possible simple main effects examined. The exception was for families at the medium level of Drug Usage. Seven of the eight contrasts showed significant F's, the only non-significant F being for medium and high Drug Usage by Youths from small Families,  $C_{2-3}(D_1)$ .

()

The trend observable from Table 4.41 was rather inconsistent. For example, in large and small families, as Drug Usage increased, so did SPA. The increase in one case was not significantly large, however. Regarding family size, SPA dropped significantly from large to small families for low Drug Usage, rose significantly for high Drug Usage but did not change for medium Drug Usage.

The highlights for the combinations of the levels of the two factors were:

SPA's were amongst the highest for youths characterized by medium and high Drug Usage and were very low for those with low Drug Usage. This applied to youths coming from large as well as small, families. There was interaction between the two factors, however, because with Drug Usage increasing, SPA increased more rapidly for the youths from large families than those from small ones.

One wonders how and why youngsters start using drugs, The reasons could be varied and complex.

• It is obvious from this study, however, that its heavy usage is associated to high SPA, that is, lowered motivation.

### MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

# CAND D.

DRUG (INCLUDING ALCOHOL) USAGE. C: (198)

	1. Low	2. Medium	3. High	
	x = 2.478	2,985	2.986	x̄ = 2.510
1. >>3childr (Large)	nen N = 3053	137	74	N = 3264
SIZE	λ̂ = 2 <b>.3</b> 78	3,055	3.426	x = 2.421
ຊີ 2. (3child ເລັ (ລmall)	kren N = 3089	127	54	N № 3270
	6142	264	128	₩ 6534
	2.427	3.019	3.172	•

#### DESIGN # 4.7

The four factors in this design were:

A. (193) Type of School Attending.

B. (195) Socio-Economic Status of Parents,

C. (196/197) Parent's/Guardian's Educational Status

D. (214) Size of Family.

Seven of the ten rejected null hypotheses in this design, contained three interactions -- AC, AD, and BC (Table 4.42). Of these, one interaction has already been dealt with (as AD interaction in design 4.3) and therefore, needs no further comments here. The remaining two interactions are examined below. They are AC and AD.

AC interaction: Variable A, Type of School Attending has four types: 1. Public, 2. Private, 3. Parochial and 4. Others. Each of these types probably has its own characteristic philosophical orientation and related objectives to which the youngsters are supposed to be exposed (Dougherty, 1965).

All but one of the seven simple main effects produced significant F's, the exception being Parent's/Guardian's Educational Status within Parochial schools -  $C_k(A_3)$  (Table 4,43). Some highlights of the significant F's from sixteen of the possible twenty-seven contrasts were:

(1) For each level of (C) Parent's/Guardian's Educational Status, the SPA's for Fublic and Private schools were not significantly different.

(2) Significant differences occurred between Public and

## ANOVA FOR DESIGN #4.7

	Source of Variation S	Sums of Squares		lean Squares	
	A. Type of School Attending	134.035	3	44.678	61.09 **
	B. Socio-Economic Status of Parents	94.982	2	47.481	64.93 **
	C. Parents/Guardians Educational Status	84.244	2	42.122	57,60 **
	D. Size of Family	5.859	1	5.859	8.01 **
•	AB Interaction	6.758	6	1.126	1.54
	AB Interaction	26.753	6	4,459	6.10 **
	AD Interaction	10.724	3	3.575	4.89 **
,	BC Interaction ()	7.927	4	1,982	2.71 *
	BDIInteraction	0.341	2 <sup>(</sup> ,	0,171	0,23
	CD Interaction	1.572	2	0.786	1.07
	Error	4754,692	6502	0.731	•
	•		٢	Ċ	4 <sup>1</sup>
		······································	<u>, 2. ун В. ул Жийн Айли</u> ни	· .	

143

.....

A: TYPES OF	SCHOOL ATTENDING	C: PARENT'S	CATIONAL STATU	
levels	Result	levels	Result	
Λ <sub>i</sub> (C <sub>1</sub> )	. **	C <sub>k</sub> (A <sub>1</sub> )	<b>*</b> *	
<sup>A</sup> 1 <sup>A</sup> 2	N.S. *	<sup>C</sup> l <sup>vC</sup> 2	**	) '
^ <u>1</u> ``A3	N.S.	Cl~C3	**	I
^1 <sup>~^</sup> <b>4</b> .	**	<sup>C</sup> 2 <sup>~C</sup> 3	**	
2 <sup>~~</sup> ~3	N.S.			<b>•</b>
<sup>\</sup> 2 <sup>\A</sup> 4	**	C <sub>k</sub> (A <sub>2</sub> )	**	,
<sup>A</sup> 3 <sup>~A</sup> 4	N.S.	C1 ~ C2	**	
*	•	C1~C3	**	<b>E</b>
		C2vC3	*	а •
(C <sub>2</sub> )	**			
ין <sup>^A</sup> 2	N.S.	C <sub>k</sub> (A <sub>3</sub> )	N.S.	
`1` <sup>^.</sup> ^3	**	•		
`1´ <sup>`L</sup> <b>A</b> 4	**	C <sub>k</sub> (A <sub>4</sub> )	*	
20.03	N.S.	C1 VC2	N.S.	
2 <sup>~A</sup> 4	/ <b>**</b>	C1~C3	N.S.	•
3 <sup>A</sup> 4	N.S.	C2~C3	*	

# RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND C

١

continued on next page ...

Table 4.43 continuted....



Parochial Schools at medium and high levels of Parent's/Guardian's Educational Status but not at the low level.

Two patterns of trend were observed (Table 4.44). One was rise in SPA means as one goes from Public or Private Schools to Parochial and to 'Other' schools. The other was drop in SPA means from low to high Parent's/Guardian's Educational Status in the case of Public and Private schools, no change in Parochial Schools and inconsistent change for 'Other'. Figure 4.6 illustrates the trend.

The comparatively highest SPA means in 'Other' schools, that is, Vocational/Technical and Trades, are probably because the youngsters feel satisfied when they perceive their daily achievements in relation ' to their chosen life career. The drop in SPA for 'Other' at medium SES is, however, inexplicable.

The lowest SPA means for 'Public' - 'high', and 'Private' - 'high', combinations were expected since highly educated parents/guardians tend to pressure their youngsters to achieve well. In the three types of non-vocational schools compared, Parochial school youngsters reported higher SPA means than in the other two, thus indicating the feeling of more satisfaction they have in actual achievement than those in other schools.

AD interaction: The two variables were (A) Type of School attending and (D) Size of Family. The results of the simple main effects showed three Significant F's (Table 4.45) out of six. The three non-significant ones related to sizes of family within all schools but Public.

The trend in variable (A) showed rising SPA means from public

MEANS AND SAMPLE SIZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

# A AND C.

·	, .	1.Pt	ublic	2.Pr	ivate	3.Parochia	1 4.0thers	•
		<b>x</b> =	2.675	<b>x</b> = ;	2.693	2.835	3.226	x̄ =+2.708
1.	LOW				•	`	<b>x</b>	
	u	N =	970	N =	434	79	53	N = 1536
. <del></del>								
		<b>X</b> =	2.408		2.481	2.699	3.042	$\bar{X} = 2,456$
2.	Medium		•	ı		• 2		
1		N =	2018		851	133	72	N.= 3074
	، 		<	7	•••••••		· · · · · · · · · · · · · · · · · · ·	
	*	x ≓j	2.228	2	2.314	2.514	3.879	x = 2.289
3.	High	•				•	•	
		N 🚔	1427		353	111	33	N = 1924
	•		•		2 2			. 1
• •	•	N =	4415	,	1638	<sup>1</sup> '323	158	= 6534
ut j	1.	x =	2,409	2	2.501	2.669	.3.278	in a star in the second se



1999년 1999년 1999년 1991년 199 1991년 1991

en de Leneral II Merch Robert Aller



r

to -- Others for both small and large families. When one takes factor D, however, SPA is lower for youths from small families in public schools only, there being no difference for other types of schools. (Table 4.46). The combination of 'small' family and 'Public Schools' showed the lowest SPA, indicating how those youngsters are associated with parental and school pressure to achieve. Ouriously enough, SPA is the highest for the combination of 'small family' and 'Other schools', probably indicating how well satisfied such youngsters are in trade schools.

DESIGN # 4.8.

● 1 ×

The four factors in this design were:

- A. (190) Beligiosity of Youths.
- B. (193) Type of School Attending.
- C. (198) Drug (including Alcohol) Usage, called Drug Usage for the sake of brevity.

D. (DENOMINATION) or Religious Affiliation.

Among the eight of the ten null hypotheses rejected were four interactions - AB, AC, BC and CD (Table 4.47).

AB interaction: The variables involved here were (A) Religiosity of Youths and (B) Type of School Attending.

The seven significant F's out of the sight possible simple main effects, and the ten significant F's out of twenty-seven contrasts tested are presented in Table 4.48. The only simple main offert which

1

# MEANS AND SAMPLE STZES FOR DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

#### A NO D.

•

	1.Public	2.Private	3.Parochia	14.0thers	
	x = 2.460	X = 2.521	2.714	3.082	x = 2.510
1, 3child	Iren				
	N = 1930	N = 1064	185	, 85	N = 3264
(Large)	) -			*	
	x̄ = 2.369	2.465	2,609	3,507	x = 2.421
2. <3child	tren		·		
	N = 2485	574	138	73	N = 3270
(Small)				*	
	N = 4415	1638	323	ີ 158	- 6534
	x = 2.409	2.501	2.669	x−3.278	

r

MOVA FOR DESIGN # 4.8

			·····		
50x	urce of Variation	Sums of Square	s df	Mean Squares	F (observed
۸,	Religiosity of Youths	95,540	2	47.770	65,14**
н.	Type of School Attending	120.216	3	40.072	54.64**
с,	Drug (including Alcohol) Usag <b>a</b>	69.730	2	34,965	47.54**
D,	Religious Affiliation	13.718	2	6.857	9.35**
NH	Interaction	12.917	6	2.153	# 2.94**
AC.	Interaction	, 9.915	4	2.479	3,38**
<b>V</b> D	Interaction	3,753	4	0.938	1.28
3C	Intéraction	9.925	6	1.654	2.26*
3D	Interaction	3,395	6	0.566	0.77
Ð	Interaction	26.268	4	6.567	8,95**
	Error	4762.479	6494	0,733	<b>'</b> .

r

152

.\*

.

HESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS A AND

B IN DESIGN #4.8.

•

A: RELIGIOSITY OF YOUTHS

B: TYPE OF SCHOOL ATTENDING

Level	Result	• Level	Result	
Λ <sub>i</sub> (h <sub>1</sub> )	**	B <sub>j</sub> ·(A <sub>1</sub> )	**	
۸ <sub>1</sub> <sup>.,</sup> ۸ <sub>2</sub>	*	<sup>B</sup> 1∿B2	N.S.	
^ <u>1,77</u> 3	<u></u> ★★	B1 vB3	N.S.	
^2 <sup></sup> ^3	**	B <sub>1</sub> ∿B <sub>4</sub>	<b>*</b> **	
, -		B2~B3	N.S.	•
л <sub>і</sub> (В <sub>2</sub> )	**	<sup>B</sup> 2∿B4	**	
^ <u>1</u> ^.^2	N.S.	B <sub>3</sub> ∿B <sub>4</sub>	** 、	
^ <u>1</u> <sup>∿A</sup> 3 ♦	** *			
A212A3	**	<sup>B</sup> j (A <sub>2</sub> )	• **	
		B <sub>1</sub> ~B <sub>2</sub>	, ★★	
∿ <sub>i</sub> (B <sub>3</sub> )	**	<sup>B</sup> 1∕~B3	**	
^1 <sup>A</sup> 2	N.S. 🔪	B <sub>1</sub> ∿B <sub>4</sub>	**	
`1` <sup>.A</sup> 3	N.S.	B2~B3	N.S.	
2" <sup>1</sup> /3	**	B <sub>2</sub> ∼B <sub>4</sub>	**	
	7	B <sub>3</sub> ∼B <sub>4</sub>	N.S.	
(B <sub>4</sub> )	N.S	B <sub>1</sub> (A <sub>3</sub> )		· ,
		B <sub>1</sub> ∿B <sub>2</sub>	N.S.	
•••	•	Bl∿B3	<b>*</b> **	
<b>4</b> *	• . • •	Bl~B	**	
ote: *Probat	oility of	B2~B3	N.S.	•
**Probab	out>.01.	B2~B4	**	и ¥.
F4.01.		B3VBA	**	

gave a non-significant F was for Religiosity of Youths in 'Other' schools -  $A_i(B_4)$ . Significant F's were observed for all the contrasts on Religiosity in Public Schools. For Private and Parochial schools however, it was not always so. For instance, for Religiosity of Youths, no significant F's occurred for differences between 'Private' and 'Other' schools,  $A_1(B_{2-3})$ ,  $A_2(B_{2-3})$  and  $A_3(B_{2-3})$ , respectively, meaning thereby, that the SPAs for these two types of schools were not different at any level of Religiosity.

Considering variable A (Religiosity of Youths), as its level increased, SPA means dropped for Public  $\mu$  Private and Other schools; but the pattern for Parochial schools showed a rise from low to medium, and a drop from medium to high Religiosity (Table 4.49). Where the SPA means dropped in this factor, it indicates more dedication to a purpose including achievement-striving, hence the lower SPA's in most schools.

As far as the type of schools are concerned, as one goes from 'Public' to 'Other' schools, SPA seems to increase for 'medium' and high' levels of religiosity, but for level 'low', there is a slight drop in the SPA for 'Parochial' schools. This drop is nonsignificant, however.

The High Religionity-Public', combination (Table 4.49) has the lowest SPA and the next to it in size is for High Religiosity-Private'. It appears that 'high' level of Religiosity' may be reflecting the dedication of youths toward achievement-striving in both Public and Private schools. The highest SPA is for 'Low Religiosity-Other' school ٠.,

1

.

<u>-</u>.

,

#### A AND B.

A: (190) RELIGIOSITY OF YOUTHS

	n 1 saage taagent oo gogengen in 1990 a	······································		ang di generali in Theorie agenerican	
· .		<sup>™</sup> %-2.731	2.593	2,393	
,		744	1124	4666	= 6534
		N = 41	52	65	N = 158
·	4. Others	⅔=3,683	3,288	3.015	र्मे न 3.278
B. (193)		N ≈ 35.	54	Ž34	N = 323
TYPE OF	3.Parochial	ً\$=2.743	3.093	2,560	<b>X</b> = 2.669
	2.Private	N = 151	186	1301	N = 1638
SCHOOL ATTENDENG.		፻≈2.848	2,763	2.424	X = 2.501
ц С		N = 517 '	832	3066	N = 4415
	1.Public	<b>X=2.621</b>	2.480	2,354	<b>X = 2.409</b> •
··	· · · · · · · · · · · · · · · · · · ·	1. Low	2.Medium	3.High	

۱

V.

cell which is the reverse religiosity. No explanation seems available for the highest SPA in the 'Medium Religiosity Parochial' cell as compared to other levels of Religiosity for such schools.

AC interaction: The variables were: (A) Religiosity of Youths, and (C) Drug Usage.

Five significant F's were observed among the six possible simple main effects. Also, eleven significant F's occurred among the fifteen contrasts examined (Table 4.50). The highlights observed in the simple main effects and contrasts are:

- (1) the non-significant F in Religiosity of Youth. in the 'medium' Drug Usage, i.e.  $A_i(C_2)$  simple main effect.
- (2) the non-significant F's between 'medium' and high Drug Usage in 'medium' and high' Religosity -  $C_{2-3}(A_2)$ , and  $C_{2-3}(A_3)$ , respectively.

This indicates that the SPA does not change for these two extreme levels for either factor. In practical terms, 'medium' and 'high' Drug Usage and also 'medium' and 'high' Religiosity of Youths here can be treated alike. Since the distinction in this case between 'medium' and 'high' on either factor is meaningless (giving all four non-significant F's)' (Table 4.51). (Mitting it, one can see two clear trends whereby SPA seems to decrease on factor A for each level of Drug Usage, thus indicating its association with dedication for a purpose, in this case, achievement-striving.

The lack of significant F's between 'medium' and high Drug Usage at the 'medium' and thigh' levels (but not 'low) of Religiosity, is noteworthy. It implies that when once drugs and alcohol have been

	CINI	ESIGN #4.8.		
A: RELIGIOSI	TY OF YOUTHS.	C:DRUG (INCLUD	ING ALCOHOL) U	SAGE,
Ievel	Result	Level	Result	
A	······································			,
A <sub>i</sub> (C <sub>1</sub> )	**	C <sub>k</sub> (A <sub>1</sub> )	** .	
A <sub>1</sub> A <sub>2</sub>	N.S.	C1 ~ C2	/ **	
A1"-A3	**	C1 <sup>\vC</sup> 3	**	١
A21.A3	** `	°C2 <sup>~C</sup> 3	**	
A <sub>i</sub> (C <sub>2</sub> ).	N.S.	C <sub>k</sub> (A <sub>2</sub> )	**	
		C <sub>1</sub> <sup>~C</sup> 2	**	
A <sub>i</sub> (C <sub>3</sub> )	* '	C <sub>1</sub> ~C <sub>3</sub>	*	
^ <sub>1<sup>~</sup>~2</sub>	*	C2∿C3	N.S.	,
^1 <sup>~A</sup> 3	*			
A2'~A3	N.S.	C <sub>k</sub> (A <sub>3</sub> )	<b>**</b>	
		°₁∿°₂ м	**	
	· · · ·	с <sub>1</sub> ∿с <sub>3</sub>	* **	
$\sim$	14	C2~C3-	N.S.	•
, , , , , , , , , , , , , , , , , , ,		<b>*</b> ,		· · · · · · · · · · · · · · · · · · ·
Note: *Prob	bility of Fs.05 bility of Fs.01.	but>.01.		•

TABLE 4.50

# MEANS AND SAMPLE SIZES OF DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

### A AND C.

·		A: (190)	ELIGIOSITY	OF YOUTHS.	
12		1. I.cw	2. Medium	3.High	A
	r .	<b>X=</b> 2.638	2.540	2.373	x = 2.427
IL) USAGE.	1.Low	N = 621	1012	4509	N = 6142
ALCOHO		і № 3.012	3.139	2.944	$\vec{X} = 3.019$
DRUG (INCLUDING ALCOHOL) USAGE.	2.Medium	N = 85	, 72	107	N = 264
DRUC.	1	· X=3.632	. 2.975	2.980	$\overline{\mathbf{x}} = 3.172$
C: (198)	3.High	N ≈ 38	40	50	N <b>≈ 128</b>
1		N = 744	1124	4666	<b>= 6534</b>
ļ	1	<b>X-2.</b> 731	2,593	2.393	

used by youngsters at the 'medium' level it could be as grave as using' at 'high' level. The attention of teachers and parents should be drawn to this phenomenon.

The L-H combination (Low Religiosity ~ High Drug`Usage) suggests lack of dedication on one hand and living in a world of unreality and fantasy on the other.

The highest SPA mean for this combination was, therefore, anticipated. On the other hand, the H-L or the reverse combination is associated with high dedication, without drugs blurring the youngster's perception of actual achievement. For it, the lowest SPA mean was expected. The data actually satisfied both the expectations.

<u>BC interaction</u>: The variables involved here were (B) Type ) of School Attending, and (C) Drug Usage. Table 4.52, shows that there were four significant F's among the six possible simple main effects and eleven significant F's for the twenty-one contrasts examined. Two interesting non-significant F's emerged. They were

- (i) for 'medium' Drug Usage in all types of schools  $B_1(C_2)$  and
- (11) for all levels of Drug Usage for Parochial schools

 $-C_{k}(B_{3})$ .

Increase in SPA means was observed as one goes from Public to Private, etc. schools, particularly, in the low level of 'Drug Usage'. It seems that SPA's are not different for any type of school when Drug Usage is 'medium or 'high',  $(C_2-C_3)$  nonsignificance at  $B_1$ ,  $B_2$ , and  $B_3$  and  $B_4$ . For all partical purposes, therefore, medium-high distinction on Drug Usage can be ignored and the factor C treated as if it had only two levels. For each type of

TABLE 4	۱.	52
---------	----	----

RESULTS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS-FACTORS B AND C

# IN DESIGN #4.8.

Level	Result	Level	Result	
в <sub>ј</sub> (С <sub>1</sub> )	**	с <sub>к</sub> (в <sub>1</sub> )	**	· · ·
<sup>B</sup> 1 <sup>∿B</sup> 2	**	C <sub>1</sub> ~C <sub>2</sub>	* **	
B <sub>1</sub> B <sub>3</sub>	**	<sup>C</sup> l <sup>vC</sup> 3 <sup>′</sup>	**	
<sup>B</sup> 1 <sup>∿B</sup> 4	** ,	<sup>C</sup> 2 <sup>∿C</sup> 3	N.S.	
<sup>B</sup> 2 <sup>™B</sup> 3	N.S.	·		
<sup>B</sup> 2 <sup>\\\B</sup> 4	** '	C <sub>k</sub> (B <sub>2</sub> )	**	
B3 <sup>1</sup> B4	**	$C_1 \sim C_2$	**.	a
54	2.4 4	<sup>с</sup> 1~с <sup>3</sup>	N.S.	
B <sub>j</sub> (C <sub>2</sub> )	N.S.	CZ~C3	N.S.	•
в <sub>ј</sub> (С <sub>3</sub> )	ения 1997 г. н. •	с <sub>к</sub> (В <sub>3</sub> )	N.S.	<b>n</b> .
<sup>B</sup> 1 <sup>∿B</sup> 2 <sup>∪</sup>	N.S.		, te	t
<sup>B</sup> 1′∽ <sup>B</sup> 3	N.S	с <sub>к</sub> (В <sub>4</sub> )	<b>★</b>	
<sup>B</sup> 1 <sup>∿B</sup> 4	*	Ċ <sub>l</sub> ∿Ċ <sup>5</sup>	N.S.	
<sup>B</sup> 2 <sup>∿B</sup> 3	N.S.	°C <sub>1</sub> ∿C <sub>3</sub>	n - 1. ★ 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	•
B <sub>2</sub> ∿B <sub>4</sub>	*	C₂∿C₃	N.S.	•
B <sub>3</sub> ∿B <sub>4</sub>	N.S.			s .

Note: \*Probability of Fs.05 but>.01. \*\*Probability of Fs.01. school, SPA increased with these two 'effective' levels of Drug Usage implying that the youngster feels a false sense of satisfaction if he is given to Drug Usage (Table 4.53).

Here again, highest SPA occurs for 'Other') schools when Drug Usage also is high. This is so probably because the youngsters, in addition to feeling satisfied with their actual achievement in a trade school, also live in a 'peripatetic' world of their own if they are high in Drug Usage. (Boyd, 1970; Falstein, 1953; and MacKay, 1965).

<u>CD interaction</u>: The variables were (C) Drug (including Alcohol) Usage, and (D) Denomination - Religious Affiliation.

Five of the six simple main effects showed significant F's. Eleven significant F's were observed among fifteen contrasts examined (Table 4.54). In both Catholic' and Protestant of filiations, significant F's occurred between the low and high levels of Drug Usage.

In Table 4.55, increase in Drug Usage was associated with rise in SPA means in all religious deconominations. The highest SPA means were observed in

(i) Catholic youngsters with 'high' Drug Usage, and

(ii) Protestant's with 'medium' Drug Usage.

It was also observed that Catholic youngsters differed significantly in SPA from any other Religious Denomination at the low level of Drug Usage,  $D_{1-2}, D_{1-3}(C_1)$ . In high Drug Usage, none of the denominations showed any significant differences in SPA,  $D_m(C_3)$ .


# TNBLE 4.54 🏲

<u>۱</u>

.

HESULITS OF ANALYSIS OF SIMPLE MAIN EFFECTS OF LEVELS OF FACTORS C AND D .

# IN DESIGN #4.8.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	level	Result	I.evel	Result		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	(D <sub>1</sub> )	**	D <sub>m</sub> (C <sub>1</sub> )	**	——— <u>—</u> ————————————————————————————————	-
$C_2 \vee C_3$ N.S. $D_2 \vee D_3$ N.S. $C_k (D_2)$ ** $D_m (C_2)$ ** $C_1 \wedge C_2$ ** $D_1 \wedge D_2$ * $C_1 \wedge C_3$ ** $D_1 \wedge D_3$ N.S. $C_2 \vee C_3$ N.S. $D_2 \wedge D_3$ *	C1 C2	**				
$C_{k} (D_{2})$ ** $D_{m} (C_{2})$ ** $C_{1} C_{2}$ ** $D_{1} C_{2}$ * $C_{1} C_{3}$ ** $D_{1} C_{3}$ N.S. $C_{2} C_{3}$ N.S. $D_{2} C_{3}$ * $L_{k} (D_{3})$ ** $D_{m} (C_{3})$ N.S. $D_{m} (C_{3})$ N.S.	° <sup>1°</sup> C3	** **	D <sub>1</sub> ^D <sub>3</sub>	**	•	
$C_{1}^{\wedge}C_{2}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C$	C24C3	N.S.	D <sub>2</sub> D <sub>3</sub>	N.S.	•	
$C_{1}^{\wedge}C_{2}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}$ $C_{1}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C_{3}^{\wedge}C$	. •					<b>.</b>
$C_1 C_3$ ** $D_1 C_3$ N.S. $C_2 C_3$ N.S. $D_2 C_3$ * $C_1 C_3$ N.S. $C_1 C_2$ ** N.S. $C_1 C_2$ **	$C_k$ (D <sub>2</sub> )	**	D <sub>m</sub> (C <sub>2</sub> )	**		
$D_2 \sim D_3$ $T_k (D_3)$ $T_1 \sim C_3$ $T_1 \sim C_3$	ີ <b>1</b> <sup>1</sup> ເ <b>ດ</b>	** •		*	•	•
$r_{\rm K}$ (D <sub>3</sub> ) ** $p_{\rm m}$ (c <sub>3</sub> ) N.S. $r_1^{12}$ ** $r_2^{12}$ **	21'C3	• **	D <sub>1</sub> (D <sub>3</sub>	N.S.		
$r_{\rm K}$ (D <sub>3</sub> ) ** $p_{\rm m}$ (c <sub>3</sub> ) N.S. $r_1^{12}$ ** $r_2^{12}$ **	2 <sup>1</sup> C3	N.S.	D <sub>2</sub> ∿D <sub>3</sub>	*		
<sup>-1</sup> <sup>-C</sup> <sup>2</sup> <sup>** '</sup>	•					
-1°-2 ** ' -1°-2 ** '	k (D <sub>3</sub> )			N.S.		
'n°°3	<b>1</b> <sup>1</sup> <b>2</b>	** *	•	1 .	and the	۰.
		12 · ·	•	•	· ·	
			• •		-4	•
	· · · · · · · · · · · · · · · · · · ·			• <u>,</u>	• • •	

163

•

## MEANS AND SAMPLE SIZES OF DIFFERENT COMBINATIONS OF LEVELS OF FACTORS

# C AND D.

			ALCOHOL) US7	V. <b>F.</b> .
	1.LOw	2. Medium	3.High	
•	<b>X=</b> 2.523	2.880	3.320	X = 2.552
1.Catholics		,		
•	N =1741	92	25	N = 1858
	<sup>)</sup>	3.302	3.097	x - 2.424
2. Protestant	3			
2. Protestant	N =3013	106	<b>′62</b>	N - 3181
<b>`</b>	1			, 
	x-2.411	2.758	3.195	X = 2.448
3.Others		. • • •	<b>;</b>	
	N =1388	66	. 41	N = 1495
and the second secon		•		
A Marine Marine	6142	264	128	- 6534
	17-2.427	3.019	3.172	
		10 10 10 10 10 10 10 10 10 10 10 10 10 1		<u></u>
	, , <b>4</b> , 1, <b>1</b> , <b>1</b> ,	• <sup>16</sup> 2 ∳		
•	: <b>•</b>		• • •,	* *
	· · · · ·	<b>/</b>	±	

 $\boldsymbol{u}_{i}^{\prime}$ 

1 \*

ł

This result in general suggests how a type of Religious Affiliation has some bearing upon the youngsters' SPA and to Drug Usage. The lowest SPA mean observed among Protestants with 'low' Drug Usage indicates how the parents' achievement-orientation reflects on the youngsters' and hence the expected result, that is 'low' Self-Perceived Achievement (SPA) mean.

#### PEARSON PRODUCT . MOMENT CORRELATIONS: AN ANCILLIARY ANALYSIS.

As Additional analysis, Pearson product moment correlations (r's) were calculated between the 'criterion' (SPA) and each of the 28 'independent' variables.

The results (Table 4.56) are presented after arranging the r's from high positive to high negative. The main purpose of this was essentially to satisfy curiosity and to see at a glance the magnitude of the correlation of each variable with SPA.

Examining the correlations for statistical significance when the sample size is as Targe as 6534 is meaningless ince even a very small r (that is one giving less than one-percent overlap between the two variables concerned) turns out to be significant (Best, 1970). It was also observed that the highest r gave only sixteen-percent and the lowest, less than one-percent overlap.

1.1

<u>ر ک</u>

۱

		PERCEIVED ACHIEVEMENT (SPA).		
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	-
Order			•	
of				
agnitude	Variable	merpretation	Correlation	
• <del>• • • • • • • • • • • • • • • • • • </del>	· · · · · · · · · · · · · · · · · · ·		with SPA	<sup>1</sup>
n Ľ	6	Academic Problems	0.391**	
2	22	#198-Drug (incl. Alcoh.) Usage	0.168**	K.
-3	. 3	Family Pressure	0.157**	
4	• 2	Parental Understanding	0,151**	
5	20	#193-Type of School Attending	0.142**	•
6	1	Family Unity	0.064**	<b>,</b> ·
7	28	#202-Family Unit	0.061**	
8	<u>11</u> ·	National Issues	0.040**	
9	 _5_∡	Lack of Self-Confidence	0.032*	
10	8	Classroom Relationship	0.028* 1	
11	25	Age	0,007	• • •
12	7	Selfingard	0.005	
13	4	Life Partner	0.0007 ^~	
14	9	Orientation for Change	-0.0005	
15 🦾	17	Adult Caring	-0.030* •	
16	23	DENOM, - Rel. Affiliation of Youth	-0.045**	
17	27	#214-Size of Family	-0.050**``	•
18	' 16	Youth Group Vitality	-0.052**	• .
19	14	Maturity of Values	-0.080**	
20	10'	Personal Faults	-0.087**	•
21	18	Family Social Concerns	-0.095**	•
22	24	Sex	-0.109**	• .
23	19 🕈	#190-Raligiosity of Youths	-0.136**	·
24	21	195-Socio-Econ. Status of Parents	-0.143**	
25	12	Moral Responsibility	-0.160**	
26	13	Meaningful Life	-0.161**	<b>5</b>
.27	26	#196/197-Parenth/Quard's. Ed. Status		, <b>, ,</b> ,
-28 🐨	15	Ruman Relations	-0,255**	٠
•	e	•	i •	• •

\*Probability of re.01.

÷.

166

TOBLE 4.57

·· **`**.,

THERE ORDER ANTIONS AND WE AND THE 28 VARIABILES

	ω	¥	800	20	37	8	8	63	Ş	ò	8	60	05	ģ	ő	ő	Ģ	Ş	01	80	10	05	<b>4</b>	08	ß	8	8	8	8
	5	1.	38			_	_				-														<b>.</b>			-	1
	27			•		•		•	•	•	-						•			•	•	•		•				0	
	26							-				24	- A.	•				-	•		•	-		-			Ŷ		
	25		38		2												•	•	•	•	-					Ý			
	24	Ī	10	Å	0 0	1 18	3 21	ĥ	7-12	0	5	4	ö	2 2]	9 2	ы В С	4	В е	8	8 7 7	θ 9 9	50-6	9	50	8				
	53	1	38																	•	•	•		8	<i></i>				
	53	1	94					``				_			•		-			•			7		<b>N</b> .1				
	R		18	-	-	-	-	•		-								•				n T							
•	20	F	38	60	08	5	8	02	ဗ	8	8	8	H	10	ដ	9	ş	ង	-16	9	7 7							•	
	ศ	11-	i P	ဗ	ដ	02	8	Б.	Ś	8	64	ដ	កុ	56	Д	60	05	91	1	4									
}	18		-72	-24	-25	ဗို	ş	Ŕ	ဗိ	ဖို	ရိ	8	កុ	<b>Å</b> ,	18	21	10	20	29										
	1,	6	កុ	-16	17	ġ	ģ	q	ဖို	ğ	Ħ	2	-24	5	4	Я	<u>ප</u>	Я											
í I	16	1 -	8											'															
)   -	์. เม		نې ۲	· .				-			÷.,					•	ł												•
			- 53 -	•		•	•	1		•	•												•						g.
	3 14	1.			•	-	-	•	•	-	•		•		•••	,				,					•				omitted
•	ង		1 1 1 1 1 1 1 1									_	-		• '					•	•							•	are
	1		б Ю	•	•			•					7	1	•	•	À.												ନ ଜ
	7		8								•	9			,					•			σ						-Ч В
•	8	<b>F</b>	<b>7</b>								Ö				•	•			^										ц Ц
	5 0		87	A	8	ส	ង	3	<b>ה</b>	ମ		•	•				•	•	, 1					•	•	1		٠	before
	7 8		4						8						•	•			<b>Å</b> .										
	9	90	8	3		•		¥.			'	יי ג זי	<u>.</u>		·						•	. jr		•		•			decimals
,	in.	60		2		• •	ста , ,	•	•		• .		, •					3		۰.	•		• •	•		•			dec
1	-	80		5				•	,	·			•	•				ı					ı			•		•	11 11 11
	' m'	P	8	R	•		- <b>**</b>	•				•				• <b>•</b>	,					. •		•			٠	, ,	
	- (N) 	F	2		)			•	•	•	•				•		, <b>4</b>				÷ •		٩.		•				
		P			<u></u>	Ť.	ر ب •	' 'y	,	,			ŧ			•			÷	•	• • •	Ŧ			*	11 J	• •	_	·
•		<b>.</b> 3	s, es #_;	·		• 	Ŧ			,		, "	• • •			н 3 <b>ж</b> а		т. •	•	•		•	- 1	•	•	, , , ,	, 1 .+	, , ,	· ·
. {		KA A	<b>,</b>		n Ma (	e 17. j	<b>n</b> 1	e r	- 4	<b>R</b> 4	ה י	3	12	1		5 ¥	1 ¥	9 <u>c</u>		3 2	18		21	15	12	с У.	) ¥	21	2
		जन्म इ.स.	្លែំ។ ប្រ		- 1	: 	С. • Т. <b>к</b>		7-1.  		<u>ر</u> ۱.		<u>،</u> (	4		·* *		: <b>∀ ₽</b> °	ज <b>हडू</b> जुल	लाही केक्		8, 88, 9  	1 <b>1</b> 1 1 1 1 1 1 1 1	जन है।	<b>.</b>	97 197 111 111	≠ 41 18.0	- 73 	

\*

The decimals before the r's are omitted.

#### CHAPTER V

#### SUMMARY, FINDINGS, IMPLICATIONS AND SUGGESTIONS

#### SUMMARY

The research reported here examined Self-Perceived Achievement (SPA) of high school students in the context of twenty-eight non-

SPA means here the qualitative self-evaluation by the subject himself, how, in his own view, he feels he is doing in his academic work. It thus implies the result of the youngster's feelings, emotions and other characteristics which hermay possibly use in the process of perceiving his academic achievement.

Support for this assumption about SPA came from a pilot study conducted in Edmonton (Canada), the details of which are given in Appendix A. Empirically speaking, SPA was the subject's answer to Question #189 in the Youth Research Survey (Strommen and Oupta, 1971), which runs thus:

Which of the following best describes the kind of grades or marks you get at school?

- A. Excellent guades
- B. Nove Average grades (
- D. Below Average grades
- E. Very low grades.

For the purpose of analysis, the above responses were translated to the

numbers given at the right within parentheses.

.

١

•

٠

The twenty-eight variables in question were selected from Youth Research Centre Survey. They are: .

.

,

Variable #	YRC Scale #	Categories and Scales	No. of Items
	·		· · · · · · · · · · · · · · · · · · ·
		I. FAMILY AND INTERACTIONAL MODES	
	•	· · · · ·	,
1.	1	Family Unity	10 <sup>.</sup>
2 4	2	Parental Understanding	<b>9</b> . 1
3	3	Family Pressures	<b>~</b> 7
18	24	Family Social Concerns	، وار
		II. SELF ESTEEM OR SELF REGARD	•
<u>}</u>	•		· .
5	5	lack of Self-Confidence	8
7	7	Personal Faults	12
10	12	Maturity of Values	. 7
12	14	Moral Responsibility	10
14	18	Self Regard	13
16	22	Youth Group Vitality	10
17 '	23	Adult Caring	, <b>11</b>
	ь.,	III; WITHIN SCHOOL PROBLEMS	
6 2	6	Academic Problems	9
8	8	Classroom Relationship	15
	:	IV. SELF AND SOCIAL INTERACTION	•
	۸.	Life Partner	. 17
	7 9	National Issues	11
71	13	Orientation for Change	• 11
*† 12	15	Maningful, Life	17
15	·19	Human Relations	* * 12
, <b></b> ,	12	ATTAINAL IN THE CLUCK IS	14
•	•		
	٣		and the second
	÷		
	·		**

Variable #	Socio-Biographical Variables	Survey Item.,#	٢
19	(1) Sex: 1, Male 2, Female	Personal Data	
20	(ii) Age: 15, 16, 17, 18 years	Personal Data	
21	(iii) Socio-Economic Status of Parents - 1. Low, 2. Medium, 3. High.	195	
22	(iv) Religiosity of Youths: 1. Low, 2. Medium, 3. High	190	の単 - 11 - 11
23	(v) Religious Affiliation of Youths:1.Cathol 2.Protestant, & 3. Others.	ic Personal Data	
24	(vi) Parent's/Guardian's Educational Status: 1. Low, 2. Medium, 3. High.	196 & 197	
25	(vii) Drug(including Alcohol) Usage: 1, Low, 2. Medium, 3. High.	•	
26 🌒	(viii) Family Unit: 1. Separated Parents 2. Unseparated	202	•
27	(ix) Type of School Actending: 1. Public; 2. Private, 3. Parochial, 4. Others.	193	
28	(x) Size of Family: 1. Large 2. Small	214	

The scores obtained from the responses to the first <u>eighteen</u> <u>variables</u> (or scales), were transformed to T-scores (mean = 50, standard deviation = 10). T-scores of 56 and over were called high, those from 46 to 55 inclusive 'Medium' and the rest 'low'. The ten <u>socio-biographical variables</u> were classified as already given above. The sample came from the population of high school students in 1969/70 in the USA. It contained 6,534 students largely "collected from religiously sponsored Yout" Clubs and organizations and gone from hon-mediarian clubs.

The sample was procured by using multi-stage-proportionaterandom sampling technique.

Twelve factorial designs, each of which contained two, three, or four factors were used. The data were examined through Analysis of Variance (ANOVA). The analyses ignored higher order interactions and limited themselves to the first order interactions, simple and overall main effects. Contrasts were examined where necessary.

Pearson roduct oment correlations were also calculated between SPA and each of the twenty-eight variables as a matter of curiosity.

The steps in the analytical procedure are given in the Flow Chart (Figure 4.1). The following salient points are worth reiterating:

(i) All possible first order interactions were examined first.
(ii) The factor did not occur in an interaction, the result related to its overall main effect was looked at. Scheffe's contrasts were used to compare any two possible levels in the factor.

(111) If a factor participated in a significant interaction, its simple main effects were examined for all its levels, taking each level of the second or interacting factor, and vice versa.

Whenever the F for a simple main effect was significant, Scheffe's contrasts were examined, provided the factor had more than

two levels.

The data were analyzed, using IBM 360/67 at the University of Alberta.

## FINDINGS AND THEIR IMPLICATIONS.

The main findings of the study are given below, generally with a brief mention of explanation and likely implications. For this purpose, each design is taken separately.

## 1. Design #2.1.

 $\infty$ 11.

A (6) Academic Problems B (8) Classroom Relationship AB interaction was significant. The cross-tabulation of SPA means for the various levels of the two factors showed that as the levels of (A) Academic Problems rose, SPA also increased. The reverse was true about (B) Classroom Relationship, however (Table 4.3 The lowest SPA was found for the combination flow Academic Problems and high Classroom Relationship, Similarly, the highest SPA was seen for 'high' Academic with 'low' Classroom Relationship

reported SPA is low,

#### 2. Design #2.2.

A. (13) Meaningful Life B. (15) Human Relations

There was no interaction. Both of the factors gave significant overall main effects.

A. <u>Meaningful Life</u>: At the low level of this factor, SPA was the highest and it decreased as the level of the former rose (Table 4.5). It indicates that when the subject has low score on Meaningful Life (indicating self-centredness), it evokes some contrasting life style which is not conducive to a feeling of achievement-striving and, hence, the high SPA. The lowest SPA, found in 'high' Meaningful Life, is true of the opposite indications.

B. Human Relations: A similar trend (SPA dropping with increase in level of the factor) was also observed for (B) Human Relations (Table 4.5). It seems that when youths are low on Human Relations, they tend to report high SPA, giving some evidence of their incapability to perceive their actual achievement realistically. Similarly, when youths are high on human relations, they seem to be committed to the principle of equality of all men before God and are therefore, sometimes distracted from themselves. They are probably less achievement oriented, and therefore, report very high SPA.

## 3. Design: #3,1

A. (12) Moral' Responsibility B (16) Youth Group Vitality C (17), Abult Caring

There was no interaction here. The only significant overall main effect was for (A) <u>Moral Responsibility</u>. Increase in the level of this factor was accompanied by a downward trend in SPA (Table 4.7) so that the lowest SPA was for 'high' Moral Responsibility. It indicates that when youngsters are low on moral responsibility, that is, resort to 'privatism' (minding one's self alone), they do not relate their achievement to a specific goal, and so perceive their achievement as satisfying, and report high SPA. Whereas those who are high on moral responsibility, which involves maintaining a high stance of becoming involved in helping others, tend to strive for further achievements and therefore; perceive their grades as less satisfying, and so the lowest SPA. 174

Design #3.2

Λ. (4) Life Partner B. (9) National Issues
C. (11) Orientation for Change.
The result showed presence of interaction - BC.

The level-wise cross-tabulations (Table 4.10) showed inconsist tent trend in SPA. The difference between the highest and the lowest cell entries is not very large, albeit significant. No use-

ful inference could therefore, be drawn from this design.

. Design #4.1

C. (3) Family Pressure D. (18) Family Social Concerns.

Two significant interactions - AC and BC, were found, so was the overall main effect due to factor D.

(i) (A) Family Unity and (C) Family Pressure Interaction

The level-wise cross-combination (Table 4.13) did not show a clear trend in SPA along Family Unity. There was an increasing trend along Family Pressure, however. Also, the Low-Low cell contained the lowest SPA, and the medium-Kign cell, the highest.

The youth in the Low-Low cell came typically from families with relatively cordial atmosphere, combined with low, family pressure. Under such an influence, the youngsters would probably relate mostly to their parents, be influenced by the family expectations and, thereby, tend to be achievement striving, and to report low SPA. (ii) (B) Parental Understanding and (C) Family Pressure.

Interaction.

Level-wise cross-tabulation reliated to BC interaction showed that whenever the levels of either factor increased, so did SPA (Table 4.15). The Low-Low cell contained the lowest SPA, and the 'High-High' the highest. In the former cell, youngsters enjoyed high cordiality and good communication between themselves and their parents as well as 'low family anxieties and problems. Such youngsters would like to satisfy the parents' expectations for them to achieve and therefore tended to report low SPA. The reverse held.

(iii) Family Social Concerns (overall main effect)

As the levels of Family Social Concerns because higher, SPA dropped, though potelignificantly (Table 4.16). The low level of this factor implies relative lack of concerns of parents about social issues and is associated to higher SPA.

176

6. Design #4.2

A. (5) Lack of Self Confidence B, (7) Personal Faults
C. (10) Maturity of Values D. (14) Self Regard
Two of the six interactions (BC and BD) were significant, so was the main effect for factor A.

(i) (B) Personal Faults and (C) Maturity of Values Interaction: SPA's in the combinations of the levels of factors B and C did not show any consistent trend except for decreasing SPA when

levels of factor C increased as one considers low! level of factor B. Not much useful information can be inferred from the results, therefore.

(ii) (B) Personal Faults and (D) Self Regard Interaction

SPA means dropped as Self Regard levels increased for each level of Personal Faults. The same was not true for the SPA as levels of Personal Faults increased when we take each level of Self Regard.

'It is essential, however, that the youngster should dain in Self Regard. Personal Faults which indicates self criticism

and self awareness are necessary to the self-perception of achievement. School teachers and counsellors should therefore, provide opportunities for youth to develop self-oriticism and selfacceptance, by certain significant, others accepting the youth to accept himself. It is a reflective behaviour. Without these qualities youngsters could deluge themesives with a faciling of pre-america

atisfaction in their achievement

# (iii) Lack of Self Confidence (Overall Main Effect)

The SPA means for the low and the medium levels of this factor are identical, hence this factor could be rationally considered to be of two distinct classifications. Increase in SPA from one to the other was significant (Table 4.22).

The high level of Lack of Self Confidence involves anxiety to please others due to fear of making mistakes, uncasiness in group situations, and over-eagements to avoid embarrassing situations. This state of extreme self consciousness in youths seems unsuitable for the emotional stability required for students to concentrate on achievement, and hence high SPA. With little self-confidence, the youngster could perceive whatever achievement he makes, even low can, therefore, be satisfying.

7. Design #4.3

A. (195) Socio-Economic Status of Parents. (B) Sex
 C. Age. D. (196/197) Parent's/Quardian's Educational Status
 There were three significant interactions found in the results
 of this design, viz., AB, AD, and BC.

(A) Socio-Roonomic Status of Parents and (B) Sex Interaction In the cross-classification of the combinations of the levels of both factors (Table 4.25), SPAs for both Males (Boys) and Females
(Girls) dropped significantly with increase in SES of Parents.
However, for each level of SES of Parents, Boys were significantly
higher than Girls in SPA, indicating that boys probably tend to be less achievement-oriented than girls at all the levels of SES. This inference is contrary to the existing notion that Boys who are supposed to be future 'breadwinners' for the family are more achievement seeking.

The lowest SPA was found for Girls at - 'high' SES level, that is for those who are generally under parental pressure to achieve so as to maintain the family traditions. The highest SPA, on the other hand, was observed for Boys at 'low' SES level. This is mainly due to the fact that the financial and emotional support from parents is probably lacking so that whatever the actual achievement, it seems to be satisfying.

# (ii) (A) Socio-Economic Status of Parents and (D) Parent's/ Quardian's Educational Status Interaction.

In the levels of the two factors, SPA means were observed to be sometimes dropping, sometimes increasing, thereby showing a clearly irregular trend. The lowest SPA was in the H-H cell, and highest in 'the L-L combination (Table 4.27).

It would be recalled that the higher levels of both the factors are associated to relatively high motivation, inspiration, support, and parental pressure on youngsters to achieve: The reverse would be true for 'low' levels.

(111) (B) Sex and C. Age Interaction

The SPA tended to be lower for girls than for boyses each of the four ages. However, as the age increased, the trand was not consistent. Occasional age-related differences existed for boys but never for girls. Age-wise SPA was rising and dropping for

boys but not for girls who showed no significant differences.

8. Design #4.4

A. (195) Socio-Economic Status of Parents B. (202) Family Unit. C. (196/197) Parent's/Guardian's Educational Status. D. Size

of Family.

Interaction AC was significant, so were the overall Main effects due to B and D respectively.

The former has already been dealt with in Design #4.3 (as interaction AD).

(B) Family Unit - Overall Main Effect.

SPA for youngsters from separated families was significantly higher than that for those from unseparated families (Table 4.31). It seems that those living with one parent have lower motivation to achieve and less emotional support from their single parent so that they tend to view their achievement as satisfactory.

(D) Size of Family - Overall Main Effect,

Youngsters from 'large' families showed higher SPA than those from 'small' families (Table 4.31). It seems that the youngsters from large families are less prone to achievement-striving, probably due to inadequate emotional and motivational support.

Design #4.5

A. (190) Religiosity of Youths B. (195) Socio-Economic Status of Parents. C. Denomination (Religious Affiliation). D. (196/ 197) Parent's/Quardian's Educational Status. Three highly significant interactions, AB, AC, and BD, were observed in the results of this design. Interaction BD has already been treated in Design #4.3 (as interaction AD), the remaining ones are discussed here.

(i) (A) Religiosity of Youths and (B) SES of Parents Interaction.

On both, the SPA had a down and trend, that is, with rise in their levels, SPA dropped. Lowest SPA was found in the H-H cell, and the highest in the L-L cell (Table 4.34).

It seems that the youngsters who are highly dedicated (high on Religiosity), and come from parents with high SES perceive their achievement less satisfying (challenge not well responded to) and, therefore, report low SPA. The reverse is true of the youngsters in the Low-Low (L-L) combination.

(ii) (A) Religiosity of Youths and (C), Denomination (Religious

Affiliation). Interaction.

On the first factor - A, SPA means dropped as the level of the factor rpse. This applied to all the three types of denominations: Catholics, Protestants, 'Others'. It seems that the youngsters who are less dedicated to a purpose could be less achievement-oriented, so report high SPA.

10. Design #4.6

A. (195) Socio-Economic Status of Parents, B.) (202) Family Unit C. (198) Drug Usage, D. (204) Size of Family.

There were two significant interactions in this design, vis., i) AB and (ii) CD; respectively. (i) (A) Socio-Economic Status of Parents and (C) Family Un Interaction.

Taking factor B, one could say that the SPA mean for the youngsters from separated families was higher than that of their counter parts from unseparated ones at each SES level. This is true on for a low and medium SES levels, but not for the 'high' SES (Table 4.39).

Youngsters from the combination of 'low' SES and 'separated familie's reported the highest SPA, probably because they perceive their actual achievement as pre-eminently satisfying in the absence of motivation and financial support. This is further substantiated, by the fact that the SPA is the lowest for youths from the combination of 'unseparated families' and 'high' SES.

'(11) (C) Drug Usage and (D) Size of Family Interaction.

SPA trend tended to be inconsistent (Table 4.41), For example, in 'large' and 'small' families, as Drug Usage increased, so did SPA, even though the increase in one case was not significant. With regard to Family Size, SPA dropped significantly from 'large' to 'small' families only for 'low' Drug Usage. SPA rose significantly from 'large' to 'small' families in both 'medium' and 'high' Drug Usage.

11. Design #4.7\*

A. (193) Type of School Attending, B(195) Socio-Economic Status of Parents C. (196/197) Parent's/Guardian's Educational Status. D. (214) Size of Family.

The significant interactions were AC, AD, and BC. The last inter-

The discussions on the remaining two are summarized here.

) (A) Type of School Attending and (C) Parent's/Guardian's

Educational Status Interaction.

Two patterns of trends were observed here (Table 4.46). One was rise in SPA means as one good from Public or Private to 'Other' schools. The other was a drop in SPA means from 'low' to 'high' on Parent's/Guardians Education in the case of Public and Private schools, no change in Parochial schools, and inconsistent change for 'Others'. Highest SPA mean was found for Youngsters in the combination of 'Other' schools (Vocational/Trades) and also from 'high' Parent's/ Guardian's Educational Status, showing signs of satisfaction 'in youngsters.

The lowest SPA mean was in the two combination cells of Public 'high', and Private-'high' Parent's/Guardians Educational Status. This is probably due to the aghievement orientation of the type of school combined with the parental motivation.

(ii) (A) Type of School Attending and (D) Size of Family

Interaction.

SPA rose from Public to 'Other' school, for both 'small' and 'large' families. Only in Public schools, SPA for youngsters from 'small' families is lower than that of those from 'large' families. There was no significant difference in SPAs for Youths from other 'o types of schools (Table 4.46).

A The combination of 'small' family and 'Public schools' showed the lowest SPA mean. Our cusly encode, SPA is the highest for youths from 'small' family and 'Other,' schools' probably fidicating how wel satisfied such youngsters are in trade schools.

# 12. Design #4:8

A. (190) Religiosity of Youths B. (193) Type of School Attending. C. (198) Drug Usage. D. Denomination (Religious Affiliation).

Four significant interactions were observed, (i) AB, (ii) AC, (iii) BC and (iv) CD.

(i) (A) Religiosity of Youths. (B) Type of School Attending Interaction.

Considering factor A (Religiosity of Youths), as its level increased, SPA means dropped for Public, Private and Other schools; but the pattern for Parochial schools showed a rise from 'low' to 'medium', and a drop from 'medium' to high' Religiosity (Table 4.49).

In factor B (Type of School Attending), as one moves from Public to Other schools, SPA seems to rise for 'medium' and 'high' levels of religiosity, but a slight, non-significant drop in SPA was observed for Parochial schools. 'The 'high' Religiosity-Public School cell had the lowest SPA, and the 'low' Religiosity-'Other' school the reverse, indicating high dedication in the former, and vice versa.

(11) (A) Religiosity of Youths and (C) Drug-Usage Interaction. The lack of significant F's between 'medium and 'high' Drug Usage at the 'medium' and high levels (but not 'low') of Religiosity is noteworthy. It shows that 'medium' Drug Deage is as grave as 'high'. The L-H combination (Low Religiosity-High Drug Usage) showing the highest SPA suggests lack of dedication of the Youths on the one hand, and their living in a world of unreality and fantasy on the other. On the contrary, the H-L cell was the reverse condition and hence, the lowest

(iii) (B) Type of School Attending and (C) Drug Usage Interaction. Increase in SPA means was observed as one goes from Public to Private, etc., schools, particularly in the 'low' Drug Usage level. SPA differences were not observed between 'medium' and 'high' Drug Usage, thus indicating similarity in the two levels.

Highest SPA mean is observed for 'high' Drug Usage in 'Other' schools, and the lowest SPA for Low Drug Usage in Private Schools. The former type of youngsters indicates high achievement orientation, and the latter the reverse.

(iv) (C) Drug Usage and (D) Denomination (Religious Affiliation) Interaction.

The result in general suggests how a type of Religious Affiliation combined with Drug Usage could be associated with youngsters' SPA. The lowest SPA was observed for Protestants with 'low' Drug Usage, which indicates how the parents' achievement-orientation reflects on the youngster realistically with less drug influence.

# PEARSON PRODUCT MOMENT CORRELATIONS: AN ANCILLIARY ANALYSIS.

Pearson Product Moment Correlations were calculated as additional analysis. They were between SPA and each of the 28 'independent' variables. In Table 4.56, they are arranged in order from r's for high positive to high negative. The exercise was intended to satisfy curiosity and to enable one to see the magnitude of r's at a glance; In a large sample size such as this (N=6534), even through most r's were significant, their overlap or common variances were negligible. It is therefore not necessary to attach any importance to those corrolations.

The interpretations of the results given in this research are based upon the researcher's underlying theory regarding 'Self-Perceived Achievement' (SPA) expounded on pages 5-8. It is not inconceivable, however, that other plausible and justifiable interpretations can be advanced, using a different.perspective.

In summing up the main findings of this research, it will be recalled from Chapter I that this investingation aimed at the identification of non-cognitive correlates of SPA, the implications of some of which could be of practical use to those engaged or interested in the education and the well-being of the youth.

SPA can be looked at as being high' or 'low'. The former is argued to be the less desirable one. It could imply (a) the youth's. feeling that he is achieving at his own level of appiration which, in turn, may be unrealistically low (or sometimes high); (b) that the youth is unable to perceive his academic grades realistically because he does not understand their value as such, or he has a feeling of disgust for schooling; (c) that the youth is probably functioning ina world of fantasympt dreamland as an escape device.

The 'high' SPA, thus looked at, is less conducive to youth's mental-health and, therefore, any attempt to reduce its size should be welcome and recommended Contrariwise, 'low' SPA probably implies a less satisfying feeling whereby the youth perceives his academic grades as having possibilities for further improvement. If, so, it has potential for motivating the youth for improving his achievement. 'Low' SPA, therefore, should not be discouraged except under limited circumstances, e.g., when the youth does not possess the ability for such an endeavour.

The research studied twenty-eight non-cognitive variables in relation to SPA:

(a) eighteen scales from the Youth Research Centre (YRC) Survey which dealt with concerns, values, beliefs and attitudes (Table 1.1); and

(b) ten variables of biographical and demographic nature (Table 1.2).

Three of the eighteen scales did not give clear-cut and useful results. They were: Youth Group Vitality, Adult Caring, and Life Partner. The remaining fifteen seemed pertinent to SPA. They showed (that, typcially, 'high' SPA was found to be associated with 'high' ) standing (T score of 56 and over) on the following nine scales:

(1) Academic Problems - worries and frustrations over one's own grades,

(2) Classroom Relationships - a feeling of inadequacy and unwantadness.

(3) National Issues - keen interest in social problems.

(4) . Orientation for change - taking a liberal stance to change

(5) Family Unity - much enxiety over lack of family ploseness.

(6) Family Pressure - many difficulties within the family.

186,

- (7) Parental Understanding extreme lack of communication between youth and parents.
- (8) Personal Faults extreme self criticism and feelings of guilt.
- (9) Lack of Self-Confidence little self-confidence.

Similarly, 'high BPA found associated to a 'low' standing (T score of 45 and less) on these six scales were:

- (1). Meaningful Life contrasting life-style of self-centredness.
- (2) Human Relations absence of openmindedness and compassion for others.
- (3) Moral Responsibility living for one's own self (privatism),
- (4) Family Social Concerns less family involvement in human needs.
- (5). Maturity of Values inability to move toward achieving a specific goal.
- (6) Self Regard inability to accept one's self as a person of worth;
- found that 'high' SPA was associated with a 'high' standing on:
  - (1) Drug (including blochol) Usage.
    - Age 18 Year-Olds.
    - Family Unit 'Separated' Parents,
    - Size of Family-'Large' (i.a. with 3 or more children).
  - (5) Sex Male (Boys) ;
    - Type of School Attending ""Cthers' (including Vocational/ Technical)

187

(7) Religious Affiliation (Denomination) - Catholic.

'Low' standing on the following was associated to the 'high'

#### SPA:

- (1) Socio-Economic Status of Parents.
- (2) Parent/Guardian's Educational Status.
- (3) Religiosity of Youth lack of dedication.

# SUCCESTIONS FOR FURTHER RESEARCH

This research was not conducted under the 'best' circumstances. Some of the undesirable features were, for instance, the nature of the sample and the instrument used. On the basis of the experience derived, however, a few ideas for further research are given below for the benefit of future researchers in this area.

1. Research in Another Culture

In the event of a replication of this research in another culstural setting (in which this researcher is keenly interested), the Instrument would need to be modified with relevance to the particular cultural environment. In Nigeria, for example, certain other major Religious Denominations (Religious Affiliations) will need to be specified instead of lumping all of them under the catchmall phrase, 'OTHERS' Such religions are Islam, Cherubin and Seraphim; Jehovah Witness, and other non-western religions.

2. The Population, Sample Sharce and Size

The reference populating from the data for this research

were collected two years ago has probably undergone certain notable changes. In such a case the generalizations could be out-dated. In a cross-cultural research, therefore, the time of data collection should be as close as possible.

The sample for this study was rather unrepresentative, being largely collected from an ecumenical (or religious) source. It did, however, contain a sizable number of youths with non-religious affiliations also. Further researchers should guard against this limitation.

It is further suggested that the massive sample size of the present study (6,534) can be considerably reduced, say to a fifth, with out loss in the quality of the findings, e.g. in regard to the size of type II error.

3. Extension in the Analyses of the Data.

It is suggested that in order to provide additional useful information, data could possibly be re-analyzed so as to examine higher order interactions also. It may also be worthwhile to examine the 28 variables in a multiple regression technique.







•

- 190

•

•



190

#### BIBLIOGRAPHY

Adam, Don (ed.), Educational Planning, Syracuse, Syracuse University Press, 1964.

Adams, Don and Bjork, Rober M. Education in Developing Areas, David McKay Co., Inc., New York, 1969.

Alexander (Jr.), C.N. and Campbell, E. Q., "Peer Influence on Adolescent Educational Aspirations and Attainment," <u>American Sociological Deview</u>, Vol. 29, 1964, pp 368-75.

Almack, J. C. "The Influence of Intelligence on the Selection of Associates". School and Society, Vol. 16, 1922, pp. 529-530.

Allport, G. W. Decoming. New Haven: Yale University Press, 1971.

- Altman, E. R., "The Effect of Rank in Class and Size of High School on Academic Achievement of Central Michigan College, Class of 1957". Journal of Educational Research, Vol. 52, 1959, pp. 307-09.
- Anastasi, A. "Heredity, Environment and the Question How?" Psychological Review, 1958, 65, 197-208.
- Anderson, C. C. "Psychological Contributions to Education: The Origin and Modification of Values". <u>Alberta Journal of</u> <u>Educational Research</u> Vol. 11, No. 4, Dec. 1965, pp. 203-214.
- Anderson, W. F. Relation of Lorge-Thorndike Intelligence Test Scores of Public School pupils to the Socio-economic Status of their Parents. Journal of Experimental Education, Vol. 31, 1962, 73-76.

Education, New York, Harcourt, Bruce and Horld Inc. 1968.

- Baldwin, Jean Margaret, "An Analysis of the Relationship between Self-Esteem, Academic Achievement and Academic Level of Aspiration for a Group of College Students". Unpubliched Ph.D. Dissertation University of Maryland, 1969.
- Baldwin, Alfred L. Theories of Child Development. New York: John Wiley and Sons, Inc., 1968.

Bandura, A. "Punishment Revisited", Journal of Consulting Psychology. Vol. 26, No. 4, 1962, pp. 298-301

Bandura, A., Grusec, J. E. and Menlove, F. I. "Some Social Determination of self-monitoring reinforcement systems". Journal of Personality and Social Psychology. Vol. 5, 1967, pp. 449-455.

Bandura, A. and Kupers, C. J. "The Transmission of patterns of selfreinforcement through modelling". Journal of Abnormal and Social Psychology. Vol. 69, 1964, pp. 1-9.

Bandura, A., and Perloff, B. "Relative Efficacy of Self-Monitored and Externally Imposed Reinforcement Systems". Journal of Personality and Social Psychology. Vol. 7, 1967, pp. 111-116.

Bandura, A. and Walters, R. H. Adolescent Aggression, New York, Ronald, 1959.

Bandura, A. and Walters, R. H. Social Learning and Personality Deve-Appment. New York: Holt, Rinehart and Winston, Inc., 1963.

Bandura, A. and Whalen, C. K. "The Influence of antecedent reinforcement and divergent modelling cues on patterns of self-reward." Journal of Personality and Social Psychology, Vol. 33, 1966, pp 373-382.

Barker, R. G. and Gump, P. V. <u>Big School, Small School: High School Size</u> and Student Behaviour. Stanford: Stanford University Press, 1964, p. 250.

Bauerfeind, R. H. and Blummenfeld, W. S. "A Comparison of Achievement Scores of Public School and Catholic School Pupils", Educational and Psychological Measurements. Vol. 23, 1963, pp 331-36.

Bealer, R. C.; Wilits, F. K.; and Maida, P. R., "The Rebellous Youth Subculture - a myth. <u>Children</u>, Vol. 11, 1964, pp. 43-48.

Becker, H. S. "The Teacher in the Authority System of the Public School", Journal of Educational Sociology, Vol. 27, 1953, pp. 128-41.

Becker, Joseph and McArdle, Judy. "Non-lexical Speech similarities as an index of Intrafamilial identifications". Journal of Abnormal Psychology. 72, 1967, 408-414:

Denjamin J. "Changes in Performance in Relation to Influences Upon Self Conceptualization", Journal of Abnormal and Social Psychology. Vol. 45, 1950, 473-80.

- Berdie, Ralph E. "Self-Claimed and Tested Knowledge". Educational and Psychological Measurement. Vol. 31, No. 3, Autumn, 1971, pp. 629-636.
- Best, John W. Research in Education, Prentice Hall Inc., Englewood Cliffs, New Jersey, 1970.
- Biddle, B. J., Rosen cranz H.A., and Rankin, E. P. "Studies in the Role of the Public School Teacher", Columbia; University of Missouri Bess, 1961.
- Bish, Gertrude G. "A study of the relationship of intelligence, achievement, creativity, anxiety and confidence among intermediate grade pupils in a suburban area of elementary school". Unpublished doctoral disseration, George Washington University, 1963.
- Bloom, B. S. (ed.), Engelhart, M.D., Frost, E. J., Hill, W. H. and Krathwohl, D. R. <u>Taxonomy of Educational Objectives, Handbook</u> <u>I: Cognitive Domain</u>. New York, David McKay Co., Inc., 1956.
- Bloom, B. S.; flastings, J. T.; and Madaus, G. F. Handbook on Formative and Summative Evaluation of Student Learning. McGraw-Hill Book Co., Inc., New York, 1971.
- Bonney, M. E. "A Sociometric Study of The Relationship of Some Factors to Mutual Friendships on the Elementary, Secondary and College Levels." <u>Sociometry</u>, Vol. 9, 1946, pp. 21-47.
- Bonney, M. E. "Relationship between Social Success, Family Size, Socio-Economic Home Background and Intelligence". <u>Sociometry</u>. Vol. 7, 1944, pp. 26-37.
- Box, G.E.P. "Non-Normality and Tests on Variances", Biometrika, XL, 1953, 484-498.
- Boy, Angelo V., and Pine, Gerald J. <u>Expanding the Self: Personal</u> Growth for Teachers. Iowa, Wm. C. Brown Co., Pub., Duburus, 1971. (Ontario; Burns and MacEachern Ltd.)
- Boyd, P. "Heroin Addiction in Adolescene". Journal of Psychosomatic Madicine. 1970.
- Boyle, R. P. "The Effect of the High School on Students' Aspirations" American Journal of Sociology, Vol. 71, 1966, pp. 628-39.
- Brantley, D. "Family Stress and Academic Failure". Social Casework. Vol. 50, No. 5, 1969, pp. 287-290.

Bronfenbrenner, Urie "Socialization and Social class Through Time and Space". <u>Readings in Social Psychology</u>. New York: Holt, Rhinehart and Winston, 1958, pp. 400-425.

Bronfenbrenner, U. "The Mirrow-Image in Soviet-American Relations: A Social Psychologist's Report". Journal of Social Issues. Vol. 17, No. 3, 1961, 45-46.

Bronfenbrenner, Urie "The Psychological Costs of Quality and Equality in Blucation". Child Development, Vol. XXXVII, No. 4, 1967. pp. 909-925.

Bronfenbrenner, U. Two Worlds of Childhood. (U.S. and U.S.S.R.). New York: Russell Sage foundation, 1970.

Brookover, W. B. "A Social Psychological Conception of Classroom Learning". <u>School and Society</u>. Vol. VIII, 1959, pp. 84-87.

Brookover, W. B. Paterson, A., and Thomas S. "The Relationship of Self-Image to Achievements in Junior High School Subjects". Michigan, School of Education, Michigan State University, 1948.

Brookover, W. B., Thomas, S., and Paterson, A. "Self-concept of Ability and School Achievement", Sociology of Education. Vol. 37, 1964, 271-279.

Brookover, W. B., LePere, J. M., Erickson, E. L. and Thomas, S. "Definition of Others, Self-concept, and Academic Achievement: A Longitidinal Study", Paper presented at American Sociological Association, Chicago, August, 1965.

Brookover, W. B., Erickson, E. L. and Joiner, L. M. Self Concept of Ability and School Achievement III. Cooperative Research Project #2831, East Lansing, Michigan: Michigan State University, 1967.

Bush, R. Nelson The Teacher-Pupil Relationship. Englewood Cliffs, N.J.: Prentice-Hall, Inc., 1954, p. 67.

Cantril, H., "Identification with Social and Economic Class". Journal of Abnogmal and Social Psychology, Vol. X00XIII, 1944, pp. 74-80.

Chung, Gom Mo "Values and Education". Reference Paper Submitted to the International Seminar for the <u>Advanced Training in Curriculum</u> Development and Innovation, Sweden, Granna, July, 1971.

Coleman, J. S. "The Adolescent Sub-culture and Student Achievement". American Journel of Sociology. 65, 1960, pp. 337-47.

Coleman, J. S., Campbell, E. Q., Hobson, C. J., et al Equality of Blucational Opportunity, Washington, D.C., U.S. office of Education, 1966.

Combs, A.W. "Seeing is Behaving". <u>Educational Leadership</u>. Vol. XVI, October, 1958, p. 21.

Combs, A. W. and Snygg, D. Individual Behavior. New York: Harper, 1959.

Combs, A. W. and Snygg, D. Individual Behaviour: A Perceptual Approach to Behaviour. New York: Harper and Brothers, 1959, p. 406.

Combs, A. W.; Soper, D. W.; and Courson, C. C. "The measurement of self-concept and self-report". Educational and Psychological Measurement. Vol. 23, No. 3, 1963, pp. 493-500.

Combs, W. A. and Soper, D. W. "The Self, Its Derivative Terms and Research." Journal of Individual Psychology. Vol. 13 1957, pp. 134-145.

Conrad, II. S., Freeman, F. N. and Jones, H. E. "Differential Mental "Growth". Forty-third Yearbook of the National Society for the Study of Education, Part I. Chicago: Department of Education, University of Chicago, 1944, p. 180.

Conrad; H. S. "Clearance of Questionnaires with respect to "Invasion of Privacy". Public Sensitivities, and Ethical Standards, etc.". American Psychologist, Vol. 22, No. 5; May, 1967, pp. 356-359.

Conton, W. F. "The Ethical Element in the Curricula of Developing Countries". <u>Prospects in Education</u>. Vol. 1, No. 4, 1970, pp. 30-33.

Coombs, Phillip H. The World Educational Crisis - a system analysis. Landon, Oxford University Press, 1968.

Cronbach, L. "Coefficient Alpha and the Internal Structure of Tests" <u>Psychometrika</u>. Vol. 16, 1951, pp. 297-334.

Dabrowski, K. The Theory of Positive Disintegration. International Journal of Psychiatry. 1966, 2, 229-244.

Dabrowski, K., Kewczak, A., and Piechowski, M. M. Mental Growth through Positive Disintegration. Gryf Publications Ltd., London, 1970.

Dave, R. H., "The Identification and Measurement of Environmental Process Variables That are Helated to Educational Achievement" Unpublished doctoral dissertation, University of Chicago, 1969. Davidson, H. H. and Lang, D. "Children's Perception of their Teachers Feeling Toward Them". Journal of Experimental Education. Vol. 29, 1960, pp. 109-18.

195

Dougherty, Denia "Normative Value Différences between Public and Parochial School Adolescents". <u>Sociological Analysis</u>, Vol. 26, No. 2, Summer, 1965, pp. 96-109.

- Douvan, Elizabeth "Social Status and Success Striving". Journal of Abnormal Psychology, 1956.
- Douvan, Elizabeth and Adelson, Joseph "The Self and Identity" in The Adolescent Experience, New York: Wiley, 1966.

Downie, N. W. and Heath, R. W., Basic Statistical Methods, New York: Harper and Row, 1965 (p. 177). (

Dynes, Russel; Clarke, A. C. and Dintz, S. "Levels of occupational aspiration: Some aspects of family experience as a variable". <u>American Sociological Review</u>, Vol. 21, 1956, pp. 212-215.

Dyson, Earnest "A study of ability grouping and the self-concept". Journal of Educational Research, Vol. 60 (1967) pp. 403-5.

Echelberger, E. <u>Relationships between Personality Traits and Peer</u> Status. Ann Arbor: University of Michigan, 1959 Unpublished Doctoral Dissertation.

1

- Elder, G. H. "Life Opportunity and personality: some consequences of stratified secondary education in Great Britain", <u>Sociology</u> of Education, Vol. 38, 1965, pp. 173-202.
- impey, lanert "Social class and occupational aspiration; a comparison of absolute and relative measurement", American Sociological Review. Vol. 21, 1956, pp. 703-709, /
- Engel, N. "The Stability of the Self-Concept/in Adolescence". Journal of Abnormal and Social Psychology. Vol. 58, 1959, pp. 211-215.

Erickson, D. A. "Religious Consequences of Public and Sectarian School". The School Review. Vol. 72, Spring, 1964, pp. 22-23.

Brikson, E. H. Childhood and Society, New York: Norton, 1950.

Frikson, E. H. "The Problem of Ego Identity" Journal of The American Psychoanalytic Association. Vol. 4, 1956, pp. 56-121. ţ.

Erikson, E. H. "Identity and the Life-Cycle". <u>Psychological Issues</u>. Vol. 1, No. 1, 1959, pp. 1-171.

Erikson, E. H. "Youth and the Life Cycle". Children. Vol. 7, No. 2, March/April, 1960, pp. 43-49.

- Erikson, E. H. "Youth, fidelity and diversity" Daedalus, Vol. 91, Winter, 1962, pp. 5-27.
- Erikson, E. H. Memorandum on Youth", Daedalus, Vol. 96, No. 3, Summer, 1967, pp. 860-870.
- Erikson, E. H. Youngman Luther. New York: W. W. Norton and Co., 1958.

Everett, A. V. "Self concept of High, Medium, and Low Academic Achievers". Australian Journal of Education. Vol. 15, No. 3, October, 1971, pp. 319-324.

Eysenck, H. J. "The Logical Basis of Factor Analysis" American Psychologist, 1953.

Falstein, E. I. "Juvenile Alcoholism: A Psycho-dynamic case-study of Addiction". <u>American Journal of Orthopsychiatry</u>. Vol. 23, 1953, pp. 530-531.

Ferguson, G. A. <u>Statistical Analysis in Psychology and Education</u>. New York: <u>MoGraw-Hill</u>, 1959;

Fink, M. B. "Self Concept as it Relates to Academic Under-achievement". California Journal of Educational Research, Vol. 13, 1962, pp. 57-62.

Fisher, R. A. The design of experiments. Edinburgh; Oliver and Boyd. (6th ed.), 1951.

Fisher, R. A. and Yates, F. Statistical Tables for biological, agricultural, and medical research. Edinburgh; Oliver and Boyd, 1963.

Gagné, R. M. The Conditions of Learning, New York: Holt, Rinehart and Winston, 1965.

Gagne, "R. M. "Contributions of Learning to Human Development". Psychological Review. Vol. 75, 1968, pp. 177-191.

Garrison, Karl C. Psychology of Adolescence. New Jersey: Prentice-Hall Inc., Englawood Cliffs (6th edition), 1965.

4 L.

- Gecas, V.; Thomas, D. L.; and Weiger, A. "Perceived Parent-Child Interaction and Boys' Self-Esteem in Two Cultural Contexts". International Journal of Comparative Sociology-Research Communications, Vol. 11, No. 4, Dec. 1970, pp. 317-324.
- Gibby, R. S. (Sr.), and Gibby, R. G. (Jr.), "The effects of stress resulting from academic failure". Journal of Clinical Psychology, Vol. 23, 1967, pp. 35-37.
- Glass, G.V. and Stanley, J.C., Statistical Methods in Education and Psychology, New Jersey, Prentice-Hall Inc. Englewood Cliffs, 1970.
- Coertzel, Ted. "Generational Differences and Student Activism in Brazil". Sociology and Social Research, Vol. 55, No. 5, 1971.
  - Goff, Charles Edward, "A Study of the Relationship between Non-Cognitive. factors and General Intelligence to Academic Achievement at the Junior High School Level". Unpublished Ed. D. Dissertation. Boston University School of Education, 1969.
  - Gold, Martin; and Douvan, Elizabeth Adolescence Development: (Readings in Research and Theory), Boston, Mass.: Allyn and Bacon, Inc., 1969.
  - Goldberg, Isadore "Background plans and aspirations of 1960 highschool ( youth". <u>American Psychologist</u> (APA), Vol. 19, 7, p. 468-69, July, 1964.

Gonella, Germella; and Reid, Jackson B. "Interaction of Anxiety and other cognitive variables in prediction of individual learning". American Psychologist (APA), Vol. 19, 7, p. 461, July, 1964.

- Gordon, C. W. "The Role of the Teacher in the Social Structure of the High School" Journal of Educational Sociology, Vol. 29, 1955, pp. 27-29.
- Gordon, C. W. "The Social System of the High School: A Study in the Sociology of Adolescence, New York: MacMillan, 1957.
- Gordon, I. J. and Combs, A. W. "The Learner: Self and Perception". Review of Educational Research, Vol. XXVIII, 1958, pp. 433-444.
- Gottlieb, D. "Goal Aspirations and Goal Fulfilments: Differences between Deprived and Affluent American Adolescents", American Journal of Orthopsychiatry, Vol. 34, 1964, pp. 934-41.
- Greeley, A. M. and Rossi, P. H., "Correlates of Parochial School Attendance", School Review, Vol. 72, No. 1, 1964, pp. 52-73.
- Grooms, R. R., and Endler, N. S. "The Effect of Anxiety on Academic Achievement", <u>Journal of Educational Psychology</u>. Vol. 11, 1960, 299-304.
- Guilford, J. P. Personality. New York, 1959, McGraw-Hill.
- Guilford, J. P. The Nature of Human Intelligence. New York: McGraw-Hill Pook Co., 1967.
- Gullikson, Harold, Theory of Mental Tests. New York, Wiley, 1950.

Hadow Report: Education of the Adolescent - Social Individuality. London HMSO, 1926.

1411, G. S. Adolescence: Its Psychology and its Relation to Physiology, Anthropology, Sociology, Sex, Crime, Religion,

And Education. New York: Appleton-Century-Crutics, Inc., 1904 Vol. I, Chpt. 1, 2, and 13.

Naller, A. O. and Butterworth, C. E., "Peer Miluences on Levels of Occupational and Educational Aspirations", <u>Social Forces</u>, Vol. 38, 1960, pp. 289-95.

Hansen, M. M. "What does ability grouping do to the self-concept"? (in M.P. Frankin (ed.) <u>School Organization</u>: Theory and Exactice. Chicago: Rand McNally, 2967.

Hargreaves, D. Social Relations in a Secondary School. New York: Humanities Press, 1967.

Hawkes, G. R., Burchirald, L. G., and Gardiner, B., "Pre-Adolescent's view of some of their relations with their parents" <u>Child</u> <u>Development</u>, Vol. 28, 1957, pp. 393-399."

Hayes, William L., Statistics, New York; Holt, Minshart and Winston,

Hebb, D. O. Hereditary and Environment in mentalian Tehrviour. British Journal of Animal Behaviour, 1953, 17 49-47.

Helper, M. M. "Learning Theory and the Self-Concept", Journal of Abnormal and Social Psychology. Vol. 51, 1955, 184-194.

Herron, E. Wayne "Intellectual achievement motivation: A study in construct clarification". American Psychologist (APA). Vol. 19, 7, p. 469, July, 1964.

Hoffman, L.W., and Lippitt, R., "The Measurement of Family Life Variables", in P.H. Mussen (Ed.), Handbook of Resparch Methods in Child Development, New York; Wiley, 1960, pp. 945-1015.

Hollingshead, A.; and Redlich, F. Social Class and Mental Illness New York: Wiley, 1958.

Holt, John, How Children Fail, New York; Pitmin Publishing Co. 1964.

Nott, L. and Sonstegard, M. "Relating Self-Conception to Curriculum Development". Journal of Educational Research. Vol. 58, 1965, pp. 348-51.

Hoyt, C. "Test Reliability Estimated by Analysis of Variance". Psychometrika. Vol. 6, 1941, pp. 153-160.

- Inll, C. L. "Goal attraction and direction ideas conceived as habit phenomena." Psychological Review. Vol. 38, 1931, pp. 487-506.
- "Jahoada, Marie Current Concepts of Positive Mental Health. New York: Basic Books Inc., 1958.

Jones, H. E.; Conrad, H. S., and Murphy, L. B. "Emotional and Social Development and the Educative Process". <u>Thirty-eighth</u> "<u>Yearbook of the National Society for the Study of Education</u>. Part I. Chicago: Department of Education, University of Chicago, 1939, Chp. 18, p. 363.

- Jones, Reginald L.; and Diehl, T. Handley "Cognitive and Non-Cognitive predictors of student performance on six instructional objectives". American Psychologist. (APA) Vol. 19, 7, p. 461, July, 1964.
- Kagan, J. "The Child's perception of the Parent", Journal of Abnormal and Social Psychology, Vol. 53, 1956, pp. 257-258,

Kahl, J. A. and Davis, J. A., "A comparison of Indexes of Socio-Economic Status" <u>American Sociological Review</u>, Vol. 20, June, 1955, p. 144.

Kaplan, Howard B. ?"Social Class and Self-Derogation: A Conditional -Relationship". Sociometry. Vol. 34, No. 1, March, 1971.

Kassof, A. The Soviet Youth Programme. Cambridge, Mass.: Harvard University Press, 1965.

Katz, P. and Zigler, E. "Self-Image Dispairty: A Developmental Approach". Journal of Personality and Social Psychology. Vol. 5, 1967, pp. 186-195.

Kelly, D. H. "School failure, Academic Self Evaluation, and School Avoidance and Deviant Behaviour". Youth and Society. Vol.2, No. 4, June, 1981, pp. 489-503. Korman, A. K. "Ethical Judgements of Self-Perceptions and Vocational Choice". American Psychological Association. Vol. 22, No. 7, p. 546.

Krathwohl, D. R. "Stating Objectives Appropriate for Programme, for Curriculum, and for Instructional Materials". Journal of Teacher Education. Vol. 16, March, 1965, pp. 83-92.

Krathwohl, D. R.; Bloom, B. S.; and Masia, B. B. Taxonomy of Educational Objectives. Handbook II: Affective Domain, New York, David McKay Co., Inc., 1964.

Krauss, L. "Sources of Educational Aspiration among Working-Class Youth". Sociological Review. Vol. 29, 1964, pp. 867-879.

Kronboltz, J. D.; Christal, R. E.; and Ward, J. H. "Predicting Leadership Ratings from High School Activities". Journal of Educational Psychology. Vol. 50, No. 3, 1959, pp.

Kuder, G.; and Richardson, M. "The Theory of the Estimation of Test-Reliability". <u>Psychometrika</u>. Vol. 2, 1937, pp. 151-160.

Kugelmass, S.; and Breznitz, S. "Perception of Parents by Kibbutz Adolescents". Human Relations. Vol. 19, No. 1, 1966, pp. 117-122.

La Barre, Weston "Adolescence; The crucible of change". <u>Social Casework</u>. Vol. 50, No. 1, Jan., 1969, pp. 22-26.

LaBenne, W. D.; and Greene, B. I. <u>Educational Implications of Self-</u> <u>Concept Theory</u>, California: Goodyear Pub. Co. Inc. - Pacific Palisades, 1969.

Lavin, D. E. The Prediction of Academic Performance. New York: Russell Sage.Foundation, 1965.

Lindzey, G. General Discussion. In S. G. Vandenbery (Ed.) Methods and Goals in human behaviour genetics. New York: Academy Press, 1965.

Lippitt, R.; and Gold, M. "Classroom Social Structure as a Mental." Health Problem", Journal of Social Issues. Vol. 15, No. 1, 1959, pp. 40-49.

Loewinger, J. "The Technique of Homogeneous tests compared with some aspects of Scale Analysis and Factor Analysis". <u>Psychological</u> <u>Bulletin.</u> Vol. 45, 1948, pp. 507-529. Loevinger, J. "A Systematic Approach to the Construction and Evaluation of Tests of Ability". Psychological Monograph. Vol. 61 (4), (111), No. 49, 1947.

Loevinger, J.; Alesser, B.; and Dubois, P. "Maximizing the Discriminating Power of a Multiple-Score Test". <u>Psychometrika</u>. Vol. 18, 1953, pp. 309-317.

Lubin, Ardie, "The Interpretation of Significant Interaction," Educational and Psychological Measurement, 1961, 21. pp. 807-817.

McClelland, D. C.; Rindlisbacher, A.; and de Channs, R. "Religious and other Sources of Parental Attitudes towards Independence Training" (in McClelland, D. G. (ett) <u>Studies in Motivation</u>, New York: Appleton-Century-Croft Inc., Division of Meredith Publishing Coy, 1955).

- McDill, E. L. and Coleman, J. S., "High School Social Status, College Plans, and Interest in Academic Achievement: A Panel Analysis". American Sociological Review, Vol. 28, No. 6, 1963, pp. 905-18.
- McDill, E. L. and Coleman, J. S. "Family and Peer Influences in College Plans of High School Students", Sociology of Education, Vol. 38, 1965, pp. 112-26.
- McGuire, Carson; Jennings, E.; and Murphy, A. C.; Whiteside, R. "Dimensions and Criteria of talented behaviour". <u>American</u> Psychologist (APA) Vol. 19, 7, p. 469.

McKinley, D. G. Identification and Family Structure: Social Class and Family Life. New York: The Free Press-Collier MacMillan, 1966, p. 158.

McNair Commission "Teachers and Youth Leaders", HMSO, London, 1944.

Mack, Raymond, W.; Murphy, R.; and Yellin, S. "The Protestant Ethic, level of aspiration, and social mobility: an empirical test". American Sociological Review. Vol. 21, 1956, pp. 295-300.

MacKay James R. "Alcohol, Alcoholian and the Youth". Social Worker. Volume 10, No. 1, Jan., 1965, pp. 75-80.

Mairer, M. H., and Scarvia, A. "Growth Study I: Adolescent Behaviour and Interests". Research Bulletin, Princeton, New Jersey, Educational Testing Service, 1964.

Mark, S. and Nyman, G. H. Parception of Parental: Identification, Parental Positience and Marian, M. Young Mobiles. Land Sweden (M. Mileerup, 1988 (Samiah Crowns).

Tomes . F

#### Martire, J. C. "Relationship Between the Self Concept and Differences in the Strength and Generality of Achievement Motivation". Journal of Personality, Vol. 24, 1956, pp. 364-75.

Maslow, A. H. "Self-Actualizing People" in the World of Psychology. (G. B. Levitas ed.) Vol. 2, New York: George Braziller, 1963.

Maslow, A. H. Religions, Values and peak Experiences. Columbus, Ohio: Ohio State University Press, 1964.

Maslow, A. H. Toward a Psychology of Being (2nd Ed.). Princeton, New Jersey: Van Nostrand, 1968.

Mead, G. H. Mind, Self, and Society. Chicago: University of Chicago, Press, 1934.

Merenda, P. F.; and Clarke, W. F. "Self Description and Personality Measurement". Journal of Clinical Psychology. Vol. 21, 1965, 52-56.

Meyer, A. J.; and Sharp, H. "Religious preferences and worldly success". American Sociological Review. Vol. 27, 1962, pp. 218-227.

Michael, J. A. "High School Climates and Plans for Entering College," Public Opinion Quarterly, Vol. 25, 1961, pp. 585-955

Mitchell, John J. Adolescence - Some Critical Issues. Toronto, 1971, Holt, Rinelart and Winston of Canada.

Mooney, Ross L. Problem Check List, High School Form. Columbus, Ohio, Bureau of Ed. Research, Ohio State University, 1941.

Morse, W. C. "Self Concept in the School Setting". Children's Education. Vol., 41, 1964, pp. 195-198.

Mowrer, O. H. "The Law of Effect and Ego Psychology", Psychological Review. Vol. 53, 1946, pp. 32-34.

Murduck, G. P. Social Structure, New York: MacMillan, 1949.

Mutter, A. Z.; and Schleifer, M. J., "Psychological and Social Setting", Psychosomatic Mudicine, 1966, Vol. 28, pp. 333-343.

National Educational Association: Humanizing the Secondary School. ASCD Publication, New York: NEA, 1959 (Jan.).

O'Neill, M. S.; and Alexander, J. F. "Family Interaction patterns as a function of Task Characteristics", Journal of Applied Social Psychology, 1971, Vol. 1, No. 2, pp. 163-172. Objoxi, C. E. "Motivational dynamics of Language Behavior". Nebraska Symposium on Motivation. Vol. 5, 1957, pp. 348-424.

7

203

Parker, James "The Relationship of Self Report of Inferred Self Concept". Educational and Psychological Measurement. Vol. 26, pp. 691-700.

Parsons, T., and Bales, R. F. Family, Socialization, and Interaction Process. Glencoe, Ill.: The Free Press, 1955.

Parsons, T., Bales, R. F.; and Shils, E. A. Working Papers in the Theory of Action. Glencoe, Ill., Free Press, 1955.

Payne, D. A. "The concurrent and Predictive Validity of an Objective Measure of Academic Self-Concept". Educational and Psychological Measurement. Vol(19011, No. 4, 1962, pp. 773-780.

Payne, D. A.; and Farquhar, W. W. "The Dimensions of an Objective Measure of Academic Self-Concept". Journal of Educational Psychology. Vol. 53, 1962, pp. 187-192.

Perkins, C. W., and Shannon, D. T. "Three techniques for obtaining self-perceptions in pre-adolescent boys". Journal of Personality and Social Psychogy. Vol. 2, 1965, pp. 443-446.

Piaget, J. The Moral Judgement of the Child. London: Routledge and Keyan Paul, 1932.

, Plaget, J. Six Psychological Studies. New York: Random House, 1967 (p. 61).

Polk, Kenneth, "Class, Strain and Rebellion among Adolescents". Social Problems. Vol. 17, No. 2, Fall, 1969, pp. 214-224.

Purkey, W. W. Self Concept and School Achievement. New Jersey: Prentice Hall Monthle 1970.

Quinn, P. V. "Original Thinking and Opermindedness in Pupils from Public and Catholic Secondary Schools," Journal of Psychology, Vol. 66, No. 1, 1965, pp. 23-30.

Reeder, T. A. "A study of Some Belacionships Between Level of Self Concept, Academic Achievement, and Classroom Adjustment, Dissertation Abstracts 341, 15, 1955, 230-32.

### Reissman, L. "Levels of aspiration and social class". American Sociological Review. Vol. 18, 1953, pp. 223-242.

Remmers, H. H.; and Radler, D. H. The American Teenager. New York: Bobbs-Merrill, 1957.

Rhodes, A. L.; and Reiss, A. J. (Jr.), "Apathy, truancy, and delinquency as adaptations to school failure", Social Forces. Vol. 48, 1969, pp. 12-22.

Robbins' Report-Commission on Higher Education HMSO, London, 1963.

- Robinson, J. P., Athanasion R., and Head, K., measures of Occupational Attitudes and Occupational Characteristics, Michigan, Feb., 1969, Research Center, Institute of Social Research, University of Michigan, Ann Arbor; pp. 357-58.
- Roby, J. B. Small Group Performance: Chicago, 1968, Rand McNally.
- Royers, C. R. On Becoming A Person, Boston, 1961, Houghton and Miffin.
- Rogers, D. (ed.) Issues in Adolescent Psychology, New York, 1969, Appleton-Century-Crofts, Meredith Publishing Corporation.

Rosen, B. C. "The Achievement Syndrone: A Psycho-cultural dimension of social stratification." <u>American Sociological Review</u>. Vol. 21, 1956, pp. 203-211.

Rosen, B. C. "Family Structure and Achievement Motivation". American Sociological Baview. Vol. 26, 1961, pp. 574-585.

Rosen, B. C. and D'Andrade, R. B. "The Psycho-Social Origins of Achievement Motivation". Sociometry. Vol. 22, 1959, pp. 185-218.

Rosen, B. C. "Socialization and Achievement Motivation in Brazil". American Sociological Review. Vol. 27, 1962, pp. 612-624.

Rosenberg, M. Society and the Adolescent Self-Image. Princeton, 1965, New Jarsey: Princeton University Press.

Rosenthal, R. and Jacobson, L. "Teachars' Expectancies: Determinants of Pupils' 10 Gains", Psychological Reports, Vol. 19, 1966, pp. 115-18. 204



A

7

Rosenzweig, M. R. "Environment Complexity, Cerebral Change, and Behavior". American Psychologist, Vol. 21, No. 4, April, 1966.

Rossi, R. H. "Social Restraints on the Development of Talent Among Middle and Upper-Class Youth". (unpublished), 1961.

Roth, R. M. "Role of the Self-Concept in Achievement". Journal of Experimental Education. Vol. 27, 1959, 265-81.

Rothbart, M. K. and Maccoby, E. E. "Parents Differential Reactions to Sons and Daughters". Journal of Personality and Social Psychology. (APA) Vol. 4, No. 3, 1966, pp. 237-243.

Schafer, W. E. and Polk, K. "Delinquency and the Schools". Task Force Report: Juvenile Delinquency and Youth Crime. New York: Holt, Rinehart and Winston, 1968.

Schiamberg, L. "Some socio-cultural factors in Adolesgent-Parent Conflict: A cross cultural comparison of selected cultures." Adolescence. Vol. 4, No. 15, Fall, 1969, pp. 333-360.

Schlesser, G. E.; and Finger, J. H. "Non-Intellectual Predictors of Academic Success in School and Village". School Review, Vol. 73, 1965, pp. 14-29.

Schneider, Lord Lipguard, S. "The deferred gratification pattern". American Sociological Review. Vol. 18, 1953, pp. 142-149.

Scriven, M. "The Methodology of Evaluation". AERA Monographs Series in Curriculum Evaluation - No. 1. Chicago, Rand McNally And Co., 1970.

Scriven, M. "Student Values as Educational Objectives", Proceedings of the 1965 Invitational Conference on Testing Problems. Princeton: Educational Testing Service, 1965.

Sears, Pauline S. "Levels of Aspiration in Academically Successful and Unsuccessful Children." Journal of Abnormal and Social Psychology. Vol. 35, 1940, pp. 498-536.

Sears, P. S. "Levels of Aspiration in Relation to Some Variables of Personality: Clinical Studies". Journal of Social Psychology. Nol. 14, 1941, pp. 311-36.

- Sears, F. S. "Doll Play Aggression in Normal Young Children: Influence of Sex, Age, Sibling Status, Father's Absence", Psychological Monographs. Vol. 65, No. 42, 1951.
- Sears, P. and Sherman, V. S. In Pursuit of Self-Esteem. Belmont, California: Wadsworth Pub. Co. Inc., 1964.
- Sears, R. R.; Maccoby, E. E.; and Levin, H. Patterns of Child Rearing. Evanston, Illinois; Row, Peterson, 1957.
- Sells, S. B. An interactionist looks at the environment. American Psychologist, 1963, 18, 696-702.
- Sells, S. B. Ecology and the science of psychology. <u>Multivariate</u> <u>Behavioural Research</u>. 1966, 1, 131-144.
- Sharma, Sagar, "Self Concept and Adjustment", Indian Psychological Review, 1970, Vol. 6, No. 2, 71-76.
- Shaw, M. G. "Need Achievement Scales as predictor of academic success". Journal of Educational Psychology. Vol. 52, 1961, pp. 282-285.
- Siller, J. "Socio-economic status and perceptual thinking". Journal of Abnormal Social Psychology. Vol. 55, 1957, pp. 365-371.
- Simpson, H. "Parent Preferences of Young Children" Teachers College of Columbia University Contributions to Education, 1935, No. 652.
- Sivertsen, D. "Goal Setting, Level of Aspriation, and Social Norms." Acta Psychogia. Vol. 13, 1957, pp. 54-60.
- Skinner, B. F. Beyond Freedom and Dignity. (Society and Education). New York: Alfred A. Knopp, 1971.
- Smith, D. M. "Adolescence: A Study of Stereotyping". Sociological Review. Vol. 18, No. 2, July, 1970, pp. 197-212.
- Smith, W. O. Lester Education An Introductory Survey. Hamondsworth, Middlesex: Penguin Books Ltd., 1964.
- Smith, J. T.; Ruter, M. D.; Lackner, F. M.; and Nwall, D. S. "Academic, Sociometric, and Permonality variables in the Prediction of Elementary School Achievement". APA. Vol. 22, No. 7, 1967, p.546.
- Snyder, W. "Do Teachers Cause Maladjustment?" Journal of Exceptional Children. Vol. 14: 40-46, 1947.

Snygg, D.; and Combs, A. W. Individual Behavior. New York: Harper and Row, Pub., 1949, p. 15.

- Soar, R. S. "Optimum Teacher-Pupil Interaction for Pupil Growth". Educational Leadership Research Supplement. Vol. 2, No. 3, Dec. 1968, pp. 275-280.
- Sontag, L. W.; Baker, C. T.; and Nelson, V. L. "Mental Growth and Personality Development". A Longitudinal Study. Monographs of the Society for Research in Child Development. Vol. 23, No. 2, 1958.
- Spiro, M. Children of the Kibbutz. Cambridge, Mass.: Harvard Univ. Press, 1950.

Stanley, J. C. "Interaction of organisms with experimental variables as a key to the integration of organismic and variable-manipulating research". In E. M. Huddleston (Ed.) <u>17th Yearbook of</u> the National Council on Measurement in Education., 1960.

Steineo, J. W. "The Self-picture as a factor in the classroom". British Journal of Educational Psychology. Vol. 28, 1958, p. 97-111.

Stephenson, R. M. "Stratification, Education and Occupational Orientation". British Journal of Sociology, 9, 1958, pp. 42-50.

Stinchoombe, A. Rebellion in a High School. Chicago: Quadrangle, 1964.

Straus, M. A. and Nelson, J. I. <u>Sociological Analysis</u> - An Emperical Approach Through Replication, New York: Harper and Row Publishers, = 1968.

Street, P., Powell, J. H., Hamblem, "Achievement of Students and Size of School", <u>Journal of Educational Research</u>, Vol. 55, 1962, pp. 261-65.

Strodtbeck, F. L. Family Interaction, Values and Achievement, Princeton, N. J.; D. Van Nostrand Co. Inc. 1959, pp. 259-266,

Stronmen, M. P. and Gupta, R. K. Youth Research Survey. Minnesota: Youth Research Centre Pub., Minn.: 1971.

Sulliven, H.S. Conceptions of Modern Psychiatry, Washington, D.C.: Willism Alanson White Psychiatric Foundation, 1947.

Winehart, J. "Socio-Economic Levels, Stratus Ampiration and Maternal Role." American Sociological Naview. Vol. 29, 1963, pp. 391-399. Thistlethwaite, D. L.; and Wheeler, N. "Effects of Teacher and Peer Subcultures upon student Aspirations", Journal of Educational Psychology, Vol. 57, 1966, pp. 35-47.

Thorndike, E. L. An Experimental Study of Rewards. <u>Teacher's College</u> Contr. Education, No. 580, 1933.

Thorndike, E. L. "Reward and Punishment in Animal Leaning". Comparative Psychological Monogram, Vol. 8, No. 39, 1932 (a).

Thorndike, E. L. Human Learning. New York: Appleton-Century-Crofts, 1931.

Thorndike, E. L. The Fundamentals of Learning. New York: Teachers College, 1932 (b).

Thorndike, E. L. Educational Psychology, Vol. II, The Psychology of Learning. Teachers' College, Columbia University, 1913.

Thornton, D. A., and Arrowood, J. A. "Self-evaluation, self enhancement and focus of social comparison." Journal of Experimental Social Psychology; 1 (Sept) 1966; pp. 40-48.

Thurston, J. R.; and Brunclik, H. L. "The relationship of personality to achievement in nursing education". <u>American Psychologist</u> (APA), Vol. 19, 7, p. 461, July, 1964.

Torrance, E. P. and Strom, R. D. Mental Health and Achievement New York: John Wiley and Sons, Inc., 1965, p. 253.

Torrance, E. P. Guiding Creative Talent. Englewood Cliffs, N.J. Prentice Hall Inc., 1962.

Torrance, E. P. "Problem-Solving Attitudes and Self-Concepts of Beginning Jr. High School Students", <u>Guidance Journal</u>, Vol. 4, 1966, pp. 74-86.

Torrance, E. P. "Academic Achievement as a Factor in Emptional Adjustment in the Secondary School". The High School Journal. Vol. 51, April, 1968, pp. 281-287.

Towle, C. Common Human Needs. New York, 1953.

Tyler, Ralph U. "Assessing Educational Achievement in the Affective Domain", National Council on Measurement in Education. Vol. 4, No. 3, Spring, 1973, (pp. 1-6). Uhlinger, C. A.; and Stephens, M. W. "Relation of Achievement Motivation to Academic Achievement in Students of Superior Ability". Journal of Educational Psychology, Vol. Ll, 1960, pp. 259-266.

U.S. Bureau of the Census, Methodology and Scoring of Socio-Economic Status, working Paper Washington, D.C., 1963.

Veroff, J.; Feld, S.; and Gwin, G. "Achievement Motivation and Religious Background". American Sociological Review. Vol. 27, 1962, pp. 205-217.

Versteeg, A.; and Hall, R. "Levels of Aspiration, Achievement and Socio-cultural Differences in Preschool Children". The Journal of Genetic Psychology, Vol. 119, 1971, pp. 137-142.

Weber, M. The Protestant Ethic and Its Spirit of Capitalism. New York: Charles Scribner's (English Edition, 1920).

Weber, M. The Protestant Ethic (Translated by Talcott Parson) New York: Scribner, 1930.

Wechsler, J., D. "Improving the Self Concepts of Academic Underachievers through Materal Group Counselling". <u>California Journal of</u> Educational Research. Vol. 22, No. 3, May, 1971, pp. 96-103.

Weigert, A. J. and Darwin, L. T. "Socialization and Religiosity: A Cross National Analysis of Catholic Adolescents. Sociometry. Vol. 33, No. 3, Sept., 1970, pp. 305-326.

Weissman, P. "Special problems of creative personalities in family relations". Is real Annals of Psychiatry and Related Disciplines. 1969, April, Vol. 7, (1), 1-8.

White, L. A. Yearbook of Education, 1950, Section VI. London: Evans Brothers.

Whithall, J. and Lewis, W. W. "Social Interaction in the Classroom", in N. L. Gage ed. <u>Handbook of Research on Teaching</u>, Chicago, Rand McNally, 1963.

Williams, R. L. and Cole, S. "Self-boncept and School Adjustment". Personnel and Guidance Journal. Vol. 46, 1968, pp. 478-481.

Wilson, Stephen R. "Choice of a Comparison Other as a Function of Self-Esteem and Comparison Situation". 1969 (Unpublished paper) Wilson, S. R. and Benner, L. A. The Effects of Sela-Esteem and Situation Upon Comparison Choices During Ability Evaluation. Sociemetry. 1971, Vol. 34, No. 3, 381-397.

Winer, B.J. Statistical Principles in Experimental Design, New York, McGraw, Hill Book Co., (2nd ed.), 1971.

Worseley, P. M. "Authority and the Young". New Society. Vol. 6, No. 147, 1965, pp. 10-13.

Wylie, R. C. "The Self Concept: A critical Survey of Pertinent Research". Lincoln: University of Nebraska Press, 1961.

Yarrow, M. R. and Campbell, J. D. "Person Perception in Children". Readings in Research in Developmental Psychology. 9, 1963, pp. 57-72.

Zigler, E. and Kanzer, P. "The Effectiveness of Two Classes of Verbal Reinforcers on the Performance of Middle and Lower Class Children". Journal of Personality. Vol. 30, 1962, pp. 157-163.

Zolberg, A. R. "Youth as a Political Phenomenon in Tropical Africa". Youth and Society. Vol. 1, No. 2, Dec., 1969, pp. 199-218.



RESULTS OF A PILOT STUDY REGARDING SPA.

#### Results of a Pilot-Study Regarding SPA

The validity of the psychological concept of "Self Perceived Achievement" (SPA) as hypothesized in this research could be open to some questions. One could think, for example, that SPA is not different from actual grades or achievement. A pilot study was, therefore, undertaken on this point.

A 20-item questionnaire (attached) was constructed in consultation with the members of the researcher's Ph.D. committee. It was administered to 175 high school students aged 15-18 years in the Edmonton Separate and Public School Boards (in Alberta, Canada) in November 1972.

The respondents' Grade Point Averages (GPA's) were obtained from the school records.

The correlation between the GPAs (actual academic achievement) and the responses to the SPA item (included as #8 in the present Questionnaire) was found to be .432, showing less than eighteen percent common variance or overlap between the two variables. This was interpreted as sufficient evidence in favour of the concept, of SPA as used in this study.

The pilot study was also extended for establishing the reliability of the responses to the SPA item. For this purpose, the questionnaire was readministered to over 102 of the original 175 respondents in one school after a week's interval. The test-retest reliability (correlation) of SPA was found to be 74. This was accepted as being respectable enough specially considering the fact of there being a single item. 211a

, Г. <b>Г</b> .					· · · · · · · · · · · · · · · · · · ·
					, 212
. і				N = 175	-
	,				
•					
X	· · · · · · · · · · · · · · · · · · ·	MEDIUM	╵┼╌╋╎┝┽┾┽┝┿┽╇		
5					
			╡ <b>╃╏┿╎┿╎┿╎┿╎┿╎┿</b> ╡ <b>╃╏</b> ╇╎┿╎┿╎┿╎┿╎┿╎		
					┝╪╪╪┿┽╡╄╎╴┝
4					
			-28		
5	•				
SPA		-1-30			
2					
		······································	┼╋┽┼┽┼┾┽┿┾┾┾┿	┝┥┽┼┽┼┼┼┼	
<u>م</u>		•			
		-1 -3.		-1	
	1 2	3		5	
		SPA			
	PIGINE A.1			╷╷╴╷ ┶ <del>┍</del> ┿┿┿┝┿┽┍ <mark>╸</mark> ┿	



#### QUESTIONNAIRE

INSTRUCTIONS.	
---------------	--

1. Fill in your name, etc., on the separate answer sheet provided.

2. Select the best response to each item.

3. Answer all the items.

4. Use the pencils provided for blackening the correct spaces.

- 5. If you want to change your answer, erase properly before filling in the correct answer.
- 6. Return the separate answer sheet along with the questionnaire when completed.

1. How confident do you feel about your ability to do High School work?

2-

- A. Very Much
- B. Quite a Bit
- C. Very Little
- D. Not at all

2. How seriously do you take your studies at school?

A. Very Much B. Quite a Bit C. Very Little D. Not at all

3. How friendly 'are your classmates with you?

A. Very Much B. Quite a Bit C. Very Little D. Not at all

How satisfied are you with the grades you got during the past six months to one year in relation to what you actually expected?

A. Very Much B. Quite a Bit C. Very Little D. Not at all

- A. All the time
- B. Most times
- C. Few times
- D. Never

6. If you worked harder do you think it would raise your grade?

- A. Yes
- B. No
- 7. If you had a choice would you attend a different school?
  - A. Yes B. No
- 8. Which of the following best describes the kind of grades or marks you get at school?
  - A. Excellent grades
  - B. Above Average grades
  - C. Average grades
  - D. Below Average grades
  - E. Very Low grades
- 9. How different are your interests from those of your age-group in your class?
  - A. Not at all
  - B. Very little
  - C. Quite a bit
  - D. Very much
- 10. Whom do you consider most suitable to supervise your classroom discipline?
  - A. Student Union Class Representative
  - B. Class Teacher
  - C. Teacher Supervisor
  - D. Principal

11. How much help do you get at home in doing your school assignment?

- A. Very much
- B. Quite a Bit
- C. Very Little
- D. Not at all

12. How often do your parents/guardians call at the school to discuss your progress with you teachers?  $\Lambda$ . Not at all H. Rarely C. Often 13. If a classmate hurts your feelings, to whom would you like to complain? A. Parents/Guardians B, Other classmates C. Teachers D. Principal 3. W. 14. Do your classmates think that you work hard? Yes A, В. No 15. Do your classmates think that you are a high achiever? A. Yes B. No. 16. Is it possible for you to work harder to raise your grade? A. Yes ١ ...... B. No How often do your classmates seek your help in doing their school 17. assignments? Α. Very much Quite a bit В. C. Very little D. Not at all 18. How often do you visit the homes of your classmates? C• Very often Α. Quite a bit ₿, C. Very little D. Not at all. 1 Do your parents/guardians attend your school parties and sports? 19. ΄ λ. Very often B. Quite a bit C, Very little D. Not at all.

20. If you intend to celebrate your birthday, how many persons from your own class would you like to invite?

- A, None
- B. 1-3
- C. 4-6
- D. Over 6.
- •,

.

.

.

×

**`**>

# (QUESTIONNAIRE FOR THE 28 VARIABLES)

THE INSTRUMENT

APPENDIX B

FACULTY OF EDUCATION UPPARTMENT OF EDUCATIONAL PEYCHOLOGY TRLEPHONE (403) 434-8348



THE UNIVERSITY OF ALBERTA EDMONTON 7 CANADA

June 5, 1973

Dr. M. P. Strommen, 122 West Franklyn Avenue, Minneapolis, Minnesota, 55404, U. S. A.

and

Dr. R. K. Gupta, Department of Educational Psychology, University of Alberta, Edmonton, CANADA.

Dear Sir(s),

May I seek your express permission as co-authors of the Youth Research Centre Survey (1971), to include certain parts of the Questionnaire in my Ph.D. Dissertation.

My present research entitled, "Non-Cognitive Variables and Self-Perceived Achievement" is based on certain selected items from the questionnaire. I am very grateful to you for making this instrument available to me for my research.

Yours sincerely,



IB\*gjm

122 WEST FRANKLIN AVENUE · MINNEAPOLIS, MINNESOTA 55404 · PHONE, 612-339-2775

June 7, 1973

Mr. Clifford I. Berepiki The University of Alberta Edmonton 7, Canada

Dear Mr. Berepiki:

This is to grant you the permission of Youth Research Center to use items from the Youth Research Survey (1971) in your doctoral dissertation.

I do request that you please specify those portions of the Survey which will be used and also that you send a copy of your dissertation when it is finished.

May you have an interesting time as you get further into your research.

Sincerely,

Milo L. Brekke Vice President, Research

M.B:nko'b

cc: Dr. R. K. Gupta

#### EXECUTIVE STAFF

METCHI & STROMMEN, Phy D

Man President, Research

The President, Numer Resident

Control & Zingelle, Ph. D. C. .

#### THE INSTRUMENT

QUESTIONNAIRE FOR THE 28 VARIABLES

### Variable 1 (Scale #1)

Choice of Responses to questions 1 - 19.

N - Never Bothered, NL - No Longer Bothered,

V - Very Much Bothered, Q - Quite a Bit Bothered,

S - Somewhat Bothered; L - Very Little Bothered.

		I am bothered by the fact that	•
	1	(21) We are not close as members of a family	•
ţ.		(31) We need a greater feeling of love in our family	
		(39) There are not enough social activities in my home	
,		(48) My family is not as happy as I wish it were	
	5	(67) The members of my family are not considerate of each other	
	6	(74) My father and mother do not get along as they should	
		(84) My father is not as interested in me as I would like	
•	8 .	(91) I do not understand my parents,	
		(97) My wother is not as interested in me as I would like	
		102) We do not do things together as a family	

Variable 2 (Scale #2)

11 (22) My parents seem to have forgotten how it feels to be young.... 12 (32) It is hard to discuss my problems with my mother.... 13 (40) My parents (mother or father) hag me....

#### Variable 4 (Scale #4)

Choice of responses to question 27.

N - Never Bothered; NL - No Longer Bothered;

V - Very Much Bothered; Q - Quite a Bit, Bothered

S - Somewhat Bothered; L - Very Little Bothered.

I am bothered by the fact that

27 (86) I fall in love too easily .....

Choice of responses to questions 28 - 33.

N (Never) - I do not remember ever wondering about this.

NI. (No Longer) - I used to think about this sometimes, but 1 haven't thought it at all lately.

V (Very Much) - I probably spend some time almost every day thinking about this.

S (Somewhat) - I think about this sometimes, but not as much as "quite often".

L (Very Little) - I think about this once in a while, but

not very often,

I wonder about

31 (130) Whether my sexual desires are normal .....

32 (132) Whether I will find a life partner .....

33 (133) Whether I can find a life partner who feels the way I do about things that are right or wrong .....

Variable 5 (Scale #5)

Choice of responses to questions '34 - 39,

N - Never Bothered; NL - No Longer Bothered

 $V \stackrel{\sim}{\rightarrow} Very Much Bothered; 0 \sim Quite a Bit Bothered `$ 

S - Somewhat Bothered; L - Very Little Bothered.

14	am	bothered by	the	fact	that	
----	----	-------------	-----	------	------	--

34	(23)	I am easily carried away by my emotions
		I worry about little things
		I am too anxious to please others
		I lack confidence when reciting in the class
38	(52)	I am afraid of failure or humiliation
		I lack the personality and the ability to be a leader in
		a group
40	(61)	I am afraid of making mistakes

41 (78) My feelings are easily hurt

Variable 6 (Scale #6)

42	(25)	I have little interest in school studies
		I do not take my studies seriously enough
		I don't know how to study well
		I feel that I am not as smart as others of my age

'46 (70) There are those who are smarter than I am and get better	
grades	
47 (98) I have difficulty keeping my mind on my studies	•
48 (106) I am not satisfied with the grades I get	~
49 (123) I daydream too much	× •
Choice of responses to question 50.	I
N (Never) - I don't remember ever wondering about this.	
NL (No Longer) - I used to think about this sometimes, but	
I haven't thought about it at all lately.	. *
V (Very Much) $\rightarrow$ I probably spend, some time almost every day	
thinking about this.	<u>.</u>
R'(Quite a Bit) - I probably don & think about this every	1.
day, but I think about it quite often.	1
S (Somewhat) - I think about this sometimes, but not as much	
as 'quite often',	,
L (Very Little) - I think about this once in a while, but not	
very often,	,
I wonder about	
50 (131) Whether I have the ability to do college work	
Variable 7 (Scale #7)	, ·
• Choice of responses to questions 51-61.	•
N - Never Bothered; NL - No Longer Bothered;	2 - 16 - 1
V - Very Much Bothered; Q - Quite a Bit Bothered;	
S - Somewhat Bothered; L - Very Little Bothered,	in de la constante la constante de la constante de la constante de la constante de
	· · · ·

						, · ·
				<b>-1</b> .	¢	•
	· •	<ul> <li></li> </ul>	•	12	١.	226
		•	· · · · · · · · · · · · · · · · · · ·		·	
	,	I am bothered	d by the fact that			
	51 (43)		enough to help others			_1
•	572 (57)		orgive myself for thind			• • (
	53 (65)	I cannot ke	ep away from thinking	thoughts T feel	* * * * * * * * * * *	
	•	shouldn't h	•		<b>.</b>	
, `	54 (73)	I cannot li	ve up to the standards	T have onto	******	
	55 (104)	I, don't, know	w how girls (or boys)	Abiele	myself	· *•
	56 (110)	I am often -	jealous of my friends	CILLIR	6 * * * * * * * *	•
<b>*</b>	57 (117)	It seems that	at I can never do anyt	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •	· · ·
•	58 (119)	I often feel	sorry for month	aing right		•
	59 (120)	I do not kno	sorry for myself		••••••	•
•	60 (121)	T am sometim	w what to do when some	one makes fun of	others .	•
			es so conscious of my	faults that I en	ijġ	`
۲		nothing	,,		*****	,
	· .	I am unsure o		* * * * * * * * * * * * * * * * * *	····	
			onses to question 62.		13	~
	N	(Never) - Id	ion't remember ever wor	dering about th	is,	
	NL	(No Longer)	- I used to think about	t this sometimes	, but I	•
•			haven't thought about	t it at all late	ely.	<b>,</b>
•	· V	(Very Much) -	I probably spend some	time almost eve	ry day	·
•	•		thinking about this.		, ,	
•	Q (	Quite a Bit)	- I/probably don't th	ink about this e	Verv day	
	*		but I think about it			
	S (	Somewhat) - I	think about this some	times, but not a		
н 1 1			s "quite often".		<del>рик</del> аз <del>дибие</del> А я	
	τſ		- I think about this c			
		1		AII & WILLE,	Dut not	R II
	2	• · · · · · · · · · · · · · · · · · · ·			e Spin	

very often.

I wonder about .....

62 (127) Why I behave as I do,

#### Variable 8 (Scale #8)

Choice of responses to questions 63-88.

N - Never Bothered; NL - No Longer Bothered

V - Very much Bothered; Q - Quite a Bit Bothered

S - Somewhat Bothered; L - Very Little Bothered

I am bothered by the fact that .....

•	63	(27)	Classmates at school could be more friendly
	64	(36)	There are cliques (closed groups) in my school
1	65	(46)	Some classmates are inconsiderate of my feelings
(	66	(60)	I do not know what a boy (or girl) expects when on a date
(	67	(64)	Outside of my family there is no group where I feel I
			really belong

68 (71) Some teachers are sarcastic and critical of what I do .....

69 (72) In a group I often act differently from what I really am,...

70 (77) There are not enough opportunities to be with a mixed group

(boys and girls) in social activities .....

71 (79) Some of my teachers are not interested in me ......

72 (80) My interests are often different from those of others of ...

my age

73 (99) Some of my teachers do not understand me

74 (100) I do not easily get along with others

75 (107) I feel pressure at school to do what others d

228

#### Variable 9 (Scale #9)

- 78 (28) Our national government often seems unresponsive to the needs , of people .....
- 79 (30), Pollution of our air and water threatens to destroy all human life
- 80 (37) Some of the state laws now being enforced are unjust.....
- 81 (47) Friends of mine, who don't believe in war, are being forced to enter the military service
- 82 (56) Our world may be destroyed by a nuclear war
- 83 (81) Peace among nations seems impossible .....
- 84 (83) Revolution and violence may destroy our country soon .....
- 85 (94) The ideals of the Constitution are far from the realities of America today
- 86 (109) Some people want to destroy the government because they find things to criticize
- 87 (113) There is so much violence and crime today
- 88 (116) Wars seems to prim useless butchery .....

#### Variable 10 (Scale #12)

- Choice to responses to questions 89-95,
- Strongly Agree Agree Not Sure Disagree Strongly Disagree

* 89 (224) N	ly concerns focus more on my own needs than on the needs
, c	of others
<sup>a</sup> 90 (230) I	am not sure enough of my beliefs to answer when someone
	hallenges my conviction
. 91 (234) I	frequently feel torn between conflicting values, beliefs,
a	nd desires
92 (235) W	hat I think of myself is strongly influenced by what my
f	riends and others tell me
93 (236) A	girlfriend/boyfriend could convince to do something
	hich I believe to be wrong
94 (238) My	evaluation of current issues is usually influenced more
by	own judgment than by the opinions of others
95 (240) My	friend could not persuade me to do something which I
, be	lieve to be wrong
Variable 11	(Scale #13)
, choi	ce of responses to questions 96-106.
be Variable 11	(Scale #13)

Strongly Agree Agree Disagree Strongly Drawnee 96 (161) The student should have more to say about wet is tau in my high school

SD

97 (162) Courses in school de pet apply to the world I know 98 (163) America needs stricter law enforcement

99 (164) A citizen should have the right to decide in which wars i he will fight

100 (165) As long as you love the other person, sexual intercourse	
before marriage is okay	
101 (166) All war is basically wrong	·
102 (167) It is wrong to date a person of another race	
103 (169) Every young man should be willing to serve in the	
armed forces.	
104 (171) The protests of college students are a healthy sign	
for America	
105 (172) Every person has a right to free medical care if he needs	
it but cannot afford it	
106 (174) Every person has a right to adequate housing even if	
he cannot afford it	
•	
Variable 12 (Scale #14)	
Choice of responses to questions 107-116.	
SA AN D SD	
Strongly Agree Agree Not Sure Disagree Strongly Disagree	
107 (221) When a person wrongs his fellowman, he sins against God	
108 (222) I have found a way of life that gives me direction	r
109 (223) Persons who practise wise restraint and self control are	
to be admired	¢.
110 (225) The kind of moral decisions I make now will affect my	
future happiness	~
111 (226) My beliefs and values are still very much influenced by	1 1
what I was taught when younger	•

2 **1** 

,

112 (227) God helps are decide what is right or wrong behaviour..... 113 (229) I want to be the kind of person who helps people..... 114 (231) What is right or wrong is only one man's opinion..... 115 (233) It is no one else's business if someone wants to do what

harms him

116 (239) My understanding of myself is strongly influenced by

experiences and feelings I had when I was much younger.....

#### Variable 13 (Scale #15)

Choice of responses to questions 117-133.

- Read through the whole list carefully. (i)
- Mark "E" against five you decide to be of "EXTREME IMPORTANCE". (ii)
- Mark "L" against five you decide to be of "LEAST IMPORTANCE". (iii)
- From the remaining, mark "Q" against those five you decide (iv)to be of "QUITE IMPORTANCE".
- Finally, mark "S" against the five you decide to have (v) "SOME IMPORTANCE" to you.

117 (241) ADVENTURE (exploration, risks, danger)

SERVICE (devotion to the interests of others) ..... . 118 (242) RECOGNITION (being important, being well-liked) ...... 119 (243) 120 (244) ETHICAL LIFE (responsible living toward others)..... MEANINGFUL WORK (sense of purpose; a job that is relevant). 121 (245) WISDOM (mature, understanding, insight) ..... 122 (246) PLEASURE (excitement, satisfaction, fun)..... 123 (247) 124 (248)

HONESTY (being frank and genuinaly yourself with everyons).

125 (249) PERSONAL FREEDOM (independence, making own choice)..... MONEY (plenty of money for things I want)..... 126 (250) PERSONAL POWER (having influence and authority over others). 127 (251) RELIGION (religious belief, relationship with God, 128 (252) 121 meaningful life)..... LOVE (warmth, caring, giving and receiving of love)..... 129 (253) PHYSICAL APPEARANCE (attractiveness) 130 (254) 131 (258) SKILL (being good at doing something important to me)..... FORGIVENESS (being willing to pardon others) 1.32 (259) FAMILY HAPPINESS (mutual caring among family members)..... 133 (260)

### Variable 14 (Scale #18)

Choice of responses to questions 134-146.

Yes - I feel this way usually.

No - I do not feel this way usually.

Sometimes - I feel this way sometimes.

134	.(1)	On the whole, I am satisfied with myself	•
		I feel that I have a number of good qualities	
		I am as capable as the next person of my age	
		I feel I do not have much to be proud of	
		I feel a sense of purpose in my life	-
		I tend to be a lonely person	Ś
		I feel that my future is in good hands	R
		I feel I am worth something as a person.	
		I wish I had more respect for myself.	•

Variable 15 (Scale #19)

Choice of responses to questions 147-149"

"Agree" - If the statement describes you or what you think. "Disagree" - If the statement <u>does not</u> describe you or what you "?" - If you are not sure.

147 (264) Jews are more likely than Christians to cheat in business..

148 (266) I wouldn't mind having a person of another race for a next door neighbour

149 (270) Because Jews are not bound by Christian ethics, they do

things to get ahead that Christians generally would not do.

Choice of responses to question 150

Yes - This statement seems true of my family.

No - This statement does not seem true of my family.

? - I can't decide.

My impression is that ......

150 (333) My family would support neighbourhood efforts to keep.

Choice of responses to question 151-157.

Yes - If you balieve the statement.

out persons of other races

- If you are not sure.

No - If you don't.

	•
151 (392)	Mental illness is a sign of God's displeasure over
	ærtain sins
152 (396)	People in enemy countries should suffer as they have
	made others suffer
153 (399)	I believe that excluding black (or racial groups) from
	church activities would be justified in some communities
154 (405)	Persons of other nationalities and religions should be
	kept out of our country
155 (406)	No punishment is too severe for those persons quilty of sex
	killings
156 (410)	Science opposed to Christianity
157 (412)	The church should not send food to communist people
Cho	ice of responses to question 158.
Yes	- This is true of me.
NO	- This is not true of me.
?	- I am not sure.
158 (418)	There are some non-church activities from which I could

justifiably exclude certain people because of their race,...

## Variable 16 (Scale #22)

Choice of responses to questions 159-168.

Yes - This statement agens true of my youth group.

No - This statement does not seem true of youth group.

' - I can't decide.

My impression is that .....

•	
159、(321)	Our youth group is fun to be with
160 (322)	Members of our group are at ease in praying together
•	and sharing their faith
161 (323)	
162 (324)	There is a spirit of togetherness among us
163 (325)	
164 (326)	Part of our youth programme is devoted to service to
	others
165 (327)	It is easy to share and discuss my personal problems when
	together with youth of our congregation
166 (328)	Youth in my church participate actively in the life of
	the congregation
167 (329)	Boys are involved as much as girls in programmes and
43 · · ·	leadership
168 (330)	Our youth group is interested in discussing how the
	(brinking she la

()

Christian should relate to civil rights, war, hunger, etc..

## Variable 17 (Scale #23)

Choice of responses to question 169-179.

ß

Yes - This statement seems to be true of my church.

. No - This statement does not seen true of my church.

? - I can't decide,

My impression is that

169 (305) Most adults in my congregation are cohosined about such

169 (305)	world problems as starvation, poverty, war
170 (306)	When I attend worship services I am among friends
171 (307)	Our congregation is seeking ways to respond more meaningfully
	to human needs
172 (309)	I would like to follow the example of my congregation in its
· ·	stand on social problems
173 (310)	My church is trying to help families improve parent-child
	relationships
174 (312)	Many of the members' seem to care a lot for each other
175 (313)	My church looks for ways to bring young people and adult
	members together to share points of view
176 (314)	People who are quite different (richer, poorer, another
	race, differences in dress and hair) will be welcome in
•	our church
177 (317)	
	meeting of my church
178 (318)	Most adults in my congregation would be able to tell you
	what the purpose of our church is
Î79 (320)	My church seems interested in my age group

## Variable 18 (Scale 24)

Choice of responses to questions 180-187.

Yes - This statement seems true of my family.

No - This statement does not seem true of my family.

- I can't decide.

My impression is that .....

180 (331) My family seldom does anything about helping meet social problems

181 (332) I am free to invite persons of other races into our home.....

- 182 (334) My parents are quite well informed about what is happening in their community and the world

social issues .....

sharing with others .....

BIOGRAPHICAL AND DEMOGRAPHIC VARIABLES

Variable 19 (Sex - Personal Data)

Mark 'M' or 'F' to indicate Male or Female.

Variable 20 (Age - Personal).

Mark the space under your present Age.

## Variable 21. (Socio-Economic Status of Parents - Item #195)

The occupation of the main wage earner in my family is.....

A. Profession (doctor, lawyer, teacher, minister, or other professional position); B. Farmer, C. Sales, White collar, business; D. Skilled, unskilled manual work; E. Service work (barber, waiter); F. None of these.

### Variable 22. (Religiosity - Item #190)

During the past six months I have gone toy church, synagogue or

temple (or mosque)

A. Several times a week;

B. About once a week;

C. About every other week;

D. About an average of once a month;

E. Rarely;

ſ

F. Not at all.

## Variable 23. (Religious Affiliation - Personal Data).

Mark that number in the correct space provided on the answer sheet.

1.	Baptist .	5.	Presbyterian	9,	Roman Catholic
, 2,	Epișcopal	6.	United Church of Canada	10.	Jewish
<b>3</b> .	Lutheran	7.	United Church of Christ	п.	Other "
4.	Methodist	8.	Orthodox	12.	I do not attend

N N	Choice of responses:	$\sim$
	A. 8 grades or less;	
	B. Some vocational or high school graduate;	
	C. Some college or university work;	<b>~</b> .
-	D. Oollege or university graduate;	
·	E. Some graduate training.	· )
	(a) How much education has your father (or male guardian) ha	iđ?
•		ſ
	(b) How much education has your mother (or female guardian)	had? 6
٠	••••••	ø
		,
Vari	able 25 (Drug including Alcohol, Usage - Item #198)	
Vari	able 25 (Drug including Alcohol, Usage - Item #198) Which statement best describes your use of drugs?	· · · · · · · · · · · · · · · · · · ·
Vari		· · · · · ·
Vari	Which statement best describes your use of drugs?	· · · · ·
Vari	Which statement best describes your use of drugs?	· · ·
Vari	Which statement best describes your use of drugs? A. I had not used drugs. B. I use pot (marijuana) occasionally.	
Vari	Which statement best describes your use of drugs? A. I had not used drugs. B. I use pot (marijuana) occasionally. C. I use pot frequently.	· · ·

### Variable 26 (Family Unit - Item #202)

My parents are separated (or divorced) .....

Yes/No

#### Variable 27 (Type of School Attending - Item #193)

What type of school do you attend?.....

A. Public

B. Religiously sponsored (parochial)

C. Private

D. Vocational or technical

E. Other

#### Variable 28 (Size of Family - Item #214)

I have three or more brothers or sisters ...... Yes/No

### SELF PERCEIVED ACHIEVEMENT (SPA) VARIABLE (YRS #189)

"Which of the following best describes the kind of grades or

marks you get at school?"

A. Excellent grades

B. Above Average grades

C. Average grades

D. Below average grades

E. Very low grades.