TEACHER ATTRIBUTES AND TEACHER EXPECTATIONS

CENTRE FOR NEWFOUNDLAND STUDIES

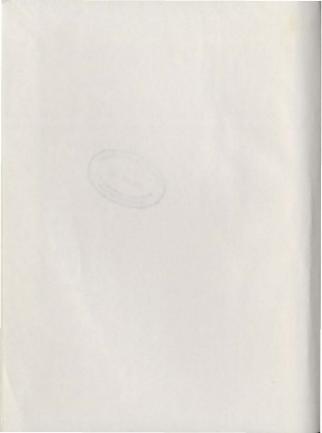
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Ottawa, Canada K1A 0N4 TEACHER ATTRIBUTES AND TEACHER EXPECTATIONS

A Thesis
Presented to

the Department of Educational Foundations
Memorial University of Newfoundland

In partial fulfillment
of the requirements for the degree.
Master of Education

' by

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ABSTRACT

An examination of expectancy research indicated that the relationship between teacher attributes and teacher expectations has not been extensively examined. This study analyzed a set of data to determine whether the expectations student-teachers formed for students were determined by any of the variables self-concept; locus of control, motivation, attitude towards teaching as a career, age, sex, teaching program or teaching experience.

The data was collected by Cliffon and Bakah (1978) by questionnairs on a stratified sample of 687 student-teachers at Memorial University over a two year period. The Methods of Analyses were Analysis of Covariance and t-test comparison of means.

The results were that the attitudinal variables did not have predictive value. The student expectation dimensions of IO, ultimate school achievement and self-concept were inversely related to teaching experience. Male student-teachers tended to hold higher expectations for the four dimensions, IO, social relations, school achievement and student self-contept. Female student-teachers perceived more positive parental attitudes towards school. Female student-teachers were more positively motivated towards teaching and more motivated generally. Primary and elementary student-teachers were more motivated towards teaching and hold more positive self-concepts than general or high school program student-teachers.

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CHAPTER I

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THE DEVELOPMENT OF THE STUDY

An examination of the research carried out in the area of teacher expectations reveals many studies concerned with determining sources of teacher expectations for students, how expectations are communicated to the students, and how they affect student achievement. Few studies, however, have examined the influence of teacher characteristics on teacher expectations. The present study involved an examination of data on a group of student-teachers in an attempt at determining the effect of various teacher attitudes and background characteristics on teacher expectations.

Before outlining the questions to be addressed in this study, it is appropriate to present a brief review of expectancy research.

The Self-fulfilling Prophecy

The fact that low teacher expectations impede student performance has been known for some time (Mackinnon, 1962; Katz, 1964). However, it was a study entitled <u>Pygmalion in the Classroom</u> by Rosenthal and Jacobson (1968) which generated the greatest interest in this area of concern in the classroom. Rosenthal and Jacobson had earlier greated the phenomenon known as the self-fulfilling prophecy in relation to

experimental expectations. They hypothesized that the experimenter perceives subjects in ways which imply expectations about their performance, and that those expectations are communicated to the subjects who respond to this knowledge and act in ways to confirm the expectations. They wondered if the self-fulfilling prophecy was active in education, and designed an experiment to test whether children from whom teachers expected greater intellectual growth would indeed achieve greater growth. A set of false data was given to a group of teachers describing certain previously low-achieving students as "late-bloomers". The researchers obtained preand post-test data on the students to determine whether greater achievement gains were actually made. Their findings were compatible with the concept of the self-fulfilling. prophecy. Freviously low-achieving students who were expected to achieve at a higher level did actually do so.

The initial responses to the study ranged from complete acceptance of the conclusions to rejection of the study because of technical weaknesses. Thorndike (1968) reviewed the study and claimed: "It is so defective technically that one can only regret that it ever got beyond the eyes of the original investigators" (p. 708). He claimed that the conclusions were not adequately supported by the data even though they may be true.

A number of researchers attempted to replicate the study. Some of those supported the self-fulfilling prophecy, hypothesis (Meichenbaum, Bowers & Ross, 1969; Mason, 1973; Mason & Larimore, 1974), while others did not (Claiborn, 1969;
- Dusek & O'Connell, 1973; Mendels & Flanders, 1973).

THE PERSON OF TH

Many researchers attempted to relate expectations to factual information. Knowledge of a student's past performance was concluded by Roeber (1970) to have a major influence on the expectations teachers form. Seaver (1973) hypothesized that a teacher's past experience with siblings would influence his expectations. He concluded that teachers formed expectations for students in relation to how well older siblings had done with that teacher. According to Adams and LaVoie (1974) student conduct ratings on report cards had a greaten influence on teacher expectations than student grades. Williams (1975) found that ability grouping, or tracking had a major influence on teacher expectations in that teachers expected more from high ability groups than from low-ability groups. This research suggested that teacher expectations are often formed on the basis of student conduct, or on some indication, often real, of the student's ability or past performance.

A large number of research projects searched for cues to teacher expectations in student characteristics. In the United States Williams and Whiteshead (1971) found that teachers hold lower expectations for black students. Pugh (1974) confirmed findings of Rubovits and Maehr (1973) that teachers judged abilities and behavior of white students as higher or more favorable than that of black students when students were matched on socioecopomic status. Harvey and

Slatin (1975) studied expectations of ninety-six teachers. They were given full length photographs of nine white and nine black students and asked to judge academic potential and socioeconomic status of each child. Regardless of perceived socioeconomic status, white students were more often expected by the teachers to egyceed. Rosenfield (1973) found that teachers evaluate students on the basis of ethnic and socioeconomic status cues transmitted through the audio and visual modes. Crowl and MacChintie (1974) discovered that teachers' evaluation of oral answers was influenced by the speech characteristics of the students. Cooper, Baron and Lowe (1975) found that middle class students are expected to achieve higher grades than low class students are expected

Several studies confirmed what had long been known in education, that student sex influences teacher expectations and teacher-student interaction. For example, Krupczak (1973) observed that teachers perceived girls as having more academic ability than boys even though intelligence tests showed no differences.

Clifford and Walster (1973) gave teachers report cards containing information on a hypothetical student with a child's photograph attached. The only difference in the report cards were the photographs, which had been selected from a large collection of school photographs after an independent rating by twenty educators as to degree of

physical attractiveness. The experimenters discovered that physical attractiveness of students had a significant relationship to the teachers' perceptions of their intelligence, how interested they were in school, and how popular they were with their peers.

The evidence was conclusive that teachers formed expectations for students on the basis of some perceived performance indicators and also on the basis of such student characteristics as ethnicity, socioeconomic status, verbal behavior, sex, and physical appearance. A number of researchers were concerned with how teachers transmit expectancy cues. Brophy and Good (1970, 1972) studied teacher behavior and discovered that teachers demanded higher levels. of performance from children for whom they held higher expectations. They were more likely to expect and accept poor performance from students for whom they had low expectations and gave less praise to those students when they did achieve. Cornbleth, David and Button (1974) concluded that the level of frequency of teacher-student interaction related significantly to student ratings by teachers. Richer (1974), after nine hours of classroom observation, concluded that, in teacher-centered classrooms, working class children received significantly less than their share of teacher interaction. Those findings confirm that teachers behave differently towards students in relation to the expectations they hold for those students. Teachers expect higher achievement from high-expectation students, pay more attention to

them, and give them more praise than they do students for whom they hold lower expectations.

Purpose of the Study

Clifton and Baksh (1978) collected data to determine the influences of various teacher attributes on the relationship between physical attractiveness and expectations. They were primarily interested in examining length of time a student-teacher has been in university as a mediating factor on the relationship. Their results confirmed the findings of the Clifford and Walster-(1973) study, that pupils! physical attractiveness has an important influence on student-teachers' expectations. They also found that physical attractiveness does not become less important with time spent in university. They concluded that expectations held for pupils are determined to some degree by teacher attributes and suggest that "the effects of teacher. attributes warrant further investigation" (Clifton and Baksh, 1978, p. 46). This present study will analyze the Clifton and Baksh (1978) data in order to investigate the following question: Are student-teacher expectations determined to a significant degree by any of the following: student-teacher self-concept, locus of control, motivation, age, sex, teaching program, or teaching experience?

The significance of this study lies in the belief that teachers' behavior flowing from low expectations for: students limits the amount of material a student will learn, stifles his/her motivation to learn, and alienates him/her from the teaching-learning situation.

Organization of the Study

Having presented a brief surmary of expectancy research and posed the question to which this study is directed, our mext chapter will present various student-teacher attributes within a conceptual framework, provide research evidence showing their significance for this study, and present hypotheses developed from that research.

Chapter III will describe the sample, and the content and administration of the questionnaire. It will also describe the instruments and explain the method of analysis.

A description of the data and a discussion of the results of the analysis will be presented in Chapter IV and the final chapter Will summarize and draw conclusions from the study.

y a

CONCEPTUAL FRAMEWORK AND RELATED LITERATURE

Although much educational research has been concerned with teacher attitudes, few investigators have questioned the relationship between teacher attitudes and expectations for students. Fleming and Anthonnen (1971) found that teacher attitudes to test scores affect their influence as determinants of teacher expectations. Braun (1976) quotes Pippett (1969) as suggesting that teacher supceptibility to influence is an influential factor. This chapter will present three major attitudinal variables within a theoretical framework and discuss research on them pertinent to the present study. Hypotheses developed from this research will be presented. The chapter will then present a brief review of research supporting the inclusion of other variables examined in this study, and develop hypotheses from that research.

Theoretical Framework

The dispositional approach to research on human behavior assumes subjects to vary in many ways. While it accepts that there are general principles of behavior, it assumes behavior to be caused by personal characteristics the individual brings to the situation (Blass, 1977). From these characteristics theorists have developed various

constructs, each of which has been shown to relate to large numbers of behaviors. According to perceptual theorists, behavior is determined by an individual's perceptions of self, perceptions of locus of control, and perceptions of goals. The major hypotheses of this apply are developed from those three perceptions which shall be referred to

Attitudinal Variables

Self-Concept

as attitudinal variables.

Snygg and Comba (1949) and Rogers (1951) developed a theory around the concept of a phenomenal, or conscious, self on the assumption that behavior has its cause within the individual rather than in the situation. They believed that "all behavior, without exception, is completely determined by and pertinent to the phenomenal field of the behaving organism" (Snygg and Combs, 1949, p. 15). The phenomenal field of an individual is the entire universe, including that individual, at any given time. The self develops out of this phenomenal field. Rogers (1951)

As a result of interaction with the environment and particularly as a result of evaluational interactions with others, the structure of self is formed—an organized, fluid, but consistent conceptual pattern of perceptions of characteristics and relationships of the "I" or "Me" together with values attached to those concepts (p. 498).

The self-concept is a dimension of this self and "may be thought of as an organized configuration of perceptions of the self which are admissible to awareness" (Rogers, 1951, p. 136). Rogers maintained that the best source of information on this self-concept is the individual, whose description of it can usually be assumed to be accurate.

Much of the self-concept research has thus seen self-concept to be measurable by descriptions supplied by the individual.

The variable, self-concept, has been employed extensively in the past but this review is concerned only with studies which may support its use as a predictor of teacher expectations. Teachers who are accepting of others affect tolerant towards individual differences are less likely to be influenced in the expectations they form by individual differences in their students. Wylie (1961) reviewed twenty-one studies relating self-acceptance to acceptance of others and concluded that "on the whole, the evidence supports the hypothesired association between self-acceptance (or high self regard) and acceptance of others (or high regard for others) "(p. 240). "Amamoto and Wiersma (1967), found a high and significant relationship between self-cestess and tolerance of individual differences."

Teachers who are susceptible to persuasion are more likely to base expectations on external factors rather than their own judgments. Student characteristics, community walves, and other teachers have a persuasive influence on teachers and thus influence expectations. Therefore, a teacher's level of susceptibility to persuasion may have a mediating influence on the strength of physical attractiveness as a source of expectations. Wylie (1961), in a summary of the research, concluded that there may be an inverse relationship between self-regard measures and persuasibility measures. The evidence was not conclusive because of the number of different measures and designs. Zeliner (1970) found a significant inverse relationship between self-regard and susceptibility to social influence.

Teachers who bring about a high layel of student achievement may do so because they hold higher expectations for their students; such teachers may not be influenced by factors such as physical appearance. The relationship between level of self-regard and effective, teaching was shown by Garvey (1958) and Hatfield (1961) to be significant. Krouner (1971) concluded that teachers who have high self-regard are more accepting of innovation in the classroom, appear to be more spontaneous, and are better able to react warmly with others. The fact that self-concept, under a number of names, has been related to effective teaching permits the suggestion that it may be partly through its influence on expectations that it is so related.

A major proposition of perceptual field theory of personality states: "The organism reacts to the field as it is experienced and perceived" (Rogers, 1951, p. 484). Whatever a person thinks is true is reality for that person and will determine his behavior. If a person perceives events in his life to be under the control of forces outside his influence, he will behave in relation to this percention.

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Phares (1957) first studied perception of control as a psychological variable. He developed a bixert-type scale to measure differences in perception of internal and external control as predictors of behavior in task situations. Rotter, Chance and Phares (1972) described the locus of control construct. In ideal terms, a person with an internal locus of control saw the outcome of his behavior as causally related to the skills, efforts and characteristics he brought to the situation. A person with an external locus of control saw behavioral outcomes as dependent, not on his skills, efforts, and personality, but on chance, fate, or the power of others.

Gore (1962) and Ritchie and Phares (1965) studied the significance of a locus of control measure as a determinant of susceptibility to persuasion. Lefcourt (1976) stated that those and many similar studies suggest that internal subjects are pet resistant to all influence but are very discriminating about what influences they will

specpt. Internal locus of control individuals respond positively to reasoned arguments, regardless of the sources, and change attitudes and behavior in relation to those arguments. Phares (1968) found that subjects with an internal locus of control made better use of information they perceived than did external subjects. Ducette and Wolk (1973) found that subjects with internal locus of control were quicket at perceiving information that allowed them to make accurate judgements.

The importance of perception of control as a possible predictor of teacher expectations is suggested by characteristics of people with a more internal belief. Strickland (1977), summing up a study of past research, concluded that people with an internal belief tend to maintain their own individual judgement in the face of contrasting evidence from external sources.

Motivation

A third major proposition of perceptual field theory of personality states: The organism has one hasic tendency and striving - to actualize, maintain, and enhance the experiencing organism. (Rogers, 1951, p.487). Rogers sees this striving as continually forward and all behavior as directed towards the goal of self-actualization. Here he is referring to the organism in the early stages of development. Children of all societies strive to learn to walk and to talk. However, when the self-emerces as a result of interaction with

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the environment, behavior has to be consistent with the celf. This beceasity differentiates individuals and societies on the strength of various motives. McClelland (1955) described the motive to achieve, or achievement motivation, as a pattern of planning and actions associated with striving for some kind of excellence.

Akkinson (1965) developed a theoretical treatment of achievement motivation which stressed the importance of both personal and situational factors in determining the effort put forth by an individual in any achievement situation. Bits model selects two situational factors as important in determining the strength of achievement motivation. The first is the individual's expectation of success or failure in the task at hand. The second is incentive value, the degree of importance the individual attaches to the achievement of a particular goal.

Research within this theoretical framework has been primarily in two areas: attempting to explain levelsor conomic development, and determining, the relationship of motivation to educational achiavement. The construct has not been extensively employed in explaining teacher behavior. However, research has determined that individuals with high levels of achievement motivation tend to display similar characteristics. Such individuals are interested in excellence for its own sake rather than for the reward it brings (atkinson's Reitman, 1956). They tend to make rational, independent judgements rather than he infiluenced by others'

opinions (Beckhausan, 1967). They are concerned with the future and tend to plan further ahead than individuals with low achievement motivation. Those characteristics of individuals with a high level of achievement motivation are very similar to what have been determined to be desirable characteristics of effective teachers (Gombs, Blume, Newman & Wass. 1974).

Some research has related achievement motivation factors directly to effective teaching. Vonk (1970) found a significant relationship between teacher purposes and teaching affectiveness. Teachers whose purposes were child-centered rather than self-centered were perceived by students to be more effective. Rode (1971) found that teachers perceptions of teaching as a career had a direct relationship to their involvement in decisions affecting their role within the profession. Mayberry (1970) suggested, that, to be effective, it is very important for a teacher to display an enthusiastic attitude for teaching, Achievement motivation has not been shown to relate to teacher expectations but its relationship to effective teaching, as suggested for self-concept and locus of control, may be through expectations.

Hypotheses Related to Attitudinal Variables

The research presented provided evidence that an individual's self-concept is related positively to acceptance

of others, resistance to persuasion or social influence, and to persuasion or social influence, and to successful teaching. Those relationships suggested that self-concept may mediate the influence of such factors as student physical attractiveness on teacher expectations.

Lous of control research suggested that individuals who perceive themselves in control of their own lives are likely to be resistant to irrelevant influence attempts. Teachers who perceive an internal locus of control are not likely to base judgements on such characteristics as physical appearance.

Research on motivation allows for the conclusion that a teacher's successful interaction with students is related to motivation to be a successful teacher and to attitude towards teaching as a carreer.

Based on the research presented, the Following hypotheses were proposed:

- Student-teachers' expectations for students are significantly related to the self-concept of the student-teachers.
- Student-teachers! expectations for students are significantly related to the locus of control of the student-teachers.
- Student-teachers' expectations for students are significantly related to the motivation of the student-teachers.

 Student-teachers' expectations for students are significantly related to the student-teachers \(\frac{1}{2} \) attitude towards teaching as a career.

Relationships Among Variables

Although this study treated self concept, locus of control, and motivation as separate constructs, as suggested by Prawat (1976), some research has discovered relationships between the three. Rosenberg (1965) suggested that people with a low level of self-esteem tend to have lower aspirations and expectations for success than individuals with high self-esteem. Cohen, Reid, and Boothroyd (1973) studied 1520 student-teachers and found a significant positive relationship between self-image and achievement motivation. Ryckman and Sherman (1974) found a significant relationship between locus of control and self-esteem.

Background Variables

The three main attitudinal variables have also been related to the background variables sex, age and teaching program. Some of this research was examined.

Age

Webster (1958) found that attitudes varied with age. Whittaker and Meade (1967) discovered that older subjects, regardless of sex, appeared less persussible than younger adults. Marrington (1971) concluded that age was significantly related to differences in attitude patterns. It may be that age itself is a mediator on the influence of physical attractiveness on expectations and also that it may interact with other variables. The research evidence is not extensive or conclusive.

Sex

Wylie (1961) reviewed research and found some evidence that women were less self-accepting than men. However, she stated that there is sufficient evidence to conclude that women indicate more acceptance of others than do men. Elbenman (1970) concluded that women tended to have lower self-concepts than men. Marringtop—(1971) found that sex was related to attitude patterns. As with the variable age, it may be that sex itself determines, to some degree, the influence of physical attractiveness on expectations and also that it may interact with other variables.

Teaching Program

Marrington (1971) discovered attitudinal differences between junior High and Senior High School teachers. There is no conclusive evidence but program say interact with other variables or itself be related to the influence of physical attractiveness.

Teaching Experience

It may be expected that teaching experience has a major influence on expectations. There is no evidence on the direction of the influence.

Hypotheses Related to Background Variables

Based on the limited evidence available, the following hypotheses were proposed:

- Student-teachers' expectations for students are significantly related to the age of the studentteachers.
- Student-teachers' expectations for students are significantly related to the sex of the studentteachers.
- 7. Student-teachers' expectations for students are significantly related to the teaching program of the student-teachers.
- Student-teachers' expectations for students are significantly related to the teaching experience of the student-teachers.

Summary

The conceptual framework of this study proposed that an individual's perceptions of self, environment, and goals determine behavior. Specifically, on the basis

The study also hypothesized that various background variables, age, sex, teaching program, and teaching experience determine, to a significant degree, the expectations students teachers form.

Chapter III will present a discussion of the sample, the questionnaire, and the various instruments. It will also present the method of analysis to be employed.

CHAPTER III

THE RESEARCH METHODOLOGY

This chapter will describe the sample, the question naire, the instruments, and the method of analysis used in the study.

The Sample

The sample for the atudy was determined by a stratified selection procedure. In 1974 the questionnaire was administered to eight classes of student-teachers registered for various courses in the Faculty of Education at Memorial University of Newfoundland. The courses also part of the program requirements of all student-teachers so the sample is seen as representative of all student-teachers in attendance. The courses may be completed at varying times during a program so the sample has students of different gas and different University levels | During the summer session of 1975 the questionnaire was administered to three classes, and in the fall sesseter, 1975, to eight more classes. No first year students were included since students must have completed first year before entering the Faculty of Education. The sample totalled 667.

The questionnaire, entitled Student Report Card
Questionnaire, was made up of an introductory page and
four parts (see Appendix A).

The introductory page provided a rationale for the questionnaire and directions as to its completion.

Part one consisted of a report card showing academic and conduct ratings of an average Grade V student. Attached to the report card was a child's photograph, any one of the twelve used in the Clifford and Walster (1973) study. The twelve photographs had, previous to the Clifford and Walster study, been rated by a panel of judges as to degree of attractiveness of the subjects. Those used in this study were of six Grade V level boys and six Grade V level girls, three of each selected from those prejudged physically attractive and three each selected from those judged physically unattractive. The information on all report cards was the same only the photographs differed.

The report cards showed a set of average marks and a set of general comments regarding the student's academic and social development. The student-teachers were asked to evaluate the report cards by answering five questions regarding the child's intelligence, pear relationship, parents' attitude towards his school work, potential school schowers, and self-concept. The student-teachers were then asked to rate the child's physical attractiveness and to comment on the usefulness of the report card.

The Party States

The second part of the questionmaire consisted of a section entitled <u>Attitudes</u> which asked student-teachers to rate themselves on various attitudes towards their courses, towards teaching as a profession, and their teaching competence. This section also required student-teachers to rate themselves on the concepts, "Me as Student-Teacher" and "Me as Teacher". For each of these concepts nine semantic differential scales were provided.

The third section asked student-teachers for background information: sex, agd, marital status, degree program, teaching program, year in university, and teaching experience.

A further section was added before the questionnaire was administered in 1975. This section contained twenty-five intermixed items; eleven to measure dimensions of locus of control, and eleven to measure the motivation dimension, attitude towards teaching as a career.

The Instruments

The instruments used to measure the variables employed in the study are items and combinations of items on the Clifton and Baksh questionnaire (Appendix A). Items will be referred to by numbers as they appear on the questionnaire.

Teacher Expectations

A large percentage of the sample are "student-teachers" and not "teachers". The term "teacher expectations" is used here in order to be consistent with the research literature.

Teacher expectations have been researched extensively but with little regard for a clear definition of the term.

"expectation." Bognar (1981) sees the variety of research measures as a probable cause of the often conflicting research findings and difficulties in replication. Clifford and Walster (1973) amployed three dimensions of expectations, 10, ultimate education, and parental interest. Clifton and Baksh (1978) added to those dimensions social relations and self-concept, and asked student-teachers to make five different evaluations of those dimensions. For this study, as for the Clifton and Baksh study, they were treated as five separate dimension. (Questionnaire items 1,2,3,4, and 5.

Physical Attractiveness

Clifton and Bakeh used the twelve photographs which had been used in the Clifford and Walster (1973) study. Although the photographs had been selected by Clifford and Walster on the basis of the independent ratings of twenty educators, Clifton and Bakeh went a step further by allowing the student-teachers to make their own judgmeents as to the level of attractiveness. They were given a five-point scale ranging from "very attractive" (1) to "very unattractive" (3) (Questionnaire item 6). Clifton and Bakeh saw this as an important step since the student-teachers "are likely to base their behavior upon their own evaluation of the situation rather than upon the evaluation of others" (Clifton's Bakeh, 1978, p. 38).

Self-concept

Self-concept was measured by the semantic differential rating scale technique (Osgood, Suci & Tannenbaum, 1957). This technique presents the subject with a concept and a set of polar opposite adjectives. The subject is asked to rate the concept by placing a mark at the point on a continuum where he feels that concept lies. The purpose is to assess the connotation of the concept being rated. It is called a differential because it shows how concepts differ in connotations to people rating them.

Three types of scales are used - avaluation (i.e. good-bad), potency (i.e. strong-weak), and activity (i.e. active-passive). Those three have been determined by factor analyses to be the most important factors of semantic connotation. Because the reliability of the three single scales is low, additional scales are often used to evaluate those three factors.

The Cliffon and Bakeh data has two concepts
(Questionnaire items 16, 17), "Me as student-teacher*, and
"Me as teacher". It has nine scales to be applied to each
concept. Of the nine scales, there are seven avaluation
scales, one potency scale, and one activity scale.
Composite scores created from each of the three dimensions
provide the self-concept measures used in this study,

Locus of Control

No items designed to measure this construct were

included in the questionnaire administered in 1974. Among the twenty-five items added to the questionnaire previous to the 1975 administration were eleven items designed to measure an individual's perception of internal or external control. Subjects were asked to indicate the degree to which they spreed or disagreed with various statements. They were given a six-points scale ranging from "strongly agree" to "strongly disagree" by which to express their choice.

Items presented are seen to measure two dimensions of locus of control (Reid & Ware, 1973). Three Items (Questionnaire items 26, 30, and 36) are similar to Items on Notter's internal-external locus of control scale (Lafcourt, 1976) and are seen to measure the control dimension of locus of control. Eight Items (Questionnaire items 27, 28, 31, 32, 35, 43, 45 and 47) are similar to Items on various allenation scales and are seen as a measure of the allehation dimension of locus of control.

Motivation

Eight items designed to measure various stittudes were included in part two of the questionnaire (Items 8-15). These attitudes represent three dimension of motivation.

Items 8 and 10 attempt to measure general motivation, the willingness to work hard to achieve a general goal. Items 9, 12, 13, 14 and 15 measure teacher sotivation, the desire to achieve a specific goal, a teaching career. Item 11 measures work difficulty. From those three motivation

In the questionnaire administered in 1975 was included an eleven item stifting towards teaching as a Garsier scale (Merwin a Divesta, 1959). The construction of this scale involved 760 students at Syracuse University. Shaw and Wright (1967) commented on the scale: "This brief scale appears to have ressonably acceptable reliability and validity for the purposes for which it was designed (p. 73). The eleven items are presented in positive and negative form in order to avoid "response bias". Six response categories are provided for each item ranging from "strongly agree" to "strongly disagree". The attitude toward teaching as a career score is computed as the sum of the item scores: The range is 11-66 with higher scores indicating more favorable attitude towards teaching as a career;

Age

Student-teachers were as dt to Indicate their ages by choosing one of seven categories: 17 or less, 18, 19, 20, 21, 22, 23 or older.

Teaching Program

Student-teachers were asked to indicate which of the following programs they were in: Primary Education, Elementary Education, General Programme, Internship Programme, Professional Semester Programme, or High School A Committee Administration of the Committee of the Commit

Teaching Experience

Student-teachers were asked to indicate teaching experience by choosing one of six categories ranging from mone" through "up to 1 year", 2 years, 3 years, 4 years, 6.5 years or note.

Method of Analysis

The major onalyses employed in this guddy are analysis of variance, and co-variance by the procedures presented in the Statistical Package for the Social Sciences (Nie, Bull, Jankins, Steinbrenner & Bent, 1975).

. Summary

This chapter has presented the research methodology of this study. Specifically, it described the sample and the questionnairs, described how each variable was to be measured, and gave the method of analysis to be used. Chapter IV will give a description and analysis of the data.

CHAPTER IV

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THE PRESENTATION AND ANALYSIS OF DATA

This chapter consists of a presentation and discussion of data on each variable and the measures used in the analysis. It presents the findings and discusses them in terms of the hypotheses.

Teacher Expectations

The five questionnaire items believed to measure dimensions of teacher expectations were correlated. The correlation matrix shown in Table 1 suggests that the five

Insert Table 1 about here

items measure relatively distinct dimensions. The only correlation greater than .30 is that of self-concept with , social relations. It is reasonable to expect that pupils perceived to have healthy self-concepts will also be perceived to have good relationships with classmates. There is a somewhat leaser and not unexpected relationship between perceived IQ and perceived school achievement, and between self-concept and school achievement. Sowers, for the purpose of this atudy the five dimensions were treated as unique variables.



Correlation Coefficients Among the Five Dependent Variables

Variables	- 10	Social Relations	Parental Attitudes	School Achievement	Self Concept 1
10	1.000				
Social Relations	.097	1.000	W. L. W		
Parental Attitudes	.095	.177	1:000		
School Achievement	.254	.127	.187	1.000	
Self-Concept	.116	.429	.241	242	1.000

Physical Attractiveness

Data on the questionmaire item regarding perception of physical attractiveness is presented in Table 2. It is

Insert Table 2 about here

interesting to note that less than 5% of respondents (N = 29) perceived the subject to be to any degree unattractive.

Self-Concept

Since this study was concerned with teacher expectation, and since subjects were asked to respond "as prospective teachers", the concept "Me as teacher" was used to describe the measure of self-concept.

The nine semantic differential scales for the concept "Me as teacher" were subjected to a factor analysis procedure to determine whether the three dimensions of evaluation, potency, and activity discussed by Osgood et al. (1957) were apparent in the data. The first step in the factor analysis was the preparation of the correlation matrix (Table 1, Appendix B). The computer program used to, carry out the analysis was the Statistical Package for the Social Sciences (SPSS) developed by Nie et al. ((1975).

The second step in factor analysis is the extraction of initial factors. The factor model employed for all factor analyses in this study is principal factoring with iterations. The objective of principal factor analysis is to account for a matrix of correlations by a minimum number of hypothetical

Table 2

Frequency Distribution of Responses on
Physical Attractiveness Item

Response	Frequency		
	/ New York Control of the		
Very Attractive	55		
Attractive	292		
Moderately Attractive	298		
Unattractive	29		
Very Unattractive	0		
Total	674		

factors. A factor matrix similar to Table 2 (Appendix B) is provided. The columns define the factors, the rows refer to items. In the intersection of the row and the column is given the factor coefficient ('loading') for the row item on that factor. Generally, the independent sets of relationships shown in an unrotated factor matrix may be thought of as presenting different categories by which the data may be classified. The first factor delineates the largest pattern of relationships in the data; the second the next largest that is independent of the first, and so on. Thus, the amount of variation in the data described decreases successively with each factor; the first factor contains the greatest amount of variation, the last factor the least.

The column in the unrotated factor matrix headed "Communality" indicates the total variance of each item accounted for by the combination of all common factors. This value indicates the amount of the variance of a variable that is accounted for by the factors.

According to Osgood et al (1957), those nine scales, with the exception of "strong-weak" and "active-passive," loaded on an evaluative factor in the analyses they reported. The "strong-weak" scale loaded on a potency factor and the "active-passive" on an activity factor. Ideally, then, the present analysis should have extracted three factors with the scales loading as evaluation, potency, and activity. This did not happen. As shown in Table 2 (Appendix B), the number of factors extracted was two. Those two factors were

subjected to the final step in factor analysis, rotation to

The purpose of rotation, whatever method employed, is "to achieve simpler and theoretically more meaningful factor patterns" (Nie et al., 1975, p. 472). The choice of, rotational method best suited to the factor analyses performed in this study is determined by the nature of the items. There is reason to believe that the kinds of affective characteristics, being examined in this study are not independent of each other. For this reason oblique rotation, which produces correlated factors, was used for all factor analyses.

The factor pattern resulting from the oblique rotation of the semantic differential items is shown in Table 3 (Appendix B). There was a large degree of "impurity", i.e. scales tending to load heavily on more than one factor. An examination of the factor structure matrix (Table 4, Appendix B) shows that factor 2 shared much of the evaluation dimension while the potency and activity dimensions loaded heavily on factor 1.

In order to construct meaningful composite scores representing the factors, factor-score coefficients were calculated and are reported in fable 6 (Appendix B). From the factor-score coefficients and the standardized values (2) of the items which have been factor analyzed, two self-convept measures were constructed as follows:

Strength-activity self-concept =
$$.130_{21} - .010_{22} + .055_{23}$$

+ $.148_{24} + .153_{25} + .062_{26} + .406_{27}$
+ $.152_{26} + .160_{26}$

Locus of Control

The first step in developing the measures for the control and allenation dimensions of locus of control was to compute correlations among the eleven items. Table 7. (Appendix B) shows the correlation matrix. Of the three control items, 26, 30, and 36, the latter two are correlated to some degree with 26, while items 30 and 36 show no correlation with each other. There are no strong correlations among the allenation items; however, there are no negative correlations.

The eleven item correlation matrix was factor analysed to verify the distinctiveness of the two dimensions. Pour factors were extracted using the analysis methods discussed earlier. Table 8 (Appendix B) shows the unrotated factor matrix.

Since those eleven items were assumed to measure two dimensions of locus of control, rather than drop those items not loading on one of two factors, a second factor analysis was carried out, this time limiting the number of factors to be extracted to two. Table 9 (Appendix B) shows the resulting factor matrix.

The two factors were then rotated obliquely to achieve a more meaningful factor pattern (Table 10, Appendix B). From an examination of this table, it can be seen that the control items (26, 30 and 36) load on factor 2 and the alienation items (27, 28, 31, 32, 35, 36, 43, 45, and 47) load on factor 1.

In order to coinstruct meaningful composite scores representing factors 1 and 2 factor-score coefficients were calculated (Table 11, Appendix B). From the factor-score coefficients and the standardized values of the items, composite scores representing factor 1, alienation, and factor 2, locus of control, were computed as follows:

Motivation

The first step in developing the motivation measu was to compute correlations among the eight items (Questionnaire items 8, 9, 10, 11, 12, 13, 14 and 15). This correlation matrix is shown in Table 12 (Appendix B). The items were then factor analyzed with three factors being extracted (Table 13, Appendix B), and rotated obliquely (Table 14. Appendix B). An analysis of the rotated factor structure (Table 154-Appendix B) suggests that there are three dimensions to this group of items. Five items (9, 12, 13, 14, and 15) load on factor 1, two items (8 and 10) load on factor 2, and item 11 loads primarily on factor 3. Those loadings tend to be as expected: items loading on factor 1 are attitude towards teaching or "teacher motivation"; items loading on factor 2 measure motivation to do well in courses and are seen as a measure of "general motivation": item 11 is a measure of perceived work difficulty.

From factor-score coefficients (Table 16, Appendix B)
three variables were computed as follows:

Teacher Motivation =
$$.065_{28} + .307_{29} + .011_{210} - .009_{211}$$

+ $.227_{212} + .450_{213} + ..055_{214} + .047_{215}$

General Motivation =
$$.341_{28} + .091_{29} + .521_{210} + .016_{211}$$

+ $.108_{212} + .006_{213} + .004_{214} + .009_{215}$

Work Difficulty =
$$-.079_{28} - .025_{29} + .088_{210} + .621_{211}$$

 $-.039_{212} + .100_{213} + .048_{214} - .081_{215}$

The eleven item "Attitude towards teaching as a career" instrument was recommended by Merwin and DiVesta (1959) to be an additive scale. However, since no item analysis data for the scale was available, it was thought best to perform a factor analysis of the items. The correlation matrix is shown in Table 17 (Appendix B) and the unrotated factor pattern in Table 18 (Appendix B). An examination of the rotated factor pattern (Table 19, Appendix B) indicates that the scale has at least two separate dimensions.

Factor 1 appears to be a measure of attitude towards teaching as a career for oneself while Factor 2 seems to measure attitude towards teaching as a career in general. From the two factors, using the factor-score coefficients (Table 21, Appendix B), two variables were created as follows:

Attitude Towards Teaching as a Career for Self = .122₂₂₈ + .301₂₃₃ + .024₂₃₇ + .312₂₃₈ + .252₂₄₀ + .057₂₄₂ + .122₂₄₄ - .040₂₄₆ - .003₂₄₈ + .068₂₄₉

Attitude Towards Teaching as a Career in General = .183₈₂₅ + .427₈₂₉ + .006₈₃₃ + .013₈₃₇ + .037₈₃₈ - .016₈₄₀ + .024₈₄₂ - .013₈₄₄ + .182₈₄₆ + .307₈₄₈ + .038₈₄₉

Salar Salar

Age

The age distribution of respondents is presented in Table 3.

Insert Table 3 about here

Sex

The distribution by sex was $\frac{48}{2}$ percent male (N = 319), and $\frac{52}{2}$ percent female (N = 343).

Teaching Program

Table 4 shows the distribution of respondents by teaching program.

Insert Table 4 about here

Teaching Expersience

Table 5 shows the distribution of respondents! teaching experience.

Insert Table 5 about here

Analysis of the Data

Because of the nature and number of variables to be examined, the first step in analysis was to determine whether there were significant relationships between the background variables and the attitudinal variables.

An analysis of variance procedure was carried out

Frequency Distribution of Respondents by Age

Age /	Frequency
17	3
18	91
19	100
20	99
21 %	89
22	50
23 or older	228
Total	660

Table 4

Distribution of Respondents by Teaching Program

	1. 12/Ang 11. 11. 12. 14.
Program	Frequency
AND THE RESERVE AND A STATE OF THE ABOVE AND	As Alexander
Primary Education	110
Elementary Education	246
General Programme	118
Internship Programme	6
Professional Semester Programme	6
High School Programme	163
Total	649
The SAN CONTRACTOR SET NA	

Table !

Distribution of Respondents by Teaching Experience

Years Teaching	Frequency
None	476
Up to 1 year	44
2 years	25
3 years	12
4 years	13
5 years or more	
Total	661

with the nine attitudinal variables designated as dependent and the four background variables as independent. The independent variables age, teaching program and teaching experience were categorized as follows. Age was divided into three categories, 19 or younger (N = 194), 20-22 inclusive (N = 238), and 23 or older (N = 228). Teaching program was divided into four categories, primary (N = 110), elementary (N = 246), general (N = 118) and high school (N = 163) programs. Subjects were categorized on teaching experience as having none (N = 476) or some (N = 185).

Wherever there were significant main effect relationships, t-test comparisons of means were carried out.

"Because of relatively large sample size, homogeneity of variance is assumed and thus the statistic used is the student's t statistic with pooled variance estimates (Hays, 1973).

 Where significant interaction relationships existed, means and standard deviations we've compared to determine the nature of the interaction.

Each analysis of variance was examined. Only relationships significant at less than the .05 level of probability will be discussed.

Table 6 shows the relationship between the evaluative

Insert Table 6 about here

self-concept dimension and the background variables, sex, age, teaching program and teaching experience. There is a significant

Table 6

Analysis of Variance: Evaluative Self-concept by Sex,
Age, Teaching Program and Teaching Experience

Source of Variation 🌞	SS	DF	MS	P
Main Effects				
Sex	0.106	1.	0.106	0.099
Age	0.055	2	0.028	0.026
Teaching Program	11.686	. 3,	3.895	.3.661*
Teaching Experience	0.007	1	0.007	0.007
Interactions			- 4	
Sex-Age	0.597	2	0.298	0.281
Sex-Teaching Program	5.456	3	1.819	1.709
Sex-Teaching Experience	0.687	I I	0.687	0.646
Age-Teaching Program	4.739	6	0.790	0.742
Age-Teaching Experience	2.482	2	1.241	1.167
Teaching Program - J. Teaching Experience	3.907	3	1.302	1.224
Residual	596.899	561	1.064	
Total	635.605	585	1.087	
	STEER STORY			

^{*} P < .05

relationship between teaching program and evaluative selfconcepts. Further examination of this relationship (Table 7),

Insert Table 7 about here

indicates that means are significantly different between primary program student-teachers and student-teachers of the elementary, general and high school programs. Primary program student-teachers have significantly more positive evaluative self-concepts than any of the other three groups, with those of the general group having least positive evaluative self-concepts.

Table 8 shows the relationship between the strength-

Insert Table 8 about here

activity dimension of self-concept and the background variables. Again, there is a significant relationship between teaching program and strength-activity self concept. A comparison of means (Table 9) clarifies this relationship.

Insert Table 9 about here

Primary program student-teachers have significantly more positive strength-activity self-concepts than both the elementary and the general groups. There is a significant difference between the means of the high school and general groups. Primary program student-teachers have significantly more positive strength-activity self-concepts than elementary or general groups, again with the general program student-

Table 7

T-Test: Evaluative Self-Concept by Teaching Program

Variable	Teaching Program	N	Mean	SD.	t
Evaluative Self-Concept	Primary Elementary	99 230	0.306 0.001	0.967 1.060	2.45*
	Primary General	99 113	0.306. -0.224	0.976 1.051	3.79*
	Primary High	99 162	0.305 0.004	0.976 1.004	2.38*
	Elementary General	230 113	0.001 -0.224	1.060	1.85
	Elementary High	230 162	0.001 0.004	1.060	-0.03
	General High	113 162	-0.224 0.004	1.051	-1.82
astrika di Poji	- 12 To 12 T	A. W.	14.10	170 2	

^{*} P < .05

Table 8

Analysis of Variance: Strength-Activity Self-Concept by Sex, Age, Teaching Program and Teaching Experience

Source of Variation	98	DF	MS	P
Main Effects		SERVE STATE		
Sex	0.029	1	0.029	0.033
Age	0.206	2	0.103	0.117
Teaching Program	7.565	3	2.522	2.873*
Teaching Experience	0.004	1	0.004	0.004
Interactions				
Sex-Age	0.747	2	0.373	0.425
Sex-Teaching Program	5 . 258	3	1.753	1.997
Sex-Teaching Experience	0.265	1	0.265	0.302
Age-Teaching Program	3.939	6	0.656	0.748
Age-Teaching Experience	0.975	2	0.487	0.555
Teaching Program- Teaching Experience	5.014	. 3	1.671	1.904
Residual	49,2.328	561	0.878	
Total	521.903	585	0.892	
		(特別)		ALLOG

Table 9

T-Test: Strength-Activity Self-Concept by Teaching Program

Variable	Teaching Program	N	Mean	SD	t.
Strength-Activity Self-Concept	Primary Elementary	99 230	0.219 -0.036	0.858 0.967	2.26
	Primary General	99 113	0.219 -0.172	0.858	3,20
	Primary High	99 162	0.219 0.064	0.858	1.33
	Elementary General	230 113	-0.036 -0.172	0.967	1.25
	Elementary High	230 162	-0.036 0.064	0.967	-1.02
	General High	113 162	-0.172 0.064	0.911	-2.08

^{*} P < .05

teachers having the least positive strength-activity self-concepts.

Table 10 shows a significant relationship between teacher motivation and teaching program. Table 11 sheds

Insert Tables 10 and 11 about here

light on the nature of this relationship. Primary program student-teachers have significantly higher means on the teacher motivation measure than any of the other three groups. Elementary program student-teachers have significantly higher means on the teacher motivation measure than general or high school program student-teachers. General program student-teachers have the lowest means on the teacher motivation measure. Table 10 also shows that age and teaching program interact to significantly relate to teacher motivation.

Table 12 indicates that the mean differences on teacher.

Insert Tables 12 about here

motivation tend to increase with age for the primary and high school student-teachers. Older primary program studentteachers tend to have higher levels of teacher motivation and older high school student-teachers tend to have lower levels of teacher motivation.

Table 13 shows a significant relationship between general motivation and teaching program. Table 14 makes

Insert Tables 13 and 14 about here

Table 10

Analysis of Variance: Teacher Motivation by Sex, Age, Teaching Program and Teaching Experience

Source of Variation	SS	DF	MS	F
		No.		
Main Effects		Paris v		MEDELD
Sex	2.090	1.	2.090	2.959
Age	0.042	2	0.021	0.030
Teaching Program	29.189	3	9.730	13.779
Teaching Experience	1.372	1	1.372"	1.943
Interactions .		9-37		
Sex-Age	0.428	2	0.214	0.303
Sex-Teaching Program	4.986	3	1.662	2,354
Sex-Teaching Experience	1.283	1	1.283	1.817
Age-Teaching Program	10.376	6	1.729	2:449
Age-Teaching Experience	0.345	2	0.172	0.244
Teaching Program- Teaching Experience	1.815	. 3	0.605	0.857
Residual	396.147	561	0.706	
Total	466.448	585	01797	
	4.3		30 8 F. C.	

^{*} P < ..05

Table 11
T-Test: Teacher Motivation by Teaching Program

Variable	Teaching Program	N	Mean	SD	t
Teacher Motivation	Primary Elementary	104 242	0.384 0.220	0.628 0.687	2.09*
	Primary General	104 113	0.384 -0.396	0.628 1.027	6.68*
	Primary High	104 167	0.384 -0.231	0.628	5.49*
	Elementary General	242 113	0.220	0.687 1.027	6.67*
	Elementary High	242 167	0.220 -0.231	0.687	5.31*
	General High	113 167	-0.396 -0.231	1.027	-1.32

* P 4 .05

Table 12 -

Means (and Standard Deviations): Teacher Motivation by Age and Teaching Program

Teaching Program	ı Up to 19	Age 20-22	23 or older
Primary	0.282	0.404	0.471
	(0.642)	(0.654)	(0.601)
	n = 42	n = 27	n = 33
Elementary	0.188	0.173	0.293
	(0.766)	(0.727)	(0.569)
	n = 84	n = 72	n = 84
General	-0.660	-0.371	-0.212
	(1.157)	(0.929)	(1.120)
	-n = 26	n = 64	n = 22
High School	0.069	-0.294	-0.328
	(0.805)	(0.988)	(1.157)
	n = 35	n = 67	n = 65

Table 13 Analysis of Variance: General Motivation by Sex,
Age, Teaching Program and Teaching Experience

Source of Variation	SS	DF	MS	P d
Main Effects				
Sex	6.486	1	6.486	8.832
Age	1.522	, 2	0.761	1.036
Teaching Program	9.563	3	3.188	4.341
Teaching Experience	0.238	X 1	0.238	0.324
Interactions	A Section	7.1	45.00	
Sex-Age	0.529	2	0.265	0.360
Sex-Teaching Program	5.596	3	1.865	2.540
Sex-Teaching Experience	0.600	1	0.600	0.817
Age-Teaching Program	6.513	6	1.085	11.478
Age-Teaching Experience.	1.343	2	0.671	0.914
Teaching Program- Teaching Experience	2.151	3	0.717	0.977
Residual	411.961	561	0.734	
Total	453.888	585	0.776	10.5
			47.5 74.	September 1

Table -14
T-Test: General Motivation by Teaching Program

Variable	Teaching Program	N.	Mean	SD	t.
General Motivation	Primary Blementary	104 242	0.155 0.150	0.794 0.756	0.05
	Primary General	104 113	0.155 -0.154	0.794 0.873	2.71*
	Primary High	104 167	0.155 -0.235	0.794	3.34*
	Elementary General	242 113	0.150 -0.154	0.756 0.873	3.35*
	Elementary High	242 167	0.150 -0.235	0.757 1.011	4.41*
	General High	113 167	-0.154 -0.235	0.873 1.011	0.70

* P (.05

clear that the relationship here is between primary and elementary groups on the one hand, and general and high school groups on the other. The significant mean differences are between primary and both general and high school program groups and between elementary and both general and high school program groups. Primary and elementary student-teachers are more generally motivated than are general and high school student-teachers. Table 13 also shows a significant relationship between general motivation and sex. Table 15 compares the means of both male and female student-

Insert Table 15 about here

teachers on the variable general motivation and indicates that females have a significantly higher level of general motivation than do males.

Table 16 shows a significant relationship between

Insert Table 16 about here

perceived work difficulty and teaching program. An examination of the mean comparisons on Table 17 shows that this relationship

Insert Table 17 about here

is again between primary and elementary groups on one hand, and general and high school groups on the other, while the mean difference between primary and general groups is not significant at the .05 level, these differences are significant for the primary and high school groups, and also

Table 15

General Motivation by Sex

Variable	Sex	0 ::	n /-	Mean	SD	4 N
	, ·		\			
Generaq Motivation	Male Femal		310 -	0.174 0.152	0.874	-4.80*
				MA254		

Analysis of Variance: Work Difficulty by Sex, Age, Teaching Program and Teaching Experience

Source of Variation	• SS	DF	-MS	P .
	11. A.A.	4.7	112 113	
Main Effects		1120	A	S. Meyer
Sex .	0.000	1	0.000	0.000
Age	0,986	2 .	0.493	1.160
Teaching Program	7.200	3	2.400	5.646*
Teaching Experience	1.610	1	1.610	3.788
Interactions		1		
Sex-Age	. 0.205	2	0.102	0.241
Sex-Teaching Program	0.481	3.	0.160	0.377
Sex-Teaching Experience	0.237	1	0.237	0.557
Age-Teaching Program	3.752	6	0.625	1,471
Age-Teaching Experience	0.224	2	0.112	0.263
Teaching Program-				130
Teaching Experience	0.238	3	0.079	0.186
Residual	238.475	561	0.425	
Total	255,777	585	0.437	
	1 2 2 3 3	2 .		

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Table 17

T-Test: Perceived Work Difficulty by Teaching Program

francia de la compresa de la comprese de la compresa de la compresa de la compresa de la compresa de la compre

Variable	Teaching Program	N	Mean	SD	t
Perceived Work Difficulty	Primary Elementary	104 242	0.105 0.128	0.609	-0.32
	Primary General	104 113	0.105 -0.056	0.609 0.632	11.90
	Primary High	104 167	0.105 -0.202	0.609 0.774	3.43*
	Elementary General	242 113	0.128 -0.056	0.603 0.632	2.62*
	General . High	242 167	0.128	0.603	4.84*
	General High	113 167			1.67

^{*} P < .05

for the elementary and both general and high school groups.

That is, primary and elementary program student-teachers, perceive their courses to be more difficult than do the general and high school program student-teachers.

Table 18 shows no significant relationship between

Insert Table 18 about here

the alienation dimension of locus of control and background variables.

Table 19 shows a significant relationship between the control dimension of locus of control and sex. However, results of a t-test shown in Table 20 suggest that the

Insert Tables 19 and 20 about here

difference between seams for males and females on the locus of control measure is not significant at the .05 level.

Table 19 also indicates that sex and teaching experience interact to relate significantly to locus of control. An examination of Table 21 indicates that female student-teachers

Insert Table 21 about here

with teaching experience have a more internal perception of control than do female student-teachers without teaching experience.

Table 22 shows that there is a significant relation-

Insert Table 22 about here

Analysis of Variance: Alienation by Sex, Age,
Teaching Program and Teaching Experience

The state of the s		ATT	4.7.	
Source of Variation	SS	DF	/ MS	F
Main Effects		7 C A		
Sex	0.402		0.402	0.601
Age	0.458	,	0.229	0.343
Teaching Program	3.069	3	1.023	1.531
Teaching Experience	0.088	r	0.088	0.131
Interactions			Section 1	47.00
Sex-Age	1.142	2	0.571	0.855
Sex-Teaching Program V	2.043	3	0.681	1.019
Sex-Teaching Experience	1.374	1	1.374	12.056
Age-Teaching Program	6.824	. 6	1.137	1.701
Age-Teaching Experience	2.585	2	1.292	1.933
Teaching Program- Teaching Experience	3.817	. 3	1.272	1.903
Residual .	177.137	265	0.668	
Total	199.890	289	0.692	
		15715		1997

Analysis of Variance: Locus of Control by Sex,-Age, Teaching Program and Teaching Experience

A S 177	17.	710	
	100	3. 15. 71	Section 1
	200	Market 1	
2.598	1	2.598	4.840
0.695	2	0.347	0.647
1.998	3	0.666	1.241
1.733	1	1.733	3.229
1000			
2.153	2	1.077	2.006
0.263	3	0.088	0.163
3.476	1	3.476	6.476
3.001	6	0.500	0.932
1.543	2	0.771	1.437
•			W. Art.
1.962	. 3	0.654	1.219
142.241	265	0.537	
157.062	289		
	0.695 1.998 1.733 2.153 0.263 3.476 3.001 1.543 • 1.962	0.695 2 1.998 3 1.733 1 2.153 2 0.263 3 3.476 1 3.001 6 1.543 2 • 1.962 3	0.695 2 0.347 1.996 3 0.666 1.733 1 1.733 2.153 2 1.077 0.263 3 0.088 3.476 1 3.476 3.001 6 0.500 1.543 2 0.771 6 1.962 3 0.654

^{*} P. . . 05

Table 20
T-Test: Locus of Control by Sex

Variable Sex N Mean SD	2 th -
Locus of Control Male 140 0.048 0.676	1.11
Female 170 -0.044 0.762	****

The state of the s	the hard when the wife	degraph 1
	Male	Female :
No teaching experience	0.045 (0.698) n = 85	-0.188 (0.834) n = 94
Teaching experience #	0.052 (0.652) n = 54:	0.134 (0.624) , n ≈ 76

Table 22

Analysis of Variance: Attitude Towards Teaching as a Career for Self by Sex, Age, Teaching Program and Teaching Experience

Source of Variation	SS	DF	MS	F
Main Effects				
Sex	4.969	1	4.969	7.184
Age	0.311	2	0.156	0.225
Teaching Program	4.461	3	1.487	2.150
Teaching Experience	0.004	í	0.004 .	0.006
Interactions	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1000	
Sex-Age	1.046	2	0.523	0.756
Sex-Teaching Program	0.121	3	0.040	. 0.058
Sex-Teaching Experience	1.108	1	1.108	1.602
Age-Teaching Program	2.945	6	0.491	0.710
Age-Teaching Experience	0.767	2	0.384	0.555
Teaching Program- Teaching Experience	0.173	3	0.058	0.084
Residual	183.284	265	0.692	
Total	211.059	289	0.730	147
iotai	211.059)	0.730	

^{*} P < .05

ship between attitude towards teaching as a career for oneself and sex. A comparison of means on this measure for males and females (Table 23) confirms the significant

Insert Table 23 about here

relationship and indicates that female student-teachers have a significantly more positive attitude towards teaching as a gareer for themselves than do male teachers.

Table 24 shows no significant relationship between

Insert Table 24 about here

attitude towards teaching as a career for others and the background variables, sex, age, teaching program and teaching experience.

From an examination of the preliminary analyses, it appears that there are significant relationships between the variables sex and teaching program and the attitudinal variables examined.

Hypotheses Related to Attitudinal Variables

The influence of physical attractiveness on the five expectations, dimensions was found by Clifton and Bakah (1978) to be significant for all analyses they carried out. Because of this, physical attractiveness was treated as a covartate in the snalyses carried out in this study and it was found to be significant in all but one analysis. Physical attractiveness was not found to have a significant influence on the relationship between student self-concept and the locus of control dimensions.

mahla 22

T-Test: Attitude Towards Teaching , as a Career for Self by Sex

Variabl	e	Sex		N M	ean	SD	t
W. W. W.	7 1777		they ha	50.70-5	10.41		×
n++1++4	e towards	Male		34 -0	221 0.	893	mint de
ALLILUU	e cowards					033	4:18*
teachin	g as a	Fem				800	-4:18*
teachin	g as a for self					800	-4:18*

Analysis of Variance: Attitude Towards Teaching as a Career In General by Sex, Age, Teaching Program and Teaching Experience

Source of Variation	SS	DF	MS	F
		4-30	41 N. 18	41. V.
Main Effects /	0.707		0.707	2 225
of the fact of the boundary of the second	5 15 til.	2		1.235
Age	2.162	State of	1.081	1.888
Teaching Program	1.954	3	0.651	1.138
Teaching Experience	0.009	1.	0.009	0.016
Interactions				A
Sex-Age	0.021	2	0.011	0.019
Sex-Teaching Program	0.646	. 3	0.215	0.376
Sex-Teaching Experience	0.814	. 1	0.814	1:421
Age-Teaching Program	2.734	6	0.456	. 0.796
Age-Teaching Experience	1.303	2	0.652	1.139
Teaching Program-	1.841	3	0.614	1.072
Acadiming Experience			0.014	1.072
Residual	151.687	265	0.572	1. 1
Total	167.726	289	0.580	14. 455

Bypotheses 1 to 4 will be discussed and appropriate data presented where necessary.

Hypothesis 1: Student-teachers' expectations for students are significantly related to the self-concept of the student-teachers.

Tables 25-29 show the analyses of covariance of the

Insert Tables 25 to 29 about here

five expectations dimensions with two self-concept measures.

In each case physical attractiveness is significantly related
to expectations but neither the main effects hor interactions are significant.

Hypothesis 2: Student-teachers' expectations for students
are significantly related to the locus of
control of the student-teachers.

Table 30 shows the analysis of covariance of 10 by

Insert Table 30 about here

the two dimensions of locus of control. Physical attractiveness is significantly related to estimated IO but neither the main effects nor interactions are significant. Table 31

Insert Table 31 about here

shows the analysis of covariance of social relations by the two dimensions of locus of control. There is a significant

Table 25

Analysis of Covariance: 10 by Evaluative Self-Concept and Strength-Activity Self-Concept with Physical Attractiveness

Source of Variation	SS	DF	MS	ř.
Covariate				
Physical Attractiveness	12.044	1.	12.044	5.303*
Main Effects				
Evaluative Self-Concept.	1.523	1	1.523.	0.671
Strength-Activity Self-Concept	0.436	1	0.436	0.192
Interaction				
Evaluative Self-Concept with Strength	Jan Jan	1		
Activity Self-Concept	2.315	1	2.315	1.019
Residual	1305.931	575	2.271	
Total	1321.985	579	2.283	
		6.44		8 (4.17)

P.4 .05

Table 26

Analysis of Covariance: Social Relations by Evaluative Self-Concept and Strength-Activity Self-Concept with Physical Attractiveness

Source of Variation	SS *	DF	MS	F **
Covariate				
Physical Attractiveness	13,852	1	13.852	38.359*
Main Effects				
Evaluative Self-Concept	0.009	1	0.009	0.025
Strength-Activity Self-Concept	0.016	1	0.016	0.044
Interaction				
Evaluative Self-Concept with Strength Activity Self-Concept	0.041	. 1	0.041	0.115
Residual.	207.637	575	0.361	13 5 4
Total	221.546	579	0.383	

** P < .01

Table 27

Analysis of Covariance: Parental Attitude by Evaluative Self-Concept and Strength Activity Self-Concept with Physical Attractiveness

Source of Variation	SS	DF	MS	F
		1.7		
Covariate	Calle CE		Comple	1 1
Physical Attractiveness	7.179	1	7.179	15.913*
Main Effects	Ent of the		, 5 L/A	100
Evaluative Self-Concept	1.031	1	1.031	2.285
Strength-Activity Self- Concept	0.047	1	0.047	0.105
Interaction				
Evaluative Self-Concept with Strength-				
Activity Self-Concept	0.546	1	0.546	1.210
Residual	259.397	575	0.451	
Total	268.854	579	0.464	
MITS I'm MARK KINE		15.0	1,50	15.50

^{**} P' /. 20:

Table 28

Analysis of Covariance: School Achievement by Evaluative Self-Concept and Strength-Activity Self-Concept with Physical Attractiveness

Source of Variation	ss	DF∭	MS	F
Covariate)		
Physical Attractiveness	11.400	1	11.400	12.070**
Main Effects Evaluative Self-Concept	2.865	1	2.865	3.033
Strength-activity Self- Concept	0.622	1	0.622	0.659
Interaction				
Evaluative Self-Concept with Strength- Activity Self-Concept	0.898	_1.	0.898	0.951
Residual	543.090	575	0.945	
Total	568.195	579	0.981	es de la

^{**} P < .01

Analysis of Covariance: Student Self-Concept by Evaluative
Self-Concept and Strength-Activity Self-Concept
With Physical Attractiveness

Source of Variation	SS	DF	MS	P
	Assess #	Q (3) X	# St. 12	7.000
Covariate			2.650	
Physical Attractiveness	4.800	1	4.800	8 .881**
Main Effects				
Evaluative Self-Concept	0.003	1	0.003	0.006
Strength-Activity Self- Concept	0.429	1	0.429	0.793
Interaction				To the state of
Evaluation Self-Concept with Strength-				1.
Activity Self-Concept	0.104	1	0.104	0.192
Residual	310.800	575	0.541	
Total	316.574	579	0.547	
	A Company	Part Contract		And the state of the

^{**} P < .01

Table 30

Analysis of Covariance: IO by Alienation and Locus of Control with Physical Attractiveness

Source of Variation	SS	DF	MS	F
Covariate		Valle,	(40°0, 10°)	
Physical Attractiveness	17.060	1	17.060	7.637**
Main Effects				
Alienation	4.716	1	4.716	2.111
Locus of Control	5 . 676	i	5.676	2.541
Interaction -				
Alienation-Locus of Control	0.714	T.	0.714	0.320
Residual	636.641	285	2.234	
Total	664-695	289	2.300	
		1 15 2		1000

^{*} P< .05 **P< .01

Table 31

Analysis of Covariance: Social Relations by Perceived Alienation and Locus of Control with Physical Attractiveness

Source of Variation	ss 	DF	MS	F
Covariate				
Physical Attractiveness	4.156	1	4.156	10.635*
Main Effects				
Alienation	1.596	1	1.596	4.084*
Locus of Control	0.619	1	0.619	1.584
Interaction				MALES
Alienation - Locus of Control	0.000	1	\ 0.000	0.001
Residual .	111.383	285	0.391	
Total	117 - 777	289	0.408	学生是,证

** P (.01

relationship between perceived alienation and estimated social relations. Table 32 also shows a significant main effect

Insert Table 32 about here

relationship between perceived alienation and estimated parental attitude. Table 33 indicates that a comparison of

Insert Table 33 about here

means does not support the significance of the relationship between alienation and social relations. Bowever, the relationship between alienation and parental attitude is significant at the .05 level. Student-teachers who perceive a high level of alienation tend to estimate a negative parental attitude towards school work. Tables 34 and 35 show

Insert Tables 34 and 35 about here

the analysis of covariance of estimated school schigwement and estimated student self-concept by the two dimensions of locus of control. There are no significant main effect or interaction relationships.

Hypothesis 3: Student-teachers' expectations for students
are significantly related to the metivation
of the student-teachers.

Table 32

Analysis of Covariance: Parental Attitude by Perceived
Alienation and Locus of Control
with Physical Attractiveness

Source of Variation	SS	DF	MS	ř
Covariate				
Physical Attractiveness	4.717	1	4.717	10.952**
Main Effects				
Alienation	1.756	1	1.756	4.078*
Locus of Control	0.688	1	0.7688	11.598
Interaction				
Alienation - Logus of Control	0.395	į	0.395	0.917
Residual	122.748	285	0.431	7
Total	130.329	289	0.451	
	Same of	MAN,	A STATE OF	

P 4 .05

Table 33
T-Testr Social Relations and Parental Attitude
by Perceived Allenation

Variable	Perceived	N	Mean	SD	4
variable	Alienation		Mean	ap.	X
Social Relations	High Low	157 155	3.006	0.645 0.654	1.23
Parental	High	155	4.987	0.624	244*
Attitude	Low	122 - \	. 5.171	0.698	

^{*} P 4 .0

Table 34

Analysis of Covariance: School Achievement by Perceived Alienation and Locus of Control with Physical Attractiveness

Source of Variation	SS	DF	MS	. E
Covariate				
Physical Attractiveness Main Effects	7.566	1	7.566	8.416**
Alienation	0.144	1	0.144	0.160
Locus of Control	0.135	1	0.135	0.150
Interaction				
Alienation-Locus of Control	0.470	1	0.470	0.523
Residual	256.235	285	0.899	
Total	264.553	289	0.915	
	N	D	7.75	200.000

** P < .0

Table 35

Analysis of Covariance: Student Self-Concept by Alienation and Locus of Control with Physical Attractiveness

Source of Variation	SS	DF	MS	F
		742.8		
Covariate		K.M.H		
Physical Attractiveness	0877	41	0.877	1.640
Main Effects				- e.y
Alienation	0.694	1	0.694	1.298
Locus of Control	0.026	1	0.026	0.048
Interaction				
Alienation-Locus of Control	0.080	1.	0.080	0.150
Residual	152.380	285	0.535	
Total	154.053	289	0.533	
CONTRACTOR OF STATE O	Charles a Charles			50 S. C. C.

Table 36 shows the analysis of covariance of

Insert Table 36 about here

estimated IO by the three dimensions of motivation with physical attractiveness as covariate. There are no significant main effect or interaction relationships. Table 37 shows the analysis of covariance of estimated social relations by the

Insert Table 37 about here

three dimensions of motivation with physical attractiveness controlled. Teacher motivation and work difficulty interact to significantly relate to social relations. Table 38 shows

Insert Table 38 about here

that student-teachers who are highly motivated and perceive their work as difficult estimate more positive social relations than do student-teachers whose motivation to teach is low and who perceive their work as not difficult. This is in contrast to those who are high on motivation and low on perceived work difficulty or vice warsa. There are no significant main effect relationships.

Table 39 shows the analysis of covariance of estimated

Insert Table 39 about here

parental attitude by the three motivation dimensions. There are no significant main effect or interaction relationships.

Analysis of Covariance: IQ by Teacher Motivation, General Motivation and Perceived Work Difficulty with Physical Attractiveness

Source of Variation	55	DF	MS	
Covariate				
Physical Attractiveness	10.397	1	10.397	4.527
Main Effects	3.	V	La Contract	474
Teacher Motivation	6.649	1	6 . 649	2.895
General Motivation	0.444	1	0.444	0.193
Work Difficulty	0.762	1.	0.762	0.332
Interaction	1			1
Teacher Motivation - General Motivation	7,977	1	7.977	3.473
Teacher Motivation - Work Difficulty	0.285	1.	0.285	0.124
General Motivation - Work Difficulty	0/105	1	0.105	0.046
Teacher Motivation - General Motivation - Work Difficulty	3.082	1	3082	1.342
Residual 1	384,922	603	2.297	1633
Total 1	415.997	611	2.318	

^{*} P < .05

Table 37

Analysis of Covariance: Social Relations by Teacher
Motivation, General Motivation and Perceived
Work Difficulty with Physical Attractiveness

Source of Variation	SS	DF	MS	15 J
Covariate		. 1		Let 1
Physical Attractiveness	11.112	gr i	11.112	30.922*
Main Effects	A LINE	1. 184	100	
Teacher Motivation	0.727	1	0.727	2.024
General Motivation	0.023	1	0.023	0.064
Work Difficulty	0.097	1	0.097	0.269
Interaction			4	To the second
Teacher Motivation - General Motivation	0.158	i,	0.158	0.439
Teacher Motivation - Work Difficulty	1.409	i	1.409	3.921*
General Motivation	0.003	1	0.003	0.009
Teacher Motivation - General Motivation Work Difficulty	0.348		0.348	0.968
	n in the second			1
Residuál	216.690	603	0.359	
Tota1	231.621	611	0.379	
	and the second	1000	-	100000

^{*} P < .05

Table 38

Means (and Standard Deviations): Social Relations by Teacher Motivation and Perceived Work Difficulty

and I		Perceived Work Difficulty		
<u> </u>		Low	High	
Teacher Motivation	Low	3.132 (0.687) n = 152	2.992 (0.623) n = 122	
	High	2.976 (0.647) n = 168	3.050 (0.552) n = 219	
	4 }			
+1.1		/ '-		
	17			

Analysis of Covariance: Parental Attitude by Teacher Motivation, General Motivation, and Perceived Work Difficulty with Physical Attractiveness

Source of Variation	ŞS	DEA	MS	/: F
Covariate		Sec. 4		
Physical Attractiveness	6.452	1	6.452	14.582**
Main Effects				×
Teacher Motivation	0.009	1	0.009	0.020
General Motivation	1.460	1	1.460	3.301
Work Difficulty	0.014	1.1	0.014	0.031
Interaction	Mr. Thomas			
Teacher Motivation- General Motivation	0.042	/ i	0.042	0.094
Teacher Motivation - Work Difficulty	0.048	1	0.048	0.109
General Motivation Work Difficulty	0.127	1	0.127	0.287
Teacher Motivation - General Motivation -	Problem			
Work Difficulty	3.301	1	3.301	7.460*-
Residual	266.810	603	0.442	
Total	278.867	- 611	0.456	
		The Party	CO MAN	and the said

^{**.}P < .01

Table 40 shows no significant main effect or inter-

Insert Table 40 about here

action relationships in the analysis of covariance of school achievement by the three motivation dimensions with physical attractiveness.

Table 41 shows the analysis of covariance of estimated

Insert Table 41 about here

student self-concept by the three dimensions of motivation.

General motivation and perceived work difficulty interact to
significantly relate to estimated student self-concept.

Table 42 indicates that when general motivation and perceived

Insert Table 42 about here

work difficulty are both high or both low estimations of selfconcept tend to be more positive.

Hypothesiå 4: Student-teachers' expectations for students are significantly related to the student-teachers' attitude towards teaching as a career.

Table 43 shows the analysis of covariance of IQ by

Insert Table 43 about here

Table 40

Analysis of Covariance: School Achievement by Teacher Motivation, General Motivation, and Perceived Work Difficulty with Physical Attractiveness

Source of Variation	SS	DF	MS	F
Covariate				
Physical Attractiveness	12.543	1	12.543	13.329*
Main Effects				
Teacher Motivation	0.001	1	0.001	0.001
General Motevation	0.003	- 1	0.003	0.004
Work Difficulty	2.451	1	2.451	2.604
Interaction	an the		Y	
Teacher Motivation - General Motivation	0.270	1	0.270	0.287
Teacher Motivation - Work Difficulty	0.425	. 1	0.425	0.451
General Motivation - Work Difficulty	0.203	1	0.203	0.216
Teacher Motivation - General Motivation -				
Work Difficulty	0.371	1	0.371	0.394
Residual	567.453	603	,0,941	
Total	583.644	611	0.955	
	4,37,760		4.37.72	of the factor

^{*} P . . 01

Table 41

Analysis of Covariance: Student Self-Concept by Teacher-Motivation, General Motivation, and Perceived Work Difficulty with Physical Attractiveness

Source of Variation	. SS	DF	MS	F
ATTACK TO A TANK A		£ .	W.	3577
Covariate	Televalus	201.7		
Physical Attractiveness	6.446	1	6.446	12.512
Main Effects				
Teacher Motivation	0.081	1	0.081	0.157
General Motivation	0.141	. 1	0.141	0.273
Work Difficulty	0.646	1	0.646	1.254
Interaction			1	100
Teacher Motivation-		W 19		11 × 11 × 1
General Motivation	0.008	1	0.008	0.016
Teacher Motivation-		21	Land Co	100
Work Difficulty	0.003	1	0.003	0.006
General Motivation -	W. W. W.		1.5	134 N. I
Work Difficulty	2.423	1	2.423	4.704
Teacher Motivation -				4
General Motivation- Work Difficulty	0.985	1	0.985	1.913
Residual	310,660	603	0.515	
Residual .	5.776.00	603	0.515	
Total	322.612	611	0.528	J. 184
PART TRACE A TEN		2.50	4 . 7 . 7	

P 4 .05

Means (and Standard Deviation): Student Self-Concept by General Motivation and Perceived Work Difficulty

General Motivation	Perceived Work Difficult		
Lów	3.443 (0.735) n = 131	3,214' (0.711) n = 126	
Bigh	3 2254 (0.714) n = 189	3.325 (0.724) n = 212	

Table 43

Analysis of Covariance: 10 by Attitude Towards
Teaching as a Career for Self and In
General with Physical Attractiveness

Source of Variation	SS	DF	MS	F
Covariate	•			
Physical Attractiveness	16.633	1	16.633	7.722**
Main Effects				
Self	15.180	ľ	15.180	7.048**
In General	8.881	1	8.881	4.123/
Interaction	14,54,94			
Self-In General	1.661	1	1.661	0.771
Residual	592.304	275 🕶	2,154	
Total .	629.849	279	2.258	
			The Mary	

** P < .01

attitude towards teaching as a career for self and in general.

There is a significant main effect relationship between
attitude towards teaching as a career for self and perceived
IQ. However, a comparison of means in Table 44 indicates that

Insert Table 44 about here

this is not significant at the .05 level.

Tables 44-48 show the analyses of covariance of social

Insert Tables 45-48 about here

relations, parents attitude, school achievement and student's self-concept by attitude towards teaching as a career. There are no significant main effect or interaction relationships.

Hypotheses Related to Background Variables

Tables 49-53 show the analyses of covariance for the

Insert Tables 49-53 about here

five expectations dimensions by age, sex, teaching program, and teaching experience. The hypotheses related to back ground variables will be examined separately.

T-Test: 10 by Attitude Towards Teaching

as a Career for Self

Variable	Attitude Towards	N Mean	SDV t
	Teaching as Care	r.	
10	Negative	112 4.16	1 1.486 1.7
	. Positive	178 3.84	1 1.486 8 1.497 1.7

Table 45

Analysis of Covariance: Social Relations by Attitude Towards
\text{Teaching as a Career for Self and In}
\text{General with Physical Attractiveness}

		-		17.5
Source of Variation .	SS	DF	Ms	F
Covariate				
Physical Attractiveness	2.885	1	2.885	7.265
Main Effects				. All
Self	0.351	1	0.351	0.884
•In General	0.019	1	0.019	,0.047
Interaction	100		1	
Self-In General	0.015	1	0.015	0.038
Residual	109.2216	275	.0.397	
Tota1	112.566	279	0.403	. M
	*	W 13 .		2 1 2 1 2

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Analysis of Covariance: Parental Attitude by Attitude Towards Teaching as a Career for Self and In General with Physical Attractiveness

Source of Variation	ss	DF	MS	7
Covariate				1
Physical Attractiveness	4.087	1	4.087	9.251**
Main Effects				
Self	0.272	1	0.272	0.616
In General	0.596	1	0.596	1.349
Interaction				扩 行情况
Self-In General	1.192	11	1.192	2.698
Residual ×	121.498	275	P.442	
Total g	127.941	279	0.459	
	· Aller with	1500 3	13 hay 2 h	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

^{**} P < .01

Analysis of Covariancer School Achievement by Attitude
Towards Teaching as a Careex for Self and In
. General with Physical Attractiveness

Source of Variation	SS	DF	MS	7
Covariate				
Physical Attractiveness	7.373	1	7.373	8.312*
Main Effects				
Self	0.119	1	0.119	0.134
In General	1.207	,. 1;	1,207	1,360
Interaction			Mr. de	
Self-In General	0.023	1	0.023	0.026
Residual	243.960	275	0.887	
Total .	252,566	279	₩.905	

** P. < .01

Table 48

Analysis of Covariance: Student's Self-Concept by
Attitude Towards Teaching as a Career for Self
and in General by Physical Attractiveness

Source of Variation	ss	DF	MS	P
Covariate				
Physical Attractiveness	0.464	1,	0.464	0.867
Main Effects				
Self	0.371	1	0.371	0.693
In General	0.869	-1	0.869	1.622
Interaction	10.50			1
Self-In General	0.036	1.	0.036	0.068
Residual	147.313,	275	0.536	
Total	148.823	279	0.533	

Table 49

Analysis of Covariance: IO by Age, Sex, Teaching
Program and Teaching Experience
With Physical Attractiveness

Source of Variation	SS	DF	MS	E
A Kinga to the				
Covariate		100		
Physical Attractiveness	16.936	1	15.936	- 7.364
Main Effects				
Age	6.883	2	3.442	1.590
Sex	5.236	354	5.236	2.420
Teaching Program	8.597	13	2.866	1.324
Teaching Experience	18.419	. 1	18.419	8.511*
Interactions			100	
Age-Sex	2.173	2	1.086	0.502
Age-Teaching Program	14.545	6	2.424	1,120
Age-Teaching Experience	4.772	2	2.386	1.103
Sex-Teaching Program	2.803	. 3	0.934	0.432
Sex-Teaching Experience	0.032	1	0 -032	0.015
Teaching Program-			100	
Teaching Experience	11.052	3	3.684	1.702
Residual	1224.883	566	2.164	100
Total	1355.857	591	2.294	
	T Y			1775

....

Table 50

Analysis of Covariance: Social relations by Age, Sex, Teaching Program and Teaching Experience with Physical Attractiveness

		· · · · · · · · · · · · · · · · · · ·	
CVC y			
11.809	11	11.809	32.125**
•		- 0.	
0.085	2	0.043	0.116
3.760	1	3.760	10.228**
1.122	3	0.374	1.017
0.392	1	0.392	1.066
1.923	2	0.961	2.615
4.030	6.	0.672	1.827
2.171	2	1.086	2.954
1.367	. 3	0.456	1.240
0.000	- 1	0.000	0.000
1.026	3	0.342	0.930
208.052	566	0.368	\ .
235.023	591	0.398	
	0.085 3.760 1.122 0.392 1.923 4.040 2.171 1.367 0.000 1.026	0.085 2 3.760 1 1.122 3 0.1392 1 1.923 2 4.000 6 2.171 2 1.567 3 0.000 1 1.026 3	0.085 2 0.093 3.760 1 3.760 1.122 3 0.374 0.392 1 0.392 1.923 2 0.961 4.030 6 0.672 2.171 2 1.086 1.167 3 0.456 0.000 1 0.000 1.026 3 0.342 200.057 566 0.368

* D - '01

Table 51

Analysis of Covariance: Parental Attitude by Age, Sex, Taching Program and Teaching Experience with Physical Attractiveness

Source of Variation	SS	DF	MS	F
Covariate		. •		
Physical Attractiveness	7.950	1	7.950	.17.546*
Main Effects				
Age	0.367	2	0.183	0.405
Sex	1.879	1	1.879	4.146*
Teaching Program	2.822	3	0.941	2.076
Teaching Experience	0.736	1	0.736	1.625
Interactions		5950		
Age-Sex	0.061	2	0.031	0.068
Age-Teaching Program >	2.810	6	0.468	1.034
Age-Teaching Experience	2.409	2	1.204	2.658
Sex-Teaching Program	1.171	3	0.390	0.862
Sex-Teaching Experience	0.Y47	1	0.147	0.325
Teaching Program- Teaching Experience	0.848	3.	0.283	0.624
Residual	256.462	566	0.453	Willia.
Total	278.599	591	0.471	

^{*} P < .05

Analysis of Covariance: School Achievement by Age, Sex, Teaching Program and Teaching Experience with Physical Attractiveness

Source of Variation	SS	DF	MS	F
Covariate				36-50
Physical Attractiveness	11.993	1	11.993	12.758*
Main Effects				
Age	2,517	2	1.258	1.339
Sex	1.570	1	1.570	1.671
Teaching Program	0.142	. /3	0.047	0.050
Teaching Experience	5.405	1	5.405	5.750
Interaction				
Age-Sex	0.048	2	0.024	0.025
Age-Teaching Program	4.642	. 6	0.774	0.823
Age-Teaching Experience	0.889	2	0.445	0.473
Sex-Teaching Program	1.952	3	0.651	0.692
Sex-Teaching Experience	1.018	1	1.018	1.083
Teaching Program- Teaching Experience	3.083	3	1.028	1.093
Residual	532.061	566	0.940	
Total .	579.901	591	0.981	
		Buch		

P < .05

P 4 .01

Table 53

Analysis of Covariance: Student Self-Concept by Age, Sex, Teaching Program and Teaching Experience with Physical Attractiveness

Source of Variation	SS	DF	MS	F
			A 1000	03.450
Covariate				
Physical Attractiveness	4.452	1	4.452	8.711**
Main Effects	SHARE		3.5	
Age	0.417	2	0.208	0.408
Sex	5.629		5.629	11.016**
Teaching Program	1.734	3	0.578	1.131
Teaching Experience	8.210	-1	8.210	16.065**
Interactions				
Age-Sex	1.080	2	0.541	1.057
Age-Teaching Program	2.275	6	0.379	0.742
Age-Teaching Experience	0.959	2	0.480	0.938
Sex-Teaching Program	0.909	3	0.303	0.593
Sex-Teaching Experience	0.011	1	0.011	0.021
Teaching Program- Teaching Experience	2.124	3	0.708	1.385
Residual	289.245	566	0.511	
Total	320.858	591	0.543	
	1		Carte in	34 4 5

^{**} P (.01

Hypothesis 5: Student-teachers' expectations for students
are significantly related to the age of the
student-teachers.

An examination of tables 49-53 shows that there are no significant age effects on expectations; nor does age interact significantly with other variables.

Bypothesis 6: Student-teachers' expectations for students

are significantly related to the sex of the
student-teachers.

An examination of Tables 49-53 shows that there are significant main effect relationships between sex and three of the expectation dimensions; social relations, parehtal attitude, and self-concept. An examination of Table 54 shows

Insert Table 54 about here

that not only are those relationships significant but that sax is significantly related to the other two dimensions of expectations as well. Male teachers perpeive students more positively on four expectation dimensions (10, septem relations, school achievement and self-concept. Female teachers estimate more positive parental attitudes than do male teachers.

There were no significant interaction relationships of sex with other variables.

T-Test: Expectations by Sex-

Variable	Sex	Ŋ	Mean	SD	t
10	Male Female	311 325	4.235 3.985	1.541 1.502	2.07*
Social Relations	Male Female	318 342	3.116 2.953	0.666 0.601	8.31*
Parental Attitude	Male Female	313 334	5.006 5.149	0.703 0.668	-2.66*
School Achievement	Male Female	310 334	3.523 3.338	1.032 0.975	2.33*
Self-Concept	Male Female	317 340	3.420. 3.188	0.740 0.708	4.09*

* P (.01

Hypothesis 7: Student-teachers' expectations for students are significantly related to the teaching program of the student-teachers.

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An examination of Tables 49-53 shows that there are no significant teaching program effects on expectations, nor does teaching program interact significantly with other variables.

Hypothesis 8: Student-teachers' expectations for students are significantly related to the teaching experience of student-teachers.

An examination of Tables 49-53 shows that there are significant main effect relationships between teaching experience and the expectations dimensions 10, school achievement, and self-concept. An examination of Table 55-confirms that

Insert Table 55 about here

those relationships are significant. Student-teachers with experience estimate 10, school achievement, and self-concept at lower levels than do student-teachers without teaching experience,

There were no significant interaction relationships of teaching experience with other variables.

Table 55

Variable	Teaching Experience	N Mean	SD É
10			1.521 5.05** 1.430 5.05**
School Achievement		468 3.524 175 3.171 \	0.945 1.116 4.00**
Self-Concept			0.734 0.686 4.86**

^{**} P 4 .01

ummary

The present study examined the effects of various attitudinal and background variables on the expectations student-teachers form. First, the effects of the studentteacher variables age, sex, teaching program and teaching experience on the attitudinal variables, self-concept, motivation, locus of control, and attitude towards teaching as a career were determined. Analyses of variance and comparison of means indicated that there were significant; relationships between teaching program and student-teacher self-concept, between teaching program and student-teacher motivation, and between sex and attitude towards teaching as a career. Second, the effects of student-teacher characteristics on expectation were determined. Analyses of covariance, with physical attractiveness treated as a covariate, indicated that expectations were significantly related to perceived physical attractiveness. These analyses also indicated that the most significant main effects were between both sex and teaching experience and the various dimensions of expectations. Chapter V will discuss these findings.

CHAPTER V

DISCUSSION AND IMPLICATIONS

Expectancy research, given impetus by the Rosenthal and Jacobson (1968) study, has established the relationship.

**Etween various student attributes such as physical attractiveness and the social and educational expectations teachers form. The present study developed from the lack of research exemining teacher attributes as predictors of expectations. It analyzed a set of data to determine whether teacher attributes affect expectations when the influence of physical attractiveness on expectations has been controlled (cf. Clifton and Baksh, 1978).

Using a perceptual theory of individual behavior as

a foundation for the research, evidence was presented which supports the hypotheses that the expectations student-teachers form are related to their perceptions of themselves, their perceptions of the world around them, and their perceptions of their goals. Specifically, it was hypothesized.that is student-teacher expectations are significantly related to self-concept, locus of control? motivation, and attitude towards teaching as a career. It was further hypothesized that student-teacher age, sex, teaching program, and teaching appriance would, to a significant degree, determine expectations. In addition to analyzing the relationships between teacher attributes and expectations, the study also examined the relationships among teacher attributes and found some

interesting results. This chapter will look at those two dimensions of the findings. In conclusion, a brief discussion of the implications of the study will be presented.

Teacher Attributes and Expectations

Other than the findings that student-teachers who perceived high levels of alienation estimated a negative parental attitude towards school, the data did not support the hypotheeised relationships between student-teacher attitudinal variables and expectations. For example, Zeliner (1970) suggested that individuals with a positive self-view were less susceptible to social influence than individuals with a negative self-view. Various other studies related self-concept to effective beaching. It was not unreasynable to assume, therefore, that student-teachers who perceived a positive self-concept were likely to hold more positive social and educational expectations. However, the data showed no evidence of this.

Lefcourt (1976) suggested that individuals with internal locus of control are very discriminating about what influences they accept and make better use of available information. One would expect these characteristics to prevail and thus affect expectations. Again, the data did not support the belief that internal control student-teachers are more likely to hold more positive expectations for students.

Highly motivated individuals are concerned with the future and tend to plan further about this characteristic relates to effective teaching, it was believed that the relationship may be through expectations. This was not evidenced in the data.

It is not a simple matter to account for the lack of predictive value of these attitudinal variables. Maybe the attitudinal variables chosen are not important. A possible source of error may be in the definition and measurement of the variables. It may also be that those attitudes tend to be positive in a university population. Rabinowitz (1966) suggested that, after high school, self-concept change is usually in a positive direction. McLaughlin (1977) indicated that locus of control changes in college. Students past their freshman year are likely to perceive more internal locus of control. Lehmann (1973) claimed that attitudes and values change from freshman to senior years. Finally, the very nature of motivation may itself preclude from the sample individuals not highly motivated since they are not likely to attend university.

Kfupp (1971) stated that the personality traits and attitudes of an individual are less important in determining his/hor effectiveness as a teacher, than a simply the number of years he/she has been teaching. Thus, if there is any relationship between teacher expectations and effective teaching, one would expect teacher expectations to be

positively related to teaching experience. However, the present analysis found that student-teachers with teaching experience estimated students' 10, ultimate school achievement, and self-concept at significantly lower levels than did atudent-teachers without such experience. This could be a result of experienced teachers adjusting their expectations to be in line with their experiences. It could also be a product of the idealism of student-teachers. Very likely, it is a combination of both

Even though it has been suggested (Whittaker's Meade, 1967) that older subjects, regardless of exe, are less subject to irrelevant influence than younger adults, age. did not appear to be a valid predictor of expectations. This may be explained by the limited range of subject age.

The most significant relationships in the data between

teacher characteristics and expectations were those between student-teacher sax and the five dimensions of expectations. However, those relationships were not consistent. Male student-teachers make higher estimates of students' 10, social relations, school achievement and self-concept than do female student-teachers, while female student-teachers expective more positive parental attitudes. This finding is not consistent with other expectancy research and there was no research with similar findings. There is evidence in the data to support the conclusion that female student-teachers are more motivated than male student-teachers towards teaching as a career. It may be reasonable to suggest that

they gaw the report card for what it was supposed to be and treated it as such, an average grade y report card. The estimation of more positive parental stitudes by female student-teachers may not be an inconsistency considering that the female role in this society has traditionally included the responsibility for educational concerns.

Relationship Among Teacher Attributes

While the direction of this study was towards examiningrelationships between teacher attributes and expectations, it was a preliminary analysis of relationships among teacher attributes that provided the most striking results.

Primary student-teachers, have significantly more positive self-concepts than do elementary, general, or high school student-teachers, with student-teachers in the general program having the least positive self-concepts. Primary and elementary student-teachers are both more highly motivated towards teaching and more highly motivated generally than are general or high school student-teachers. Primary student-teachers become more positively motivated towards teaching with age while high school student-teachers become less motivated towards teaching with age. Premale student-teachers are more positively motivated towards teaching than are male student teachers. Primary and elementary student-teachers perceived their courses to be more difficult then do general or high school student-teachers. Primary and elementary student-teachers perceived their courses to be more difficult then do general or high school student-teachers. Finarly, female student-

teachers with teaching experience have a more internal perception of control than do female student-teachers without teaching experience.

The structure of the education programs at Memorial demands that primary and elementary program student-teachers make their decision towards a teaching career at an early period in their university years. The student-teachers in the general, and to some degree high school, program can postpone the decision for some time. This helps explain the relationship between teaching program and motivation. It is reasonable to expect that self-concept becomes more positive with a firm decision and with commitment, thus explaining the relationship between program and self-concept. With the commitment to the teaching career may come harder work and perhaps the perceived work difficulty.

Brandt and Hayden (1974) found differences in .

attitudes between male and female subjects. Those differences may cause the large numbers of female student-teachers to enter the primary program. Those findings relating sex to teacher motivation suggest that what Mason, pressel, and Bain (1959) found may still be true, that men saw teaching as a stepping-stone to administration while women saw teaching as a career. .

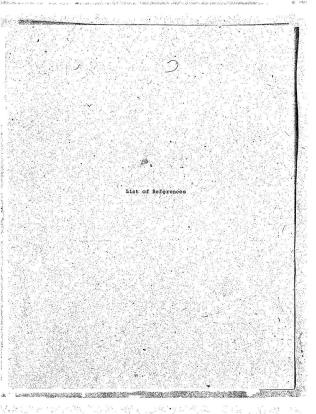
Undoubtedly, sany factors influence the achievement motivation of women, not the least of which are the differences in roles assigned to men and women by the culture (Alper, 1973).

Implications of the Study

The findings of this study have both theoretical and practical implications. Theoretically, a clear definition of expectations and an effective measure must be developed in relation to school achievement. Given the complex nature of attitude formation and the rapid and multidimensional changes in social relationships in contemporary society, the use of existing attitude measures with student-teacher or teacher samples should be quastioned.

Practically, the findings have implications for teacher education and education in general. The commitment to teacher education must be examined and re-examined during an individual's university career, and it would seem appropriate to place greater emphasis on studying the complex social relationships in the classroom. The cause and consequence for developing particular types of expectations both need to be more fully understood. Research towards developing accurate definitions and measures is needed. Administrators must become aware of the prevailing expectations in their schools, the pervasiveness of influences on expectations and the results of thas expectations. Teachers must examine their own attitudes and become aware of the possible examine their own attitudes and become aware of the possible engative influences on their expectations for students.

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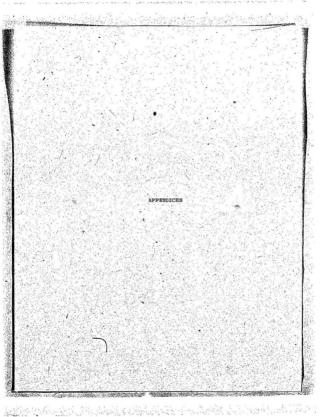
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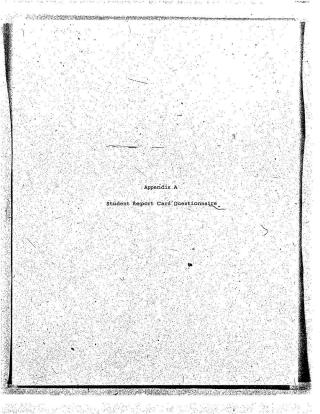
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STUDENT REPORT CARD QUESTIONNAIRE

This questionnaire has two purposes. The first is to have you, the prospective teacher, evaluate a report card and indicate how useful you find the material on it. This part of the questionnaire is designed to help us draw up better to the teacher of the property of the control of the contr

We are asking you to help us examine this issue. Study the grade 5 report card presented on page 3 and estimate, as best you can, five important pieces of information about the student. 1, 1(2, 2) social relations; 3) parental interest; Admittedly, you do not have much on which to base your judgement. But, remember, we are only asking to what extent this type of record is informative. As such, your best estimate will assist us maswer this question. Any comments you have on the There is a space left in the questionnaire for your specific comments. Please feel free to write as much as you wish.

The second, third and fourth parts of the questionnaire ask for some attitudes you have towards education, background information, and general values. We are attempting to determine how prospective teachers feel about social institutions, in general, and education, in specific.

It is extremely important that you reply to all of the questions as truthfully as you can. You will enter your answer to each question by circling a number, by placing an X in the space aext to your choice, or by writing a number in a space provided.

SUBJECT	FIRST TERM	SECOND.	FINAL
READING	1		
Comprehension	C	- A	. A
Skills	B:		8
LANGUA GE ARTS		W	23 .
English	· C	- A	
Spalling	8	- 6	A
Writing	C	Cic	8
MATHEMATICS	A	A	2 A
SOCIAL STUDIES	A	. A	- A:
History	A	A	. A
Geography	1.5	130	
Civies	I.A	: A	. A
SCIENCE	B	Α .	. A .
FRENCH .		400	- 4- in
RELIGIOUS EDUCATION	* 1.5	110.75	15 . 1
ART	· V .		V
MUSIC	1		. V
PHYSICAL EDUCATION	1		1.
Market and a second second	1	20.10	100
state from the party of the party of		475.	100
and the second second	100		V 11

NOTE

- Schools have the option of using either check marks or letter grades.
- 2. Where check marks are used the following will apply:
 - (a) Any area checked and not referred to in General Comments is considered satisfactory.
 - (b) Any area not checked is not applicable at this time.
- 3. Where Jetter grades are used the following will apply:
 - A Excellent; B High; C Fair;

 D Low: E Unsatisfactory
- At the end of the reporting period an interview with the parents will be arranged.

GENERAL COMMENTS

ACADEMIC 11/13/13. Dome 1 ment is required in Ross English and Writing . In additional material will be provided for homewor 2/27/14 Jm observed in Reading Comprehen but skill has dropped Writing skille still need imperove 6/4/14. Improvements have been observed in almost every aspect of the work. SOCIAL 1/15/18. your child hav some difficulties in a group situation but showed good independent activities. 2/21/74 Locial relationships are rowing . Speaking in front I the clase is still a problem. 6/4/ 74. Some work on social activities are required But un child has done quite

TEACHER'S SIGNATURE
PARENT'S SIGNATURE

DAY TO MAKE PROPERTY

EVALUATION O	F THE REPORT CARD
	se study the report card on the preceding page he following questions as accurately as you can.
(1)	I would estimate that the child has an IQ about: (Circle one number on the right)
*7	Below 96. 1 96-100 2 101-105 3 109-110 4 109-110 4 110-120 6 1110-120 6 1110-120 7 120-130 8
(2)	I would speculate that the child's social relationships with classmates are: (Circle one number on the right)
	Very pool. 1 Good. 2 Medium. 3 Bad. 4 Very bad. 5
(3)	I would estimate that the parents' attitude toward the child's school work is one of: (Circle one number on the right)
j	Strong interest
(4)	I would predict that this student would continue school through: (Circle one number on the right)
	2 years of high school
(5)	I would guess that the child's self-concept is: (Circle one number on the right)
Ţ	Very healthy. 1 Healthy. 2 Hoderately healthy 3 Unhealthy 4 Very unhealthy 5

	[18.16] 전 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.16 : 18.1
(6)	I find this child to be: (Circle one number on the right)
	Very attractive
	Moderately attractive 3 Unattractive 4
	Very unattractive
(7)	Comment on the usefulness of the Report
	47-78-11-12-12-12-12-12-12-12-12-12-12-12-12-
1.05	
Tiggs .	
ATTITUDES	
For	the following questions please place an X on the indicates the strength of your attitude. The middle
line indica	d in the statement.
The Name of the	경기 위점 이 경우의 시험에는 동생하게 됐으니까 되었다. 누워보다
((0)	How motivated are you to do well in your Education courses this year?
	Unmotivated Very motivated
. (9)	How strong is your desire to continue with teacher education?
	Very weak Very strong
⁽²⁾ (10)	How hard do you work at your courses this year?
	Not at all Very hard*
(11)	How difficult do you find your course work? Not at all
	difficult Extremely difficult
.(12)	How hard are you willing to work in order to become a teacher?
	Not at all Very hard

(13) How important i	s becoming a teacher to you?
Unimportant	Very important
(14) What is your ev profession at t Very unfavorable	aluation of teaching as a he present time?
(15) How competent d the present tim Very incompetent	
a student-teach	n evaluate yourself in the role as er. Use all the scales. TUDENT TEACHER
Good	Bad
Ugly	Beautiful
Cruel	Kind
Pleasant	Unpleasant
Weak	Strong
Awful	Nice
Active	Passive
Нарру 📑 📖 📖	Sad

	last quest		your evaluations on the	
	. Pro	1. 1. 1.		5
		ME AS A TEA	CHER	. 2.
	Good		Bad	-
	Ugly		Beautiful	
	Cruel		Kind	
Ple	easant		Unpleasant	-
Y	Weak	<u> </u>	Strong	-
*:::	Awful _		Nice	
1	ctive		Passive	: 1
	Нарру		Sad	
	Fair		Unfair	
OUND I	NFORMATION			
(18)	What sex a	re you? (C	circle 1 or 2)	
(19)	How old we (Circle on		our last birthday?	- 1
	18 19, 20			
	22			
(20)	What is you	our marital	status? (Circle one	1
	Widowed Divorced of	or Separated		

In this question evaluate yourself in the roles as a teacher. Use all of the scales.

(21)	What degree are you working toward? (Circle one number)
	Bachelor of Arts (Education) 1 Conjoint Degree of Bachelor of Education and Bachelor of Arts 2 Education and Bachelor of Science 3 Conjoint Degree of Bachelor of Education and Bachelor of Physical Education 4
(22)	What Program are you in? (Circle one number)
	Primary Education 1
(23)	What year of University are you in? (Circle one number)
	First
(24)	How many years have you been employed as a teacher? (Circle one number)
	Mone
UDES	
. Tr	

will bely you tell how you feel about a number of different aspects of society. For each statement write in the space provided on the right hand side the number which best describes your agreement or disagreement according to this code:

- 1. Strongly agree
 2. Moderately agree
 3. Slightly agree
 4. Slightly disagree
 5. Moderately disagree
 6. Strongly disagree

CODE

1. Strongly agree
2. Moderately agree
3. Slightly agree
4. Slightly disagree
5. Moderately disagree

g = 2	6. Strongly disagree	•
		Code Number
(25)	Teaching is about the best job I can think of	
(26)	Almost anyone in our society can improve his standard of living if he is willing to work hard	
(27)	It is almost impossible for one person to really understand the feelings of another	
(28)	These days a person doesn't really . know who he can count on	
(29)	There are a lot of advantages to teaching	
(30)	Most people who complain of bad luck don't realize how much they are the cause of it	
(31)	In this fast-changing world, with so much different information available, it is difficult to think clearly about many issues	
(32)	There is not much chance that people will really do anything to make this country a better place to live in	
(33)	I wouldn't care for the work of a teacher	
(34)	One should leave home and establish himself in the world as soon as possible	
(35)	There will always be a great lack of understanding between the older and younger generations	

CODE

1. Strongly agree
2. Moderately agree
3. Slightly agree
4. Slightly disagree
5. Moderately disagree
6. Strongly disagree

1945 P 35		Code Number
(36).	Success is more dependent upon luck than real ability	
(37)	Teaching would be a wonderful	15.4
(38)	Teaching may be all right for some people but not for me	
(39)	A man should be allowed to make as much as he can	
(40)	I am not convinced of the importance of a teaching career	
(41)	Parents often expect too much of their children	
(42)	Teaching, as a career, is not worth the sacrifice of going to college, the long hours of work, and the low pay	ě.
(43)	It's hardly fair to bring children into the world with the way things look for the future	
(44)	I am sure I would enjoy teaching	
(45)	In spite of what some people say, the lot of the average man is getting worse	
(46)	Teaching is as good a job as any :	
(47)	So many people do things well that it is easy to become discouraged	
(48)	There are more advantages than dis- advantages to teaching as a career	
(49)	I would be willing to take any job related to teaching	

Appendix B Correlation Coefficient Matrices and Factor Analyses Tables for Attitudinal Items

Table I

rable 1
Correlation Coefficients for Nine Semantic Differential

Scales on Concept "Me as Teacher"

Property of the Same of the Sa		N. S. A. S. S. S. S.				A		The State of the S	· · · · · ·	1000		
Scales		1 2 3	3	•	3	9	7	æ	6	z	Mean	S
Good- Bad	3.000									620	620 4.063 .812	.812
Beautiful -Ugly	.284	284 1.000					١			620	620 3.431 .596	. 596
Kind- Cruel	.380	380 .247 1.000	1.000							620	620 4.305 .632	. 632
Pleasant- Unpleasant	.420	.420 .225	.583	.583 1.000						620	620 4.334 .648	.648
Strong- Weak	.455	455 . 201	.300	.300 .339 1.000	1.000			1		620	620 3.963 .741	.741
Nice- Awful	.396	.396 .310 .563 .517 .373 1.000	.563	.517	.373	1.000				620	620 4.129 .643	643
Active- Passive	.382	382 .066 .359 .385 .467 .315 1.000	8. 615 9	385	.467	.315	1.000			620	620 4.284 .792	.792
Happy-	.321	.108	.108 .348 .498 .308 .361 .392 1.000	.498	308	.361	.392	1.000		620	4.384 .664	. 664
Fair Unfair	.355	.126	.394	448	.302	.404	.422	355126 .394 .448 .302404 .422 .456 1.000 620 4.531 .608	1.000	620	4.531	909
					1 - 4 - 1	******					1	

Factor Matrix for Nine Semantic Differential Scales on th
Concept "Me as Téacher" Using Principal Factor
with Iterations

Scales	Factor 1	Factor 2	Communality
Good-Bad .	.607	025	.369
Beautiful-Ugly	.315	.247	.161
Kind-Cruel	.688	.238	.530
Pleasant- Unpleasant	.735	.126	.556
Strong-Weak	.562	175	.346
Nice-Awful	.697	.279	.564
Active-Passive	.624	441	.583
Happy-Sad	.588	122	.361
Fair-Unfair	.612	113	.387
		1 1 10	
Eigenvalue	3.392	0.465	
Percent of Variance	88.0	12.0	

Table 3

Rotated Pactor Pattern for Nine Semantic Differential
Scales on the Concept "Me as Teacher"

Scales	Factor 1	Factor 2,
Good-Bad	.402	.278
Beautiful-Ugly	068	.436
Kind-Cruel	.173	.614
Pleasant-Unpleasant	.\ .322	.511
Strong-Weak	.534	.086
Nice-Awful	.135	.664
Active-Passive	1855	181
Happy-Sad	.494	.158
Fair-Unfair	.499	.180

Rotated Factor Structure for Nine Semantic Differential
Scales on the Concept "Me as Teacher"

	The state of the s	The second second second
Scales	Factor 1	Factor 2
		Market to
Good-Bad	.564	.512
Beautiful-Ugly	187	.397
Kind-Cruel	.531	.714
Pleasant-Unpleasant	.620	699
Strong-Weak	.584	.398
Nice-Awful	.522	.743
Active-Passive	.749	.317
Happy-Sad	.587	.447
Fair-Unfair	.604	.471

lable

Factor-Score Coefficients for Nine Semantic Differential Scales for Concept "Me as Teacher"

	The state of the s	
Scales	Factor 1	Pactor 2
1	Maria de Caracteria.	
Good-Bad	.130	.112
Beautiful-Ugly	010	.116
Kind-Cruel	.055	.284
Pleasant-Unpleasant	.148	.257
Strong-Weak	.153	.038
Nice-Awful	.062	.347
Active-Passive	.406	106
Happy-Sad	.152	.048
Fair-Unfair	.160	.062
SE THE REAL PROPERTY.		and the state of t

Table

tems	- 76	27	. 28.	30	31	35	35	36	43	45	47	Z.	Mean . 'SD	SD
)%	1.000			4.								312.	5.183	1,124
27	043	1.000										312	3.878	1.676
28	026	. :	1.000									312	3.818	1.575
30	.249	1	032	1.000								312	4.481	1.250
31	045	.214	. 260	124	1.000							312	3.032	1.448
32	.022		.262			1.000	1	4				312	4.397	1.497
35	078	Y	.269	T	.221		1.000					315	4.276	1.448
36	.270	100	.096			1		d	1	`		312	5.071	1.146
43			.177			1/1			1.000			312	4.609	
45	.055		.273	106		.306	.307	.122.	262	1.000		312	3.683	1.398
47	.019		. 225	1	.250			10	.287	.239	1.000	3.1.2	4.045	1.393

Phose numbers refer to meetionneine thome

Factor Matrix for Eleven Locus of Control and Alienation

Item	Factor 1	Factor 2	Factor 3	Factor 4.	Communality
26*	.005	.627	.264	025	.464
27.	.386	116	.132	275	.256
28	-555	039	.024	316	.410
30	191	.448	096.	.266	.317
31	.428	112	.063	.087	.207
32	.569	021	.095	189	369 %
35	.512	127	12î	074	.298
36	.267	.325	.222	113	.239
43	.405	.305	454	057	.467
45	.520	.061	051	122	.292
47	.446	.072	170	014	.234
Eigenva	1ues 1.967	.846	.412	.327	
Percent Variance		23.8	11.6	9.2	

^{*}These numbers refer to questionnaire items.

Table 8

Factor Matrix for Eleven Locus of Control and Alienation

Items Using Principal Factor with Iterations

Items	Factor: 1	Factor 2	Communality
26*	.003	.633	0,400
27	.373	095	.148
28	.528	029	279
30 -	187	.389	.186
31	.435	104	.200
32	.567	003	.321
35	519	-,114	.283
36	7 .263	:338	184
43	349	.209	× .165
45	.525	.068	.280
47	7444	.067	2202
Eigenvalues	1.896	0.752	
Percent of Variance	71.6	28.4	

Rotated Factor Pattern of Eleven Locus of Congrol

Item	Pactor 1	Factor 2
26* / /	023	.633
27	.376	090
28	.528	⊢.021
3.0	203	.386
31	.439	097
32	.567	.006
35	.524	-,106
36	.249	.342
43	.340	.214
45	.522	-076
47	.441	.074



Rotated Factor Structure for Eleven Locus of Control

Ttem.	Factor 1	Pactor
	等点是24条型化生物。	ENTRACE.
26*	-,007	.632
27	.374	080
.28	4528	007
30	-,193	.381
31	.437	₹085
32	.567	.021
35	.521	092
36	.258	.349
43	.346	.223
45	.524	.090
47	.443	.085

Table 11

Factor-Score Coefficients for Eleven Locus of Control
and Alienation Items

Item	Factor 1	Factor
26*	007	.503
27	.123	049
28	.210	008
30	065	.222
31	.156	057
32	.237	.005
35	.204	064
36	.087	.193
43	.115	.135
45	.204	.051
47	159	.049

^{*}These numbers refer to guestionnaire items.

Table 12
Correlation Coefficients Among Eight Motivation Items

SD	0.833	0.815	0.739	0.848	0.668	0.790	1.008	0.959
Mean	4.329	4.420	3.955	3.014	4.464	4.412	3.991	3.486
N	. 662	662	662	662	2/	662	662	662
12								1.000
14	7						3 1.000	109
13.						1.000	. 293	194
12		7			1.000	.624	.191	174
11				3.000	.179	-231	.142	040
10			1.000					
6		1.000	.303	178	.592	.631	286	147
œ	000	.416	.551	109	.375	332	.164	.085
u.	*8	•						
9		2.11	1000	22.5		3	Acres .	4.0

Table 13

Factor Matrix of Bight Motivation Items Using Principal

Pactor with Interactions

Item	Factor 1	Factor 2	Factor 3	Communalit
88	.598	.380	117	.516
9	.750	201	075	.608
10	-588	.526	.017	.624
11	.302	.015	.594	.444
12	733	124	073	.558
13	.778	318	.002	.707
14	.323	118	.058	.121
15	-204	070	146	.068
Sigenvalues	2.645	.598	.402	
Percent of Variance	72,6	16.4	11.0	

^{*}These numbers refer to questionnaire items.

Table 14

Rotated Factor Pattern for Eight Motivation Items

Item	Factor 1	Factor 2	Factor 3
8*	.100	.665	052
9	.736	.073	.020
10	065	.809	.078
11	.093	.065	.632
12	.653	.152	018
13	.850	155	.104
14	.329	013	1100
15	_238	.017	120

^{*} These numbers refer to questionnaire items.

Table 15

Rotated Factor Structure of Eight Metivation Items

tem	Factor 1	Factor 2	Factor 3
8*	.445	.711	.046
9	.777	.464	.121
10	.371	.784	.174
11	-205	/.195	.652
12	.736	.499	V.119
13	.833	.407	.202
14	.334	.173	.139
15	.232	.127	088

. Table 16

Factor Score Coefficients for Eight Motivation Items

Item	Factor 1	Pactor 2	Factor 3
8*	.065	.341	079
9	.307	.091	025
10	.011	.521	.088
11	009	.016	.621
12	.227	.108	039
13	.450	.006	.100
14	.055	.004	.048
15	.047	.009	081

^{*}These numbers refer to questionnaire items.



Correlation Coefficients Among Eleven "Attitude Towards Teaching as a Career" Item

A 100 100 0				1				1	-	-	-
Items	25	29 33	1.	37	38/	40	42	74	46	48 49	49
25*	1.000				>				1		
29	.317	1.000									
33	.301	.223	.223 1,000							i,	
37	.122	004	.030	1.000							
38	.324	.208,	. 465	.118	1.000						1
40	.274	.154	.154 .369 .030	.030	406	1.000				8	
42	.139	.168	.284	7.00	.242	.298	1.000				ě.,
44	.212	690.	.280	. 109	309	.238		1.000			
46	.137	.140	.025	197	.047	036	.034	.012	1.000		
48	.212	.321	.065	.046	,154	920.	.086	.095 .220 1.000	.220	1.000	ı
49	.157	.097	.194	.193	.195	.013	.223	.157	.095	0110	.000.1 011. 260.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						Sept. Sept.		8 24 4		

Table 18

· Factor Matrix for Eleven "Attitude Towards Teaching as a Career" Items Using Principal Factor with Iterations

Item	Factor 1	Factor 2	Factor 3	Communality
25*	.530	.133	052	.302
29	.444	-330	⇒.344	.424
33	.626	232	014	.446
37	.189	.199	.450	.278
38	.666	168	.054	.475
40	.533	287	103	.377
42	.398	072	.036	.165
44	.399	113	.126	:187
46	.161	.407	.134	.210
48	-313	.407	150	.286
49	,313	.116	.267	.183
Eigenvalues	2.171	0.694	0.467	
Percent of Variance	65.2	20.8	14.0	\sim

^{*}These numbers refer to questionnaire items.

Table 19 /

Rotated Factor Pattern of Eleven "Attitude Towards

Toaching as Career" Items

Item Factor 2 Factor 1 Factor 3 25* .349 .061 .309 29 .143 :622 -.156 -.030 33 -667 .017 37 .035 -.054 .532 38 .660 .040 .065 40 . 625 -.003 -.146 42 .377 .045 .053 44 4.044 -405 .125 46 -.130 .302 .302 48 -.011 .525 .045

. 187

.030

.338

49

^{*}These numbers refer to questionnaire items.

Table 20

ROtated Factor Structure for Eleven "Attitude Towards Teaching as a Career" Items

tem	Factor 1	Factor 2	Factor 3
25*	.450	.426	.208
29	.294	.623	.034
33	.667	.203	.100
37	.119***	.095	.524
38	.684	.248	.200
40	.597	.139	030
42	.399	.168	.136
44	° .415	.106	.189
46	.014	.343	.357
48	.149	.533	.181
49	.260	(.1/3	.381

Table 21

Factor Score Coefficients for Eleven "Attitude Towards Teaching as a Career" Items

Item	Pactor 1	Pactor 2	Factor 3
25*	.122	.183	.083
29	.057	.427	083
33 / 29	.301	.006	009
37 e	.024	.013	.401
38	.312	9 .037	.089
40	.252	016	121
42	.110	,024	.051
44	.122	013	.086
46	040	.182	.228
48	003	.307	.079
49	.068	.038	.230

These numbers refer to questionnaire items.

