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ABSTRACT

This report summarizes activities of the pilot year (1981-82) of the Louisiana School Effectiveness Study (LSES), a five-year exploration of those factors that make some of Louisiana's schools more effective than others in educating students. The pilot year of the project was conducted in the Caddo Parish School System and accomplished two tasks: (1) identification of important socioeconomic and school variables; and (2) construction and pilot testing of a questionnaire designed to measure school climate variables. It was found that schools scoring above average on the parish's State Assessment Test scores shared several characteristics: highly educated parents; students with fewest siblings; greatest percentage of fathers in professional jobs and smallest numbers of mothers in nonprofessional jobs; majority white student bodies; faculties with highest educational attainment and teaching experience; and the largest percentage of white teachers. Schools scoring below the parish's average had the reverse ratings on these characteristics. However, a predictive mathematical model found striking contrasts between predicted and actual school performance. Further analysis determined that the numerous socioeconomic variables explored were so highly correlated as to be considered one separate dimension in school effectiveness, while two separate important dimensions (teacher preparation and teacher experience) emerged among the school variables. Teacher, parent and peer expectations also were found to vary among schools of higher and lower effectiveness. Much of this report consists of tables demonstrating the study's statistical analysis of variables. Student, teacher, and principal questionnaires are appended. (GC)



THE LOUISIANA SCHOOL EFFECTIVENESS STUDY

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LOUISIANA SCHOOL EFFECTIVENESS STUDY

PILOT YEAR 1981-82

Bureau of Research Department of Education State of Louisiana

and

Department of Sociology Louisiana State University



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LOUISIANA SCHOOL EFFECTIVENESS STUDY

ABSTRACT

This report is a summary of the activities of the pilot year of the Louisiana School Effectiveness Study (LSES). The joint project is being conducted by the Office of Research and Development, Louisiana Department of Education and the Department of Sociology, Louisiana State University. LSES is being conducted as a mandate of R.S. 17:391.3(E).

Our hypothesis is that given the same socioeconomic characteristics with both students and faculties, some schools produce better educated students than others. Some of the factors are known elements. In fact, previously conducted research has isolated factors that explain approximately 60 percent of the variance (differences in student achievement). This project is attempting to determine the factors that explain the remaining 40 percent of the variance.

Therefore, we have conceived this study as a five-year exploration of those factors that make some Louisiana schools more effective in educating students. The pilot year of the project accomplished two tasks:

- o important socioeconomic and school variables were identified
- o a questionnaire was constructed and pilot tested to measure variables in the school educational climate.

The Caddo Parish School System provided the site for the pilot study. The system shared results from the 1981 State Assessment Test as well as pertinent socioeconomic characteristics of its students and faculties.

Profiles were generated describing how well individual schools <u>actually performed</u> compared to average parish test results on the State Assessment Tests. Schools were grouped into three areas: "above," "below," or "equal to" the parish's average test scores categories. Next, profiles were generated describing how well individual schools performed relative to their <u>expected performance</u> on the State Assessment Tests. Thus, the profiles reflected comparisons of both <u>actual</u> performance and expected performance.

There was much variance between the "above" than and "below" than groups in the <u>actual</u> performance profiles. Specifically, those schools scoring "above" than the average parish score had the following student characteristics:

- o highly educated parents
- o fewest siblings
- o greatest percentage of fathers in professional jobs
- o smallest number of mothers in nonprofessional jobs

In addition, the majority of these student bodies were white. Students in schools scoring "below" the parish's average assessment scores had reverse ratings on these characteristics. Students from schools scoring "equal to" the parish's average had ratings in between.

Further, schools scoring "above" the parish's average assessment scores had faculties with the following characteristics:

- o the highest common and area scores on NTE
- o the largest percentage of white teachers
- o the highest years of teacher experience
- o the most graduate education, and



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o the highest percentage of graduates from colleges with high prestige

Schools scoring "below" the parish's average had the reverse ratings on these faculty characteristics.

The investigators Leveloped a mathematical model allowing predictions of how well schools should perform on the State Assessment Test given different socioeconomic and school characteristics. Comparison between actual performance and expected performance presents a striking contrast to those results just described. Comparisons between schools scoring "above" expected with those scoring "below" expected revealed that socioeconomic characteristics of the student bodies as well as school characteristics were very similar. One of the investigators' hypotheses was that these similar school inputs could yield different results building by building. These results lend partial support to that hypothesis.

Further results from the analyses of this secondary data are also presented. These analyses had three purposes: (1) to determine how much variation in state assessment scores can be explained by both socioeconomic and school variables; (2) to compare the relative strengths of these socioeconomic and school variables in explaining variation in state assessment scores; and (3) to determine which school variables are the most important in explaining state assessment scores. The regression models used in these analyses vary by grade level and by number of independent variables in the models.

The results of these analyses are very consistent: (1) the set of socioeconomic variables and the set of school variables can separately explain a significant amount of the variance in state assessment scores; (2) when combined in one set of predictors, the two sets of variables explain common or overlapping variance plus some additional variance unique to each set of predictors; and (3) a reduced model (with six variables) explains as much of the variance in state assessment scores as a larger model (15 to 17 variables). An analysis, which enables the investigators to take into consideration the effect of the students' socioeconomic characteristics before entering the effect of the schools' characteristics, yields interesting results: (1) across grade levels, school characteristics explain a consistent, modest amount of variance in assessment scores beyond that accounted for by the students' socioeconomic characteristics; (2) this fluctuates by grade level with less additional variance explained by school characteristics at the third grade level; and (3) this also varies by subject area with more additional variance explained on some tests than on others.

The correlation between the socioeconomic and school variables led the investigators to perform additional analyses that would determine underlying dimensions or commonalities among these variables. It was determined that the socioeconomic variables are so highly correlated that they could be considered to be one separate dimension, while three separate dimensions emerged among the school variables. Two of these dimensions appear to be important: (1) variables associated with teacher preparation [including mean faculty score on both the NTE Commons and Area Examinations and average prestige of the universities from which faculty members were graduated]; and (2) variables associated with teacher experience [including teacher experience and highest degree received].

The investigators decided to explore further differences in schools scoring "above" and "below" expected on state assessment tests by administering a



questionnaire to students in a selected group of schools. The questionnaire was adapted from a recent study of school educational climate conducted in Michigan. It was revised based upon our own pretest in Iberia Parish. A technique to measure student time-on-task was also pretested in Iberia Parish, but this technique will not be extensively used until the 1982-83 year of the study.

Once the questionnaire was revised, it was administered to approximately 565 students from 10 schools in Caddo Parish. For the purpose of data analysis, these schools were divided into those predicted to score high or low on state assessment tests and those actually scoring high or low.

Students from those schools predicted to score higher perceived their parents and peers to have higher educational expectations for them. However, teachers of students in schools predicted to score lower are perceived by their students as having higher educational expectations for them. This contradiction between perceptions of teacher expectations and of parent/peer expectations was explained in terms of the teachers from the lower predicted group being more willing to urge their students to perform better.

Students from schools <u>actually</u> doing well had a greater sense of personal control over their academic lives and also had higher educational expectations than students from schools <u>actually</u> doing poorly. The differences are explained by school educational climate, rather than student socioeconomic background. Students from schools <u>actually</u> scoring well report a better learning environment.

Additionally, there was an overall pattern of results in which students from schools that scored inconsistently with regard to prediction (i.e. high expectation and low performance; low expectation and high performance) responded alike as did students from schools that scored consistently with regard to prediction.

In schools in which scoring was inconsistent with prediction, there is evidence of greater teacher expectation. This has several repercussions for the students in those schools:

- o they feel less sense of personal control in their school work
- o they perceive a more structured classroom environment, and
- o they internalize the teacher expectations, yet may not feel capable of meeting those standards.

The results of these analyses from the pilot year of LSES have given investigators a number of interesting areas to pursue in the next year of the project.

Goals for the 1982-83 year of LSES include:

- a continuing review of the school effectiveness literature, with special emphasis on studies conducted by other state departments of education
- o incorporation of a time-on-task methodology into the research design
- o final revision of the questionnaire, emphasizing more sophisticated measurements of childrens' perceptions of social/psychological variables; and
- o expansion of the study to a representative sample of approximately 100 schools throughout Louisiana, based upon a modification of a sampling system used for the 1982 Louisiana minimum competency testing pilot project.



In summary, we are seeking information that defines in measurable terms why some schools work and why others do not do an adequate job in educating young people. At the end of the pilot year, we feel we are a step closer to knowing some of these answers.



CHAPTER ONE INTRODUCTION

I. Enabling Legislation

In 1977, the State of Louisiana passed its first educational accountability legislation (Louisiana R.S. 17:391). This legislation was phrased so that agencies such as the State Department of Education were given a broad inclusive mandate to undertake research on the educational process in Louisiana. The authors of the act realized that, in the absence of codified information on the educational process, both time and considerable effort would be required to generate such information. This would entail the establishment of standardized tests to be used throughout the state, the administration of these tests, the collection of data from them, and so on. The State Department of Education (through the Office of Research and Development) has initiated the development of appropriate testing instruments and, in fact, has produced results for school districts throughout the state. these results teil us little about why districts vary; why some do well, while others do poorly. Ultimately, the question being asked here is the degree to which children learn their subjects as measured on a test given to them. The need to understand the process by which this happens is clear in Louisiana R.S. 17:391.3.

In carrying out the accountability program, the local school boards and the State Department of Education shall identify and define educational variables which may affect learning. These variables shall include, but not be limited to, the physical, intellectual, social, and emotional development of pupils. Educational variables, surveys or studies shall be conducted by the State Department of Education to assess their relationship to learning.

To this end the investigators have begun the Louisiana School Effectiveness Study (LSES).

II. Basic Definitions

What Is a "School Effect"?

The idea of a school effect is well rooted in the sociological and educational literature. What is posited by this concept is that some quality is thought to exist in the school as a whole which affects the students in the school. This is not necessarily a quality that can be seen or felt in any direct way, but it nonetheless is thought to exist. Some may think of it as a particular ambience or aura found in a given place. It is much akin to saying "the whole is greater than the sum of its parts." In other words, individually, each of us could not, indeed would not, have this effect; only in the collective or aggregate do we experience it.

This aggregate quality is important to understand so that the meaning of school effects is clear. One can visit any school district (in Louisiana or elsewhere) and one can quickly be informed about the "good" and "bad" schools. At first, these places are not usually described in terms of their student bodies but, rather, in terms of the school as a totality. It is only



after probing that one hears details about a principal, the students, and other particulars about the school. In a causal fashion, the relationship between the students and the school is an interesting one. The question which can be posed is simply this: Do good students produce good schools or is the reverse true? This question is complicated by a couple of things: first, what constitutes a "good student"? When we use this term do we mean IQ? Socioeconomic status? Behavior in schools? Second, all things being equal (i.e., controlling on as many background variables as possible), why is it that some seemingly comparable schools are characterized in such radically opposing ways, some being good and others bad?

The position taken in this study is that a school is "good" because it is effective in educating its students. It marshalls its human and capital resources in such a way that the outcome from the educational process is optimized. This position is in the best tradition of accountability research. That is, the educational process is intentionally over-simplified and made equivalent to any other productive process. This line of reasoning posits that as part of the process, a degree of quality control must be exercised. In public education, this control takes the form of regularly measuring how well students do on standardized tests. The standardized tests, then, are the products by which assessments are made about the goodness or badness of the educational experiences at any given school or in any given school district.

B. Policy vs. Non-Policy Variables

At the heart of the LSES is the attempt to unravel the process which places the school in a position of being an intervener in the child's life--an intervener between parental socialization influences on the one hand and adult outcomes for the child on the other. Previous research has documented how much influence family background factors have on predicting as student grades and test scores. The results on school-specific indicators are more mixed, with some items, such as library size and pupil-teacher ratio, being relatively unimportant, and other items, such as curriculum and teacher qualifications, being highly important. What this family-school contrast demonstrates is that there are two classes of variables in school effects research. The class of family, non-school variables is beyond the control of those directly involved in the schooling process. Although it may be true that students' scores improve in direct proportion to family income, educators can do nothing to dramatically affect this relationship -- i.e., they cannot directly increase family income and thereby improve the test scores The class of school-specific variables, however, is for their students. These constitute variables which are manipulable by the another matter. educational organization. For example, decisions can be made and implemented on such matters as improvement of NTE scores, more students in certain curricula. Although the LSES will consider family background and the degree to which it characterizes an entire school (e.g., as middle class, working class.), it is principally with an eye to the school-specific variables that This allows for an assessment of the the project has been undertaken. central question guiding this study: how can school variables be used to affect student scores on standardized tests?

III. Overview of Pilot Year Activities

A. Examination of Secondary Dataset

The first task undertaken in the pilot year of the LSES was to construct a dataset composed of available indicators of the student socioeconomic characteristics and the school structural characteristics of a school system in Louisiana. The Caddo Parish school system was selected for this purpose for two reasons: (1) it has one of the most completely computerized student and personnel data systems in the state; and (2) because of the large number and variety of schools in Caddo Parish, it may be reasonably assumed that there are schools in the system which are differentially effective in educating their students. The composition of the Caddo database will be described in detail in Chapter Three.

There exists a large and constantly expanding literature on the relationship between student and school inputs and resultant school outputs [see Glasman and Biniaminov (1981) for a recent literature review]. A number of studies published in the mid-1960's and early 1970's [Coleman et al. (1966); Jencks et al. (1972); Hauser, Sewell and Alwin (1976)] presented evidence that school inputs do not have much influence on student achievement. The Coleman Report concluded that variance in academic achievement is associated with the socioeconomic and racial composition of schools, but not with school inputs.

These negative findings have sparked a number of recent studies which have yielded more positive results about the effects of school characteristics on student achievement [Bidwell and Kasarda (1975); Bloom (1981); Brookover et al. (1979); Rutter (1979); Summers and Wolfe (1977); Weber (1971)]. These studies have identified school characteristics associated with effective schools; yet each study has yielded a slightly different set of important school characteristics. This failure to yield consistent results may be a function of methodological problems in the school effectiveness area (Maldaus, Airasian and Kellaghan, 1980), or may indicate that school characteristics make different contributions in different academic environments. Examination of the relative contributions of school characteristics and socioeconomic characteristics in Caddo Parish should lead the investigators to some preliminary conclusions about the school characteristics most related to effective schooling, specifically in Louisiana.

of particular interest to the investigators in this pilot study were school variables which measured the effect of teacher and principal backgrounds and personal characteristics on students' performances in Louisiana. Recent legislation in Louisiana has required teaching candidates to make a minimum score on the National Teachers' Examinations before they are certified. Research on the relationship between NTE scores of faculty and student achievement scores in scanty and inconclusive [North Carolina Department of Public Instruction (1981); Piper and Sullivan, (1981); Stauss and Sawyer (1981)]. It is hoped that results from the LSES will guide educational policy makers in Louisiana in future decisions about the use of the NTE for teacher certification.



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B. Administration of School Climate Questionnaire

The literature concerned with school inputs and outputs focuses on structural school characteristics (such as teacher qualifications, student-teacher ratio, and so forth), which can be gathered from personnel and school files. Recent evidence (Brookover, et al. 1979) indicates that social-psychological indices of school climate may also explain variance in student achievement and other behavioral outcomes of students. Brookover measures school climate in terms of a number of subsets of variables which include the students' perception of others' expectations and evaluations of them, and the norms of the school social environment.

The investigators decided to revise Brookover's research instrument and administer it to students who, from Caddo Parish schools, scored better or worse than expected on Louisiana state assessment tests. It was hypothesized that there might be school climate differences between schools performing better than expected and schools performing worse than expected. The results of this study are presented in Chapter Five.

The pilot year of the LSES thus had two basic components: (1) there was an investigation of the relative contributions of structural school characteristics and students' socioeconomic characteristics to students' performances, with an emphasis on determination of the most important structural school characteristics in Louisiana; and (2) there was a further investigation of the school climate differences that might exist between schools performing better and schools performing worse than expected on state assessment tests.



CHAPTER TWO DESCRIPTIVE ANALYSES

I. Comparison of Schools Scoring Above, Equal to, or Below the Parish's Average Assessment Score

A. Third Grade

Tables 1 and 2 provide data on selected socioeconomic and school characteristics for the third grade students in Caddo Parish. These data were organized into three categories which reflect how well any given school did in relation to parish assessment scores—thus the categories of above, below, or equal. In addition to the summed means by school for each variable, Tables 1 and 2 also provide statistical means for each category. It is these means, in particular, which are discussed in this section of the analysis; the same means are discussed in subsequent sections for seventh and tenth grade students.

It is important to note that 36 of the 45 schools (80 percent) scored equal to or above parish averages. For a school to be classified as scoring above the parish's average assessment score, that school had to score one standard deviation above the parish's average assessment score on at least two of the assessment tests. Were one to graph or otherwise depict the relationship between these categorical means, it would be apparent that one can almost perfectly arrange the groups in a hierarchical way In literally every case, those schools which scored above average do better on all variables than schools either scoring equal to, or below the parish average. importance is that with three exceptions, this same comment is sustained in comparing those schools scoring below average with those scoring equal to or above the parish average. In fact, in those cases where this is not so, the schools' scores are nearly identical. Thus, those schools which did the poorest relative to parish scores also did the poorest on virtually every one of the socioeconomic and school variables.

A summary of the findings for the means is presented in Table 3. In reading these results as rows (in other words, across the page), the clarity of the findings really stands out. Students in schools which scored above the parish's average assessment score had the most highly educated parents, the fewest siblings, a greater percentage of fathers in professional jobs, the smallest percentage of mothers in nonprofessional jobs and were in schools which were always majority white. Conversely, students in schools which scored below the parish averages had parents with the lowest educational levels, had the most siblings, the lowest percentage of fathers with professional positions and were in schools which were nearly 100 percent black. For every one of the variables, in this first set of analyses, students who were in schools scoring equal to parish averages fell between the other types of schools.

When the results for school characteristics are examined, the results are similar, although not quite so uniformly hierarchical. Notice that the school scoring above parish averages had faculties with the highest Commons and Area scores on the NTE, had a higher percentage of white teachers, had fewer teacher absences, but higher years of teacher experience, more graduate



education, more prestigious college degrees, a lower number of total students in the school and, importantly, a somewhat higher student-teacher ratio. Again, the exact opposite held for those schools scoring below the parish averages. Their faculties had the lowest NTE scores, higher absences, and so on. The most paradoxical finding from this particular analysis is that schools scoring below parish averages had the lowest student-teacher ratio; this finding runs counter to what many people believe should be helpful to school achievement scores, and it is a point to which the investigators return in later analyses.

B. Seventh Grade

Virtually every one of the above observation made about third grade schools holds equally for seventh grade schools. The means for these schools are contained in Tables 4 - 6. In this case 77 percent (14 of 18) of the schools scored at or above the parish average for all seventh grade schools. Again, in every important comparison schools scoring above the parish average fared better than those scoring below. This, again, includes all socioeconomic variables, teacher NTE scores, absences, and so on. This finding also holds for a variable not used with third graders—days suspended. Note that the figure for days suspended is lower for schools scoring above average than for schools scoring below average. Again there are higher student—teacher ratios in schools scoring above or equal to the parish average assessment scores.

A final point on the seventh grade analysis bears mentioning. It was noted above that there was a hierarchical ordering to the categories, ranging from schools scoring above average through schools scoring below average. This finding also was observed for the seventh grade in nearly every case. The exceptions were for the seventh grade was teacher experience and total number of students.

C. Tenth Grade

Results for the tenth grade schools are reported in Tables 7 - 9. Since only one school scored above the parish average, it was deleted from further mention here. It should be noted, however, that this school's characteristics are substantively interesting and further support previous findings about those schools which scored above parish averages. Focusing only on those schools scoring equal, to or below the parish averages, earlier findings are again confirmed. Children in the more successful schools are from better educated families with parents more likely to be in professional These schools are also more likely to be majority white, in occupations. both students and teaching staffs, have teachers with comparatively higher NTE scores, and so on. In general, what one finds with those schools scoring below the parish averages is that they are over-represented by majority black Thus, they have lower educational levels for the parents and a greater number of siblings. More relevant for educators is that these schools also have majority black teaching staffs who have performed more poorly on the NTE.

D. Summary

This part of the analysis has been intended solely to give the reader an overview of the characteristics of the schools for which there are data. The



correspondence between the categories and race is isomorphic (i.e., nearly 1:1). Phrased differently, knowing the race of a school would allow one to predict where it scored relative to an overall parish average on any given state assessment test. This is neither surprising nor controversial. Instead, it reflects the well known fact that blacks are over-represented in terms of economic impoverishment. Given that there is a fairly substantial relationship between familial economic advantage and assessment scores, one would expect that schools in Caddo Parish would be much like those elsewhere; and, in fact, they seem to be.

The problematic quality to this part of the descriptive analysis is that the majority black schools in which students do comparatively worse than do students in predominantly white schools have certain structural qualities which have nothing to do with the students. Three things stand out. First, these schools consistently, across all grade levels, have teachers with lower NTE scores. While NTE scores may not be equated with teacher effectiveness, they are nonetheless one indicator of teacher intellectual ability (as measured on this test). Second, as was alluded, this may be an artifact of teacher race, since these schools almost always have majority black teaching staffs; this point will be examined in further analyses. Third, and also across all grade levels, these schools always have higher teacher absences. While this is only speculative, its consistency at least suggests that these teachers are somewhat less satisfied with their job situations than are other teachers.

II. Comparison of Schools Scoring Above, Below or Approximately As Predicted on State Assessment Tests

Were one to form policy directives based on the preceding analysis, one would probably wish for every child to attend majority white schools, with majority white teaching staffs, since those schools so consistently outperformed all others. However, the analysis reported above addresses a deceptively simple question: Relative to parish norms (i.e., averages), how well does any school do? The shortcoming to this kind of approach is that it fails to consider the different inputs each school has. Phrased differently, it is known that two schools whose socioeconomic characteristics are radically diverse will, in all probability, report highly different test scores. All that this kind of analysis can tell, then, is the degree to which schools vary with regard to actual performance. Nothing can be said about how well schools should do, given their different inputs. This part of the analysis focuses on that issue.

The results reported in Tables 10-15 are all based on regression equations which allowed the researchers to control on the different resources which schools have. The specifics of these regression equations, and how they were used to generate expected scores for schools, will be discussed in Chapters Three and Five. In keeping with the argument outlined above, the regressions allow one to say that given a certain set of resources, any given school should be expected to score within a certain range of values on a standardized test. For our study this was the state assessment test. All things being equal, two schools with similar resources should score approximately the same on the test. This can be made analogous to two investors with the same amount of money to invest. If all controls are exercised on the time which they control their money, and if each has the same opportunities



presented to him/her to invest, then it is possible that each will realize the same returns on his/her investment. If, on the other hand, each realizes a much different return — one highly successful and the other not — then it can only be due to the investment strategy which was chosen. In schools, a similar thing can happen. Two schools which appear from socioeconomic and other characteristics to be alike may have test scores which are very different. How can this difference be explained? As stated at the outset of this report, some researchers argue that this differential outcome is, at least in part, the result of a "school effect."

Of course, it is school effects which interest the investigators. In this part of the analysis the researchers begin to address them more specifically because the analyses are based on regression models.

Presented now is a descriptive account of the regression results, focusing on a comparison of the socioeconomic and the school characteristics of those which did better, worse, or equal to what was predicted. These comparisons will indicate how schools differ, given our expectations for them.

A. Third Grade

Analyses for the third grade are found in Tables 10-12. The analyses contrast sharply with those presented earlier. In these earlier analyses, there were consistent differences between schools which met, or failed to meet, parish averages. Here that is not the case. Instead of sharp contrasts, there is incredible similarity. Looking across the rows for each variable, there is case after case of comparable mean values (See Table 12). While statistical means are only a measure of central tendency, and thus obscure or overlook some of the variation between schools within each category, they do give a graphic demonstration of how much alike the aggregates of schools are when using predicted scores as the basis for grouping them.

Parental educational and occupational values vary little between the categories—in fact, more often than not, they are nearly identical. When there are slight differences, the differences occur in the group scoring approximately as predicted. Likewise, NTE scores are virtually the same for the three categories with only ten points separating the highest and lowest scores.

There is a one percent difference in the percentage of students who are black and in the percentage of the faculty that is black between those schools with students scoring above and below predicted scores. This same kind of comparability obtains in every other comparison, except for total school population, where the group scoring approximately as predicted, has more students than the other two groups.

If the analysis went no further, the investigators would be in the awkward situation of concluding that whether or not a school does well is by luck of the draw. Indeed the statistical means vary so little across the categories that predicting whether a school will do well or not seems impossible.

On the other hand, another interpretation can be offered. This interpretation is the one subscribed to herein-which is consistent with the thesis about school effects. The position is that schools do differ in their outcomes,

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controlling on inputs. It is true that when one looks at the categorical means, the schools are very similar; however, when one looks at the state assessment scores, the schools perform very differently. Thus, given similar inputs, schools do yield different results.

To illustrate this point, examine the values for schools A2, A6, A7 and A8 for the schools scoring above what was predicted, and then examine schools B5 and B7 for schools scoring below. Although they are not mirror images of one another, many of their socioeconomic and school characteristics are quite comparable. In all cases but one, parents have between 3.6 and 4.0 units of education (i.e., approximately high school graduates). The schools have virtually all black students, and in no school are more than ten percent of the fathers employed as professionals. Yet, these schools differ on educational outcomes—some doing better than predicted, others doing worse. Clearly, some process occurs in one set of them which is absent in the other. Attempting to unravel this empirical mystery is part of the reasoning for conducting the regression analyses.

B. Seventh and Tenth Grades

Virtually every comment made in the previous section for third graders could be repeated here. The data for the seventh and tenth grades are found in Tables 13-15. In this particular analysis, the seventh and tenth grade schools were combined into one analysis, so that the number of observations was sufficiently large to generate predicted values. Again there is very little variation between the categories of schools. The family variables are very much alike in every case: parental educational and occupational level and number of siblings are similar from one group to another. It is only the percentage of blacks of in the student body that shows any real variation, and then it is only eight percent. The school variables are also remarkably similar, with the only variation occurring in the number of students, the student-teacher ratio, and the average number of days suspended per student. These numbers are low for the schools scoring above the score predicted, probably because a magnet school is included in that group.

CHAPTER THREE ANALYSES OF SECONDARY DATA

I. Introduction

A. The Use of Regression Analysis : the LSES

While the descriptive part of our analysis is informative, the nature of the statistics employed does not allow for an evaluation of how much any one variable (or set of variables) influences state assessment scores. Instead, the descriptive statistics give one a feel for how different kinds of schools either differ or appear to be similar (as in the last series of comparisons).

In this section of the report regression analysis is introduced. investigators could, of course, move from simple descriptive statistics to simple measures of correlation, which summarize the strength and direction of association between two variables. These would give a crude measure of association, whereby one could say how much any two variables are associated with each other when no controls are employed. For example, it is known that both a mother's and a father's educational levels are associated with a child's achievement scores. The statistical impact of each may, however, be decreased when controlling for the presence of the other. Phrased differently, one acts in conjunction with the other not completely independent of the other. Instead of simply reporting correlation coefficients, results of regression analyses will be reported in this chapter. Regression analysis allows one to determine how much effect any one variable has when controlling on the effects of all other variables being utilized. Using this technique the researchers attempt to explain or predict how well a group of students does given a certain set of input variables. The inputs consist of independent variables such as a mother's and a father's education, race, and so on. The outputs which the researchers try to explain are the dependent variables, state assessment scores.

Regression analysis is commonly used by school effects researchers (Glasman and Biniaminov, 1981). Of particular interest to them is sorting out just how much effect schools have. This is not easy to do, however, since school effects are almost always indirectly assessed. Recalling the earlier discussion in Chapter One, there is, technically, no such thing as a school effect. One cannot go to a school and latch onto a school effect with a pair of calipers. However, in visiting schools, it is often undeniable that there is a certain aura or ambience to a school, which distinguishes it from some other school. This quality is the product of the various factors which go into making up a school. It is known that students are influenced by a great many individual factors, each with its own unique influence. However, no one of these may be entirely responsible for explaining how well or poorly any given student does in school. Individual attributes (for example, family background, teacher experiences, facilities of the school, and so forth), then, may in conjunction with one another produce something which is greater than any one of them individually. In short, the idea of a school effect attests to the adage that the whole is greater than the sum of its parts.

School effects research tries to assess how this holistic quality affects the educational outcomes for students, by disaggregating the whole to consider the role each part plays. Regression analysis is a multivariate technique,



which allows a researcher to statistically address the issue of how several things vary simultaneously with any one fixed thing. In this case, the researchers are particularly interested in utilizing regression analysis to estimate how much variation in the dependent variable is a function of socioeconomic variables alone and of school variables alone. This explained variation will be referred to statistically as a multiple correlation coefficient (\underline{r}) . At the risk of redundancy, this statistic allows one to assess the influence of one set of independent variables (or one independent variable) when controlling on the effects of all other independent variables. This statistic is of particular interest to the investigators in trying to unravel the unique contribution which school variables make to student assessment scores.

B. Data Sources for the Secondary Analysis

Data sources for the secondary analysis included: (1) student files provided by Caddo Parish; (2) personnel files provided by Caddo Parish; (3) personnel data provided by the Bureaus of Elementary and Secondary Education at the Louisiana State Department of Education; and (4) state assessment data, including socioeconomic characteristics of tested students, provided by the Bureau of Accountability at the Louisiana State Department of Education. The student and teacher files were from the 1980-81 school year. The state assessment data were from the spring, 1981, administration of the state assessment tests.

The data elements included in the secondary analysis for the LSES are included in Appendix One. Altogether, fifty-seven variables were included in the final dataset. Only forty-one variables are listed in Appendix One; the other sixteen variables included raw data from which percentages were constructed, redundant variables, and identifier variables. The dataset is divided into faculty characteristics, principals' characteristics, students' characteristics, other school variables, students' socioeconomic characteristics and dependent variables. All those variables included in faculty characteristics, principal's characteristics, students' characteristics and other school variables are considered to be school variables.

C. Purposes of the Secondary Analyses

There were three general purposes for the secondary data analyses:

- (1) To determine how much variance in state assessment scores can be explained by secondary socioeconomic and school variables
- (2) To compare the relative strength of these socioeconomic and school variables in explaining variance in state assessment tests
- (3) To determine which school variables are the most important in explaining state assessment scores

II. Regression Models for Third Grade Only Schools

A. Introduction

The first regression models to be reported are based on data from schools in which the third grade state assessment tests were administered. Regression

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models for third grade schools alone have two advantages: (1) data is not aggregated across different grade levels and are, therefore, less suspect to certain biases; (2) there are more schools with third grade classrooms [45] than schools with seventh grade [18] or tenth grade classrooms [11]. The second point is especially important, since the larger the number of schools, the more stable the regression models will be. Additionally, the investigators were particularly interested in the educational process at the elementary grade levels, where schools could have their greatest impact on students.

The first relationships among the variables in the dataset examined are their correlations. As noted previously, correlation coefficients summarize the strength and direction of association between two variables. The first correlation matrices to be examined for the third grade schools contain thirty—two variables. The original fifty—seven variables in the dataset were reduced to thirty—two by eliminating those variables which were (1) conceptually identical to one another; (2) combinations of other variables; (3) missing on a large number of observations; (4) illogical for inclusion, such as school code; or (5) dichotomous in nature, since such variables are inappropriate for the particular correlational analysis employed in this study.

Appendices Two and Three contain correlation matrices for data from the third grade only. Appendix Two contains the full thirty-two variable matrix, which includes 512 correlation coefficients. Appendix Three is a correlation matrix of the three assessment test scores by the thirty-two variables. These two matrices were used to select variables for inclusion in the regression model.

By examining the correlation matrix in Appendix Two, the reader can appreciate the need to reduce the number of variables in the study. The original correlation matrix is simply too large to interpret without reduction. Additionally, many of the variables are highly correlated with one another, indicating that a smaller number of variables may more parsimoniously describe what the larger number can.

This reduction is accomplished in two ways: (1) examining the full correlation matrix among all of the variables and eliminating those that are highly correlated; (2) examining the correlation matrix between state assessment acores and the full set of predictor variables, and eliminating those variables that are poorly correlated.

A fifteen variable model was selected using this technique. These variables include five, socioeconomic variables and ten school variables and are listed in Table 16. It should be noted that several of these fifteen variables are still highly correlated with one another, but have been retained because of their separate theoretical importance. For example, the percentage of black students in the school and the percentage of black teachers on the faculty are highly correlated; yet the first variable is considered a socioeconomic variable and the second a school variable. As such, they represent conceptually distinct, but statistically related variables. Another example of retaining correlated variables is the inclusion of the mean faculty score on both the National Teachers Examination (NTE) Commons and Area Tests. While the two variables are correlated, the investigators are interested in the



separate relationship that exists between each test and state assessment scores.

Given the high intercorrelations that still exist within the fifteen variable model, a second set of reduced models was also run. This set of reduced models, consisting of the best six variables for each of the three assessment tests, was developed for two reasons: (1) the reduced model would have fewer variables and, thus, fewer high intercorrelations among the variables; and (2) the results of each reduced model could be compared against each full model to check for consistency of findings.

It was decided to have six variables in the reduced model by cause: (1) examination of variance explained by differently sized models indicated that little additional variance was explained beyond the six variable model; and (2) a six variable model might allow the inclusion of two cr three variables each from the socioeconomic variable set and the school variable set.

The regression analyses described below will indicate how much of the variance in state assessment scores can be explained by the included socioeconomic variables alone, school variables alone, and the two sets of variables together. The investigators were also interested in determining how much additional variance in state assessment scores could be explained by the school variables after the effect: of the socioeconomic variables had been taken into consideration. It is assumed that socioeconomic variables influence the learning process prior to the effect that schools can have. A procedure known as stepwise regression analysis will be used to examine these relationships.

B. Results

The full and reduced models were run for each of the three state assessment tests, thus resulting in six analyses. The fifteen variable models will, of course, contain the same variables for each state assessment test; the six variable models may contain a different set of variables for each test, depending on which set of variables explained the most variance.

Table 17 presents the proportion of variance in the dependent variables explained by each of the six multiple, regression analyses. Two numbers are reported for each analysis: (1) the r statistic, which is the proportion of variance in the dependent variable explained by the independent variables; and (2) the adjusted r statistic, which corrects the proportion of variance explained by considering the number of independent variables in the model and the number of observations.



One school variable, the number of students in the school, was included in the model despite low correlation with state assessment scores, because it had been shown to be an important predictor on the district level in earlier research (Bidwell and Kasarda, 1975). model (adjusted \underline{r}^2 ranging from 38 percent to 62 percent across tests) to the reduced model (adjusted \underline{r}^2 ranging from 39 percent to 63 percent across tests).

Using the full model, both the socioeconomic variables and the school variables explain a significant amount of the variance in all three of the state variables still explain a significant amount of the variance on all three tests, while the school variables do so on two of the tests. The variance explained by the socioeconomic variables remains consistent from the full assessment tests. When looking at the reduced model, the socioeconomic

For the school variables, the variance explained drops from the full model (adjusted \underline{r} ranging from 28 percent to 40 percent across tests) to the reduced model (adjusted \underline{r} ranging from 6 percent to 29 percent across tests). This reduction in variance explained is, of course, attributable to the smaller number of school variables in the reduced model as opposed to the full model. Table 19 lists the variables in the reduced six variable model for third grade schools.

Some interesting results can be noted when both sets of variables (socioeconomic and school) are included in the multiple regression analysis (see table 17). Looking at unadjusted r, both sets of variables explain only slightly more variance than that explained by the socioeconomic variables alone. This suggests that socioeconomic variables and school variables explain some common or overlapping variance in the dependent variables. For example, the percentage of the student body that is black (a socioeconomic variable) and the percentage of the faculty that is black (a school variable) are significantly correlated. Similarly, both are significantly correlated with the state assessment scores and might be used as predictors of those scores in different analyses. When combined in one analysis, they probably would explain little more of the variance in the state assessment scores than they had explained separately.

To summarize, then, the following sequence of events may be occurring: (1) some of the socioeconomic and the school variables in the multiple regression model are correlated with one another; (2) the full set of socioeconomic and the full set of school variables can separately explain a significant amount of the variance in the dependent variables; and (3) when combined in one set of predictors, the two sets explain common or overlapping variance, plus some additional variance unique to each set of predictors.

Further examination of Table 17 indicates that the reduced six variable model including both socioeconomic and school variables, is as good a predictor of state assessment scores as the full fifteen variable model including both sets of variables. As noted above, school variables alone in the reduced model do not explain as much variance as school variables alone do in the full model. This is especially true when reading is the dependent variable, but untrue when mathematics is the dependent variable.

To further explore the relative contributions of socioeconomic and school variables to performance on state assessment tests, a series of stepwise regression analyses were performed. These analyses determine how much additional variance school variables can explain beyond that explained by



The statistical procedure used to generate this best six variable model was PROC STEPWISE/MAXR from the Statistical Analysis System (SAS).

socioeconomic variables. It is assumed in these stepwise regression models that the socioeconomic effects on student performance precede the school effects; therefore, the variance in student performance explained by school

effects can be determined only after the variance explained by socioeconomic variables has been established. This approach to determining the effect of school variables on student performance is conservative, since the variance commonly explained by both the socioeconomic and the school variables will be attributed to the socioeconomic variables which enter the model first.

The stepwise regressions for the full and reduced models reveal consistent findings, as can be seen in Table 18. For the full model, school variables explain between three and eleven percent of the variance beyond that explained by socioeconomic variables across test areas. For the reduced model, school variables explain between three and twelve percent of the variance beyond that explained by socioeconomic variables across test areas. The largest additional variance explained is in mathematics (11-12, percent depending on the model); the next largest, in writing (7-8, percent depending on the model); and the smallest, in reading (3 percent).

These results are consistent with literature cited in Chapter One that indicates that school variables account for a modest amount of the overall variance in student performance. There are two interesting points about the results of the stepwise regression: (1) the results are very consistent across the two models, leading the investigators to greater confidence in the results; (2) the amount of additional variance explained in student performance varies consistently by subject area.

One of the major purposes of this analysis of secondary data was to determine those school variables which have the greatest effect on student performance. Correlation coefficients reported in Appendix Two indicate that several school variables are significantly correlated with state assessment tests. These include the percentage of whites on the faculty, mean faculty score on the NTE Commons examination, the mean faculty score on the NTE Area examination, the mean highest degree attained by the faculty, the mean absences of the faculty, the student-teacher ratio, and the mean prestige of the universities from which the faculties graduated. These correlations do not, of course, imply causation, since any number of other factors could have produced both the variations in the particular school variable and the assessment test score.

Table 19 lists the school variables which were included in the final six variable models. It should be noted that the stepwise regression procedure used to generate these best six variable models allow variables to enter and leave the models solely on the basis of maximizing variance explained. For variables which are highly correlated, as many of the school variables are, this procedure allows for great interchangeability. Nevertheless, the variables retained most frequently in the six variable models for the third grade only were number of students in school (on all three dependent variables), mean faculty score on NTE Commons exam (on two dependent variables).



III. Additional Regression Models

A. Introduction

Data were also available from schools which had seventh and tenth grade classes which took state assessment tests. Two additional sets of regression analyses were run using data from these schools: (1) multiple and stepwise regressions for schools with seventh and tenth grade classes; and (2) multiple and stepwise regressions for schools from all three grade levels (third, seventh and tenth). These additional analyses were run for the following reasons: (1) to corroborate the results of the third grade analysis in terms of the relative variance explained by socioeconomic and school variables; (2) to determine if a different pattern of results obtains for secondary schools as opposed to elementary schools; and (3) in the case of the analyses involving all three grades, to increase the number of observations in the model.

It should be stressed that the analyses reported in this section are exploratory and should be interpreted carefully because of potential problems in aggregating data across grade levels. There are two basic problems with aggregation: (1) the dependent variables (scores on state assessment tests) may consistently vary across grades due to the differential difficulty of the tests; (2) spurious relationships between independent variables, which way vary from grade to grade, and dependent variables, which also vary from grade to grade, may be encountered. With regard to the first point, one can never be sure whether differences in state assessment scores across grades are a function of different abilities of the students at different grade levels, different effectiveness of the teachers in teaching the required material, or different difficulty of the test items. With regard to the second point, a systematic change in an independent variable across grades coupled with a systematic change in scores on state assessment tests may result in spurious relationships. The investigators attempted to reduce the possibility of such spurious relationships by eliminating certain independent variables from aggregate analyses, but it is unclear how successful this elimination procedure was.

The models for all three grades together and for grades seven and ten were determined using the same strategy employed for the third grade. Appendices 4 and 5 contain the full correlation matrix and matrix of assessment scores by predictor variables for all three grades together. Appendices 6 and 7 contain the same matrices for grades seven and ten. Examination of these correlation matrices resulted in a sixteen variable full model for all three grades combined and a seventeen variable full model for grades seven and ten.

The sixteen variables for the full model for all three grades combined are found in Table 20. Similarly, the seventeen variables for the full model for grades seven and ten are found in Table 21. The reduced six variable models for both sets of analyses were determined using the stepwise procedure described in the previous section. The reduced models are those six variable models which explain the greatest proportion of the variance in the dependent variables.



B. Results

1. Multiple Regression Analyses

Table 22 summarizes the multiple regression analyses for all three grades combined, while Table 23 summarizes this analyses for the seventh and tenth grades. All of the models are statistically significant. Again, the reduced six variable models with both sets of variables entered do as good a job of explaining variance as the full sixteen or seventeen variable models do. Moreover, the models with both sets of variables (socioeconomic and school) explain only slightly more variance than that explained by the socioeconomic variables alone, suggesting that socioeconomic and school variables are explaining overlapping variance in the dependent variables.

There are, however, two major differences between the third grade analysis and these analyses:

- (1) In general, more variance is accounted for by the combined three grades analyses and the analyses for seventh and tenth grades than by the analyses for third grade only. The models for the seventh and tenth grades explain the most variance.
- (2) School variables in the reduced models for the combined three grades and the seventh and tenth grades explain more variances than that explained by school variables in the reduced models for the third grades. The decrease in variance explained by school variables from the full to the reduced models is much less for these analyses than, those for the third grade only.

Again, school variables retained in the reduced six variable models vary from model to model. Altogether seven different school variables showed up in the analyses for all three grades, and seven different variables again showed up in the analyses for seventh and tenth grades. This once more demonstrates the interchangeability of the school variables as predictors of student assessment scores. The only variables to show up as predictors in the six variable models for two tests were: (1) the mean faculty score on the NTE Area exam and the mean school experience for the analyses involving all three grades; and (2) the number of students in the school and for the seventh and tenth grades, average prestige of universities from which faculties graduated.

2. Stepwise Regression Analyses

Stepwise regressions were again performed to determine how much additional variance school variables can explain beyond that explained by socioeconomic variables. Table 24 presents the summary of the stepwise regression analyses for all three grades together, while Table 25 summarizes these analyses for grades seven and ten. For all three grades combined, the results for the full and reduced models are virtually identical with school variables explaining between 5 and 17 percent of the variance beyond that explained by socioeconomic variables across test areas. The largest additional variance explained is in writing (17 percent); the next largest in mathematics (10-11 percent depending on the model); and the smallest in reading (5-6 percent, depending on the model).

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The stepwise regression models for the seventh and tenth grades present very similar results. Again, the results for the full and reduced models are very similar with school variables explaining between 8 and 23 percent of the variance beyond that explained by socioeconomic variables across test areas. The largest additional variance explained again is in writing (20-23 percent depending on the model); the next largest in mathematics (15-18 percent depending on the model); and the smallest in reading (8 percent).

Two points made earlier with regard to the stepwise regression analyses for third grade are also true for these additional models: (1) the results are very consistent across the reduced and full models, leading the investigators to greater confidence in the results; (2) the amount of additional variance explained in student performance varies consistently by subject area.

There are, however, differences between the results of these analyses and those presented earlier for the third grade: (1) school variables explain more variance beyond that explained by socioeconomic variables in these models than in the third grade models; (2) school variables explain the most variance beyond that explained by socioeconomic variables on the writing test for these models, as opposed to the mathematics test for the third grade models.

IV. Determination of Important School Variable Dimensions Using Factor Analysis

A. Introduction

As noted in the introduction to this chapter, the secondary analysis section had as its major purposes to: (1) determine how much variance in state assessment scores can be explained by secondary socioeconomic and school variables; (2) compare the relative strength of these socioeconomic and school variables in explaining variance in state assessment tests; and (2) determine which school variables are the most important in explaining state assessment scores. The regression analyses described above accomplished purposes the first and second, but intercorrelations among the school variables made it very difficult to accomplish the third purpose. The interchangeability of the school variables in explaining variance in student performance makes it very difficult to state emphatically which secondary school variables are the most important in explaining that variance.

Having several highly intercorrelated variables may lead to faulty conclusions about the importance of any single variable. There is, however, a statistical procedure known as factor analysis, which enables one to reduce a large number of intercorrelated variables into a smaller set of factors or dimensions that account for the observed interrelations among the variables. Factor analysis is a means whereby regularity and order in a complex set of intercorrelated variables can be discerned.

Factor analysis will be used in the present study to determine a smaller set of dimensions that can account for the intercorrelations that exist among the socioeconomic and school variables. Particular attention will be paid to those dimensions which emerge from the intercorrelated school variables. It



has been determined through the regression analyses that school variables can account for a modest, consistent variance in assessment scores above that accounted for by socioeconomic variables. Factor analysis will now be used to determine the important, underlying dimensions of these intercorrelated school variables.

B. Factor Analysis Considering Both Socioeconomic and School Variables

Re-examining the complex correlation matrix among the thirty-two socioeconomic and school variables contained in Appendix Two underscores the potential value in finding a set of dimensions that accounts for the intercorrelations among the variables. Since the variables can logically be divided into sets of socioeconomic and school variables, it might be expected that a factor analysis would result in: (1) one or several dimensions emerging from the socioeconomic variables; and (2) one or several dimensions emerging from the school variables. However, the correlations that exist between certain school and socioeconomic variables may lead to dimensions that include variables from both sets.

The first factor analysis reported here was performed on the sixteen variables retained in the full regression model for all three grades combined (see Table 20). This set of variables contained five socioeconomic and eleven school variables. Table 26 contains the results of a factor analysis of these data. The numbers in this Table are called factor loadings. They measure which variables are involved in which factor pattern and to what degree. They can be interpreted like correlation coefficients: they range from -1 to +1, and the larger their absolute value, the more they are involved in the factor pattern.

Four factor patterns emerge from this factor analysis. It should be noted that these four factors are uncorrelated, thus eliminating the correlational biases among variables found in the regression analyses. Loadings within each factor pattern larger than .60 have been placed in parentheses; the variables associated with these high loadings are the ones most involved in the factor pattern.

The four factor patterns may be described as follows:

- (1) Factor one has high loadings on all the socioeconomic variables (the father's education, the number of siblings, the percentage of mothers who are not professionals, the percentage of fathers who are professionals, percentage of student body that is black) plus one school variable (the percentage of faculty that is white).
- (2) Factor two has high loadings on faculty variables (mean faculty salary, mean faculty experience in school, mean highest degree attained by faculty) plus other school variables (the number of students in the school and the student-teacher ratio). The correlation coefficients among these variables indicate that increases



The factor analyses reported here utilize the principal axis method with varimax rotation.

in school size and student-teacher ratio are associated with increases in faculty salary, school experience and highest degree attained.

- (3) Factor three has high loadings in variables associated with teacher preparation (mean faculty score on NTE Commons examination; mean faculty score on NTE Area examination; mean prestige of universities from which faculty graduated).
- (4) Factor four has a high loading on only one variable, the principal's percentile score on the NTE administration test.

This factor analysis verifies that school and socioeconomic factor matterns are distinguishable. The socioeconomic variables load on one dimension; the school variables load on three dimensions. There is slight overlap between the two sets of variables, in that one school variable, percentage of faculty which is black, loads on the socioeconomic dimension.

C. Factor Analyses Considering School Variables Only

Further factor analyses of the school variables without the socioeconomic variables will now be discussed. The investigators ran three separate factor analyses on the school variables in the full regression models for: (1) third grade schools only (see Table 27); (2) all three grades combined (see Table 28); and (3) seventh and tenth grades only (see Table 29). These analyses were undertaken to determine if: (1) the same factor patterns would emerge across different grade levels; and (2) the same factor patterns would emerge if socioeconomic variables were deleted from the analyses.

These three separate ractor analyses yield very similar results:

- (1) All three factor analyses yield three factor patterns.
- (2) The three factor patterns are similar, although the order of the factors change in one case, and some of the variables load differently across grade levels.
- (5) Factor one on Table 27, factor two on Table 28, and factor two on Table 29 have high loadings on the same variables mean faculty score on the NTE Commons examination, and the mean faculty score on the NTE Area examination; mean prestige of universities from which faculties graduated; and the percentage of the faculty that is white. When socioeconomic variables were deleted from the analysis, the percentage of the faculty that is white loaded highly on this factor, which appears to be associated with teacher preparation.
- (4) Factor two on Table 27, factor one on Table 28, and factor one on Table 29 have high loadings on variables associated with teacher experience. Several other school variables show up on each separate analysis. For grade three, the three highest factor loadings are for the mean highest degree attained by the faculty, the mean total experience of the faculty and the mean number of faculty absences.



(5) Factor three on all three analyses has a high loading on principal percentile score on the NTE administration test. Few other variables load highly on this dimension. This factor appears less important than the other two factors, based on the amount of variation in the data described by the factor in the unrotated factor matrix.

These factor analyses indicate that three dimensions may describe the set of intercorrelated school variables: (1) a faculty preparation factor, which is composed of the mean faculty scores on the NTE examinations and the type of university the faculty members attended; (2) a faculty experience factor, which in some analyses also includes other school variables such as school size and student teacher ratio; and (3) a third factor which is composed almost exclusively of the principal's percentile score on the NTE administration test.

One final regression analysis will be presented in this section. In this analysis three factor scores, derived from the three factor patterns found among the school variables, will be entered into a regression model predicting state assessment scores on the third grade level. This analysis will allow the comparison of the relative strength of three uncorrelated school variables to student performance. Table 30 compares the standardized beta weights of the three factor scores across the three tests. Factors one and two have large beta weights compared to factor three, which is quite small. Of the three factors that emerge from the factor analysis, the first two (the faculty preparation variable and the faculty experience variable) are much more likely to be related to student achievement than the third factor, which is insignificantly related.

CHAPTER FOUR PRETEST OF PRIMARY DATA METHODS

I. Introduction

While the secondary analyses examined many of the factors that explain performance on the state assessment tests, the investigators decided to further explore variations in the educational environments that exist within schools with third grade classrooms in Caddo Parish. The reader should recall that the secondary data, which included socioeconomic and structured school characteristics, explained between 46 and 64 percent of the variance in state assessment scores for schools with third grades (see Table 17). Evidently, other variables are accounting for further variation in scores The investigators decided to explore differences that may among schools. exist in the school's educational climate, differences which were not measured by the structured school characteristics. These school climate variables, which were discussed in Chapter Cne, include the degree of classroom structure, the teachers' expectations for classroom performance, and the students' perceptions of their classroom performance.

In order to explore these educational climate variables, it was decided to administer questionnaires to students in schools that did better or worse than expected on state assessment tests. The investigators hypothesized that these schools may differ with respect to of the educational climates that are provided for their students. Included in this chapter is a discussion of the pilot testing and the revision of these questionnaires. Also included is a discussion of the pilot testing of a time on task methodology, which are expected to be utilized more extensively in the next year of the study.

II. Questionneire Development

As was noted above, one of the important tasks of the LSES is the development of a measure of school educational climate. Toward this end, a set of questionnaires developed by Brookover et al. (1979) was adopted for use in Louisiana's schools. This set includes instruments for principals, teachers, and students, and contains a number of items which Brookover combined into subscales examining such areas as classroom characteristics, students' sense of academic futility, students' perceptions of teacher norms, and students' perceived evaluations in the present and for the future. Teacher and principal instruments were pretested, and few problems were found with them. Students' questionnaires underwent more extensive examination, Brookover found these to produce the most fruitful items. Before going into the field, the team expressed concerns over the wording of some of the questions and the number of response possibilities for the questions. This was a special concern because the Brookover questionnaire was developed for use with fourth graders, and its present application is to the third grade. To address these concerns, a revised form of the Brookover instrument was developed, in which the number of response options was reduced on approximately half of the items, and the wording of any question found particularly confusing was altered.

Both the original and the revised forms of the questionnaire were pretested in third grade classes in two selected schools of Iberia Parish. The



original form was given in one class in each school, and the revised was offered to a total of three classes. The researchers administered the questionnaire to the class as a whole (while the teacher, absent from the room, completed the teacher instrument), reading each question to the class and pausing to answer any questions the students had. In addition, one researcher conducted an in-depth discussion with five students, (selected by their teacher to represent a wide range of abilities), in order to more completely explore the students' reactions and possible confusions over the instrument. Several important things were learned from this. Contrary to expectations, the children did not have difficulty with the maximum number of response options. In conversation they expressed a preference for the wider number of options. When the response patterns were examined, it was discovered that all possibilities were utilized for all but six of the items.

Given an open-ended format, students had difficulty providing sufficient detail about their fathers' occupations and were often unable to spell the words. Utilizing an open-ended question required that a great deal of time be by the researcher and that time away from the group as a whole greatly affected the attentiveness of the rest of the class. Children were confused by the question "How old were you on your last birthday?" A typical response was "This birthday I'm eight so last birthday I was seven." The major difficulty with the instrument, however, was its length. Although the revised form with the fewer responses needed slightly less time, both forms required almost the full hour allotted for the administration. One researcher, encountering greater difficulties by the students with the questions, was unable to complete the instrument. In all cases, with both forms, researchers found that fatigue occurred by about the fortieth question, and, although students completed the instrument, it became increasingly difficult to maintain their attention.

In response to experiences with both forms of the questionnaire, several changes were made in the instrument. First, it was decided to obtain age with the simple question "How old are you?" Second, each of the now items provides the maximum number of response options as presented by Brookover. Finally, the instrument was shortened considerably from 68 items in the original to 48 items in the revised form.

Decisions on deleting items from the instrument were made very carefully. a first step, frequency distributions and variances were obtained for all item responses. At the same time, items were combined into the eight subscales developed by Brookover, which are: classroom characteristics, student sense of futility, student future evaluations and expectations, student perceived present evaluations and expectations, student perception of teacher push and teacher norms, student academic norms, student self-concept, and student self-reliance. A ninth subscale was developed by the researchers, which consists of items from the Brookover questionnaire not included in the This was titled student-teacher commitment to learning. other scales. considering subscales, if two items were present which asked similar information and elicited similar responses, one of the items was deleted. taken to retain the one with the clearest wording in these cases. Then item variance was considered. Those items with very low variance, where only one response was obtained, were also dropped from the instrument. Items which produced bimodal distributions were also deleted, particularly if another item in the subscale better discriminated among the respondents. In short,



the emphasis was to produce a briefer instrument, which both retained the integrity of the subscales and best produced a range of responses. Appendices Eight, Nine, and Ten contain the final student, teacher and principal questionnaires which were administered in Caddo Parish.

III. Development of Time on Task Methodology

The investigators were interested in developing a methodology that would measure the amount of time students are engaged in academic tasks during a normal school day. For the pilot year of the study, it was decided to limit the time on task activities to a pretest, since this methodology required more time and personnel than currently available. The investigators hope to expand this aspect of the LSES considerably next year.

One potentially fruitful way of exploring time on task is found in the measure of academic efficiency developed by R. J. Marzano and C. L. Hutchius (1981) at the Mid-continent Regional Education Laboratory. This method allows an assessment of the proportion of the school day potentially available for academic pursuits. In addition, this procedure allows an assessment of the quality of that time in terms of student attentiveness. It permits the computation of "engagement rate," i.e., the average number of students paying attention during the instructional period.

To use the Marzano-Hutchins procedure, the researchers collect school level data, such as the total enrollment, the average number absent, and the amount of time scheduled for out of classroom activities. In addition to this, observations are made in the classrooms to examine usage of time usage within the class period and the attentiveness of the students during instruction.

Since the Marzano-Hutchins methodology was developed primarily as a diagnostic tool for teacher improvement and has only recently been applied as a research tool, some modifications were required. A telephone conversation with the authors of the procedure was held March 4, 1982, to discuss tailoring the method to Louisiana's specific needs and considerations. alterations were made. Initially, Marzano and Hutchins spent a great deal of time in each classroom and often observed six pre-selected students, three high achievers and three low achievers. The investigators believe that the most effective unit for observation in our study is the class, which means the observation of all the students present. Marzano and Hutchins used one observer per class. Since the number of students has been expanded for the LSES, the number of observers has also been increased to two per classroom. Since what is sought is a measure of time usage rather than an assessment of teacher effectiveness, a two hour period of observation was considered to be sufficient. To allow for comparisons between classes and between schools, a time sampling method was developed in which observations of the entire class Observers record in what the class is are made at fifteen second intervals. engaged at that time and, if it is instructional time, how many students are performing that task.

Marzano and Hutchins developed a large number of categories for time usage in order to show their teachers exactly how time was spent in the classroom. However, fewer categories will meet the needs of the LSES: the categories used here are time spent in instructional activities and three types of time usage in noninstructional activities (managerial activities, discipline, and



all other activities). A coding skeet (see Appendix Eleven), was developed for recording the number of students present and the type of activity observed at each interval.

This methodology was pretested in one of the same schools in Iberia Parish in which the questionnaire was pretested. Again, the pretest yielded much information. The investigators were fortunate to have selected two class-rooms with very different styles of instruction. One pair of observers went into a very traditional, structured classroom in which the teacher worked with the class as a whole for the entire observation period. In this situation, the observation was straightforward. It was not a very difficult matter to glance around the class and count the number of students who were not paying attention at a given instance. It became easier as the team gained experience. Categorizing time usage in the class period produced a few discrepancies between the two researchers, but these were resolved in a post-observation discussion. Calculations of engagement rates by the two observers compared favorably at 92.9 percent and 95.4 percent.

Two problems did develop. First, the teacher, in spite of despite instructions to conduct on her class as if she were not being observed, seemed to use the opportunity display her students' capabilities. Several times, she came and asked one of the team if there were anything else she could have the class do. Consequently, the need for as "normal" a situation as possible will have to be more strongly stressed in future observations. Second, at least in the school in question, there does not appear to be a two hour uninterrupted block of time available. Therefore, a decision will need to be made as to whether to limit the observation period to one bordered by non-classroom activities, such as recess and lunch, or to employ a discontinuous two hour period of observation.

In the other classroom in which the methodology was pretested additional problems were encountered. This was a less structured classroom in which the students were separated into groups, the membership of which sometimes changed as the class period continued. Because the students were separated into groups with different activities, it became impossible for the observers to keep track of each individual. In addition, since the teacher went from group to group, part of the class time was engaged in managerial activities and some in instructional activities at any given observation time. At present, the team is exploring alternative methods for use in unstructured classrooms.



One technique used in unstructured classrooms is to make the observation intervals much longer. For example, Stallings and Kaskowitz (1974) used observation intervals of every 15 minutes noting what each pupil is doing within his/her own group activity.

CHAPTER FIVE ANALYSIS OF QUESTIONNAIRE DATA

I. Introduction

Once the questionnaires were pilot tested and revised, the investigators needed to locate schools in which to administer them. As noted in Chapter Four, it was decided to administer questionnaires to students in schools that did better or worse than expected on state assessment tests. Regression analyses were used to select these schools.

Specifically, the reduced six variable model for schools with third grade classrooms discussed in Chapter Three was used to predict how well these schools should perform on state assessment tests. This procedure is very similar to that used by the Louisiana State Department of Education to predict how well districts should perform on state assessment tests.

The regression models allow the investigators to predict how well each school should perform based on the socioeconomic characteristics of students and the structured characteristics of the schools. These predicted scores were then compared with the schools' actual scores, and a measure of the deviation from the predicted score to the actual score was made. Sets of schools which deviated above and below predicted scores were determined.

Five schools were selected from each of these two categories for inclusion in the study of educational climate. Thus, there were five schools which scored better than predicted, and five schools which scored worse than predicted in the study population. The five schools which scored better than predicted have scores which are higher over all the three assessment tests than the five schools which scored lower than predicted. These two sets of schools will be identified to as those actually scoring high and those actually scoring low.

Dividing schools into groups on the basis of their actual scores enables one to compare differences associated with actual performance on state assessment tests. The investigators also divided the schools into two groups on the basis of predicted scores in order to compare differences in school climates, which may result from socioeconomic and structured school characteristics.



For a further discussion of this procedure, see <u>Technical Report</u>, <u>Louisiana State Assessment Program</u>, 1980-81, available through the Louisiana Department of Education.

The following figure describes the resultant research design:

		Actua	1 Scores	
		High	Low	
	High			
Predicted Scores	Low			

Predicted and actual state assessment scores for the ten selected schools are presented in Table 31.

This research design will be analyzed using a statistical technique known as analysis of variance. This statistical technique allows one to study the separate and joint effects of more than one independent variable simultaneously. In this research design, there are two independent variables: whether the school actually scored high or low and whether the school was predicted to score high or low. There is also an interaction between the two variables. This interaction may be perceived of as the joint effect of the two independent variables separate from their individual effects. Analysis of variance will allow one to study all three effects: that for each independent variable separately, and that for their joint effect, at the same time.

II. Significant Predicted Score Main Effects

A. <u>Stulents' Perceptions of Educational Expectations and Personal</u> <u>Control</u>

Predicted score accounts for significant differences in eleven of the variables. The overall multivariate analysis, which determines if the effect is significant across all of the dependent variables in the analysis, was highly significant $[\underline{F}\ (41,521)=5.75,\ \underline{p}\ <.0001]$. The significant predicted score main effects are presented in Table 13. These variables can be conceptually divided into three groups which will be considered separately.

The first group has been termed "Students' perceptions of educational expectations and personal control." Variables 1 ed in this group assess the students' perceptions of parents' and fri expectations for them, and also the students' assessment of the control y have over their educational outcomes. Differences in this set of variables may be the result of the differences in socioeconomic characteristics between those students from schools predicted to score well (the high group) and those predicted to score poorly (the low group). Table 32 provides a comparison of these groups of students and illustrates that students from schools predicted to score well tend to have better educated fathers, more fathers who are professionals, and are less likely to be black than those from schools predicted to do poorly.



Given the socioeconomic differences, it is not surprising that students in the higher group perceive that their parents expect them to go farther in school than those students from schools in the lower category. The mean for the former group is 4.66, while for the latter it is 4.28, with 4.00 being "go to college for a while." As might be expected, the children's perceptions of their peers' expectations closely match that of their parents. The mean expectation for the higher group is 4.39 and for the lower group it is 4.17, with the scale values identical to the previous. It can be noted here that the means in all the preceding instances are quite high, particularly when compared to the educational attainment of the students' parents, whose mean educational level is slightly above high school attainment for the higher group and slightly below high school completion for the lower. It should also be noted that both groups of students perceive higher expectations from their parents than from their friends. This may be a function of the parents' expecting their children to go as far in school as they possibly can.

Related to these expectation variables is the issue of control over the educational process and its outcomes. It is logical to assume that children from more "advantaged" family situations with more highly educated parents would feel more control over their situation and ascribe more responsibility to themselves than to chance for their school success. This appears to be the case here. Students in schools predicted to do poorly respond more often that "You have to be lucky to get good grades in school" than those from schools predicted to do well. In short, those students in schools predicted to do well tend not only to perceive higher expectations from their parents and peers, but also to feel more responsible for their own school performance.

B. Students' Perceptions of Teachers and of Class Structure

Items included in this group explore the childrens' perceptions of the teachers' attitudes and expectations, both for the present and the future. These items offer a particularly interesting contrast to those of the first set. Students from the lower schools perceive a stronger push from their teachers than do students from the higher schools. They indicate that they feel their teachers have high expectations for them on the question, "Does your teacher think you could finish college?" Here those students predicted to do poorly respond more positively than do students from schools predicted to do well, in spite of the lower educational level of the parents. While this opears contradictory, there is a plausible explanation. It may be that these students' teachers are consciously, and more verbally, encouraging them to achieve at a higher level than might be expected. Teachers of the other group may not feel the need to verball; so emphatically their expectations.

Additional evidence for this position is provided by the perceptions of the lower group children that their teachers are more likely to tell them to try to get better grades than their classmates and that their teachers do not care how hard they work as long as they pass. It seems that there is a stronger emphasis on making passing grades in these schools than in the ones predicted to do well. Data from questionnaires administered to teachers lend support to this reasoning. Teachers from schools predicted to do poorly indicated that they felt it was fair to insist on a higher level of achievement from their students than they presently seem capable of achieving

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 $[\underline{F}(3,21)=10.19, \underline{p} < .01].^6$ These teachers seem more compelled to push their students than teachers from schools predicted to score higher.

Finally, students from schools predicted to do poorly also reported that they have a more structured classroom environment than those from schools predicted to do well. Specifically, they perceive that they have to sit in the same seats, next to the same students more often than do students who score more highly perceive this. If they are correct, it may be that their teachers feel that a more structured classroom environment will lead to higher student achievement.

C. Students' Perceptions of Other Students and Self

Items in this category tap the children's perceptions of their own abilities and motivations and those of their classmates. It differs from the above two sets, since it deals neither with expectations for the future nor with classroom management. Items here concern the students' assessments of the present. When asked "If students in this school did not have their work graded by teachers, how many would study hard?" students from schools predicted to score poorly responded that more of them would continue to study than did students from schools predicted to score well. This fits into the overall pattern discussed in the previous section. Those children whose teachers have been encouraging good performance have likely internalized their teachers' expectations.

Despite their teachers' encouragement, children in the lower group report that more students tease those who get good grades than do students in the higher group. Additionally, students in the lower

group assert that fewer of them care if they get bad grades. This provides a picture of students who, although trying to fulfill their teachers' expectations, feel an inability to earn the tangible symbols of academic success--good grades. This dichotomy between motivation and aspiration is not a unique finding. Of particular relevance is a recent article by Howell and Freese (1981), in which they state that"...educational plans do not exclusively or even primarily reflect motivation toward academic success." (p. 232) While academic plans are conceived of as "behavioral intentions," motivations are defined as "the level of effort one is willing to, or actually does, expend toward academic tasks..." (p. 221). This distinction is one which can be found in the present study. persistent encouragement to strive given to the students in the lower group is having a very definite effect on their motivation. This is, however, separate from their expectations of educational attainment and performance which are strongly affected by socioeconomic factors and the expectations of their parents and peers.

29



It was decided to limit discussion of the results of the teacher questionnaire data in this report, because: (1) the number of teachers interviewed in study was quite small (N=25); and (2) the emphasis in this report was students' perceptions. The report for the next year of the study will emphasize teachers' responses more heavily.

III. Significant Actual Score Main Effects

A. Students' Perceptions of Educational Expectations and Personal Control

Actual score main effects, it should be remembered, are those related to the classification of schools as scoring higher or lower on the third grade Louisiana State Assessment Tests. For this variable the overall multivariate test was also significant $[\underline{F}(41,521)=2.47, p. < .0001]$. The significant actual score main effects are presented in Table 34. As in the case of predicted score effects, the eleven variables having significant actual score main effects will be discussed in three categories. The first category to be discussed includes not only future expectations for academic attainment, but also the students perceived control over their success or failure in life.

Children from schools scoring more highly reported a higher educational expectation. The mean for this group is 4.65, while the mean for the lower group is 4.43, with 4.00 "being attend college for a while." These increased expectations are likely the result of the children's relatively greater success in the academic world. This success is also probably causally related to the groups who score more highly, perceiving themselves as having greater control over their educational and life situations. When asked to respond to the statement, "People like me will not have much of a chance to do what we want to in life", students from schools who did well were much more likely to disagree than were students from schools which scored poorly. The same pattern emerged with the item "People like me will never do well in school even though we try hard." Children from the poor performance schools apparently feel unable to succeed in these situations because of factors at least partially outside themselves, and they translate these feelings of helplessness into decreased expectations.

The argument that these feelings are directly the result of the socioeconomic characteristics of these children is not borne out. An examination of Table 32 reveals that when students actually scoring more highly are compared to those actually scoring less highly, there is really little difference in the socioeconomic variables. The differences in the variables in this set can therefore be ascribed to school climate variations.

B. Students' Perceptions of Teacher and of Class Structure

Students from schools which performed poorly reported that their teachers are more likely to encourage them to try for better grades than do students from schools which did well. This is likely due to teachers in the better performing schools not feeling the need to offer encouragement to their students, since they are performing well to begin with. Teachers from the lower schools are more likely to try to raise the performance leve! of their students, and thus are more verbal in pushing their children to achieve. In terms of class structure, students from the lower group performing report that they are required to keep the same seat in class and that their teacher is more likely to work with the class as a whole. Again, this may be a situation in which the teacher believes that a more structured classroom environment will lead to better performance by his/her students.



C. Students' Perceptions of Other Students and Self

As might be expected, children from the lower scoring schools respond less positively to the question, "Do you think you can do school work better, the same, or poorer than your friends?" than do the children whose school scores are higher. If items concerning the students in the class are considered, the same sort of answers are observed. Students from the higher scoring schools report that students learn a lot more in their school than in others, that they enjoy reading, and read even when they are not required to do so, and that they think it is very important to do well in school work more often than students from the lower scoring schools. These are all responses which might be anticipated, given their comparatively better performance on the state assessment tests. However, one final item in this category deviates from the pattern. Students from the schools which score poorly answered that more of them worked hard "...to get a better grade on the weekly tests than their friends do." It may be that this is an acknowledgement of the greater effort that these students must expend to compete, or it may be that the encouragement that teachers are apparently giving to the lower group of students is manifesting itself in an increased effort by their students. is interesting to note that although the lower students report working hard, they also report school grades as comparatively less important to them. is likely that since academic achievement is not often attainable, its importance is downplayed and other aspects of life are used in self-concept formation.

IV. Significant Interaction Effects

In examining the significant effects in an analysis of variance, it is misleading to look only at the main effects if interaction effects are also present. Such is the case here. A total of fourteen variables showed significant actual score by predicted score interaction effects. The multivariate test was again highly significant [F(41,521)=5.29, p < .0001]. These significant interaction effects are found in Table 35. As with the previously discussed main effects, the items will be considered in three groups. And, as with the main effects, very interesting and important patterns emerge from a consideration of the results.

A. Students' Perceptions of Educational Expectation and Personal Control

There are significant interaction effects on three items in this set. All three items have to do with students' sense of personal control in school and in life. An examination of the means in each of the four possible combinations of the actual and predicted groupings of these items (presented in Table 36, 37, & 38) reveals that those students who perform as predicted (i.e., who are predicted to do well and do so and those who are predicted to do poorly and do so) are more likely to disagree with the statements. Those students whose performance did not match the prediction are more likely to agree with the statements.

Why do students from schools whose performance is consistent with expectations have similar responses? Additionally, why do students from schools whose performance is inconsistent with expectations have similar responses?

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First, considering the schools with consistent findings, the following may be happening:

- (1) In general, students in schools which perform at the expected level may be more likely to feel personal control over their performance.
- (2) In the case of schools which were predicted to do well, and did well, these students come from higher socioeconomic backgrounds with higher expectations, and their performance reflects their accomplishing what was expected.
- (3) In the case of schools which were predicted to do poorly, and did poorly, these students come from lower socioeconomic backgrounds and lower expectations, and their poorer performance does not necessarily reflect on their self-concept, which may be measured in other than educational terms.

Considering schools with inconsistent findings, the following may be happening:

- (1) In general, students in schools which perform inconsistently with expectations may be more likely to feel that factors beyond their control explain their performance.
- (2) In the case of schools which were predicted to do well, and did poorly, these students come from higher socioeconomic backgrounds with higher expectations and they may need to assign blame for their poor performance elsewhere.
- (3) In the case of schools which were predicted to do poorly, and did well, teachers may be constantly encouraging students from lower socioeconomic backgrounds to perform better, and these students may at some point relinquish personal responsibility for that performance.

B. Students' Perceptions of Teacher and of Class Structure

Eight variables in this category showed significant actual score by predicted score interaction effects. The first four (presented in Tables 39 through 42) have identical patterns. In each case, the two groups of students who score as predicted respond similarly to each other, and the two groups whose predicted and actual score are contradictory respond in similar ways to each other. Furthermore, in each case, those with consistent patterns provide a higher mean response than those with inconsistent patterns.

This pattern of results is, of course, identical to that found in the previous section and lends itself to a consistent interpretation. Students in the inconsistent schools perceive their teachers to be more likely to tell them to do extra work than students in the consistent schools (see Table 40). Similarly, students in the inconsistent schools perceive their teachers to be more likely to help students who do badly than do students in the consistent schools (see Table 41). This motivational behavior on the part of the teachers in the inconsistent schools may explain why the students feel less control of their academic environment.



Further evidence for this motivational behavior on the part of teachers in the inconsistent schools can be found in Table 39. The average response for students in the inconsistent schools is that their teachers perceive them to be better than most students their age, while students in the consistent schools report more often that their teachers perceive them to be equal to students their age. Thus, students in the inconsistent schools perceive their teachers as praising them more than students from the consistent schools. Finally, this same group says that they are more likely than the consistent group to work as a group, all on the same lesson (see Table 42).

What does all this tell us? First, the students in the inconsistent groups perceive a stronger involvement with their teacher. He/She is, in his/her attempt to push his/her students on to better achievement, more likely to offer help in a number of ways, including the offer of extra work. This extra effort, and the verbal praise which likely accompanies it, translates into a belief by the students that they are, or can be, performing better than many of their peers. The last of these items, the class structure variable, simply indicates that teachers of these groups tend to use a more structured approach than teachers of the other groups, perhaps in the belief that the additional structure will be conducive to increased performance by the students.

The final group of significant interactions in this set reflects a slightly different pattern of results (see Tables 43-46). In these interactions, the students in schools predicted to do well, and actually doing well, respond differently from those in the other three groups. The first item asks the students to respond to "How many teachers in this school tell students to try to get better grades than their classmates?" On this item, the mean response of those who are predicted to do well, and do so, is much lower than the means for the other three groups, which are remarkably similar. This indicates that the teachers of the high performing, consistent group seem to not feel the need to encourage better grades, since the students perform well without the encouragement. Those students who feel the most pressure from their teachers are, as has been seen before, the group who performs well, despite a prediction to the contrary. It is perhaps this attention from the teacher which accounts for a least some of their performance. The means for the four groups of students for this item are presented in Table 43. next two questions (presented in Tables 44 and 45) both tap the structured nature of the classroom. In both cases, those students from the high consistent group report a less structured situation than do the other groups who report very similar perceptions of their classes. Thus, those students who are expected to do well, and who do well, state that they are less likely be taught as one large group, and they are less likely to be required to sit in the same seats without changing. This probably indicates that their teachers feel the freedom to offer them a less structured situation in their classes.

The final item in this category requires the students to respond to "Of the teachers that you know in this school, how many don't care how hard the student works, as long as he passes?" Here the largest difference is between the groups who perform well, despite different predicted outcomes. Students who are predicted to do well, and who, in fact, do well, feel the least that this is the case, while those who perform well, despite more pessimistic



predictions, feel most strongly in agreement. Possibly, the emphasis on performance, hence grades, leads the students (in the low predicted, high performing group) to feel that doing well is what is valued, regardless of the effort required.

C. Students' Perception of Other Students and Self

The final three significant interactions relate to the students' perceptions of their schools and class peers. As shown in Table 47, students from schools whose performance is inconsistent with expectation are more likely to believe that their peers would work hard, even if their work was not graded. It appears that the encouragement of their teachers to work hard has been internalized by these students. The two consistent groups are less convinced that they would continue to study if their work was not graded. The group predicted to do well, and doing well, gives the lowest estimate of the number of students who would continue to work. Neither of these groups has been, it is believed, strongly encouraged to perform. This confidence in the performance level of the upper group and acceptance of the performance level of the lower group is reflected in this item, as it has been in others which preceded it.

Despite this response, students in the inconsistent groups are still defensive about their performance. Both of these groups are more likely than the consistent ones to believe their peers do not perform at their potential because of fear of unpopularity (see Table 48). This is simply less of a concern to the consistent groups. It is not a fear for the upper group where high performance is the status quo, or in the lower group where the emphasis is simply not on grades. The final illustration of this point comes in the last item (see Table 49). The low predicted, high scoring group states that a greater number of their peers are unconcerned with poor grades, while the high predicted, high performance group is most concerned about their grades. It appears that in the former group, the emphasis is on performance, while in the latter group, the emphasis is on the tangible rewards of performance.

V. Summary

The analyses presented in this chapter are based on the pilot year of a projected longitudinal study of school effectiveness in Louisiana. The results are, therefore, preliminary and should be treated as such by the reader. The results from next year's work will be based on a much larger sample and will utilize a further refined questionnaire. Nevertheless, there is much to be gained from an examination of the results of the pilot year study. Among the most interesting findings are:

(1) Significant Predicted Score Main Effects

It was expected that differences in students' responses here would be explained by differences in socioeconomic backgrounds of the two groups. As anticipated, this occurred with regard to the students' perception of parental and peer expectations for them. However, teachers of the students predicted to do poorly are perceived by the students as having higher expectations for them. This contradiction between perceptions of teacher expectations and of parent/peer expectations was explained in terms of the teachers from



the lower predicted group being more willing to push their students. Although this push "to try" is internalized by the students, they still feel more likely to be teased for good performance.

(2) Significant Actual Score Main Effects

There was a difference between student expectations and sense of personal control between students in schools which actually did well and those which actually did poorly. These differences are explained by school climate, rather than socioeconomic background. Students from schools actually scoring more highly report a better learning environment: they feel that they learn a lot more; they enjoy reading more; and they feel it is more important to do well in school. Students from the schools scoring less highly have a more structured environment.

(3) Significant Interaction Effects

The overall pattern of results which explains the interactions is one in which consistent schools score similarly. The school environment in schools scoring as predicted may be more accepting of the performance level of students: in the high consistent group, the students do well, and this is anticipated; in the low consistent group, the students do poorly, and the teachers seem resigned to the situation. In schools scoring inconsistently with performance, there is evidence of a greater push on the students to perform. This push has several repercussions for these students in the inconsistent schools: (1) they feel less of a sense of personal control in their school work; (2) they perceive a more structured classroom environment; and (3) they internalize the teachers' push, yet may not feel capable of meeting their teachers' expectations.

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Table 1. Sectorconneil Characteristics of Schools Scaring Above, Selow, or Equal to the Parish's Average Scare on State Assessment Toste, Coddo Third Grade Schoole, 1980-81 School Year

Table IA. Schools Scoring Above the Periob's Average Score on State Assessment Tests

School Honbot	Hether's 4 Educational Lovel	Father's Squart Javel	Husber of Siblines	Percentage of Fathers Wes Are <u>Professionals</u>	Percentage ³ of Methers Wee Are Not <u>Professionals</u>	Parcentage of Students Who Are Block
Al	4.51	4.64	2.65	.44	.08	.06
A2	3.05	3.46	2.76	.14	.33	.49 .47
A3	4.37	4.38	2.42 2.76	.32 .24	. 30 ,27	.25
AS AA AS	4.09	4.14 4.27	2.70	.43	.22	.20
A5 A6	4.27 4.33	1.49	2.52	.36	.14	.17
A7	. 1.41	4.35	2.81	.64	.11	.06
Mana	4.24	4.31	2.44) .49	.21	.25
<u>Table 13. #</u> Bl	chools feating below the	o Parisb's Average Score	en state Assesment	.1)	.66	.44
12	3.77	3.62	3.14	.00	.44	.99
ii	3.46	3.41	3.61	.67	.54	.14
Ä	3.11	3,35	3.60	.00	.43	.98 1,00
15	3.33	1,58	3.46	. 66 .07	.55 .62	.19
14	4.09	3.95 3.89	3.76 3.20	.10	.45	1.00
67	3.94 3.77	3.90	3.00	.16	.42	.19
14 19	3.93	5,73	3.93	.64	.43	1.00
Mana	3 74	1.23	3.40	.07	.49	.94
Table 16, 1	ichoole Scoting Savel to 3.46	the Parish's Average Sc. 3,53	ere og State Angeema	.09	.40	.67
AS AI	3.25	3.34	5.4	.03	.42	.63
A3	3.93	4,13	2.73	.16	.35	.21
ŭ.	3.62	3,66	3.44	.07	.28	1.00
W5	3.69	3.63	3.62	.09	.43	.16
146	3.72	3.53	3.56	.12	.33 ,19	.52 .03
¥7	4.27	4.54	2.85 3.40	.54 .25	.29	
V6	4.13	4,24 3,62	3.20	.09	.34	,97
V9 V16	3.71 3.67	3.30	2.93	.07	.27	.59
VII	3.58	j.ű	3.26	.04	.52	1.00
V12	4.03	3,96	2.55	.17	.30	.67
WI3	3.32	3,16	3.79	.10	.52	1.00
W14	3.60	3.46	2.73	.!!	.29 .20	.11 .33
MIZ	4.04	4.94	2. 82 3.53	.30 .25		.26
W16	3.33 3.66	3.50 3.37	3.44	.10	.41	.19
W17 W18	3.07	ว์.กั	4.10	.04	.19	1.00
VI9	4.32	4,43	2,63	.51	,21	.07
W20	4.10	4.24	2.47	.44	.20	.05
W21	3.74	3,70	2.10	.07	.41 .33	.98 .08
W22	4.03	4.28	2.74	.32	.33	.01
W23	4.16	4.16	2.33 2.63	.20 .22		.04
W24	3.94	4,18 3.44	2.63 3.15	.04	.25	.47
W25 W26	3.47 3.61	3.53	2.96	.04	.31	.28
W27	4.08	4.03	3.41	.14	.23	.34
W28	3.72	3,77	2.84	.14	.32	.51
W29	4.05	4.03	2,66	.29	.21	.17
Mean	3.01	3.63	3.10	.18	.32	.50



These 43 schools with third grade risespons include 6 schools with grade levels E-6. There were initially 46 schools with third grade classresses, but one school was eliminated because of missing data.
For a school to be classified as scaring above the parish's everage assessment score, that school had to accur one attended deviation above the parish's everage assessment cours.
For a school to be classified as accring below the parish's average assessment cours, that school had to accur one standard deviation below the parish's average assessment accur on at least two of the assessment ta-'.a.
The scale values for methera' and fathera' solucation are as follows: somecompleted less than sight years of school; two-completed sighth grade, but did not attend high school; three-went to high school but did not graduate; four-graduated from high school; five-went to genilogs.
Hen-professional sethers include these who are machilled werkers, semi-shilled werkers, and shilled craftowers. These do not include methers who are professional workers or who stay at boss.

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Table 2. Selected School Characteristics of Schools.Scering Abeva, Selow, or Equal to the Farish's Average Score on Scate Assessment Tests, Caddo Third Greds Schools, 1980-81 School Year

Table 2A. Schools Scoring Above the Parish's Average Assessment Score

W29

Hean

547.22

544.35

541.00

587.35

.45

School	Averege Feculty's Score on	Average Feculty's Score on	Fercentage of Feculty That is	Averege Number of Feculty	Mese Totel Feculty	Averege ⁴ Highest Degree	Average ⁵ Freetige of Institutions	Humber	Student
Number	NTE Commone	NTE Aree	White	Absences	Experience	Paculty	Faculty	of	Teacher
Al	584.06	637.22	. 75	6.79	10.86	Received 2.81	Attended	<u>Studeote</u>	Ratio
A2	514.00	560.63	.45	6.15	10.45	2.88	1.81	381 317	22.41 28.82
A3	562.68	614.55	,66	6.41	9.17	2.67	2.41 2.85	459	20.86
A4	550.82	595.00	,45	à.90	9.41	2.78	2.33	437 378	29.08
A5	617.73	666.20	.78	10.26	9.48	2.57	1.85	232	33.14
A 6	549.00	588.33	.54	7.58	13.63	2.77	2.05	410	25.63
A7	572.47	630.00	.63	4.89	14.26	2.81	1.88	655	26.20
Hean	564.39	613.13	61	7 20		2.45	2.03	404.57	26.59
Table 28.	Schoole Scorin	& Below the Fe	rish's Average	Assessment Sc	ore ³	2145	2.03	404137	20.37
Bi	553.79	596.67	.50	8.89	10.27	2.80	2.29	639	23.67
B 2	515.00	590.56	-45	6.82	9.07	2.45	2.32	345	19.17
B3	535.17	587.78	.51	9.56	7.95	2.57	2.14	262	29.11
34	546.78	591.11	.40	5.10	10.80	2.67	2.07	187	20.78
85	522.08	571.67	.35	7.75	11.35	2.89	2.22	538	22.41
16	537.80	588.33	.40	9.49	9.00	2.60	2.27	414	23.00
B7	533.81	605.33	.44	8.47	12.69	2.66	2.34	547	21.03
34	518.12	537.65	.40	8.49	9.25	2.38	2.30	676	21.81
19	552.44	611.25	.44	10.10	9.67	2.62	2.31	559	26.62
Hean	534.99	586.71	.43	8.62	10.01	2.63	2.25	463	23.07
Table 2C.	Schools Scoring	Equal to the	Perich's Avera	ga Assersment				***	
31	534.82	573.75	.47	5.42	11.23	2.76	2.36	556	21.38
W2	573.63	596.88	.58	8.21	9.88	2.55	1.85	277	21.31
W3	557.70	589.09	.52	5. 9 6	11.04	2.40	2.08	497	27.61
14	509.43	564.29	.18	10.15	8.85	2.47	2.37	376	31.33
WS	526.56	570.44	.48	10.71	7.48	2.43	2.11	505	21.56
W6	542.62	605.39	•56	8.00	8.52	2.63	2.05	248	17.71
W7	554.44	606.62	.56	6.50	12.17	2.64	2,09	810	25.31
W8	535.10	572.10	.63	6.58	12.03	2.63	1.83	667	26.68
N9	553.20	603.89	.52	9.98	9.13	2.73	2.08	402	23.63
MIO	498,91	560.00	.50	9.85	7 .9 5	. 2.31	2.31	194	19.40
W1 1	570.63	613.89	.34	9.32	11.56	2.77	2.11	578	22.23
W12	501.19	559.38	.38	6.79	10.83	2.67	2.10	609	27.68
W1 3	534.30	569.00	.40	6.90	10.20	2.53	2.29	199	18.09
W14	554.43	598.57	.79	5.79	. 8.05	2.75	2,00	357	23.80
W15	549.87	615.33	.52	6.83	9.91	2.62	1.95	430	30.71
W16	556.25	591.75	.60	7.24	6.28	2.50	1.77	278	18.53
W1 7	579.00	576.15	.42	8.58	9.42	2.86	2.14	257	18.36
W18	553.71	603.85	.28	8.30	9.47	2.60	2.04	382	25.47
W1 9	554.95	598.50	.60	9.73	9.93	2.68	2.08	500	27.77
W20	521.20	566.09	.68	5.62	10.43	2.97	2.16	760	25.33
W2 1	589.29	611.92	.51	7.46	9.97	2.48	1,93	378	18.90
W2 2	555.63	600.67	-68	6.68	10.13	2.50	1.91	993	29.21
W23	538.95	575.79	.61	7.82	12.84	2.69	1.88	617	23.73
W24 W25	591.82	630.00	-67	7.66	11.88	2.61	2.14	409	29.21
	529.15	587-14	.45	7.23	5.95	2.52	2,09	314	24.15
W26 W27	546.85	596.41	.66	7.86	7.59	2.44	2,09	913	24.68
	547.36	595.37	•54	6.70	9.19	2.58	2,04	1,058	26.45
W28	537.93	560.00	.44	6.23	12.90	2.84	1.97	603	24.12

These 45 schools with third grade classrooms include 6 schools with grade levels K-S. There were initially 46 schools with third grade classrooms, but one school had to be sliminated because of alseing data.

For a school to be classified as scoring above the parish's everage assessment score, that school had to score one standard devistion parish's everage assessment score on at least two of the assessment tasts.

16.48

(10.04)

2.83

2.21

559

507.79

26.62

24.19

5.41

deter's degree; four-Haster's degree plus thirty hours; five-Educational Specialist; six-Doctoral degree (Ed.D or Ph.D),
is were besed on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates institution the managed should.

These percentages in the percentage of graduates are instituted i

for a school to be classified as accring below the parish's everage assessment accrse, that school had to accrs one standard deviation abelow the parish's everage essessment accrs on at least two of the assessment tests.

Tible 3. Statistical Means of All Variables in Relation to the Parish's Average Score on State Assessment Tests, Caddo Third Grade Schools

	Above Avera ge	Equal To Average	Below Average
Number of Schools	_ 7	29	9
Mothers'			
Educational Level	4.26	3.81	3.74
Fathers'			
Educational Level	4.31	3.83	<u>3.73</u>
Number of	2.44	0.10	2 40
Siblings	2.64	3.10	3.40
Percentage of			
Fathers Who	10	10	0.7
Are Professionals	.40	.18	.07
Percentage of			
Mothers Who Are	21	.32	.49
Not Professionals	.21	.32	.43
Percentage of			
Students Who	.25	.50	.94
Are Black	. 2.7		
Faculty's Average Score on NTE			
	564.39	544.35	534.99
Commons Faculty's Average	304.37	3,7,7,0	
Score on NTE			
	613.13	587.35	586.71
Area Percentage of	013,13		
Faculty that			
Is White	.61	.52	.43
Average Number			
of Faculty			
Absences	7.28	7.64	8.62
Mean Total			-
Faculty			
Experience	11.04	10.04	_ 10.01
Average Highest		·····	
Degree Faculty			
Received	2.75	2.62	2.63
Average Prestige*			
of Institutions			
Faculty Attended	2.03	2.07	2.25
Number of			
Students	404.57	507.79	463.00
Student			
Teacher	06.50	2/ 10	22 07
Ratio	26.59	24.19	23.07

*These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 4. Socioeconomic Characteristics of Schools Scoring Above,
Below, or Equal to the Parish's Average Assassant Score on State Assassment Tests,
Caddo Seventh Grade Schools, 1980-81 School Year

	Mothere!	Fathers!	Number	Percentage Of Fathers	Percentage Of Hothers	Percentage Of Student
chool	Educational	Educational	Of	Who Are	Who Are Not	Who Are
umber	Lavel	Level	Siblings	Professionals	Professionals	Black
.1	4.21	4.28	3.12	.47	.26	.11
2	3.92	3.76	2.96	.19	.29	.27
.3	4.47	4.61	3.18	.67	.13	.21
iesn	4.20	4.22	3.09	.44	.22	.20
able 4B.	Schools Scoring Be	low the Psrish's Avers	ige Score on State	Assessment Tests		
31	3.91	3.88	3.99	.16	.42	.95
32	3.92	3.85	3.98	.12	.41	.98
33	3.50	3.29	3.84	.04	.28	.59
34	3.78	3.52	4.21	.11	.44	.98
lean	3.78	3.64	4.00	.11	.39	.88
Table 4C.	School Scoring Equa	al to the Parish's Ave	rsge Score on Sts	te Assessment Tests		
<i>i</i> 1	3.98	4.06	3.36	.38	.25	.51
12	3.91	3.70	4.15	.11	•55	1.00
13	3.18	2.64	4.28	.03	.28	.98
14	3.93	3.99	3.88	.11	.49	.92
15	3.67	3.65	3.81	.12	.37	.57
16	3.88	4.01	3.81	.13	.34	.57
17	3.37	3.43	2.97	.20	.17	.11
18	4.03	4.11	3.30	. 26	.23	.26
19	3.80	3.96	3.43	.21	.34	.36
110	3.56	3.23	4.04	.22	.15	.26
111	4.00	4.04	3.49	,31	.34	.34
lesn	3.75	3.71	3.68	.19	.32	.53

Por a school to be classified as scoring above the parish's average assessment score, that school had to score one standard deviation above the parish's average assessment score on at least two of the assessment texts.

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above the parish's sversge assessment score on at least two of the sessessment tests.

For a school to be classified as scoring below the parish's sversge assessment score, that school had to score one standard deviation below the parish's sversge assessment tests.

below the parish's sverage essessment score on at least two of the assessment teets.

The scale values for mothers' and fathers' education are as follows; one-completed less than eight years of school; two-completed eighth grade but did not attend high school; three-went to high school but did not graduate; four-graduated from high school; .five-went to college.

Africe-went to college.

Non-professional mothers include those who are unskilled workers, semi-skilled workers, and skilled craftswomen. These do not include mothers who are professional workers or who atay at home.

Table 5. Selected School Characteristics of Schools Scoring Above Below, or Equal to the Parish's Average Score on State Assessment Tests, Caddo Seventh Grade Schools, 1980-81 School Year

Table 5A. Schools Scoring Above the Parish's Average Score on State Assessment Tests

Table 5A School	Faculty's Average Scores on NTE Commons	Faculty's Average Score on NTE Area	Percentage Of Faculty That is White	Average Number of Faculty Absences	Hean Total Faculty Experience	Average 3 Highest Degree Paculty Received	Average Prestige of Institutions That Faculty Attended	Averago Number of Daya Suspended per Student	Number of Students	Teacher Ratio
A1	566.08	571.52	.66	6.80	11.02	3.03	2.11	.34	808	38.48
A2	546.85	596.41	.66	7.86	7.59	2.44	2.09	.36	913	24.68
	565.70	571.83	.65	6.10	9.94	2.92	1.92	.97	734	30.58
A3 Hesn	559.54	579.91	.66	6.92	9.52	2.80	2.04	.56	818.33	31.25
Table 5E		ing Below the	Parish's Ave	rage Score or	State Assess	ment Tests				
	<u> </u>						0 22	.86	575	26.14
B 1	529.71	556.32	.34	8.34	10.80	2.90	2.23 2.15	.81	803	29.74
B 2	527.16	539.47	.40	8.26	13.21	2.89	2.13	.12	194	19.40
B 3	498.91	560.00	.50	9.85	7.95	2.31				28.44
B4	528.19	549.00	.34	8.86	9.98	2.69	2.16	1.05	910	25.93
Hesn	520,99	551.20	.40	3.84	9.52	2.70	2.21	.71	620.50	23.73
Table 50	. Schoole Scor	ing Equal to	the Perish's	Average Score	on State Ase	essment Test	<u>:a</u>			
W1	565.63	570.53	.55	6.60	11.58	3,14	1.93	1.05	474	29.63
W2	495.67	536.67	.28	10.75	13.28	2.81	2.24	.95	370	28.46
	546.78	591.11	.47	8.10	10.80	2.67	2.07	.03	187	20.78
W3		538.57	.34	6.86	9.72	2.88	2.24	1.08	662	31.52
W4	510.24		.47	8.21	11.89	2.86	1.92	1.59	631	30.05
W5	580.74	605.26		5.43	12.67	2.69	2.23	.45	580	34.12
W6	524.06	555.56	.53		8.05	2.75	2.00	.10	357	23.80
W7	554.43	596.57	.79	5.79		2.75	2.03	.95	1.588	41.79
W8	545.17	570.00	.59	5.53	12.19		1.96	1,00	487	30.44
W9	533.82	582.94	.59	6.56	12.59	3.12	1.77	.44	278	18.53
W10	556.25	591.75	.60	7.24	6.28	2.50				26.45
W11	547.36	595.37	.54	8.70	9.19	2.58	2.03	.12	1,058	28.69
Hean	541.83	576.03	.51	7.25	10.75	2.80	2.04	.70	606.55	40.09

For a school to be classified as accoring above the parish's average assessment score, that school had to score one standard deviation

below the parish's average sessesment score on at least two of the assessment tests.

Scales values for average highest degree faculty received are as follows; one—less than a Bachelor's degree; two—Bachelor's degree; three—Haster's degree; four—Haster's degree plus thirty hours; five—Educational Specialist; six—Doctoral degree (Ed.D or Ph.D),

These data were based on where the faculty received their Bachelor's degree. Values of one, two or three were assigned to these universities. A value of one indicates the righest prestige; a value of three indicates the lowest prestige.



above the periah's average sessesment score on at least two of the assessment tests.

For a school to be classified as accoring below the parish's average assessment score, that school had to score one stendard deviation

Table 6. Statistical Means of All Variables in Relation to the Parish's Average Score on State Assessment Tests, Caddo Seventh Grade Schools

		Above Average		Equal l Averag		Below Average
Number of schools		3		11		4
Mothers'				-	_	
Educational Level *		4.20		3.75		3.78
Fathers'						
		4.22		2 71		3.64
Educational Level		4.22_		3.71		3.04
Number of						
Sablings		3.09		3.68		4.00
Percentage of						
Fathers Who						
Are Professionals		.44		.19		.11
Percentage of						
Mothers Who Are						
Not Professionals		.22		.32		.39
Percentage of		-			<u> </u>	
Students Who						
Are Black		.20		.53		.88
Faculty's Average					·	
Score on NTE						
Commons		559.54		541.83		520.99
Faculty's Average		-				
Score on NTE						
Area		579.91		576.03		551.20
Percentage of				·		
Faculty that						
Is White		.66		.51		.40
Average Number						
of Faculty						
Absences		6.92		7.25		8.84
Mean Total						_
Faculty						
Experience		9.52		10.75		10.49
Average Highest						
Degree Faculty						
Received		2.80		2.80		2.70
Average Prestige*						
of Institutions						
Faculty Attended		2.04		2.04		2.21
Average Number of						
Days Suspended						
Per Student		.56		.70		.71
Number of						
Students		818.33		606.55		620.50
Student	_					
Teacher						
Ratio		31.25		28.69		25.93
*These data were based o	n the		(a)	where the	faculty	

*These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 7. Socioeconomic Characteristics of Schools Scoring Above, Below or Equal to the Perish's Average Score on State Assessment Tests, Caddo Tenth Grade Schools, 1980-81 School Year

Teble 7A. Schoole Scoring the Above Average Parish's Score on State Assessment Testa

School Name	Mothere ^{, 3} Educational <u>Level</u>	Fethere, 3 Educetional Level	Number of Siblinge	Percentege of Fethers Who Are Professional	Percentage of Hothers Who Are Not Professionals	Percentage of Students Who Are Black
Al	-4.38	4.38	3.54	.50	.23	.43
Table 73.	Schools Scoring Below t	he Averege Parish's Sco	ore on State Assessm	ent Tests ²		
B1 B2 Hean	3.71 3.51 3.61	3.59 3.37 3.48	4.51 4.81 4.66	.14 .09 .12	.42 .38 .40	.84 .99 .92
Teble 7C.	Schools Scoring Equal to	o the Average Parish's	Score on State Asse	esment Tests		
W1 W2 W7 W4 W5 W6 W7 W8 Meen	4.04 4.21 4.00 • 3.58 3.99 4.15 3.59 3.83 3.92	4.10 4.30 4.01 3.46 3.82 4.20 3.40 3.82 3.89	4.05 3.73 3.75 4.01 3.70 3.36 4.31 3.69 3.82	.34 .47 .28 .19 .32 .38 .15 .17	.26 .22 .28 .16 .24 .21 .49 .31	.50 .39 .46 .43 .26 .17 1.00 .41

1 For a school to be classified as scoring above the parish's average score assessment score, that school had to score one standard deviation

the parish's everage assessment score on at least two of the assessment tests.

For a school to be classified as scoring below parish's everage assessment score, that school had to score one standard deviation below

3the perish's average assessment score on at lesst two of the assessment tests.

The scale values for mothers' and fathers' education are as follows; one--completed less than eight years of school; two--completed sighth grade, but did not attend high school; three-went to high school but did not graduate; four-graduated from high school;

Afive-went to college. Non-professional mothers include those who are unakilled workers, semi-skilled workers, and skilled craftswomen. These do not include

mothers who are professional workers or who stay at home.



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Table 8. Selected School Characteristics of Schools Scoring Above. Below or Equal v. the Parish's Average Score on State Assessment Test, Caddo Tenth Grade Schools, 1980-81 School Year

Above Parish's Avarage Score on State Assessment Tasta

Table 8A	. School Scorin	g Above Par	ish's Avarage	Score on Sta	A MESESSER	Average ³	Average 4	Average Number		
School Number	Average Faculty Score on NTE Commons	Average Faculty Score on HTE Area	Percentage of Feculty That is Whits	Averaga Number of Faculty Absences	Mean Total Faculty Experience	Highest Degree Faculty Received	Prestiga of Institutions Faculty Attended	of Days Suspended per Student	Number of Students	Student Teacher Ratio
A1	612.26	611.70	.65	3.15	8.97	2.94	1.65	.01	442	17.00
Table 81	. Schoole Scor	ing Below Pa	rieh*a Averege	Score on St	ata Assesement	Tests ²				
B1 B2 Mean	509 • 29 554 • 24 531 • 77	533.97 573.05 553.51	.38 .39 .39	7.58 7.46 7.52	11.44 11.75 11.60	2.79 2.90 2.85	2.18 2.11 2.15	.87 1.09 .98	1,937 1,512 1,724.50	41.21 34.36 37.78
Table 80	. Schoole Scor	ing Equal To	Parish's Avai	rage Score on	State Assass	ment Teste				
W1 W2 W3 W4 W5 W6 W7 W8 Hean	579.37 573.70 555.00 526.90 545.17 554.85 553.73 562.53 556.50	598.76 585.83 564.07 563.93 570.00 567.05 574.15 586.82 576.33	.62 .61 .44 .54 .59 .52 .35 .62	7.01 5.22 6.25 5.63 5.53 6.65 9.00 6.61 6.49	12.47 13.66 11.37 12.17 12.19 12.28 12.92 14.18 12.66	2.91 2.89 2.91 2.57 2.75 2.97 2.65 3.10 2.85	1.87 1.87 2.06 2.23 2.03 2.10 2.13 1.91 2.02	.70 .82 .72 .72 .95 .85 1.04 .73	1,879 2,073 1,932 1,906 1,588 2,885 1,473 2,224 1,882.50	41.76 40.65 42.93 34.69 41.79 37.47 33.48 33.70 38.31

For a school to be classified as according above parish's average assessment score, that echool had to score one standard deviation above the parish's average assessment score on at legat two of the assessment tests.

For a school to be classified as acoring below parish's average assessment score, that echool had to score one standard deviation below

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³ the parish's average essassment acore on at least two of the assessments tasts.

Scale values for average highest degree faculty received are as follows: one-less than a Bachelor's degree; two-Bachelor's degree;

three-Haster's degree; four-Haster's degree plus thirty hours; five-Educational Specialist; eix-Doctoral degree (Ed.D or PhD).

These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 9. Statistical Means of All Variables in Relation to the Parish's Average Score on State Assessment Tests, Caddo Tenth Grade Schools

	Above Average	Equal To Average	Below Average
Number of Schools	11	8	2
Mothers'			
Educational Level	4.38	3.92	3.61
Fathers'	/ 20	2 00	2 49
Educational Level	4.38	3.89	3.48
Number of			
Siblings	3.54	3.82	4.66
Percentage of			
Fathers Who			
Are Professionals	.50	.29	.12
Percentage of			
Mothers Who Are			
Not Professionals	.23	.27	.40
Percentage of			
Students Who			
Are Black	.43	.45	92
Faculty's Average			
Score on NTE			
Commons	612.26	556.50	531.77
Faculty's Average		<u> </u>	
Score on NTE			
Area	611.70	576.33	_553.51
Percentage of			
Faculty that			
Is White	.65	54	.39
Average Number			
of Faculty			
Absences	3.15	6.49	7.52
Mean Total			
Faculty			
Experience	8.97	12.66	11.60
Average Highest			
Degree Faculty			
Received	2.94	2.85	2.85
Average Prestige*			
of Institutions		_	
Faculty Attended	1.65	2.02	2.15
Average Number of			
Days Suspended			
Per Student	.01	.82	.98
Number of			
Students	442.00	1882.50	1724.50
Student			
Teacher			
Ratio	17.00	38.31	37.78

^{*}These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 10. Socioeconomic Characteristics for Schools Scoring Above, Selow or Approximately As Predicted on State Assessment Tests, Caddo Third Grade Schools, 1980-81 School Year

Teble 10A. Schoole Scoring Above Predicted on State Assessment Teste

Hean

School Number	Hath ³ Score	Reading ³ Score	Writing ³	Hothers ⁴ Educational Level	Fathers * 4 Educational Level	Number of Siblings	Percentage of Pethero Who Are Professionals	Percentege 5 of Mothers Who Are <u>Not</u> Professional	Percentage of Students Who Are a Slock
Al	+2	+2	+3	3.25	3.38	3.64	.03	.42	.63
A2	+2	+3	+2	3.62	3.86	3.60	.07	. 28	1.00
ÃĴ	+2	+2	+2	3.85	3.88	2.76	.14	.33	.49
A4	+1	+2	+2	4.37	4.38	2.42	.32	. 30	.47
AS	+3	+1	+2	4.09	4.14	2.76	.24	.27	.25
A6	+3	+3	+3	3.89	3.83	3.82	.09	.43	.98
Ä7	+2	+3	+2	3.71	3.62	3.28	.09	.54	.97
A8	+3	+2	+2	3.32	3.18	3.79	.10	.52	1,00
A9	+2	+3	+4	4.33	4.49	2.52	.36	.14	.17
A10	+3	+1	+2	3.61	3.73	2.98	.08	.31	.28
Heam				3.80	, 3.85	3.16	.15	.35	.62
Table 108.	Schools Sco	ring Below Pred	icted on Stat	Assessment Too	te*				
B1	-3	-2	-4	4.03	2174	2.91	.13	.46	.68
82	-4	-4	-2	3.46	3.41	3.61	.07	.54	.86
83	-1	-2	-1	3.11	3.35	3.60	.00	.45	.98
M	-2	-2	-1	4.15	4.24	3.40	.25	.29	.30
85	-2	-2	-4	4.09	3.95	3.70	.07	.62	.99
36	-2	-3	-2	3.33	3.50	3.53	.25	- 13	.26
87	-0	-2	-2	3.74	3.70	2.70	.07	.41	.98
14	-1	-2	-3	3.47	3.64	3.15	.08	.25	.47 .17
89	-2	-1	-3	4,05	4.05	2.66	.29	.21	.63
Hean				3.72	3.75 2	3.25	.13	.37	
				ted on State Asse	0 7001 7 7 0000	2 (1	.68	.08	.06
WI	+0	0	+1	4.51	4.64	2.65	.09	.40	.67
W2	0	+2	0	3.50	3.53	3.38	.16	.35	.21
W3	0	0	- <u>!</u>	3.95	4.13	2.73 3.14	.00	.44	.99
W4	0	-2	-1	3.77	3.82	3.56	.12	.36	.52
W5	0	+1	0	3.72	3.53		.54	.19	.03
W6	0	0	0	4.27	4.54	2.85	.07	.27	.59
W7	-3	0	0	3.67	3.38	2.93 3.28	.04	.52	1.00
WB	0	+1	o,	3.58	3.66	2.55	.17	.30	.87
W9	0	-1	-1 0	4.03	3.98	3.46	.08	.55	1.00
M10	0	0	0	3.55	3.58	2.73	.18	.29	.11
WII	+1 0	0	0	3.60 4.04	3.48 4.08	2.82	.30	.20	.33
W12	-2	0	0		3.89	3.20	.10	.45	.10
W13	0	+2	0	3.94		3.46	.10	.41	.99
W14	0	*2	ŏ	3.68 3.87	3.37 3.71	4.10	.06	.39	1.00
W15		-1	0	3.07 3.77		3.00	.16	.42	.99
WI6	0	-1 -1	-1	4.32	3.90 4.43	2.63	.51	.21	.07
W17	-2	-1 -1	-1		3.73	3.93	.04	.45	1.00
WIB	-2 +1	-1	-1	3.93 4.27	3.73 4.27	2.57	.43	.22	.20
W19	*1	Ů	-1	4.10	4.24	2.47	.44	.20	.05
W20	+1	+1	+1	4.10	4.20	2.74	.32	.33	.08
W21 W22	*1 *1	+1	0 +1	4.16	4.16	2.33	.20	.27	.01
	-1	0	0	3.94	4.18	2.63	.22	.19	.06
W23	-1 -1	0	Ö	4.41	4.35	2.81	.64	ii ·	.08
W24 W25	-1	Ö	Ö	4.08	4.05	3.41	.14	. 23	.34
W26	-i	ŏ	+1	3.72	3.77	2.84	.14	.32	.51
#40	71	U	7.	3.74	3.77	2.01	23	31	.40

These 45 schools with third grade classrooms include 6 schools with grade lavels K-8. There were initially 46 schools with third grade classrooms, but one school was eliminated because of sissing date.

For a school to be classified as scoring above predicted on the state assessment tests, at had to score 44 or more scross the three assessment tests; for a school to be classified as scoring below predicted, it had to score 4 or less scross the three assessment

1.95

61

.31

.23

³ These ecores indicate the number of etenderdized residual values above or below their predicted acores that the schools scored on the respective state essessment tests. Each score of one corresponds to a range of .5 standardized residual values. For example, a score of zero indicates a score of 1.5 standardized residual values from the predicted score; a score of 11 indicates a score of 2.5 to 11 standardized residual values from the predicted score; a score of 11 to 11.5 standardized residual values from

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2.84

2.66

1.97

2.10

24.55

503.42

Table 11. Selected School Characteristics for Schools Scoring Above, Selow or Approximately As Predicted on State Assessment Tests, Cadilo Third Grade Schools, 1980-81 School Year

Teble_11A	Schoole Scoring	Faculty*e Averege	Percentage of Faculty	Averege Humber of Faculty	Meen Totel Yeere Feculty	Averege Highest Degree Faculty	Averege Prestige of lestitutions Faculty	Humber of	Student Teacher
School	Score on	Score on	That is	Absences	Experience	Received	Attended	Studente	Retio
Number	NTE Commons	MTE Aree	White _	8.21	9.88	2.55	1.85	277	21.31
Al	573.63	596.88	.18	10.15	8.85	2.47	2.37	376	31.33 28.82
A2	509.43	564.29 560.63	.45	6.15	10.45	2.88	2.41	317	20.86
N)	514.00	614.55	.66	6.41	9.17	2.67	1.85	459	29.08
44	562.68	595.00	.45	8.90	9.41	2.78	2.33	378	21.96
AS	550.82	570.44	.48	10.71	7.48	2.43	2.11	505	23.63
A6	526.56	603.89	.52	9.98	9.13	2.73	2.08	402 199	18.09
A7	553.20 534.30	569.00	.40	6.90	10.20	2.53	2.29	410	25.63
AB		588.33	.54	7.58	13.63	2.77	2.05		24.68
A9	549.00 546.85	596.41	.64	7.86	7.59	2.44	2.09	913	24.54
A10	E4) 0E	585.94	.49	8.29 2	9.5B	2.63	2.14	423.60	• • • • • • • • • • • • • • • • • • • •
Heen	341.U3 B. Reboyle Scor	ing Below Predic	ted on State Ass	seement Toota				639	23.67
Bì	553.79	396.67	.50 4	8.89	10.27	2.80	2.29	262	29.11
82	535.17	587.78	.51	9.56	7.95	2.57	2.14 2.07	187	20.78
B)	546.78	591.11	.40	8.10	10.80	2.67	1.83	467	26.68
14	535,10	572.10	.64	6.58	12.03	2.63	2.67		23.00
B 5	537,80	588.33	.40	9.49	9.00	2.60	1.77	414 278	18.53
16	556.25	591.75	.60	7.24	6.28	2.50	1.93	378	18.90
3 7	589.29	611.92	.51	7.46	: .97	2.48	2.09	314	24.15
14	529.15	587.14	.45	7.22	5.95	2.52	2.21	559	26.62
87	547.22	341.00	.45	5.41	16.48	2.83	2.06	410.89	23.49
Mean		585.31	.50	7.76	9.86	2.62	2,00	420.07	
Teble 11	C. Schools Scot	ries Approximatel	y As Predicted	ou State Assess	ment Teste	2.81	1.81	381	22.41
WI	584.06	637.22	./3	9.77	,,,,	2.76	2.36	556	21.38
W2	534.82	573.75	.47	5.42	11.23	2.40	2,08	497	27.61
W3	557.70	589.09	.52	5.96	11.04	2.45	2.32	34.5	19.17
W4	515.00	590,56	.45	6.82	9.07	2.63	2.05	248	17.71
W5	542.62	605.39	.57	8.00	8.52	2.64	2.09	810	25.31
W6	554.44	4.6.62	.57	6.50	12.17	2.31	2.31	194	19.40
W7	498.91	560.00	.50	9.85	7.95	2.77	2.11	578	22.23
us.	570,63	613.89	. 34	9.32	11.56	2.67	2,10	609	27.68
W9	501.19	559.38	.38	6.79	10.83 11.35	2.89	2.22	5^8	22,41
WIO	522.08	571.67	.35	`.75	8.05	2.75	2.00	357	23.80
WII	554.43	598.57	.79	5.79	9.91	2.62	1.95	430	30.71
W12	549.87	615.33	.54	6.83	12.69	2.66	2.34	547	21.03
W13	533.81	605.33	.44	8.47	9,42	2.86	2.14	257	18.36
WIA	579.00	576.15	.42	8.58	9.4.	2.60	2.04	382	25.47
Wlo	553.71	603.85	.28	8.30	9,24	2.38	2.30	676	21.81
W16	518.12	537.65	.40	8.49	9.93	2.68	2.08	500	27,77
W17	554.95	598.50	.60	9.73	9.53	2.62	2.31	559	26.62
W18	552.44	611.25	.44	10.10	9.67 % 48	2.57	1.85	232 .	33.14
W19	617.73	666.20	.78	10.26	10.43	2.97	2.16	760	25.33
W20	521.20	566.09	.68	5.62	10.13	2.50	1.91	993	29.21
W21	555.63	600,67	68	6.68	12.84	2.69	1.88	617	23.73
W22	538.95	575.79	.61	7.82	11.88	2.61	2.14	409	29.21
W23	591.82	630.00	.67	7.66	14.26	2.81	1.88	655	26.20
W24	572.47	630.00	.63 .54	4.89 8.70	9.19	2.58	2.04,	1058	26.45
W25	547.23	595.37	.34	4.22	12 90	2.84	1.97	603	24.12

^{7.59} 595.32 546.19 Heen 1 These 45 schools with third große classrooms include 6 schools with grade levels K-S. There were initially 46 schools with third grade classrooms, but one school was situated because of missing date. For a school to be classified as scoring above predicted scores on the state sessement tests, it had to score +4 or more scross the

6.23

12.90

10.54

537.93

560.00

W25

W26

on as essented toes: for a school to be classified as scoring below predicted scores, it had to score -4 or less across the three I calues for everage highest degree faculty received are se follower one--less than Sachelor's Degree; two--Bachelor's degree; ee-Haster's degree; four-Haster's degree plus thirty hours; five-Educational Specialist; six--Doctorel degree (Ed.D or Ph D).

These data were besed on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the MTE. Values of one, two or three were essigned to these universities. A value of one indicates

Table 12. Statistical Means of All Variables in Relation to Predicted State Assessment Scores, Caddo Third Grade Schools

	Above Predicted	Approximately As Predicted	Below Predicted
Number of Schools	10	26	9
Mothers'			
Educational Level	3.80	3.94	3.72
Fathers'		•	
Educational Level	3.85	3.95	3.75
Number of			
Siblings	3.16	3.01	3.25
Percentage of			
Fathers Who			
Are Professionals	.15	23	.13
Percentage of			
Mothers Who Are			
Not Professionals	.35	31	37
Percentage of			
Students Who			
Are Black	.62	. 49	.63
Faculty's Average			
Score on NTE			,
Commons	542.05	546.19	547.84
Faculty's Average			
Score on NTE			
Area	585.94	<u>595</u> .32	585.31
Percentage of			
Faculty that			
Is White	.49	.53	•50
Average Number			
of Faculty			
Absences	8.29	7.59	7.76
Mean Total			
Faculty			
Experience	9.58	10.54	9.86
Average Highest	<u> </u>		
Degree Faculty			
Received	2.63	_2.66	2.62
Average Prestige*			
of Institutions			
Faculty Attended	2.14	2.10	2.06
Number of			
Students	423.60	530.42	410.89
Student			
Teacher	•		
Ratio	24.54	24.55	23.49
			

^{*}These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.



Table 13. Socioaconomic Cheracteristica for Schoola Scoring Abova, Below, or Approximately
As Pradicted on State Assessment Scores, Caddo Sayanth and Tanth
Grade Schools, 1980-81 School Year

Table 13A. Schools Scoring Above Predicted On State Assessment Tests

								s.P.	ercentege
School	Hath	Reading	Writing	Hothers ⁴ Educational	Fethers ^{‡4} Educational	Number of	Parcentage Of Fathers Who Are	Percentage Of Mothers Who Are Not	of Studente Who Are
Number	Score	Score	Score	Level	Level	Siblinge	Professionals	Professionals	Black
NI	+4	+1	+1	4.38	4.38	3.54	.50	.23	.43
A2	+3	+3	+3	3.91	3.70	4.15	.11	.55	1.00
13	Ō	+3	+1	3.18	2.64	4.28	.03	.28	.98
14	+2	+3	+3	4.21	4.28	3.12	.47	.26	.11
15	+3	+1	+2	3.92	3.76	1.96	.19	.29	.27
lean	_			3.92	3.75	: 3.61	.26	.32	.56
Teble 138.	Schoole Sc	oring Below Pro	edicted on St	ate Assessment T	este ²				
B1	-3	-2	0	3.91	3.88	3.99	.16	.42	.95
82	0	-3	-3	3.98	4.06	3.36	.38	.25	.51
83	-3	~1	0	4.21	4.30	3.73	.47	.22	.39
B4	Ō	-3	-2	3.50	3.29	3.64	.04	.28	.59
B5	0	-2	-3	4.00	4.01	2.75	.28	.28	.46
16	-1	0	-3	3.87	3.43	2.97	.20	.17	.11
Hean				3.83	3.83	3.61	. 26	.27	.50
Teble 13C.	Schoole Sc	oring as Predi	cted on State	Assessment Test					
Wl	0	0	+1	4.04	4.10	4.05	. 34	.26	.50
H2	-1	0	0	3.92	3.85	3.98	.12	.41	.98
W3	0	-2	0	3.71	3.59	4.51	.14	.42	.84
H4	+1	+1	+1	3.51	3.37	4.81	.09	.38	.99
WS	- 0	+1	+1	3.93	2.99	2.88	.11	.49	.92
W6	-2	0	+1	3.78	3.52	4.21	.11	.44	.98
u7	Ď	0	-1	3.67	3.65	3.81	.12	.37	.57
N8	~1	+1	0	3.88	4.02	3.82	.13	.38	.57
₩9	+3	+1	-3	3.58	3.46	4.01	.19	.16	.43
W10	-1	+1	+2	4.03	4.11	3.30	.26	.23	. 26
Wll	-1	-1	0	3.80	3.96	3.43	.21	.34	.36
W12	-3	0	+3	3.56	3.23	4.04	.22	.15	.26
W13	+1	0	0	4.15	4.20	3.36	.38	.21	. 17
W14	Ö	-1	+2	4.00	4.04	3.49	.31	.34	.34
WIS	Ō	Ō	-1	3.59	3.40 .	4.31	.15	.49	1.00
W16	+2	Ō	0	3.83	3.82	3.69	.17	.31	.41
W17	-1	0	0	4.47	4.61	3.18	.67	13	.21
Hean	-	-		3.85	3.82	3.88	.22	• .32	.58

Thems 28 schools include one school that has both seventh and tenth grada classrooms. The data from this school is from the savanth grade classrooms only.

the predicted scors.

The scale values for mothers' and fathers' education are as follows; one--completed less than sight years of school; two--completed eighth grade, but did not sttend high school; three--went to high school, but did not graduate; four--graduated from high school; five--cwent to collage.



For a school to be classified as acoring above predicted on state assessment tests, it had to score +4 or more across the three assessment tests; for a school to be classified as scoring below predicted on the state assessment tests, it had to score -4 or less across the three assessment tests.

These scores indicate the number of standardized residual values above or below their predicted acorse that the schools acored on the respective state assessment tests. Each acors of one corresponds to a range of .5 standardized residual values. For example, a score of zero indicates a score of ±.5 standardized residual values from the predicted score; a score of ±.1 indicates c score of ±.5 to ±1 standardized residual values from the predicted score; a score of ±1.5 standardized residual values from the the predicted score.

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Average³

2.23

2.07

1.87

2.15

2.18

2.11

2.24

2.16

1,92

2.23

2.23

2.03

1.96

1.92

2 90

2.92

Average

.86

.82

.12

.72

.10

.61

.70

.81

.87

1.09

1.08

1.05

1.59

. 45

.72

.95

1.00

.44

.85

.12

.73

. 97

1.04

1.05

575

474

194

357

2,073

1,932

934,17

1.879

1.937

1,512

803

662

910

631

580

487

278

1,006

1,588

2,885

1,058

2,224

734

. 1,473

26.14

29.63

40.65

19.40

42.93

23.80

30.42

41.76

29.74

41.21

34.36

31.52

28.44

30.05

34.12

34.69

41.79

30.44

18.53

37.47

26.45

33.48

33.70

30.58

Table 14. Selected School Cherecteristics for Schools Scoring Abovs, Below or Approximately As Predicted on State Assessment Scores, Caddo Saventh and Tenth Grads Schools, 1980-81 School Year

Schoole Scoring Above Predicted on State Assessment Tests

36

W5

U6

W7

UB

U9

U10

W16

562.53

Mean

School Number	Faculty's Average Score on HTE Commone	Faculty's Average Score on NTE Area	Percentage of Faculty That is White	Average Number of Faculty Absences	Hean Total Faculty Experience	Highest Degree Faculty Received	Preetige Institutions Faculty Attended	of Days Suspended per Student	Number of Studente	Strant Teacher Ratio
A1 A2	612.26 495.67 546.78	611.70 536.67 591.11	.65 .28 .40	3.15 10.75 8.10	8.97 13.28 10.80	2.94 2.81 2.67	1.65 2.24 2.07	.01 .95 .03	442 370 187	17.00 28.46 20.78
A3 A4 A5 Henn	566.07 546.85 553.53	571.52 596.41 581.48	.66 .66 .53	6.80 7.86 7.33	11.02 7.59 10.33	2.11 2.44 2.77	3.03 2.09 2.03	.34 .36 .34	808 913 554.00	38.48 24.68 25.88

ring Below Predicted Scores on State Assessment Tests

Tabia	140.	30110018	SCOTTINE BELOW TITLE	2000 000.00	<u> </u>		
31 32		529.71 565.63	556.32 570.53	.34 .55	8.34 6.60	10.80 11.58	

	•				
1	529.71	556.32	.34	8.34	10.80
12	565.63	570.53	.55	6.60	11.58

Bl	529.71	556.32	.39	0.39	10.00	2.50	-113	
B 2	565.63	570.53	.55	6.60	11.58	- 3.14	1.93	
13	573.70	585.83	.61	5.22	13.66	2.89	1.87	
33			.50	9.85	7.95	2.31	2.31	
34 35	498.91	560.00			11.37	2.91	2,06	
	555.80	564.07	.44	6.25			2.00	
26	ECT 13	50 8 57	. 79	5.79	8.05	2.75	2.00	

2.75 .79 5.79 8.05 598.57 554.43 10.57 2.82 .54 7.01 572.55 546.36

Schools Scoring Approximately As Predicted on State Assessment Tests Table 14C.

11	579.37	598.76	.62	7.01	12.47	2
		-			12 01	•

W1	579.37	598.76	.62	7.01	12.47	2.91
• •		539.47	.40	8.26	13.21	2.89
W2	527.16		-		11.44	2.79
W3	509.29	533.97	.38	7.58		
W4	554.24	573.05	.39	7.46	11.75	2.90
üs	510.24	538.57	.32	6.86	9.72	2.88

	227.10	227.47	.40	0.20		
	509.29	533.97	.38	7.58	11.44	2
	554.24	573.05	.39	7.46	11.75	2
	510.24	538,57	,32	6.86	9.72	2
,	J10.24	330131	• • •			^

554.24	573.05	.39	7.46	11.75	2.90
510.24	538.57	.32	6.86	9.72	2.88
528.19	549.00	.34	8.86	9.98	2.69
580.74	605.26	.47	8.21	11.89	2.86

580.74 5.43 12.67 .53 555,56

2.69 524.06 12.17 2.57 .54 5.63 563.93 526.90 12.19 2.75 5.53 3.12

582.94

586.82

571.83

570.00 .59 545.17 12.59 .59 6.56

,62

.65

u11 533.82 1.77 6.28 2.50 7.24 591.75 .60 **U12** 556.25 2.97 2.10 12.28 .52 6.65 567.05 **W13** 554.85 2.03 9.19 2.58 595.37 .54 8.70 547.36 **U14** 2.13 .35 12,92 2.65 9.00 574.15 W15 553.73 1.91 3.10 6.61 14.18

6.10

565.70 W17 32.84 1,215.53 .85 11.46 2.81 2.06 7.16 .50 570.44 Mean 544.68 These 28 schools include one school that has both seventh and tenth grade classrooms. The data from this school is from the seventh 2grade classrooms only. For a school to be classified as scoring above pradicted on the state assessment tests, it had to score +4 or more across the three

9.94

assessment taste; for a school to be classified as scoring below predicted, it had to score -4 or less scross the three assessment Scale values for average highest degree faculty received are se follows; one--less than Bachalor's degree; two---Bachalor's degree (Ed.D. or Ph.D.) three-Haeter's degree; four-Haeter's degree plus thirty hours; five-Educational Spacialist; six-Doctoral degree (Ed.D or Ph.D).

a were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates ERIC institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicate st preatige; a value of three indicates the lowest prestige.

Table 15. Statistical Means of All Variables in Relation to Predicted State Assessment Scores, Caddo Seventh & Tenth Grade Schools

	Above Predicted	Approximately As Predicted	Below Predicted
Number of Schools Mothers'	5	17	6
Educational Level	3.92	3.85	3.83
Fathers'			
Educational Level	3.75	3.82	3.83
Number of			
Siblings	3.61	3.88	3.61
Percentage of			
Fathers Who			
Are Professionals	.26	.22	.26
Percentage of			
Mothers Who Are			
Not Professionals	.32	.32	.27
Percentage of			
Students Who			
Are Black	.56	.58	.50
Faculty's Average		•	
Score on NTE			
Commons	553.53	544.68	546.36
Faculty's Average			
Score on NTE	501 /0	11	
Area	581.48	570.44	572.55
Percentage of			
Faculty that			
Is White	.53	.50	.54
Average Number			
of Faculty	7 00		
Absences	7.33	7.16	7.01
Mean Total			
Faculty	10.22	11 16	10 50
Experience Average Highest	10.33	11.46	10.57
• •			
Degree Faculty	0 77	0.01	0 00
Received	2.77	2.81	2.82
Average Prestige* of Institutions			
	2 02	2.06	0 07
Faculty Attended Average Number of	2.03	2.06	2.07
Days Suspended			
Per Student	2.4	0.5	61
Number of	.34	.85	.61
Students	544 00	1017 50	027 12
Students	544.00	1214.53	934.17
Teacher			
	25 00	22.07	20. /2
Ratio	25.88	32.84	30.42

^{*}These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 16

Variables in Full Fifteen Variable Multiple Regression Model, Third Grade Schools Only

School Variables		
Percentage of Faculty that is White		
Mean Faculty Score on NTE Commons Exam		
Mean Faculty Score on NTE Area Exam		
Mear Highest Degree Attained By Faculty		
Mean Faculty Absences		
Mean Total Faculty Experience		
Number of Stidents		
Student Teacher Ratio		
Principal Percentile Score on Administration Test		

Mean Prestige of Universities* Faculty Attended

*These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.



Table 17

Proportion of Variance Explained Using Multiple Regression Models, Third Grade Schools Only

A. Full Fifteen Variable Model

Subject Area	Socioeconomic Variables Alone	School Variables Alone	Both Sets Together
Mathematics	.4490***	.4414*	.5546 *
	(.3802)	(.2772)	(.3242)
Reading	.6623***	.4995**	.6961***
	(.6201)	(.35 <u>2</u> 3)	(.5389)
Writing	.5843***	.5340 **	.6508**
	(.5323)	(.3969)	(.4701)

Subject Area	Socioeconomic	School Variables	Both Sets
	Variables Alone	Alone	Together
Mathematics	.4158***	.3567***	.5354***
	(.3886)	(.2940)	(.4639)
Reading	.6604***	.1005	.6869***
	(.6273)	(.0587)	(.6388)
Writing	.5666***	.1795*	.6416***
	(.5357)	(.1208)	(.5865)



^{*} p < .05 ** p < .01 *** p < .001

^{*} The first number in each cell is the unadjusted \underline{r}^2 ; the number in parenthesis is the \underline{r}^2 adjusted for the number of independent variables and the number of cases in the model.

Table 18

Proportion of Variance Explained Using
Stepwise Regression Models, Third Grade Schools Only

A. Full Fifteen Variable Model

Subject Area	Socioeconomic Variables Alone	Socioeconomic Plus School Variables	Additional Variance Explained
Mathematics	.4482	.5546	.1064
Reading	.6652	.6961	.0309
Writing	.5832	.6508	.0676
	-		

	B. Reduced Six V	ariable Model	
		Socioeconomic	Additional
	Socioeconomic	Plus	Variance
Subject Area	Variables Alone	School Variables	Explained
Mathematics	. 4158	.5354	.1196
Reading	. 6504	.6869	.0265
Writing	. 5666	.6416	.0750



Table 19

Variables Retained in Reduced Six Variable
Multiple Regression Model, Third Grade Schools Only

Test	Socioeconomic	School School
	Variables	Variables
Mathematics	Father's Education	Mean Faculty Score on NTE
	Percentage of Mothers	Common Exam
	Who Are not	Mean Number of Faculty
	Professionals	Absences
		Student Teacher Ratio
		Number of Students in School
Reading	Father's Education	Mean Faculty Score on NTE
	Number of Siblings	Area Exam
	Percentage of Mothers Who Are not	Number of Students in School
	Professionals	
	Percentage of Students	
	Who Are Black	
Writing	Number of Siblings	Mean Faculty Score on NTE
	Percentage of Fathers	Commons Exam
	Who are Professional	Mean Faculty Score on NTE
	Percentage of Students	Area Exam
	Who are Black	Number of Students in School

Table 20

Variables in Full Sixteen Variable Multiple Regression Model, All Three Grade Schools Combined

Socioeconomic Variables	School Variables
Father's Education	Percentage of Faculty That is White
Number of Siblings	Mean Faculty Score on NTE Commons Exam
Percentage of Mothers Who Are Not Professionals	Mean Faculty Score on NTE Area Exam
Percentage of Fathers Who Are Professionals	Mean Faculty Absences
Percentage of Student Body That is Black	Mean Faculty Salary
	Mean Faculty Experience in School
	Number of Students in School
	Student-Teacher Ratio
	Principal's Percentile Score on NTE Administration Test
	Mean Highest Degree Attained By Faculty
	Mean Prestige of University* Faculty Attended

^{*}These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percetage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.



Table 21

Variables in Full Seventeen Variable Multiple Regression Model, Seventh and Tenth Grade Schools Combined

Socioeconomic	School School
Variables	Variables
Father's Education	Percentage of Faculty That is White
Number of Siblings	Mean Faculty Score on NTE Commons Exam
Percentage of Mothers Who Are Not Professionals	Mean Faculty Score on NTE Area Exam
Percentage of Fathers Who Are Professionals	Mean Highest Degree Attained By Faculty
Percentage of Student Body That is Black	Mean Faculty Absences
	Mean Faculty Salary
	Mean Total Experience of Faculty
	Average Number of Days Suspended Per Student
	Number of Students in School
	Student Teacher Ratio
	Principal Percentile Score on NTE Administration Test
	Mean Prestige of Universities* Faculty Attended

^{*}These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.



Table 22

Proportion of Variance Explained Using Multiple Regression Models, All Three Grade Schools Combined $^{\rm l}$

A. Full Sixteen Variable Model

Subject Area	Socioeconomic Variables Alone	School Variables Alone	Both Sets Together
Mathematics	.5726***	.4380***	.6847 ** *
	(.5382)	(.3256)	(.5839)
Reading	.7348***	.4915***	.7986***
	(.7134)	(.3898)	(.7342)
Writing	.6427***	.5884***	.8197***
	(.6139)	(.5061)	(.7620)

B. Reduced Six Variable Model

Subject Area	Socioeconomic	School Variables	Both Sets
	Variables Alone	Alone	Together
Mathematics	.5637***	.3940***	.6656***
	(.5503)	(.3555)	(.6327)
Reading	.7315***	.2826***	.7861***
	(.7144)	(.2606)	(.7651)
Writing	.6360***	.4359* **	.8092***
	(.6189)	(.4095)	(.7904)

^{* &}lt;u>p</u> < .05 ** <u>p</u> < .01 *** <u>p</u> < .001

¹The first number in each cell is the unadjusted $\frac{r^2}{r^2}$; the number in parenthesis is the $\frac{r^2}{r^2}$ adjusted for the number of independent variables and the number of cases in the model.



Table 23

Proporcion of Variance Explained Using Multiple
Regression Models, Seventh and Tenth Grade Schools Combined

A. Full Seventeen Variable Model

Subject Area	Socioeconomic	School Variables	Both Sets
	Variables Alone	Alone	Together
Mathematics	.7690***	.8466***	.9504***
	(.7165)	(.7238)	(.8661)
Reading	.8672***	.8066***	.9461***
	(.8370)	(.6518)	(.8543_
Writing	.6836***	.7092*	.8808*
	(.6116)	(.4766)	(.6781)

Subject Area	Socioeconomic	School Variables	Both Sets
	Variables Alone	Alone	Together
Mathematics	.7370***	.5667***	.8895***
	(.7041)	(.5126)	(.8574)
Reading	.8425***	.4919***	.9185***
	(.8151)	(.4513)	(.8953)
Writing	.6184***	.4889**	.8529***
	(.6038)	(.3728)	(.8109)



¹ The first number in each cell is the unadjusted \underline{r}^2 ; the number in parenthesis is the \underline{r}^2 adjusted for the number of independent variables and the number of cases in the model.

Table 24

Proportion of Variance Explained Using Stepwise Regression Models, All Three Grade Schools Combined

A. Full Sixteen Variable Model

Subject Area	Socioeconomic Variables Alone	Socioeconomic Plus School Variables	Additional Variance Explaired
Matheratics	.5764	.6847	.1083
Reading	.7388	.7986	.0598
Writing	.6455	.8197	.1742
Writing	.6455	.8197	.174

Subject Area	Socioeconomic Variables Alone	Socioeconomic Plus School Variables	Additional Variance Explained
Mathematics	.5637	.6656	.1019
Reading	.7315	.7861	.0546
Writing	.6360	.8092	.1732



Table 25

Proportion of Variance Explained Using Stepwise Regression Models, Seventh and Tenth Grade Schools

A. Full Seventeen Variable Model

Subject Area	Socioeconomic Variables Alone	Socioeconomic Plus School Variables	Variance Explained
Mathematics	.7690	.9504	.1814
Reading	.8672	.9461	.0789
Writing	.6836	.8808	.1972

Subject Area	Socioeconomic Variables Alone	Socioeconomic Plus School Variables	Additional Variance Explained
Mathematics	.7370	.8895	.1525
Reading	.8425	.9185	.0760
Writing	.6184	.8529	.2345

Table 26

Rotated Factor Matrix, School and Socioeconomic Variables, All Three Grades Combined

Factors

Variables				
_	1	2	3	4
Father's Education	(81)	.17	.17	.10
Number of Siblings	(.78)	. 39	07	19
Percentage of Mothers				
Who Are not Professional	(.76)	09	18	.40
Percentage of Fathers				
Who are Professional	(79)	24	.31	13
Percentage of Student				
Body That is Black	(.86)	08	23	.22
Percentage of Faculty			<u> </u>	
That is White	(66)	06	.52	20
Mean Faculty Score on NTE	<u> </u>			
Commons Exam	23	.11	(.91)	06
Mean Faculty Score on NTE			-	
Area Exam	19	34	(.83)	.05
Mean Faculty Absences	19 .52	34 32	.05	.05
Mean Faculty Salary	.05	(.85)	09	.17
Mean Faculty Experience				
in School	08	(.80)	08	.13
Number of Students in				
School School	.01	(.78)	.04	19
Student-Teacher Ratio	07	(.80)	02	19 14
Principal's Percentile				
Score on NTE				
Administration Test	10	16	.19	(78)
Mean Highest Degree		•		
Attained by Faculty	20	(.72)	.07	.09
Mean Prestige of				
Universities Faculty				
Attended	.28	09	(71)	.36

¹This factor analysis employed the principal axis technique, with factoring stopping at eigenvalues less than 1.00. The factor loadings reported here are based on a varimax rotation of the unrotated factor matrix.



These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 27. Rotated Factor Matrix $^{\rm l}$. School Variables, Third Grade Schools

		Factors	
<u>Variables</u>	1	2	2
	1	2.	3
Percentage of			
Faculty that is			
White	(.75)	. 34	07
Mean Faculty			
Score on NTE			
Commons Exam	(.89)	01	.14
Mean Faculty	-		
Score on NTE			
Area Exam	(.89)	20	.05
Mean Highest			
Degree Attained			
By Faculty	. 28	(.85)	.18
Mean Faculty			
Absences	01	(90)	.17
Mean Total	<u> </u>		
Faculty Experience	04	(.63)	.49
Number of Students	02	.38	.56
Student Teacher Ratio	.26	04	(.64)
Principal Percentile Score on NTE			
Administration Test	.25	.05	(61)
Mean Prestige of			
Universities Faculty			
Attended ²	(74)	26	.18

This factor analysis employed the principal axis technique, with factoring stopping at eigenvalues less than 1.00. The factor loadings reported here are based on a varimax rotation of the unrotated factor matrix.



These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 28. Rotated Factor Matrix , School Variables,
All Three Grades Combined

<u>Variables</u>	<u>Factors</u>			
	1	2	3	
Percentage of	- , <u>-</u> -			
Faculty that is			4.0	
White	01	(.73)	40	
Mean Faculty				
Score on NTE				
Commons Exam	.13	(.92)	05	
Mean Faculty				
Score on NTE				
Area Exam	31	(.86)	.09	
Mean Faculty		_		
Absences	.33	 09	(.82)	
Mean Faculty				
Salary	(.85)	15	.11	
Mean Faculty		<u> </u>		
Experience		••	•	
in school	(.82)	08	04	
Number of Students	(.77)	.05	03	
Student Teacher Ratio	(.80)	.02	.03	
Principal Percentile		. <u> </u>		
Score on NTE				
Administration Test	20	.21	(64)	
Mean Highest Degree		.		
Attained by Faculty	(.72)	.06	18	
Mean Prestige of				
Universities Faculty Attended	08	(75)	.37	
Accended	00	(/3)	.51	

This factor analysis employed the principal axis technique, with factoring stopping at eigenvalues less than 1.00. The factor loadings reported here are based on a varimax rotation of the unrotated factor matrix.

These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 29. Rotated Factor Matrix , School Variables, Seventh and Tenth Grade Combined

<u>Variables</u>			
	1	2	3
Percentage of Faculty		-	
that is White	16	(85)	15
Mean Faculty Score			
on NTE Commons Exam	.12	(87)	. 27
Mean Faculty Score			
on NTE Area Exam	26	(81)	. 25
Mean Highest Degree			
Attained by Faculty	(.79)	34	09
Mean Faculty Absences	22	(.77)	.15
Mean Faculty Salary	(.90)	.25	.11
Mean Total Experience			
of Faculty	(.89)	.15	.06
Average Number of Days			
Suspended Per Student	(.65)	.35	.46
Number of Students			
in School	(.72)	18	22
Student Teacher Ratio	(.86)	.01	18
Principal Percentile			
Score on NTE			
Administration Test	15	32	(.74)
Mean Prestige of			
Universities Faculty Attended	01	(.85)	35
Accended	.01	(.03)	55

This factor analysis employed the principal axis technique, with factoring stopping at eigenvalues less than 1.00. The factor loadings reported here are based on a varimax rotation of the unrotated factor matrix.

ß

These data were based on the following: (a) where the faculty received their Bachelor's degrees; and (b) the percentage of graduates from that institution who passed the NTE. Values of one, two or three were assigned to these universities. A value of one indicates the highest prestige; a value of three indicates the lowest prestige.

Table 30

Standardized Beta Weights for Three Factor Scores Predicting State Assessment Tests,
Third Grade Schools Orly

Test Factor Writing Reading Mathematics .47 .44 . 43 Factor 1 .40 .41 .32 Factor 2 .02 .07 .01 Factor 3



Table 31
Predicted and Actual State Assessment Scores
for Schools Included in Questionnaire Study

School	Condi	tion		Predicted Scores				
Number	Predicted 1	Actual ²	Mathematics	Reading	Writing			
				-				
1	н	Н	89.63	93.14	89.33			
2	H	L	86.49	88.58	88.77			
3	H	Н	85.75	88.92	87.02			
4	H	L	83.93	84.21	82.63			
5	Н	L	81.13	82.88	82.95			
6	L H L L L H L H		79.49 77.88 81.97	79.40	81.75			
7				81.62	81.27			
8				80.91 76.83	77.37			
9			75.82		76.73			
10	L	L	76.19	75.22	77.40			
	Condi	tion		Actual Scores				
School		7						
Number 	Actual	Predicted	Mathematics	Reading	Writing			
1	н	н	96.21	98.54	96.78			
3	H	H	92.83	92.90	91.67			
6	Н	L	84.75	83.88	87.08			
8	Н	L	86.2	86.44	81.67			
9	H	L	84.51	84.00	83.02			
2	L	Н	79.99	85.41	83.69			
4	ŗ.	H	77.73	79.12	80.27			
5	L L	H	79.61	79.41	79.79			
7	L	Ĺ	70.77	76.07	76.66			
10	L	L	70.13	70.69	68.78			

¹ H = high predicted score; L = low predicted score.

 $^{^{2}}$ H = high actual score; L = low actual score.

Table 32 Selected Socioeconomic Characteristics of Schools in Questionnaire Study

			High		Low
Predicted	High	POPED PCTFPRO PCTBLACK	4.32 .302 .213	POPED PCTFPRO PCTBLACK	4.00 .204 .485
Score	Low	POPED PCTFPRO PCTBLACK	3.69 .063 .869	POPED PCTFPkO PCTBLACK	3.95 .101 .834

POPED is father's educational level. Scale values range from 1 (completed less than eight years of school) to 5 (went to college). PCTFPRO is the percentage of fathers who are professional. PCTBLACK is the percentage of students who are black.

Table 33 Significant Predicted Score Main Effects

	b. Educational expectations of friends c. You have to be lucky to get good grades. Students' perceptions of teachers and of class structure: a. Does you teacher think you could finish college? b. Teacher tells students to try for better grades. c. Teacher doesn't care how hard student works, as long as student passes. d. Teacher cares that students learn work. e. Student always sits in same seat. Students' perceptions of other students and self: a. How many would study hard if work wasn't graded? b. How many tease students who make good grades?					
1.						
	•	13.91***				
		7.29**				
		7.32**				
2.	Students' perceptions of teachers and of class structure:					
		5.07*				
	b. Teacher tells students to try for better grades.	9.32**				
	c. Teacher doesn't care how hard student works, as					
	long as student passes.	10.07**				
	d. Teacher cares that students learn work.	4.30*				
	e. Student always sits in same seat.	19.73***				
3 .	Students' perceptions of other students and self:					
	a. How many would study hard if work wasn't graded?	8.47**				
	b. How many tease students who make good grades?	19.82***				
	c. How many don't care if they get bad grades?	16.52***				



The overall multivariate test for the predicted score main effect was significant F (41,521) = 5.75, P < .0001].

	Variables	<u>F</u> -value				
1.	Students' perceptions of educational expectations and personal concrol:					
	a. Educational expectations of student.	7.86**				
	b. People like me do not have a chance in life.	13.38***				
	c. People like me never do well in school.	5.77*				
2.	Students' perceptions of teachers and of class struct	ure:				
	a. Teacher tells student to try for better grades.	3.98*				
	b. Student always sits in the same seat.	4.36*				
	c. Teacher works with the class as a whole.	6.29*				
3.	Students' perceptions of other students and self:					
	a. How much do students learn in this school?	7.69**				
	b. How does your work compare to friends?	4.45*				
	c. How many think reading is fun?	7.12**				
	d. How important is doing well in schoolwork?	4.50*				
	e. How many work hard to get better grade					
	than friends?	6.22*				

^{*} p < .05 ** p < .01 *** p < .001



The overall multivariate test for the actual score main effect was significant $[\underline{F}(4\hat{\imath},521) = 2.47, \underline{p} < .0001]$.

		Variables	<u>F</u> -value				
1.		ients' perceptions of educational expectations i personal control:					
		People like me do not have a chance in life.	33.31***				
	Ъ.	People like me never do well in school.	44.68***				
		You have to be lucky to get good grades.	34.31***				
2.	Students' perceptions of teachers and of class structure:						
	a.	Teachers perception of how well you do school work					
	Ъ.	Teachers tell students to do extra work.	10.11**				
	c.	Teachers help students who do badly.	12.61***				
	d.	Students always work on some lesson.	11.84***				
	e.	Teachers tell students to try for better grades.	12.59***				
	f.	Students alway sits in same seat.	14.15***				
	g.	Teachers work with the class as a whole	4.43*				
	h.	Teachers don't care how hard student works,					
		as long as student passes	6.42*				
3.	Students' perceptions of other students and self:						
	a.		22.14***				
	ъ.	How many don't do well because others won't					
		like them?	12.43***				
	c.	How many don't care if they get bad grades?	9.20**				

^{.01}

The overall multivariate test for the actual score x predicted score interaction effect was significant [$\underline{F}(41,521)=5.29$, \underline{p} < .0001].

Comparison of the Means for Significant Interaction Effects: Students' Perceptions of Educational Expectations and Personal Control

Table 36
People like me do not have a chance in life*

Actual Score

		High	Low	
Predicted	High	2.93	2.10	
Score	Low	2.44	2.62	

^{*} The scale values range from l(strongly agree) to 4 (strongly disagree).

Table 37
People like me will never do well in school*

Actual Score

•		High	Low
Predicted	High	3.29	2.47
Score	Low	2.53	2.91
* The scale value disagree).	es range from 1 (strongly agree) to 4	(strongly

Table 38
You have to be lucky to get good grades*

				·		High				Low	
Pr	edict	ed		H	igh			2.85			2.30
Score		Low		2.05				2.60			
*	The	scale	values	range	from	<u> </u>	(strongly	agree)	to	4	(strongly

^{*} The scale values range from 1 (strongly agree) to 4 (strongly disagree).



Comparison of Means for Significant Interaction Effects: Students' Perceptions of Teacher and of Class Structure

Table 39
Teachers' perception of how well you do in school work*

Actual Score

		High	Low
Predicted	High	2.45	1.97
Score	Low	1.94	2.50

^{*} The scale values range from 1 (better than all people your age) to 5 (poorer than all people your age).

Table 40
Teachers tell students to do extra work*

		High	Low
Predicted	High	2.71	2.18
Score	Low	2.24	2.49

^{*} The scale values range from 1 (almost all the teachers) to 5 (none of the teachers).



Comparison of Means for Significant Interaction Effects: Students' Perceptions of Teacher and of Class Structure (cont.)

Table 41
Teachers help students who do badly*

Actual Score

		High	Low
Predicted	High	2.01	1.63
Score	Low	1.53	1.88

^{*} The scale values range from 1 (always try to help) to 5 (never try to help).

Table 42 Students always work on same lesson*

		High	Low
Predicted	High	2.77	2.38
Score	Low	2.39	2.74

^{*} The scale values range from 1 (always) to 5 (never).

Comparison of Means for Significant Interaction Effects: Students' Perceptions of Teacher and of Class Structure (Cont.)

Table 43
Teachers tell students to try for better grades*

Actual Score

		High	Low
Predicted	High	2.97	3.72
Score	Low	3.87	3.66

^{*} The scale values range from 1 (none of the teachers) to 5 (almost all of the teachers).

Table 44
Students always sit in same seats*

Predicted High 2.96	Low	High		
	2.29	2.96	High	Predicted
Score Low 2.00	2.19	2.00	Low	Score

^{*} The scale values range from 1 (always) to 5 (never).



Comparison to Means for Significant Interaction Effects: Students' Perceptions of Teacher and of Class Structure (cont.)

Table 45
Teacher works with the class as a whole*

Actual Score

		High	Low
Predicted	High	3.11	2.61
Score	Low	2.76	2.71

^{*} The scales range from 1 (always) to 5 (never).

Table 46
Teachers do not care how hard student works as long as student passes*

		High	Low
Predicted	High	3.29	2.90
Score	Low	2.50	2.79

^{*} The scale values range from 1 (almost all the teachers) to 5 (none of the teachers).



Comparison of the Means for Significant Interaction Effects: Students' Perceptions of Other Students and Self

Table 47
How many would study hard if work wasn't graded*

Actual Score

		High	Low
Predicted	High	3.53	2.80
Ecore	Low	2.52	3.05

^{*} The scale values range from 1 (almost all of the students) to 5 (none of the students).

Table 48
How many don't do well because others won't like them*

Actual Score

		High	Low	
Predicted	High	3.59	3.29	
Score	Low	2.99	3.52	

^{*} The scale values range from 1 (almost all of the students) to 5 (none of the students).

Table 49
How many don't care if they get bad grades*

		High	Low	
Predicted	High	4.05	3,65	
Score	Low	3.26	3.53	

^{*} The scale values range from 1 (almost all of the students) to 5 (none of the students).



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Appendix One

Data Elements Included in the Louisiana School Effectiveness Study

I. Faculty Characteristics

Total count Sexual composition Racial composition Experience -- total Experience -- parish Experience -- outside parish Experience -- current school NTE common score NTE area score NTE composite score NTE common percentile NTE area percentile NTE composite percentile Highest degree attained Explained absences Unexplained absences Annual salary amount Daily salary amount Average prestige of institutions that faculty attended

II. Principal's Characteristics

Administrator interview rating NTE administrator subtest score Race Experience -- current school

III. Students' Characteristics

Total count
Sexual composition
Percentage that dropout
Mean number of days suspended

IV. Other School Variables

Student teacher ratio
Percentage in special education

V. Students' Socioeconomic Characteristics

Mother's education
Father's education
Number of siblings
Racial composition
Percentage of professional mothers



V. Students' Socioeconomic Characteristics (cont)

Percentage of professional fathers Percentage of nonprofessional fathers

VI. Dependent Variables

Score on math test from Statewide Assessment Score on reading test from Statewide Assessment Score on writing test from Statewide Assessment



Appendix Two

		STA	TISTICAL AH	ALYSIS SYSTE	N 15:18 FRIDAY, JI	ME 11, 1982
VARIABLE	N	HEAH	STO DEV	SUM	MINIMUM	HAXIBUH
Merv	46	0.07241257	0.04473107	3.33097817	0	0.20000000
HSEX	46	9.48933456	0,13142921	22,50938957	0.21052632	0.81818182
HRACE	46	9.777 9 9135	2,00187599	403.78760221	N. 50000000	15.06896552
MCADDEXP MMTECHSC	46	544.99258314	24, 14570112	25069.65882428	498.90909091	617.73333333
	46	590.74463886	25.00009594	27174,25338737	537.65284615	666.20000000
MMTEARSC MADPERAT	46	1.09041045	0.09060613	50.15888087	1.0000000	1,40000000
MHIDEGRE	46	2.32494352	0.24425043	106.94740212	1.57575758	2.77142857
HABSEXP	46	7.78584121	1,49525622	358.14869574	4.88571429	10.71423571
HABSUNEX	46	0.04951876	0.09893550	2.27786311	0	0.56521739
MSALANT	.46	17137.71713899	451.25938472	788334.9883935 k	16121.17647059	18260.18318519
NTOTEXP	46	10,18069349	2,00747385	468.31190060	5.95454545	16. 48 27 5862
HAGE	46	38.26973537	2.36797540	1760.40782717	31.38095238	44.34482759
RSCHEXP	46	5,23414369	1, 19152367	240.77060981	3.45454545	9.10344828
MONED	46	3.86256284	0.32785801	177.72849047	3.10526316	4.50943396
POPED	46	3,88156419	0.36019050	178.55195283	3,18181818	4.64150943
SIBS	46	3.09042873	0.45932252	142.15972159	2.32941176	4.09859155
PCTMPRO	46	0.25769975	0,13824676	11.85418851	0.03571429	0.67924528
POTMIPRO	46	0,33336313	0.12974670	15.33470379	0.07547170	6.61971831
POTEPRO	46	0,19085376	0.16549578	8,77927309	0	0.67924528
PCTFMPRO	46	0.60052132	0. 12465747	27.62674095	0.26415094	0.85000000
SCHSEX	46	0.48862231	0.03292748	22.47662624	0.37022901	0. 55277281
SCHRACE	46	0.55854620	0.37823058	25.69312522	0.01342282	1.00000090
SCHSPEED	46	0.05315082	0.07223925	2.44493702	0	: 0,3702 29 01
SCHOROP	46	0.00028949	0.00081281	0.01331639	0	0.00381679
SCHDYSUS	46	0.07988684	0.10029819	3.67479442	0	0.43525180
TCOUNT	46	19,95652174	7.77733608	918.00000000	7.0000000	40.0000000
SCOUNT	46	485, 17391304	205.66794212	22318.00000000	187.0000000	1058.00000000
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	PRSCHEX	45		6.2444			56023036		281.0000		•	0		9.000	
	PRADNYER	45		3.4444			.07892806		155.0000		•	.31250000		2.912	
	LDEDEGRE	46		2.64530			.15170117		121.6877		_	.71272727		2.411	
	SCHPREST	46		2.10193	1769	0.	. 17344574		96.6891	13371	•			2.4.	
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		HSEX		MCADDEXP									MAGE	NECHEXP	
	MSEX	1.00000 0.0000 46		0.4913	-0.30282 0.0408 46	-0.17918 0.2335 46	0.7714	-0.06576 0.6642 46	-0.07266 0.6313 46	-0.31753 0.0315 46	-0.27641 0.0630 46	-0.12616 0.4034 46	-0,11548 0.4447 46	0.02278 0.8805 46	
	MRACE	-0.00319 0.9569 46	1.00000	0.5290	-0.55776 0.0001 46	-0.51623 0.0002 46	0.5565	-0.48602 0.0006 46	0.0254	-0.12589 0.4045 46	0.25597 0.0860 46	0.00621 0.9673 46	-0.05710 0.7062 46	0.06251 0.6798 46	
86	HCADDEXP	-0.10405 0.4913 46	0.5290	0.0000		-0.10469 0.4887 46		0.0002		-0.16514 0.2728 46	0.78487 0.0001 46	0.96119 0.0001 46	0.0001	0.81576 0.0001 46	
	MMTECHSC	-0.30282 0.0408 46		0.4228	0.0000	0.82825 0.0001 46		0.0839			0.14598 0.3330 46			0.04014 0.7911 46	
	MMTEARSC	-0.17918 0.2335 46		0.4887	0.0001	1,00000 0,0000 46	0.07390 · 0.6255 46	C.4467	0.3992	0.0425	-0.09401 0.5343 46	-0.05988 0.6926 46		-0.17390 0.2477 46	
	HADPERAT	0.04402 0.7714 46		0.0344	0.8096	0.6277	0.0000	0.9790	0.2564	0.7942	-0.38680 0.0079 46	-0.31696 0.0319 46		-0.36297 0.0132 46	
	MHIDEGRE	-0.06576 0.6642		0.0002	0.0833	V. 4407	0.2120	0.0000		0.5885	0.33339 0.0236 46			0.38447 0.0083 46	
102	MABSEXP	-0.07266 0.6313		0.0012	0.9270	0.3992	-0.17012 0.2584 46	0.0001	0.0000	0.0373	-0.14571 0.3339 46			-0.33778 0.0217 46	
		0.0315	5 46	0.2778	0.036	0.0425	-0.03953 0.7942 46	0.5885	0.0373	1,00000 0,0000 46		-0.08059 0.5944 46	0.8752	-0.18650 0.2146 46	
FRIC	HSAL AMT	-0.2764 0.0636	0.25597	0.78487	().333()	0.5343	-0.38680 0.0079	0.0235	-0.14571 0.3339	0,3022		0.77761 0.0001 46		0.61838 0.0001 46	

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	MSEX	HRAGE	NCADDEXP	MNTECHSC	MNTEARSC	MADPERAT	MHIOEGRE	HABSEXP	MABSUNEX	HSALAHT	MTOTEXP	MAGE	HECHEXP
HTOTEXP	-0.12616 0.4034 46	0.00621 0.9673 46	0.96119 0.0001 46	0.16432 0.2752 46	-0.059 88 0.6926 46	-0.31696 0.0319 46	0.59532 0.0001 46	-0. 4358 6 0.0025 66	-0.00059 0.5944 46	0.77761 ().0001 46	1.00000 0.0000 46	0.84238 0.0001 46	0.75464 0.0001 46
MAGE	-0.11548 0.4447 46	-0.05710 0.7062 46	0.0001	0.32622 0.0269 46	0.11786 0.4354 46	-0.39908 0.0060 46	0.30974 0.0362 46	-0.18119 0.2282 46	0.02381 0.8752 46	0.71217 0.0001 46	0.84238 0.0001 46	1.00000 0.0000 46	0.68602 0.0001 46
MSCHEXP	0.02278 0.8805 46	0.06251 0.6798 46		0.04014 0.7911 46	-0.17390 0.2477 46	-0.3 629 7 0.0132 46	0.38447 0.0063 46	-0.3377 8 0.0217 46	-0.18650 0.2146 46	0.61838 0.0001 46	0.75564 0.0001 46	0.68802 0.0001 44	9.0000
HOHED	-0.263 36 0.0770 46	-0.39225 0.0070 46		0.27049 0.0690 46	0.32155 0.0293 46	-0.11263 6.4561 46	0.5 <i>1</i> 223 0.0001 46	-0.12523 0.4070 46		0.15728 0.2965 46	0.40249 0.0056 46	0.22439 0.133/3 4/6	0.16865 0.2626 46
POPED	-0.27405 0.0653		0.0396		0.31930 0.0305 45		0. 6018 5 0.0001 46	-0.21 8 22 0.1451 46	0.3659	0. 19431 0. 1957 46	0.43069 0.0028 46	0.22777 0.127 9 46	0.18316 0.2231 46
SIBS	0.00718 0.9622 46	0.0002		0.1356	0.4254	0.6059	-0.65727 0.0001 46	0.0033		-0.12252 0.4173 46	-0.36783 0.0119 46	-0.15532 0.3027 46	-0.28430 0.0555 46
PCTHPRO	-0.20797 0.1655 46		0.0350	0.0461		0.7937	0.0001	-0.40446 0.0053 46	0.9032	0.10541 9.4657 46	0.35424 0.0084 46	0.20665 0.1682 46	0.16420 0.2755 46
PCTHIPRO	-0.04037 0.7900 46	0.0002		0.0819	0,1374	0.5342		0.0076	0.5472	0.07565 0.6173 46	-0.18661 0.2143 46	0.0073 9 0.9611 46	-0.04286 0.7773 46
PCTFPRO	-0.21784 0.1459 46		0.0748	0.0053	0.0107	0.8611	0.0001	46	0.5644	0.4375 46	0.35832 0.0145 46	0.20938 0.1625 46	0.06552 0.6653 46
PCTFNPRO	0.34177 0.0201 46	0.3230	0.1161	0.0566	0.0526	0.8006		0.7844		-0.12605 0.4039 46	-0.28389 0.0559 46	-0.22779 0.1279 46	0.00503 0.9735 36
SCHSEX	-0.04581 0.7624 46	0.4476	0.0454	0.9605	0.3278		0.0671	0.0300		0.7685 46	0.0492 46	0.6395 46	0.0206
SCHRACE	0.02606 0.8634	0.0001		0.006	0.06/0	0.5360		0.0014		0.8773 46	-0.25852 0.0828 46	0. 3 978 46	0.4363
SCHSPEEL	0.25255 0.0904 46	1 0.0150		0.0085	0.0133	0.4617		0.3610	0.0540	0.6744	-0.07039 0.6420 46	0.1619 1 0.2824 46	-0.09781 0.5178 46

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		MSEX	HRACE	MCADDEXP	MNTECHSC	MNTEARSC	HADPERAT	KHIDEGRE	MABSEXP	Habsukex	HSALANT	HTOTEXP	MAGE	MECHEXP
S (CHOROP	0.01620 0.9149 46	-0.24 906 0.0 9 51 46	-0.01233 0.9352 46	0.09567 0.5271 46	0.11381 0.4514 46	n.08034 0.5956 46	0.03429 0.8210 46	-0.08245 0.5859 46	-0.16967 0.2596 46	-0.04651 9.7589 46	0.01500 0.9292 46	0.99960 0.3102 45	-0.05800 C.7014 46
S (CHOYSUS	0.15774 0.2951 45	-0.03096 0.0382 46	-0.18566 0.2167 46	0. 1222	-0.16455 0.2745 46	0.16398 0.2762 46	-0.12074 0.4241 46	-0.04859 0.7484 46		-0.27195 0.9676 46	-0.25951 0.0816 46	-0.21860 0.1444 46	-0.06620 0.6620 46
TC	COUNT	-0.04807 0.7511 46	-0.09541 0.5282 46	0.2321		-0.14169 0.3476 46	-0.02025 0.8937 46	0.24518 9.1005 46	-0.21982 0.1421 46		-0.05239 0.7295 46	อ. 23527 อ. 1155 46	0.1206 8 0.12068 0.1203	0.10297 0.8959 36
sc	COUNT	-0.08976 0.5530 46	-0.13463 0.3724 46	0.1602		-0.09928 0.5115 46	-0.05545 0.7144 46	0.29226 0.0437 46	-0.21880 0.1440 46		-0.02224 0.8834 46	0.276ਵੇ9 0.0632 46	0. 14955 0. 3212 46	0.11912 0.4304 46
\$1	TUTEAR	-0.29803 0.0443 • 46	-0.11679 0.4396 46	0.3805	0.2141	0.17989 0.2316 46	-0.18095 0.2288 46	0.2215	0.05422 0.7204 46	0.0844	0.17822 0.2360 46	0.2420	0.10525 0.4863 46	0. 09 671 0.5226 46
PI	RSCHEX	-0.10579 0.4892 45	-0.00559 0.9709 45	0.1050	0.8713	0.9488	-0.04317 0.7783 45	0.8347	-0.01433 0.9256 45		0.21195 0.1622 45	0.2003	0.22377 0.1395 45	0.24822 0.1002 45
H	RADHPER	-0.00197 0.9898 45	-0.12149 0.4266 45		0.5346	0.2316	0.1770	-0.00656 0.9555 45	-0.14496 0.3421 45	0.3855			-0.21760 0.1510 43	-0.25090 0.0964
LI	DEDI:GRE	-0.08698 0.5654 46	-0.04306 0.7763 46	0.0001	0.8137	0.9840	0.8001	0.0001	-0.33917 0.0211		0.5439 8 0.0001 46	0.0003	0.34990 0.0171 46	0.33591 0.0224 46
S	CHPREST	0.17422 0.2469 46	0.0001	0.8034	0.0001	0.0010	0.2705		: - : .		0.15173 0.3141 46		0.9471	0.16868 0.2624
		HOHED		SIBS	PCTMPRO	PCTMNPRO	PCTFPRO	PCTFNPRO	SCHSEX	C SCHRACE	SCHSPEED	SCHDROP	SCHDY5US	TCOUNT
H	SEX	-0.26336 0.0770 46	0.0653	0.9622	0.20797 0.1655	U. 7900	U. 1427	0.0201	y. 102		0.0303			• • • • •
6 "	RACE	-0.39225 0.0070 46		0.0002	0.0031	0.0002	0.000		0.44/	0.0001	0.0156		0.8362	-0.09541 0.5282 46
н	CADDEXP	0.28091 0.0586 46	9.0386	0.048	0.0350	U.3400	0.0740	0.1101	0.045		0.0003	0.,0,0		0.17970 C.2321 46
Н	IN1ECHSC	0.27049	0.022	7 0.1329	0.046	0.0010	0.0023	, 0.6200	0.700		0.0089		0.7272	-0.07934 0.6002 46

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15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB T INI UNDER HO: RHO=0 / NUMBER OF OBSERVATIONS

	HOMED	POPED	3185	PCTMPRO	PCTHNPRO	PCTFPRO	PCTFNPRO	SCHSEX	SCHRACE	SCHSPEED		SCHDYSUS	TCOUNT
MITEARSC	0.32155 0.0293 46	0.31930 0.0305 46	-0.12041 0.4254 46	0.26384 0.0764 46	-0.22242 0.1374 46	0.37310 0.0107 46	-0.28766 0.0526 46	-0.14756 0.3278 46	-0.27245 0.0670 46	0.36264 0.0133 46	0.11381 0.4514 46	-0.16455 0.2745 46	-0. 14169 0. 3476 46
HADPERAT	-0.11263 0.4561 46	~0.17027 0.2579 46	0.07811 0.6059 46	0.03964 0.7937 46	0.09403 0.5342 4δ	0.02653 0.8611 46	-0.03829 0.8006 46	-0.09083 0.5483 46	0.09363 0.5360 46	-0.11125 0.4617 46	0.08034 0.5956 46	0.163 98 0.2762 46	-0.02025 0.0937 46
MHIDEGRE	0.57223 0.0001 46	0.60185 0.0001 46	-0.65727 0.0001 46	0.67566 0.0001 46	-0.50644 0.0003 46	0.55593 0.0001 46	-0.19723 0.1889 46	0.27232 0.0671 46	-0. 67 670 0.0001 46	0.6963 46	0.8210 46	-0.12074 0.4241 46	0.24518 0.1005 46
HABSEXP	-0.12523 0.3070 46	-0.21822 0.1451 45	0.42409 0.0033 46	-0.40446 0.0053 46	0.38851 0.0076 46	-0.35900 0.0143 46	0.04146 0.7844 46	-0.32032 0.0300 46	0.45733 0.0014 46	0.21014 0.1610 46	-0.08245 0.5859 45	-0.04859 0.7484 46	-0.21982 0.1421 46
HABSINEX	0.14943 0.3216	0.13644 0.3659 46	-9.01258 0.9339 46	0.01845 0.9032 46	0.5472	0.08722 0.5644 46	-0.09567 0.5271 46	-0.12270 0.4166 46	-0.00173 0.9909 46		-0.16967 0.2596 46		0.1921
KSALAHT	0.15728 0.2965	0.19431 0.1957		0.10541 0.4857 46	0.6173	0.11732 0.4375 46	-0.12605 0.4039 46	0.7685	0.02341 0. 8 773 46	0.6744	-0.04651 0.7589 46		-0.05239 0.7295 46
ИТОТЕХР	0.40249 0.0056 46	0.43069 0.0028 46	-0.36783 0.0119 46	0.38424 0.0084 46		0.35832 0.0145 46		0.0492	-0.25852 0.0828 46		0.01500 0.9212 46	0.0516	כָכִוו יט
MAGE	0.22439 0.1338	0. 1279		0.20665 0.1682 46	0.9611	0.20938 0.1625 46		0.6395	0.3978			-0.21860 0.1444 46	0.4243
MSCHEXP	0.16865 0.2626 56	0.18316 0.2231		6.16420 0.2755 46		0.6653		0.0206	-0.11763 0.4363 46		0.7014	. 0.0050	U.4777
HOHED	1.00000 0.0000 46	0.91929		0.77250 0.0001 46		0.0061		0. 1579		0.6434	0.7263		0.0498
POPED	0.91929 0.0001 46	1.00000		0.74 38 1 0.0001 46		0.0001		0.0989	0.0001	0.4131	0.6380		0.0285
SIBS		-0.63953 0.0001	0.0000	0.0001	0.0001		0.3179	0.2535	0.0001		0.9429	0.5078	
PCTHPRO	0.77250 0.0001 46	0.74381 0.0001	-0.57481 0.0001	0.0000	0 -0.61994 0 0.0001 6 46	0.000	0.000		-0.55808 0.0001		0.6416		0.4110

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STATISTICAL ANALYSIS SYSTEM 15:

15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB % IRI UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

			3	ORRELATIO	M COEFFI	CIENTS / !	ROB A IKI	UNDER IN): KMU=U /	MONTHER OF	OUGENIAI	· OHO		
		HOHEO	POPED	5185	PCTMPRO	PCTHNPRO	PCTFPRO	PCTFMPRO	SCHSEX	SCHRACE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT
	PCTMMPRO	-0.507 89 0.0003	-0.60759 0.0001 46	0.57768 0.0001 46	-0.61994 0.0001 46	1.00000 0.0000 46	-0.74701 0.0001 46	0.46411 0.0012 46	-0.18400 0.2209 46		-0.06265 0.6791 46	-0.08332 0.5420 46	-0.06266 0.6791 46	-0.03860 0.7980 46
	PCTFPRO	0.74564 0.0001	0.79670 0.0001 46	-0.59266 0.0001 46	0.83424 0.0001 46	-0.74701 0.0001 46	1.00003 0.0000 46	-0.65221 0.0001 46	0.07832 0.6049 46	-0.74183 0.0001 46	0.22318 0.1360 46	0.20 895 0.1634 46	-0.20094 0.1806 46	0.14212 0.3461 46
	PCTFNPRO	-0.51196 0.0003	-0.50020 0.0004 46	0.15056 0.3179 46	-0.51074 0.0003 46	0.46411 0.0012 46	-0.65221 0.0001 46	1.00000 0.0000 46	-0.05639 0.7097 46		-0.12172 0.4203 46	-0. 19723 0. 1889 . 46		-0.07767 0.6079 46
	SCHSEX	0.21169 0.1579 46	0.24629 0.0989 46	-0.171 8 3 0.2535 46	0.31 34 0 6.0339 46		0.07832 0.6049 46	-0.05639 0.7097 46	1,00000 0,0000 46	0.4579		-0.46581 0.0011 46	-0.17411 0.2472 46	0.12041 0.4254 46
	SCHRACE	-0.52398 0.0002 . 46	-0.64047 0.0001 46	0.66745 0.0001 46	-0.55808 0.0001 46	0.0001	-0.74183 0.0001 46	0.26479 0.0753 46	-0.11219 0.4579 46	0.0000		-0.14262 0.3444 46	-0.0 8693 0.5657 46	-0. 15629 0. 2996 46
	SCHSPEED			-0.09572 0.5269 46	0.01071 0.9437 46		0. 1360	0.4203	-0.623 83 0.0001 46		0.0000	0.45382 0.0015 46	0.2157	
90	SCHORCP	0.05304 0.7263		0.010 8 5 0. 9 429 46	0.07049 0.6496 46		ს. 1635	0. 1889	0.0011	U. 3444	בָיִש.ט	1.00000 0.0000 46	0.0030	0.7918
	SCHOYSUS	-0.41851 0.0038	4. 4				0. 1506	0.1720	0.2412	0.2021	0.2177	0.42777 0.0030	0.0000	
	TCOUNT	0.29100 0.0498 46	0.0265	-0.16761 0.2655 46			0.3461	0.60/9	0.4254	0.2996		0.04001 -0.7918 46		0.0000
	SCOUNT	0.39358 0.0068	0.0019		0.1795		0.1065		0.5889	0.0510		0.6359		0.0001
	STUTEAR	0.42512 0.0032	0.0003		0.1087		0.0212	0.2719	0.3069		0.0016	0.347	0.8799	
1 10	PRSC YEX	•••	-0.06788 0.6577	0.9637	0.3200	0.100	0.8486	0.2900	0.0727		0.0542	0.355		0.5732
	PRADMPER	-0.03427 0.8232	0.04095	-0.09344 0.5415	0.414	-0.27852 0.0639	0.6641	-0.02730 0.8587	0.7809	0.17090 0.2617	0.7551		0.7651	

CORRELATION COEFFICIENTS / PROB 1 1R1 UNDER HO:RHO=O / NUMBER OF OBSERVATIONS

			`	MAIN CONTRACTOR OF THE PARTY OF	,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1100 1 111	,	, , , , , , , , , , , , , , , , , , ,		000L	1040		
		HOHED	POPED	\$183	FCTMPRO	PCTHMPRO	PCTFPRO	PCTFMPRO	SCHSEX	SCHRACE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT
	LDEDEGRE	0.25259 0.0903 46	0.20043 0.1817 46	-0.25277 0.0901 46	0.37548 0.0101 46	-0.10922 0.4700 46	0.31983 0.0303 46	-0.11503 0.4465 46	0.4226	-0.18049 6.2300 46	0.05940 0.6950 46	0.05101 0.7364 46	-0.13762 0.3617 46	0.07688 0.6116 46
	SCHPREST	-0.23052 0.1232 46	-0.28 626 0.0538 46	0.23651 0.1135 46	-0.39679 0.0063 46	0.44805 0.0018 46	-0.44679 0.0018 46	0.26404 0.0762 46	0.9740	0.47336 0.0009 46	-9.17584 0.2424 46	-0,25217 0.0909 46	-0.10633 0.4818 46	0.03706 0.8068 46
		SCOUNT	STUTEAR	PRSCHEX	PRADMPER	LDEDEGRE	SCHPREST						•	
	MSEX	-0.08976 0.5530 46		-0.10579 0.4892 45	-0.00197 0.9898 45	-0.08698 0.5654 46	0.17422 0.2469 46					•		•
	HRACE	-0.13463 0.3724 46	-0.11679 0.4396 46	-0.00559 0.9709 45	-0.12149 0.4266 45	-0.04306 0.7763 46	0.60629 0.0001 46					,		
	HCADDEXP	0.21055 0.1602 46	0.13238 0.3805 46	0.24482 0.1050 45	-0.27043 0.0724 45	0.53523 0.0001 46	0.03772 0.8034 46	·						
91	MMTECHSC	-0.03940 0.7949 46	0.18670 0.2141 46	0.02485 0.8713 45	0.09504 0.5346 45	0.03571 0.8137 46	-0.57941 0.0001 46							
	MMTEARSC	-0.09928 0.5115 46	0.179 8 9 0.2316 46	-0.00984 0.9488 45	0.18195 0.2316 45	-0.00304 0.9840 46	-0.47017 0.0010 46							
	HADPERAT	-0.05545 0.7144 46	-0.18095 0.2288 46	-0.04317 0.7783 45		-0.03838 0.8001 46	-0.16590 0.2705 46							
•	MHIDEGRE	0.29226 0.0487 45				0.58938 0.0001 46	-0.32734 0.0264 46							
	HABSEXP	-0.21880 0.1440 46	0.05422 0.7204 46		-0.14496 0.3421 45	-0.33917 0.0211 46	0.21990 0.1420 46							
	MABSUNEX	-0.15837 0.2932 46	0.25725 0.0844 46	-0.17935 0.2384 45	0.13252 0.3855 45		-0.03646 0.8099 46					`		•
	HSALAHT	-0.02224 0.8834 46	0.17 82 2 0.2360 46	0,1622	0.1897		0.15173 0.3141 46		BEST C	ስ ኮኦ አ ነ፣	Δ11 AΦ1 1	=	11	3
RIC		0.27620 0.8632 46	0.2420	0.2689	-0.25004 0.0976 45	0.51161 0.0003 46	-0.02580 0.8649 lin		BESI C	ofi av	nichol!	ii.		

S Y S T E N 15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

		~	SHAIL COLL TO	.,	•	
	SCOUNT	STUTEAR	PRSCHEX	PRADMPER	LDEDEGRE	
HAGE	0.14955 0.3212 46	0.16325 0.4863 46	0.22377 0.1395 45	-0.21760 0.1510 45	0.34990 0.0171 46	-0.01005 0.9471 46
MSCHEXP	0.11912 0.4304 46	0.09671 0.5226 46	0.24822 0.1002 45	-0.25090 0.0 7 64 45	0.33598 0.0224 46	0.16865 0.2624 46
NOMED	0.39358 0.0068 46	0.42512 0.0032 46	-0.11835 0.4388 45	-0.03427 0.8232 45	0.0903 46	-0.23052 0.1232 46
POPED	0.44547 0.0019 46	0.50540 0.0003 46	-0.067 68 0.6577 45	0.04095 0.7894 45	0.20043 0.1817 46	-0.28626 0.0538 46
\$183	-0.23744 0.1121	-0.30671 0.0368 46	-0.00699 0.9637 45	-0.09344 0.5415 45	-0.25277 0.0901 46	0,23651 0,1135 46
PCTHPRO	0.20143 0.1795	0.23967 0.1087 46	-0.14070 0.3566 45	0.4146	0.37 548 0.0101 46	-0.39679 0.0063 46
92 PCTHINPRO	-0.13422 0.3062 46	-0.33661 0.0222	0.24371 0.1067	0.0639		0.00.0
PCTFPRO	0.24112 0.1065 46	0.33889 0.0212 46	0.848	0.6641	0.0303	
PCTFNPRO		-0. 16543 0.2719 46	0.290	0.8587		0.0102
SCHSEX	0.08180 0.5889 46		0.072	7 0.7809	0.4225	
SCHRACE	-0.28952 0.0510 46		0.875	3 0.263		, 0.0003
114. SCHSPEEC	0.07 36 2 0.6266	0.003	5 0.054		1 0.695	0 0.2424
SCHDROP	0.07168 0.6359	0.347	3 0.359	06 -0.0443 17 0.712 15 4	1 0.0510 6 0.736 5 4	4 0.0909

STATESTICAL ANALYSIS SYSTEM

15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IR! UNDER HO: RHO=0 / NUMBER OF OBSERVATIONS

	SCOUNT	STUTEAR	PRSCHEX	PRADMPER	LDEDEGRE	SCHPREST
SCHDYSUS		-0.02291 0.8799	-0.04165 0.7859	0.04581	-0.13762 0.3617	-0.10633 0.4818
	0.7657 46	46	45	45	46	46
TCOUNT		-0.02271	0.00626	-0.19142 0.2078	0.07688 0.6116	-0.03706 0.8068
	0.9001	0. 6809 46	0.5732 45	45	46	46
SCOUNT	1.00000	0.26144	0.12649	-0.18333	0.09146 0.5455	
	0.0000 46	0.0793 46	0.4077 45	0,2280 45	46	46
STUTEAR	0.26144	1,00000	0.16903			-0.01998 0.8951
	0.0793 46	0.0000 46	0.2670 4 5	0.8540 45	0.5532 46	
PRSCHEX	0.12649	0.16903	1.00000	-0.39281	0.26367	
	0.4077 • 45	0.267 0 45	0.0000 45	0.0076 45	0.0891 45	45
PRADHPEN	-0.18333	0.02822	-0.39281			-0.18005
	0.2280 45	0. 8 540 45	0.0076 45		0.2971 45	
LDEDEGRE			0.26367	-0.19169	1.00000	
	0.5455 46	0.5532 46	0.0801 45	0.2071 45	0.0000 46	
SCHPREST	-0.06128	-0.01998	0.10966	-0.18005	0.01601	
	0.685 8 46	0.8951	0.4733 45			

Appendix Three



VARIABLE	N	HEAN	STD DEV	SUM	HINIHUH	HARIMAN
APCHATH	46	81.62694845	6.63036652	3754.83962891	67.94642857	%.210937 50
APCREAD	46	83.72502323	6.97125933	3851.35106858	68.47098214	96.53515625
APCWRIT	46	82.76896311	5.93392915	3807.37230320	68.77976190	96.77794375
MSEX	46	0.07241257	0.04473107	3.33097817	0	0.2000000
HRACE	46	0.48933456	0.13142921	22.50938957	G.21052632 [°]	0.81818182
MCADDEXP	46	8.77799135	2.00187599	403.78760221	4.50000000	15.06896552
MNTECHSC	46	544.99258314	24.14570112	25069.65882428	498.90909091	617.73333333
MNTEARSC	46	590.74463886	25.00009594	27174.25338737	537.65384615	666.20000000
MADPERAT	46	1.09041045	0.09060613	50.15888087	1.00000000	1.80000000
MHIDEGRE	46	2.32494352	0.24425043	106.94740212	1.57575758	2.77142857
MARSEXP	46	7.78584121	1.49525622	358.14869574	4.88571429	10.71428571
MABSUNEX	46	0.04951876	0.09893550	2.27786311	0	0.56521739
nsalant	46	17137.71713899	451.25938472	788334.98039354	16121.17647059	18260.16518519
NTOTEXP	46	10.18069349	2.00747385	468.31190060	5.95454545	16.48275862
MAGE	46	38.26973537	2.36797540	1760.40782717	31.38095238	44.34482759
HSCHEXP	46	5.23414369	1.19152367	240.77060981	3.45454545	9.10344828
МЭНОН	46	3.86366284	0.32785801	177.72849047	3.10526316	4.50943396
POPED	46	3.88156419	0.36019050	178.55195283	3. 18181818	4.64150943
\$18S	46	3.09042873	0.45932252	142:15972159	2, 32941176	4.09859155
PCTMPRO	46	0.25769975	0.13824676	11.85418851	0.03571429	0.67924528
PCTMMPRO	46	0.33336313	0.12974670	15.33470379	0.07547170	0.61971831
PCTFPRO	46	0.19085376	0.16549578	8.77927309	. 0	0.67924528
MSTEMPRO	46	0.60058132	0.12465747	27.62674095	0.26415094	10.8500000G
SCHSEX	46	0.48862231	0 03292748	22.47662624	0.37022901	0.55277281
SCHRACE	46	0.55854620	0.37823058	25.69312522	0.01342282	1.00000000
SCHSPFFO	46	0.05315082	0.07223925	2.44493782	U	0.37022901
SCHOROP	16	0.00028949	0.00001241	OPY AVAILABLE	· u	0.00381679
wided by ERIC			DES! (OPT AVAILABLE		100

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		S	TATISTICAL A	NALYSIS SYSTEM	15:22 FRIDAY,	JUNE 11, 1982
VARIABLE	N	NEAN	STO DEV	SUM	MINIMUM	HAXIHUH
SCHOYSUS	46	0.07988684	0.10029819	3.67479442	0	0.43525180
TCOUNT	46	19.95652174	7.77733608	918.0000000	7.00000000	40.0000000
SCOUNT	46	485.17391304	205.66794212	22318.00000000	187.00000000	1058.00000000
STUTEAR	46	24.34461321	3.81968797	1119.85220745	17.71428571	33.14265714
PRSCHEX	45	6.244444	5.56023036	2\$1.0000000	1.00000000	23.00000000
PRADMPER	45	3.444444	3.07892806	155.0000000	0.	7.00000000
LDEDEGRE	46	2.64538606	0.15170117	121.68775897	2.31250000	2.97297297
SCHPREST	46	2, 10193769	0.17344574	96.68913357	1.77272727	2.41176471

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO: RHO=0 / NUMBER OF OBSERVATIONS

APCHATH 'APCREAD APCHRIT

MSEX	-0.28837	-0.18215	-0.18961	
	0.0520	0.2257	0.2069	
	46	46	46	
MRACE	-0.44104	-0.55784	-0.59014	
•	0.0022	0.0001	0.0001	
	46	46	46	
NCADDEXP	0.16382	0.23809	0.23266	
	0.2767	0.1111	0.1197	
	46	46	46	
MNTECHSC	0.37144	0.35583	0.41008	
	0.0110	0.0152	0.0046	
	46	46	46	
MNTEARSC	0.29439	0.29236	0.28048	
	0.0470	0.0486	0.0590	
	46	46	46	
MADPERAT	-0.02260	-0.14002	-0.07845	
	0.8815	0.3533	0.6043	
	46	46	46	
MHIDEGRE	0.47886	0.55468	0.55236	
	0.0008	0.0001	0.0001	
	46	46	46	
MABSEXP	-0.30869	-0.30585	-0.32344	
	0.0369	0.0387	0.0283	

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ERIC

STATISTICAL ANALYSIS SYSTEM 15:22 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	APCHATH	APCREAD	APCHRIT
HABSUNEX	0.11904	-0.00339	-0.02951
	0.4307	0.9822	0. 84 56
	46	46	46
HSALAHT	0.09340 0.5370	0.11611	0.11736 0.4373
HTOTEX?	0.19249 0.2000	46 0.27737 0.0620	. 46 0.26827 0.0715
MAGE	0.2000	46	46 0.21132
	0.6223	0.3085	0. 1586
	46	46	46
MSCHEXP	0.05676	0.15901	0.1 6558
	0.7079	0.2912	0.2715
	46	46	46
HOHED	0.40892	0.55431	0.44 678
	0.0048	0.0001	0. 00 19
	46	46	46
POPED	0.52959	9.62391	0.52945
	0.0002	0.0001	0.0002
	46	46	46
SIBS	-0.53873	-0.67612	-0.62535
	0.0001	0.0001	0.0001
	46	46	46
PCTMPRO	0.58283	0.63206	0.61626
	0.0001	0.0001	0.0001
	46	46	46
PCTMNPRO	-0.61396	-0.73681	-0.66968
	0.0001	0.0001	0.0001
	46	46	46
PCTFPRO	0.58371	0.68110	0.66138
	0.0001	0.0001	0.0001
	46	46	46
PCTFNPRO	-0.40653	-0.39954	-0.42963
	0.0051	0.0059	0.0029
	46	46	46
SCHSEX	0. 175 13	0.15675	0.10006
	0. 2444	0.2982	0.5082
	46	46	46



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STATISTICAL ANALYSIS SYSTEM 15:22 FRIDAY, JUNE 11, 19/2 CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

APCHATH APCREAD APCHRIT

SCHRACE -0.60260 -0.74480 -0.70192 9.0001 0.0001 0.0001 46 46 SCHSPEED 0.13832 0.12478 0.21967 0.1424 0.4087 0.3593 46 SCHDROP -0.04629 -0.04764 0.06978 0.7532 0.6449 0.7600 46 46 SCHDYSUS -0.13069 -0.15870 -0.07808 0.3867 0.2922 46 46 -0.15067 0.00179 -0.09623 TCOUNT 0.9906 0.5246 0.3175 46 46 . -0.05031 0.09310 -0.01548 SCOUHT 0.7398 0.5383 46 46 46 0.33891 0.30661 0.25102 STUTEAR 0.0382 0.0924 0.0212 46 46 PRSCHEX -0.08567 -0.00847 -0.02960 0.9560 0.5758 45 45 PRADMPER 0.23348 0.22093 0.16451 0.1447 0.1221 45 45 LDEDEGRE 0.19663 0.25681 0.25292 0.0849 0.0899 0.1903 46 46 SCHPREST -0.35426 -0.35205 -0.39980 0.0059 0.0157 0.0164 46 46 46

Appendix Four

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		STA	TISTICAL AN	ALYSIS SYSTE	H 15:18 FRIDAY,	JUNE 11, 1982
VARIABLE	N	MEAN	STD DEV	SUN	HIHIMM	HAXIMUM
MSEX	68	0, 15896133	0.13930289	10.8093704	0	0.40076923
HRACE	68	0.4951509#	0.12842469	33.6702667	0,21052632	0.81818182
MCADDEXP	68	9.17533080	1.07292587	623.9224944	4,50000000	15.06896552
HNITECHSC	68	545.94841113	25.21680250	37124.4919567	495,66666667	617.73333333
MMTEARSC	68	583.54756070	25.98193758	39681,2341279	533.97435897	666.20000000
MADPERAT	68	1.09123722	0.08339461	74.2041312	1,30000000	1.4000000
MHIDEGRE	68	2.43480742	0.27198706	165.5669048	1.57575758	3.04347826
MABSEXP	68	7,51482827	1,56664432	511.0083226	3, 14705882	10.75000000
MABSUNEX	68	0.04428660	0.08505428	3.0114890	9	0.56521739
MSALAMT	68	17351.62108602	533.95097938	1179910.2338495	16121.17647059	18260.18518519
MTOTEXP	68	10.71179941	1.96771923	728.4023597	5.95454545	16.48275862
MAGE	68	38.70586250	2.15931916	2631. 9986 499	31.38095238	44.34482759
MSCHEXP	68	5,73141891	1.35684506	389.7364857	3.45454545	9.10344823
MOMED	68	3,88564218	0.30160689	264.2236679	3, 14893617	4.50943396
POPED	68	3.88324540	0.36579099	264.0606874	2.92857143	4.64150943
\$185	68	3.34785626	0.56806330	227.6542259	2.32941176	4.80733945
PCTMPRO	68	0.27418479	0.12772813	18.6445655	0.03571429	0.67924528
PCTHNPRO	68	0.33034410	0.12267037	22.4633987	0.07547170	0.61971831
PCTFPRO	68	0.21393226	0.16490207	14.5473939	0	0.67924528
PCTFNPRO	68	0.58214507	0.12259674	39.5858645	0.26415094	0.81707317
SCHSEX	68	0.49089436	0.03005556	33.3808162	0.37022901	0.55277281
SCHRACE	68	0.56950295	0.35495134	38.7262003	0.01342282	1,00000000
SCHSPEED	68	0.05990446	0.06533015	4.0735034	0	: 0.37022 9 01
SCHOROP	68	0.01373418	0.03315858	0.9339244	0	0.14156466
SCHDYSUS	68	0.32847934	0.40990776	22.3365954	0	1.58637084
TCOUNT	68	24.41176471	13. 15945298	1660.0000000	7.0000000	77.00000000
SCOUNT	68	710.33823529	545.72691794	48303.0000000	187,00000000	2885.00000000
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Teach Provided by ERIC 126

					STA	TISTI	CAL	AHALY	S 1 S	S Y S T E	H		DAY, JUNE	11, 1982	
,	ARIABLE	N		H	TEAN		STO DEV			SUH		HINIMUN		IXAN	_
	BTUTEAR	68		27.30106	5917	6.	37059396		1856.472	7035		,00000000		42.9333	
1	PRSCHEX	67		5.76119	1403	5.	09036390		386.000	0000	1.	.00000000		23,0000	
1	PRADHPER	67		3.44776	6919	3.	06635497		231.000	10000		0		9.0000	
(LDEDEGRE	68		2.72071	1880	0.	18551905		185.000	6762		. 31250000		3.1379	
1	CHPREST	68		2.08718	16 37	0.	16898870		141.928	36735	1	.64705 88 2		2.4117	54 /1
					M COFFFIC	CIFNES / F	ROB T IRI	UNDER HO	: RH0=U /	NUMBER OF	OBSERVAT	IONS			
		MSEX								MABSUREX			MAGE	HISCHEXP	•
ı	MSEX	1.00000	0.05285 0.6686 68	0.2530 8 0.0193 68	0.9728	-0.38081 0.0014 68	0.02273 0.8540 68	0.52259 0.0001 68	-0.26583 0.0284	-0.19026 0.1202 68	0.49745 0.0001 68	0.36780 0.0020 68	0.27064 0.0256 68	0.54225 0.0001 68	
	HRACE	0.05285 0.6686	1.00000 0.0000 68		-0.58958 0.0001	-0.53959 0.0001 68	0.01270 0.9181 68	-0.35668 0.0028 68	0.40269 0.0007 68	-0.10077 0.4135 68	0.19964 0.1026 68	0.02102 0.8649 68	-0.06895 0.5764 68	0.01679 0.8919 68	
	MCADDEXP	0.28308 0.0193 68	0.09498 0.4410 68	1,00000 0.0000 68	0.03341		-0.21668 0.0759 68			-0.19301 0.1148 68	0.78529 0.0001 68	0.95806 0.0001 68	0.81722 0.0001 68	0.7 9 526 0.0001 68	
	HNTECHSC			0.7868	0.0000	0.0001	-0.12299 0.3177 68	0.24883 0.0407 68	-0.20940 0.0866 68	0.0523 68	0. 822 0 68	0.09299 0.4507 68	0.2 83 12 0.0193 68	0. 06486 0.5992 68	
	MMTEARSC	-0.38081 0.0014 68	-0.53959 0.0001 68	0.0783	יַטָּטי.ט	0.0000	0.9616 68	68	0.6809 68	0.0246	0.0963 68	68	0.9580 68	68	
	HADPERAT		0.01270	-0.21668 0.0759		0,9010	0.0000	0.9350	0.6669		-0.21688 0.0757 68	0.00.3	-0.30857 0.0105 68	-0.19510 0.1107 68	
	MHIDEGRE	0.52259 0.0001 68	-0.35668 0.0028	0.55998	0.0407		0.9350	0.0000	0.0001		0.0001	0.0001	0.0603	0.0001	
	HABSEXP	-0.25583 0.0284 68	0.40269 0.0007	0.0089	2 -0.20940 9 0.0866	0.6809	0.6669		0.000	0.0519	0.2368 68	0.0058 68	0.1519 60		
8	MABSUNEX	0. 19026 0. 1202 68	-0.1007 0.413	7 -0.1930 5 0.1144	1 0 23691 8 5.652	o.0296	0.670		0.051	0.0000	0.9048		0.8379	0. 1202	1
C*	MCVI JHI	_	0. 1996 ¹	0.7882	9 0.02779 1 0.8229	9 -0.32840 9 -0.0063	0.072	, 0.0001	0.230		4,00	0.0001		0.73573 0.0001 68	

STATISTICAL ANALYSIS SYSTEM 15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO:RHO=O / NUMBER OF OBSERVATIONS

	MSEX	HRACE	MCADDEXP	HNTECHSC	HNTEARSC	HADPERAT	MHIDEGRE	MABSEXP	KABSUNEX	HSALAHT	MTOTEXP	MAGE	NSCHEXP
нтотехр		0.02102 0.8649 68	0.95806 0.0001 68	0.09299 0.4507 68	-0.19557 0.1100 68		0.64819 0.0001 68	-0.33106 0.0058 68	-0.12004 0.3295 68	0.00653 0.0001 68	1,00000 0,0000 68	0.84889 0.9001 68	0.00708 9.0001 68
MAGE	0.27064 0.0256 68	-0.06895 0.5764 68	0.0001	0.28312 0.0193 68	0.00496 0.9680 68	-0.30857 0.0105 68	0.42777 0.0003 68	-0.17567 0.1519 .68	-0.02527 0.8379 68	0.70698 0.0001 68	0.84889 0.0001 68	1.00000 0.0000 68	0.70607 0.0001 68
MSCHEXP	0.34225 0.0001 68	0.01679 0. 8 919 68		0.06486 0.5992 68	-0.28201 0.0198 68		0.58520 0.0001 68	-0.34325 0.0042 68		0.73573 0.0001 68	0.80708 0.0001 68	0.70007 0.0001 68	1.00000 0.0000 68
G3MONi	-0.00812 0.9476 68	-0.42642 0.0003 68	0, 1 92 07 0, 1166 68	0.333 8 1 0.0054 6 8	0.24029 0.0484 68	-0.11796 0.3380 68		-0,24571 0.0434 68		0.09197 0 4557 68	0.27650 0.0225 68	0.18589 0.1291 68	0.10922 0.3753 68
POPED	-0.07160 0.5618 -68	-0.48212 0.0001 68	0.1026			-0.1562? 0.2032 68		-0.32523 0.0068 68	0.2749	0.07904 0.5217 68	0.26794 0.0272 68	0.16302 0.1841 68	0.13173 0.2842 68
\$105	0.61225 0.0001 68		9.9902	-0.21189 0.0828 68	0.0013	0.5139		0.0897		0.26 \$ 27 0.0270 68	0.021 7 0 0.8606 68	0.06377 0.6054 68	0.17390 0.1561 68
PCTHPRO	0.0 9 037 0.4636 68		0.0631	0.0010	0.0749	-0.00891 0.9425 68	0.0001	-0.49882 0.0001 68	0.9826	0.09099 0.4606 68	0.28752 0.0134 68	0, 1039 6 8	0.17014 0.1654 68
PCTHMPRO	-0.05 48 9 0.6566 68	0.0001	0.4589	-0.37363 0.0017 68	0.0256	0.2804	0.0006	0.0001	0.4369	0.01878 0.8792 68		-0.04683 0.7045 68	-0.06550 0.5956 68
PCTFPRO	0.10048 0.4149 68		0.1344	0.0001		0.7367	0.0001	69	0.7719 68	0.09753 0.4288 68	0.0445 68	0.0807 68	0.10041 0.4153 68
PCTFHPRO	-0, 13568 0,2699 68	0.0318	0.0504		0.0800	0.9756	0.0036	0.0436			-0.28037 0.0206 68	0.0194 68	0.2900 68
SCHSEX	0.062 84 0.6107 68	0.6356	0.0623	0.5276		0.6318	0.0159	0.0142 68	68	0.9497 68	0. 0805 68	0.6274 68	0.23557 0.0531 68
SCHRACE	0.05210 0.6730 68	0.0001	0.3376		0.0071	0.2924 68	68	0.0001 68	68	0.8908 68	0.1579 68	-0.12044 0.3279 68	0.4690 68
SCHSPEED	0.00305 0.9803 68	0.0038		0.0092	0.0514	0.4003		0.3230		0.2007	-0.0044 7 0.9711 68	0.19585 0.1095 68	0.01327 0.9145 68

				CORRELATIO	M COEFFIC	IENTS / I	ROB T IRI	UNDER HO	RH0=0 /	NUMBER OF	OBSERVAT	IONS		
		MSEX	MRACE	MCADDEXP	MITECHSC	MITEARSC	HADPERAT	MHIDEGRE	HABSEXP	MARSUNEX	HSALAHT	MTOTEXP	MAGE	MSCHEXP
	SCHOROP	0.69627 0.0001		0.29012			-0.05622	0.36684 0.0021 68		-0.08450	0.46984 0.0001 68	0.35832 0.0027 68	0.29864 0.0134 68	0.45471 0.0001 68
	SCHOYSUS	0.75892 0.0001	0.15845 0.1968 68	0.28626	-0.02762 0.8231 68	-0.41028 0.0005 68	0.8697	0.57593 0.0901 68	-0.0 9 063 0.4623 68	-0.09400 0.4458 68	0.54590 0.0001 63	0.32992 0.0060 68	0.24857 0.0410 68	0.44725 0.0001 68
	TCOUNT	•	-0.05449 0.6589	0.27990	0.4093	-0.19821 0.1052 68		0.46312 0.9001 68	-0.25 86 0 0.0332 68	-0.13036 0.2893 68	0.35774 0.0027 68	0.38372 0.0012 68	0.31139 0.0097 68	0.42955 0.0003 68
	SCOUNT		-0.05084 0.6805	0.31819	0.10227 0.4066	-0.22997 0.0592 68		0.50128 0.0001 68	-0.25520 0.0357 68		0.47225 0.0001 68	0.41794 0.0004 68	0.33887 0.0047 68	0.49476 9.0001 68
	STUIEAR	0.60958 0.0001	-0.04853	0.35154	0.07971	0.0587	0.3758		-0.16437 0.1804 68	0.000	0.60031 0.0001 68	0.42478 0.0003 68	0.31 944 0.0079 68	0.5000P 0.0001 68
	PRSCHEX	-0.14406 0.2448	-0.02374 0.8486	0.15839	-0.04159 0.7383	0.02417	0.6912		0.00876 0.9439 67	0.3232	0.05732 0.6450 67		0.16930 0.170 8 67	0.1 6497 0,1 8 22 67
103	PRADMPER	-0.02249 0.8566	-0.23313 0.057	-0.20537 5 0.095	0.24732	0.25704		0.9744	-0.23649 0.0540 67	0.4100	0.2770		-0.15100 0.2226 67	-0.18332 0.1376 67
	LDEDEGRE	0.0001	-0.0860 0.485	2 0.50221	0.15940	-0.17054 0.134		0.0001	-0.37235 0.0016		0,000	0.0001	0.49433 0.0006 68	0.50911 0.0001 68
	SCHPREST	0.5543	0.6192	0.0202 1 0.879	-0.67436 0.0001	-0.4698 0.000	1 0,7193		0.3430 0.004	9 -0.0168\$ 2 0.8916 68	0.5055		-0.07032 0.5688 . 68	0.01712 0.8898 68
		88 B3H0H			S PCTMPRO		D PCTFPR	PCTFMPRO	SCHSE	X SCHRACE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT
	MSEX	-0.00812 0.9476		8 0.000	0.4636		6 0.414		0.610	7 0.6130	0.9803	0.0001	0.0001 68	0.0001 68
13	HRACE 2	-	2 -0.4821 3 0.000	2 0.4899	9 -0.49213 1 0. 000	0.000		1 0.0318	0.635	6 0.0001 8 65	65	0.9797 68	0.1968	68
10	~ MCADDEX₽		7 0.1996 6 0.103	6 0.0015 6 0.999			9 0.134		0.062	1 -0.11807 3 0.3376 8 68	יַנָּסע.ט כ	68	0.0160 68	0.0208
RIC	MN1ECHSC	0.3338 0.005	1 0,3620 4 0,007)3 -0.2115 24 0.082	9 0.3893 8 0.001 8 6	יַייטיט ט	3 0. 4907 7 0.000 8 6		0.527	2 -0.43072 6 0.0002 8 65	0,01196	0.5322		0.4093
Provided by ERIC			` نست					,						

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STATISTICAL ANALYSIS SYSTEM 15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROS 1 IR! UNDER HO: RIXD=0 / NUMBER OF OBSERVATIONS

	МОНЕО	POPED	5135	PCTKPRO	PCTHNPRO	PCTFPRO	PCTFNPR0	SCHSEX	SCHRACE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT
MNTEARSC	0.24029 0.0484 68	0.25279 0.0375 68	-0.38121 0.0013 68	0.21741 0.0749 68	-0.27062 0.0256 68	0.29148 0.0159 68	-0.21382 0.0800 68	-0.08244 0.5039 68	68	0.0814 68	-0.19346 0.1139 68	0.0005	-0.19621 0.1052 68
MADPERAT		-0.15627 0.2032 68	0.08053 - 0.5139 68	0.00891 0.9425 68	0.13279 0.2804 68	-9.04152 0.7367 68	-0.00379 0.9756 68	-0.05916 0.6318 68	0.12953 0.2924 68	-0.10365 0.4003 68	-0.05622 0.6489 68	0.02026 0.8697 68	0.3009 68
MIDEGRE	0.49367 0.0001 68	0.47364 0.0001 68	-0.05920 0.6315 68	0.58747 0.0001 68	-0.40692 0.0006 68	0.55570 0.0001 68	-0.34874 0.0036 68	0.28417 0.0189 68	-0.49128 0.0001 68	0.10354 0.400 8 68	0, 0 021	0.47593 0.0001 68	0.46312 0.8001 60
HABSEXP		-0.32523 0.0068 68	0.20738 0.0697 68	-0. 4988 2 0.0001 68	0.50 658 0.0001 68	-0.45066 0.0001 68	0.74547 0.0436 68	-D.29625 0.0142 68	0.48664 0.0001 68	0.12168 0.3230 68	68	0.4623	5.0332 68
HABSUNEX	0.11909 0.3334 •66	0.13431 0.2749	-0.08459 0.4928 68	0.00270 0.9826 68	0.09584 0.4369 68	0.03580 0.7719 68	-0.05849 0.6356 . 68	-0.06601 0.5928 68	-0.00391 0.9425 68		0.4932	-0.09400 0.4458 68	0.2873
HSALANT	0.09197 0.4557	0.07904 0.5217	0.26827 0.0270	0.09099 0.4606		0.09753 C.4288 68	-0.17925 0.1436 68	0.00779 0.9497 68	0.01697 0.8908 68	0.2007	0.0001	0.0001	0.35774 0.0027 68
NTOTEXP	0.27650 0.0225	0.26794	0.02170 0.0606	0.28752 0.0174 68		0.24451 0.0445 68	-0.28037 0.0206 68	0.21344 0.0005 68	0. 1575		0.002/	0.0060	0.0012
NAGE	0.185 89 0.1298	0.16302 0.1641	0.06377 0.6054 68	0.19 8 91 0.1039 68		0.21333 0.0407 68	-0.28300 0.0194 68	0.6274		0.109	5 0.0134	9.0410	0.0097
MSCKEXP	0. 10922 0. 3753 68	0.13173	0.17398 0.1561 68	0.17014 0.1654 68				0.0531		0.914	5 0.0001	0.0001	0.0003
HOMED	1,00000 0,0000 68	0.94227		0.7998 0.000		0.0001		0.0290	0.000	0.307		0.5544	0.1463
POPED	0.94227 0.0001 64	1.00000	-0.55495 0.0001	0.7603 0.000		0.0001		0.0153	0.000	1 0.115		0.377	68
SIBS		-0.55495 0.CJ01	1.00000	-0.3996 0.000 6	7 0.0002		0.4945		0.000		3 0.000	0.0001	0.0375
PC1HPR0	0.79982 0.0001	0.76031	-0.39963 0.0007	0.000		0.000		0.00	0.000		ti U. 1011	2 0.8 036	0.0904

STATISTICAL ANALYSIS SYSTEM

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CORRELATION COEFFICIENTS / PROS T IRI UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	HOHED	POPED	SIBS	PCTMPRO	PETHIPRO	PCTFPRO	PCTFNPRO	SCHSEX	SCHRAGE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT
PCTMIPRO -	*****	-0.551 99 0.0001 68	0.43850 0.0002 68	-0.65331 0.0001 58	1.00000 0.0000 68	-0.74588 0.0001 68	0.46476 0.0001 68	-0.15536 0.2059 68	0.82089 0.0001 68	-0.10270 0.4046 68	-0.073 56 0.5513 68	0.05155 0.6763 68	-0.06849 0.4730 68
PCTFPRO	0.78573 0.0001 68	0.79 69 4 0.0001 68	-0.40316 0.0007 68	0,85286 0,0001 68	-0.74588 0.0001 68	1.00000 0.0000 68	-0.74304 0.0001 68	0.15403 0.2098 68	-0.72987 0.0001 68	0.28808 0.0172 68	0.08286 0.5017 68	0.02761 0.6232 68	0.19448 0.1120 68
PCTFNPRO	-0.60312 0.0001 68	-0.60989 0.0001 68	0.08427 0.4945 68	-0. 6 0748 0. 00 01 68	0.46476 0.0001 68	-0.74304 0.0001 68	1.00000 0.0000 68	0.2588 68	0.0080	0.108 3 68	0.1751 68	0.08514 0.4900 68	0.0619
SCHSEX	0.26 49 0 0.0296	0.29308 0.0153 68	-0.08247 0.5037 68	0.33794 0.0048 68	-0.15536 0.2059 68	0.15403 0.2098 68	-0.13885 Q.2588 68	1,00000 0.0000 68	0.3903 68	0.0001 68	-0.046 9 9 0.7036 68	68	0.05436 0.6598 68
SCHRACE	-0.53398 0.0001 • 68	-0.63206 0.0001 68	0.58578 0.0001 68	-0.60405 0.0001 68	0.82089 0.0001 68	-0.72987 0.0001 68	0.31884 0.0080 68	-0.10584 0.3903 68	1,00000 0.0000 68	-0.26240 0.0306 68	-0.00506 0.9673 68	0.442 4 68	-0.11497 0.3505 68
SCHSPEED	0.12570 0.3071 68	0.19249 0.1158 68	-0.06587 0.4863 68	0.0\\016 0.5158 68	-0.10270 0.4046 68	0.28808 0.0172 68	0, 1083	-0.49032 0.6001 68	-0.26240 0.0306 68	1.00000 0.0000 68		0.1270	-0.11692 0.3424 68
SCHOROP	-0.02930 0.8125 68	-0.06485 0.5993 68	0.46535 0.0001 68	0.08706 0.4802 68		0.5017	0. 1751		-0.00506 0.9673 68	ひ. タタラჀ	0.0000	0.0001	0.72901 0.0001 68
SCHDYSUS	-0.07295 0.5544 68	0.3952	0.0001	0.03072 0.8036 68	0.6763	0.8232		0.6076	0.09470 0.4424 68	0.1270	0.0001	0.0000	
TCOUNT	0,17806 0,1463 68	0.2017	0.0375	0.0904		0.1120		0.6598		0.3424	0.000	0.0004	68
SCOUNT	0.17053 0.1644 68	0.2155	0.0071	0.0703		0.0751		0.9628		0.8969	0.000		0.0001 68
STUTEAR	0.23328 0.0556 68	0.0396	0.0182	0.059		0.0257	0.0354		0.072	6.007	0.000	0.0001 B 66	0.0001
PRSCHEX	-0.16 3 97 0.1 8 49 67	0.5580		0.12	0, 1153		0.1209	67	0.8436	0.0976	0.574	5 0.1335 7 67	67
PRADMPER	0.07594 0.5414 67	0.297		0.079		1 0.0991		0.295		. 0.5/9		9 0.8608	

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0.28396 0.49094 0.33470

15:18 FRIDAY, JUNE 11, 1982

0.0016 0.2613 0.0022 0.0097 0.7033 0.1850 0.0967 0.0189 0.0053 0.0001 0.3747 0.0311 68 68 68 0.47868 -0.51622 0.39748 -0.12755 0.47345 -0.18113 -0.10301 -J.08274 -0.13494 SCHPREST -0.31903 -0.32975 0.15591 -0.46915 0.0001 0.0001 0.0008 0.3000 0.0001 0.1393 0.4032 0.5024 0.2726 0.0060 0.2022 0.0001 68 68 68 68 68 SCOUNT STUTEAR PRISCHEM PRADMPER LDEDEGRE SCHPREST

0.65855 0.60958 -0.14406 -0.02249 0.48700 -0.07296 MSEX 0.2448 0.8566 0.0001 0.5543 0.0001 0.0001 68 68

POPED

MOHED

-0.05084 -0.04853 -0.02374 -0.23313 -0.08602 0.61928 MRACE 0.8488 0.0576 0.4855 0.0001 0.6943 0.6805 67 68 68

0.31819 0.35154 0.15659 -0.20537 0.50224 0.02021 MCADDEXP 0.0955 0.0001 0.8701 0.0082 0.2005 0.0033

MITECHSC 0.10227 0.07971 -0.04159 0.24732 0.15940 -0.67436 0.0436 0.1941 0.0001 0.7383 0.4066 0.5182 67

MNTEARSC -0.22997 -0.23043 0.02417 0.25704 -0.17054 -0.46982 0.9587 0.8461 0.0357 0.1644 0.0592 67 67

MADPERAT -0.10767 -0.10910 0.04942 -0.21645 -0.05824 -0.04438 0.0785 0.6371 0.6912 0.3821 0.3758 67 68 67 68

MHIDEGRE 0.50128 0.47617 -0.07647 0.00400 0.74642 -0.36444 0.9744 0.0001 0.0022 0.0001 0.0001 0.5385 68 68

MABSEXP -0.25520 -0.16437 0.00876 -0.23649 -0.37235 0.34309 0.0540 0.0018 0.0042 0.0357 0.1804 ე. 9439 68

MABSUNEX -0.09946 0.05316 -0.12254 0.10231 -0.12178 -0.01684 0.4100 0.3225 0.4197 0.6668 0.3232 67 67

0.47225 0.60031 0.05732 -0.13473 0.61286 0.08214 MSALAHT 0.6450 0.2770 0.0001 0.0001 0.0001 67

0.41794 0.42478 0.11079 -0.19758 0.52187 -0.04940 . MIOTEXP 0.0001 0.3721 0.1090 0.6891 0.0004 0.0003 67 61 68 138

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TATISTICAL ANALYSIS SYSTEM

15:18 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO: RHO=0 / NUMBER OF OBSERVATIONS

					I DESCRE	COUNTER
	SCOUNT	STUTEAR	LM2CHEY	PRADHPER	LDEULGAL	SCHERESI
MAGE	0.33887	0.31944	0.16930	-0.15100	0.40433	-0.07032
	0.0047	0.0079	0.1708	0.2226	0.0006	0.5688
	68	68	67	67	68	68
MSCHEXP	0.49476	0.50080	0.16497	-0.18332	0.50911	3.01712
***************************************	0.0001	0.0001	0.1822	0.1376	0.0001	0.8898
	68	68	67	67	68	68
MOMED	0.17053	0.23328	-0.16397	0.07594		-0.31903
	0.1644	0.0556	0.1849	0.5414	0.0158	0.0080
	68	68	67	67	68	68
POPED	0. 15213		-0.07284	0,12919		-0.32975
	0.2155	0.0396	0.5580	0.2974	0.0311	0.0060 68
	68	68	67	67	68	00
\$185	0. 32357			-0.12627	0.10644	
	0.0071	0.0182	0.5527	0.3096	0. 378 7	0,2042 68
	' .68	68	67	67	00	00
PCTMPRO	0.22088	0.22973	-0.18797	0.21575		-0.46915
		0.0595	0.1277	0.0795	0.0016	
	68	68	67	67	68	•
PCTHMPRO	-0, 13761	-0.21657	0. 19428	-0.34353	-0.13814	0.47860
	0.2631	0.0761	0.1152	0.0044	0.2 613 68	
	68	68	67	67	-	
PCTFPRO	0.21731	0.27048	-0.09114	0.20280		-0.51622
••••	0.0751	0.0257	0.4633	0.0998		
	68	68	67	67	68	
PCTFMPRO	-0.24947	-0.25564		-0.10808	-0.31146	0.39748
	0.0402	0.0354				
	68	68	67	67	68	00
SCHSEX	0.00576	-0. 12808	-0.28650	0.12966		-0.12755
	0.9628	0.2979	0.0188			T - " - :
	68	68	61	67	68	00
SCHRACE	-0.14248	-0.21950	0.02456	-0.23347	-0.16270	0.47345
	0.2464	0.0721	0.8436			
	68	68	67	. 67		
*SCHSPEED	-0.01614	0.32305	0.20399			-0,18113
40	0.8960	0.0072	0.0978			
	68	68	61	67		
SCHOROP	0.63932	0.70459	-0.06983	0.03705		-0,10301
	0.0001	0.0001	0.5745	0.7659		
	68	68	61	61	68	68

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

	SCOUNT	STUTEAR	PRSCHEX	PRADHPER	LDEDEGRE	SCHPREST
SCHDYSUS	0.52573		-0. 18520	0.01866	0.49094	
	0.0001	0.0001 68	0. 1333 67	0.8808 67	0.0001 68	0.5024 68
TCOWNT	0.95500	0.53112	-0.00456	-0.11238		-9.13494
1000	0.0001	0.0001	0.9706 67	0.3653 67	0.0053 68	0.2726 6 8
		•			0 30h67	-0.12776
SCOUNT	1.00000 D.0000	0.72878	-0.02558 0.8372	0.5256	0.0012	0.2992
	68	68	67	67	68	68
STUTEAR	0.72678	1.00000	0.00515	-0.01301 0.9168	0.40352 0.0006	-0.04261 0.7301
	0.0001 68	0.0000 68	67	67	68	
PRSCHÉX	-0.02558	0.00515	1.00000	-0.42695	0.06008	0.15658
	0.8372	0.9670	0.0000 67	0.0003 67	0.62 9 1 6 7	0.2058 67
		0.	-0 A2606	1 00000	-0 04139	-0.31511
PRADMPER	-0.07891 0.5256	9.9168	0.0003	0.0000	0.5126	0.009
	67	67	67	67	67	
LDEDEGRE	0.38467	0.40352		-0.08139 0.5126		-0.18445 a.1321
	0.0012 68	0.0006 68			68	
SCHPREST	-0. 12776	-0.04261	0.15658	-0.31511	-0.18445	1,00000
, REG 1	0.2992	0.7301	0.2058	0.009	0.1321	0.0000

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Appendix Five

*		STA	TISTICAL A	NALYSIS SYSTEM	15:23 FRIDAY,	JUNE 11, 1982
VARIABLE	N	HEAN	STD DEV	SUM	MUNIMUM	MUMIXAM
APCHATH	68	76.295 46268	10.74147202	5188.0914622	52.35038610	96.21093750
APCREAD	68	80.44001763	8.62862479	5469. 9 211991	62,92534722	90.53515625
APCHRIT	68	78.94924868	8.82469800	5369.5489100	56.82762201	96.77734375
MSEX	68	0.15896133	0.13930289	10.8093704	0	0.48076923
MRACE	68	0.49515098	0.12842469	33.6702667	0.21052632	0.81818182
MCADOEXP	68	9.17533060	1.87292587	623.9224944	4.50000000	15.06096552
MITECHSC	68	545.94841113	25.21680250	37124.4919567	495.66666667	617.73333333
MITEARSC	68	583.54756070	25.98193758	39681,2341279	533.97435897	666.20000000
KADPERAT	68	1.09123722	0.08339461	74,2041312	1.00000000	1,40000000
MHIDEGRE	48	2.43480742	0.27198706	165.5669048	1.57575758	3.04347826
MARSEXP	68	7.51482827	1.56664432	511,0083226	3.14705882	10.75000000
NABSUNEX	68	0.04428660	0.08505428	3.0114890	0	0.56521739
MSALANT	68	17351.62108602	533.95097938	1179910.2338495	16121.17647059	18260. 18519519
MIOTEXP	68	10.71179941	1.96771923	728.4023597	5.95454545	16.48275862
MAGE	68	38,70586250	2. 1593 1916	2631.9986499	31.38095238	44.34482759
MSCHEXP	68	5.73141891	1.35684506	389.7364857	3.45454545	9.10344828
HOHED	68	3,88564218	0.30160689	264.2236679	3.14893617	4.50943396
POPED	68	3,88324540	0.36579099	264.0606874	2.92857143	4.64150943
SIBS	68	3.34785626	0.56806330	227.6542259	2.32941176	4.80733945
PCTMPRO	68	0.27418479	0.12772813	18.6445655	0.03571429	0.67924528
PCTHIPRO	68	0.33034410	0.12267037	22,4633987	0.07547170	0.61971831
PCTFPRO	68	0.21393226	0.16490207	14,5473939	0	0.67924528
PCTFNPRO	68	0.58214507	0,12259674	39.5858645	0.26415094	: 0.81707117
SCHSEX	68	0.49089436	0.03005556	33, 3808162	0.37022901	0.55277281
SCHRACE	68	0.56950295	0.35495134	38.7262003	0.01342282	1,00000000
SCHSPEED	68	0,05990446	0.06533015	4.0735034	0	0.37022901
SCHDROP	68	0.01373418	0.03315858	BEST COPY AVAILABL	. 0	0.14156466
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		STA	ATISTICAL A	HALYSIS SYSTEM	15:23 FRIDAY, JU	RE 11, 1982
VARIABLE	×	HEAN	STD DEV	SUM	941 N 1 99UM	MACINAM
SCHOYSUS	68	0.32847934	0.40990776	22.3365954	1 0	1.58637084
TCOUNT	68	24.41176471	13.15945298	1660.0000000	7.00000000	77.00000000
SCOUNT	68	710.33823529	545.72691794	48303.0000000	187.00000000	2885.00000000
STUTEAR	68	27.30106917	6.37059396	1856.4727035	17,00000000	42.93333333
PRSCHEX	67	5.76119403	5.09036390	386.000000	1.00000000	23.00000000
PRADMPER	67	3.44776119	3.06635497	231.0000000	0	9.00000000
LDEDEGRE	68	2.72071880	0. 1855 1905	185.0088782	2.31250000	3.13793105
SCHPREST	68	2.08718637	0.16898870	141.9286735	1.64705882	2.41176471

CORRELATION COEFFICIENTS / PROB % IR! UNDER HO:RHO-0 / NUMBER OF SESERVATIONS

APCHATH. APCREAD APCHRIT

NSEX	-0.59157	-0.53027	-0.68978	
	0,0001	0.0001	0.0001	_
	. 68	68	68	•
MRACE	-0.44595	-0.58135	-0.46581	
7 7 7 7 7 7 7	0.0001	0.0001	0.0001	
	68	68	68	
MCADDEY9	-0.11105	-0.03978	-0.12399	
HUNDEN	0.3673	0.7474	0.3138	
	68	68	68	
MNTECMSC	0.38908	0.40997	0.27578	
HA I ECHSO	0.0010	0.0005	0.0228	
	68	68	68	
MNTEARSC	0.55042	0.51938	0.44447	
Lid I CVIVOO	0.0001	0.0001	0.0001	
	68	68	68	
NADPERAT	-0 10170	-0.12997	-0.06365	
MAUPERAL	0.4088		0.6061	
	68		68	
MHINEGRE	-0.09817	0.08051	-0.07131	
MINCONE	0.4258			
	68			
MABSEXP	-0 17316	-0.25026	-0.08825	
MOJEM	0. 15/9	0.0396		
	68			
	00	-		

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STATISTICAL ANALYSIS SYSTEM 15:23 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IR1 UNDER HO:RHO=0 / NUMBER OF OBSERVATIONS

APCHATH APCREAD APCHRIT

MABSUNEX 0.12054 0.06457 0.06171

0.3275 0.6009 0.6171 68 -0.31406 -0.26039 -0.36568 **HSALAHT** 0.0320 0.0022 0.0091 -0.14294 -0.06605 -0.18308 MTOTEXP 0.5926 0.1351 0.2449 68 68 68 NAGE -0.08246 -0.04596 -0.11675 0.5038 0.7098 0.3431 68 68 68 -0.27662 -0.19750 -0.34213 MSCHEXP 0.0224 0.1064 68 68 0.0043 68 0.34071 0.49712 MONED 0.36486 0.0001 0.0022 0.0045 68 68 68 0.45042 POPED 0.42947 0.58955 0.0001 0.0003 0.0001 68 68 68 SIBS -0.73577 -0.80917 -0.79300 0.0001 0.0001 0.0001 68 68 68 0.37778 0.51129 **PCTMPRO** 0.35149 0.0033 0.0015 0.0001 68 68 PCTMNPRO -0.45704 -0.59036 -0.39727 0.0001 0.0008 0.0001 68 68 68 0.55454 0.39663 **PCTFPRO** 0.40253 0.0001 0.0008 0.0007 68 68 PCTFNPRO -0.28753 -0.31876 -0.20331 0.0081 0.0963 0.0174 68 68 SCHSF ! 0.06803 0.12711 0.08056

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STATISTICAL ANALYSIS SYSTEM 15:23 FRIDAY, JUNE 11, 1987

CORRELATION COEFFICIENTS / PROB 1 IRI UNDER HO:RHO=0 / NUMBER OF OSSERVATIONS

	APCMATH	APCREAD	APCHRIT
SCHRACE	-0.49826 0.0001 68	-0.67633 0.0001 63	-0.51385 0.0001 68
SCHSPEED	0.05232 0.6718 68	0.11229 0.3619 68	0.16942 0.1672 68
SCHDROP	-0.27439 0.0236 68	-0.37459 0.0016 68	-0.66168 0.0001 68
SCHDYSUS	-0.68040 0.0001 68	-0.55194 0.0001 68	-0.58516 0.0001 68
TCOUNT	-0.21116 0.0839 68-	-0.23518 0.0535 68	-0.50740 0.0001 68
SCOUNT	-0.25173 0.0384 68	-0.27643 0.0225 68	
STUTEAR	-0.26909 0.0265 68	-0.23007 0.0591 68	
PRSCHEX	0.00576 0.9631 67	0.03037 0.8072 67	0.9399
PRAUMPER	0.25169 0.0399 67	0.24922 0.0420 67	0.1725
LDEDEGRE	-0.19095 0.1188 68	0.7552	
SCHPRES1	-0.26874 0.0267 68	0.0038	0.0523

Appendix Six



		STA	TISTICAL A	HALYSIS SYSTI	E H 15:10 FRIDAY,	JUNE 11, 1982
VARIABLE	H	HEAN	STD DEV	SUM	MINIMUM	MANIMAN
MSEX	28	0.29798806	0.112 3 1258	8.34366571	0.07812500	0.48076923
NRACE	28	0.48849429	0.12909539	13.67784001	0.21052632	0.7222222
HCADDEXP	28	9.36926908	1.74396954	262.33953430	5.60000000	12.00000000
MITECHSC	28	546.62149533	26.32297165	15305.40186927	495.66666667	612 - 26006957
HUTEARSC	28	572.86390679	21.71793180	16040, 18939023	533.97435897	611.69565217
HADPERAT	28	1.09961394	0.07528378	30.78919020	1.00000000	1.29411765
MH I DEGRE	28	2.57898885	0.23989210	72.21168793	1.95000000	3.04347826
HABSEXP	28	7. 15714172	1.57816444	200.39996810	3.14705882	10.75000000
HABSUNEX	28	0.02833312	0.04122271	0.79332740	0	0.13513514
HSALAHT	28	17552.58932073	640.89454329	491472.50098043	16243.3688889	18257.96629213
MTOTEXP	28	11.07003109	1.99884538	309.96087048	6.28000000	14.18478261
NAGE	28	38.99880418	1.91146960	1091.96651691	33.48000000	\$2.00000£0£
MSCHEXP	28	6.31732076	1.35097214	176.88498133	3.68000000	8.49350649
MONED	28	3.85788814	0.29614191	108.02086785	3. 17657143	4.46698113
POPED	23	3.80827236	0.42089050	106.63162607	2.64000000	4.61057692
SIBS	28	3.77035326	0.46024617	105.56989130	2.95103896	4.80733945
PCTMPRO	28	0.28439992	0.10603755	7.96319777	0.03448276	0.49767442
PCTHMPRO	28	0.31015663	0.11027009	8.68438556	Q. 1 255814 0	0.54918033
PCTFPRO	28	0.23466562	0.15390009	6.57063728	0.03448276	0.67441860
PCTEMPRO	28	0.57710874	0.12968512	16.15904480	0.26511628	0.88000000
SCHSEX	28	0.49370687	0.02292207	13.82379240	0.45989305	0.54977376
SCHRACE	28	0.55664548	0.31079425	15.58607333	0.105395 23	1.0000000
SCHSPEED	28	0.06331784	0.04746659	1.77289955	0	! 0.17945545
SCHDROP	28	0.03295709	0.04556276	0.92279859	0	0.14156466
SCHOYSUS	28	0.70796228	0.39312091	19.82294394	0.01357466	1.58637084
TCOUNT	28	31,00000000	16.97056275	868.00000000	9.0000000	77.00000000
SCOUNT	28	1034.71428571	714.56315882	28972.00000000	187.0000000	2885.00000000
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					STA	TISTI	GAL	ANALY	818	SYSTE	. H	15:10 FR	IDAY, JUN	E 11, 19 82	
	VARIABLE	H		•	IEAN		STO DEV			SUPE		MINIMUM		KAN	1 HUNG
	STUTEAR	28		31,08061	724	7.	35926700		870.2572	5285	17	.00000000		42.9333	3333
	PRISCHEX	28		4.53571	429	4.	12294522		127.0000	0000	1	.00000000		18.0000	0000
	PRADMPER	28	~	3.57142	857	3.	01144202		100.0000	0000		0	I	9.0000	00000
	LDEDEGRE	28		2.80630	1531	0.	20357647		78.5765	4457	2	, 3 1250000	•	3.1379	3103
	SCHPREST	28		2.05423	1952	0.	15863348		57.5187	70659	1	.64705882	!	2.3125	60000
				COL	RELATION	COEFFICI	ENTS / PR	08 1 IRI L	INDER HO: P	RHO=0 / P	= 28	•		•	
		MSEX	HRACE	HCADDEXP	MITECHSC	MNTEARSC	MADPERAT	MHIDEGRE	MABSEXP	MABSUNEX	HSALAHT	MTOTEXP	MAGE	NOCHEXP	
	MSEX ·	1.00000	0.23794 0.222 6	0.65892	0.08114	-0.23626 0.2261	-9.17666 0.3685	0.50759 0.0058	-0.22838 0.2425	-0.01222 0.9505	0.64511 0.0002	0.70371 0.0001	0.63448 0.0003	0.68250 0.0001	
	MRACE	0.2 3794 0.2228	1.00000	0.2 8 074 0.1479		-0.67083 0.0001	-0.05671 0.7744	-0.18506 0.3458	0.61953 0.0004	0.11486 0.5606	0.35326 0.0652	0.2730 8 0.1597	0.20956 0.2845	0.00596 0.9760	
	NCADDEXP	0.65 892 0.0001	0.28074 0.1479	1.00003 0.0000	-0.09478 0.6314	-0.32575 0.0907	-0.09084 0.6457	0. 65 020 0. 00 02	0.03847 0.8459	0.05102 0.7965	0.92236 0.0001	0.96872 0.0001	0.0001	0. 82364 0.0001	•
116	MMTECHSC	0.08134	-0.56808 0.0016	-0.09478 0.6314	1.00000 0.0000	0.79319 0.0001	-0.13166 0.5042	0.0684	-0.57659 0.0013	0.6402	-0.08916 0.6518	0.9361	0.5118	0.0 64 03 0.6707	
•	MITEARSC	-0.23626 0.2261	-0.67083 0.0001	-0.32575 0.0907	0.79319 0.0001	1,00000 0.0000	0.04805 0.8082	0.00108 0.9957	0.0603	0.9477	0.0383	0.1594	-0.12044 0.5416	-0.16246 0.40 88	
	020DPERAT	-0.17666 0.3685	-0.05671 0.7744	-0.09084 0.6457	-0.13166 0.5042	0.04805 0.8082	1.00000 0.0000		0. 01952 0. 9215	-0.17492 0.3733	-0. 17327 0. 3779	-0.14800 0.4523	-0.25901 0.1832	0.02263 0.9090	
	MHIDEGRE	0.50759 0.0058	-0. 18506 0. 3458	0.65020 0.0002	0.34939 0.0684	0.00108 0.9957	0.00 8 29 0.9666		-0.44430 0.0179		0.61741 0.0005	0.67228 0.0001	0.58894 0.0010	0.70 34 0 0.0001	
	HABSEXP	-0.22838 0.2425	0.61953	0.03847 0.8459		-0.35948 0.0603		-0.44430 0.0179			-0.00252 0 .9899	-0.03243 0.8699	-0.00668 0.9731	-0.24239 0.2140	
	MABSUNEX	~0.01222 0.9508	0.11456 0.5606			-0.01298 0.9477	-0.17492 0.3733		-0.11369 0.5646	1,00000 0.0000	0.08386 0.6714	0.09404 0.6341	0.06578 0.7395	0.09317 0.6373	
151	MSALAHT	0.64511 0.0002	0.35326 0.0652		-0.08916 0.6518	-0.39352 0.0383	-0.17327 0.3779		-0.00252 0.9899	0.08386 0.6714	1.00000 0.0000	0.91505 0.0001	0.84761 0.0001	0.74266 0 ₁ 0001	155
154	MTOTEXP	0.70371 0.0001	0.27308 0.1597			-0.2 73 29	-0.14800 0.4523		-0.03243 0.8699		0.91805	1.00000 0.0000	0.89941 0.0001	0.86142 0.0001	700
3	MAGE	0.6344 8 0.0003				-0.12044 0.5416	-0.25901 0.1832		-0.00668 0.9731		0.84761 0.0001	0.89941 0.0001	1.00000 0.0000	0.72303 0.0001	
ERIC Full Text Provided by ERIC	MSCHEXP	0.68250 0.0001				-0.16246 0.4088				0.09317	0.74266 0.0001	0.86142 0.0001	0.72303 0.0001	1.00000 0.0000	

STATISTICAL ANALYSIS SYSTEM CORRELATION COEFFICIENTS / RROB T IRT UNDER HO:RHO=0 / N = 28 15:10 FRIDAY, JUNE 11, 1982

	HSEX	HRACE	MCADDEXP	HOITECHSC	HNTEARSC	HADPERAT	MHIDEGRE	MABSEXP	MABSUNEX	HSALAHT	MTOTEXP	MAGE	MUCHEAP
HOMED	0.19122 0.3297	-0.26195 0,1781	0.15697 0.4251	0.37263 0.050 8	-0.00906 0.9635	-0.21354 0.2752	0.47601 0.0105	-0.40860 0.0309	0.20 892 0.2 86 0	0.14134 0.4731	0.16184	0.20525 0.2 94 7	0.17649 0.3690
POPED	0.20348 0.2 99 0	-0.35505 0.0637	0.22753 0.2443		0.01476 0.9406	-0.15814 0.4216	0.56055 0.0019	-0.49498 0.0074	0.28648 0.1394	0.18393 0.3488	0.21830 0.2644	0.22279	0.30083 0.1198
5185	0.39263 0.0388	0.74216 0.0001	0.24488 0.2091	-0.32509 0.0914	-0.37767 0.0475	-0.06599 0.7387	-0.19305 0.3250	0.40062 0.0346	0.01623 0.9347	0.25149 0.1967	0.26225 0.1776	0.19616	0.12207 0.5360
PCTHPRO	0.15917 0.4185	-0.51093 0.0055	0.03419 0.8629			-0.12963 0.5109	0.44912 0.0165	-0.66878 0.0001	0.16367 0.4053	0.04245 0.8302	0.04353 0.8259	0.07 954 0. 6874	0.17163
PCTMPRO	0.16636 0.3975	0.81297 0.0001	0.31777 0.0994	-0.51818 0.0047			-6.03034 0.8782	0.62595 0.0004	0.4263	0.25417 0.1918	0.31364 0.1041	0.1753 9 0.3720	0.10911 0.5805
PCTFPRO	0.08447 0.6691	-0.57639 0.0013				-0.14862 0.4504	0.37830 0.0471	-0.57369 0.0014	0.9076	-0.01318 0.9469	0.8974	0.5893	0. 09258 0. 6394
PCTFNPRO	-0.35 59 3 0:0630	0.27404 0.1582		-0.56972 0.0016	-0.13325 0.4991		-0.56246 0.0018	0.46917 0.0118		0.1925	0.1175	0.0476	0.0628
SCHSEX	0.00203 0.9918	-0.14007 0.4771	-0.08504 0.6670	0.2420 9 0.2145				-0.22011 0.2604		-0.19958 0.3086	-0.13822 0.4830	-0.20090 0.3053	-0.01407 0.9434
SCHRACE	0.24226			-0.46719 0.0122	-0.5363 6 0.00 3 3	-0.03285 0.8682	-0.17625 0.3696	0,55022 0.0024	0.01777 0.92 8 5	0. 249 12 0.2011	0.26447 0.1738	0,2122 9 0.27 8 1	0.01907 0.9233
SCHSPEED	-6.00 68 5 0.9724	-0.18013 0.3590	0.34301 0.0739			-0.17772 0.3656		-0.04538 0.8186	0.12036 0.5418	0.38952 0.0405	0.29146 0.1324	0.3 8 231 0.0447	0. 26559 0.1720
SCHOROP	0.63790 0.0003					-0.19788 0.3128			-0.01575 0.9366	0.47340 0.0109	0.50223 0.0065	0.49147 0.0079	0.50235
SCHOYSUS	0.31480 0.1028			-0.08260 0.6760	-0.34925 0.0685	-0.16025 0.4153	0.39232 0.0389			0.62411 0.0004	0.52801 0.0039	0.45907 '0.0140	0.37987 0.0462
TCOUNT	0.50153 0.0066	-0.03836 0.8463				7 -0.28696 0.1387		-0.16824 0.3921	0.15129 0.4422		0.40154 0.0342	0.45509 0.0150	
SCOUNT	0.55 58 1 0.0021	-0.01301 0.9476			0.8295	-0.28618 0.1398		-0.19168 0.3285	0.14083 0.4747	0.47697 0.0103	0.49941 0.0068	0.52333 0.0043	
STUTEAR	0.55465 0.0022					2 -0.18372 7 0.3494		-0.20687 0.2909			0.66669 0.0001	0.60585 0.0006	0.0001
PRSCHEX	0.12615 0.5224	-0.14285 0.4683		0.08015 0.6852	0.6827	0.0050	0.0725		0.6035	0.6021	0.2708	0.5162	0.0217
PRADMPER	-0.12490 0.5266	-0.30165 0.1186	6 -0.13736 6 -0.4856	6 0.33191 8 0.0844		6 -0.34937 3 0.0684	-0.16457 0.4027	7 -0.22293 7 0.2542	-0.05935 0.7642	-0.11253 0.5686	-0.14321 0.4672		-0.20367 0.2986
												A	A - 34-1-1

© LDEDEGRE 0.41927 -0.07261 0.56556 0.38593 -0.01153 -0.10021 0.87167 -0.37203 0.17325 0.59319 0.55968 0.51074 0.57074 0.0264 0.7135 0.0017 0.0425 0.9536 0.6119 0.0001 0.0512 0.3780 0.0009 0.0020 0.0055 0.0015

STATISTICAL ANALYSIS SYSTEM

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				cor	RELATION	COEFFICIE	NTS / PRO	B 1 1#1 U	INDER HO: I	RHO=0 / M	i = 26				
		MSEX	MEACE	MCADDEXP	MITECHSC	HNTEARSC	HADPERAT	MHIDEGRE	NABSEXP	MABSUNEX	HSALAHT	HTOTEXP	MAGE	HICHEXP	
:	SCHPREST	0.09271			-0.85800	-0.76444 0.0001		-0.31067		0.00812	0.20126 0.3044	0.123 99 0.52 9 6	0.06747 0.7330	0.01009 0.9594	•
		0.6389 MONEO	POPED			PCTHNPRO	PCTFPRO	PCTFNPRO	SCHSEX	SCHRACE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT	
!	NSEX	0.19122	0.20348 0.2990	0.39263 0.0388	0.15917 0.4185	0.16636 0.3975	0.08447 0.6691	-0.35593 0.0630	0.00203 0.9918		-0.00685 0.9724	0.63790 0.0003	0.31480 0.1028	0.50153 0.0066	
	HRACE	-0.26195		0.74816	-0.51093 0.0055	0.81297	-0.57639 0.0013		-0.14007 0.4771		-0, 16013 0.3590	0.05026 0.7995	0.44256 0.0184	0.8463	
	HCADDEXP	0.1781		0.24488	0.03419	0.31777	-0.00366 0.9853	-0.30383 0.1160	-0.08504 0.6670		0.34301 0.0739	0.47 8 62 0.0100	0.57231	0.31588 0.1015	
	MNTECHSC	0,4251	0.36509	-0.32506	0.59744	-0.51818	0.63831	-0.56972 0.0016		-0.46719 0.0122	0.15646 0.4266	0.11 199 0.5705	-0.0 8260 0.6760	0.25 9 72 0.1 820	
	MMTEARSC	0.0508 -0.00906	0.0561 0.01476	-0.37767	0.25369	-0.54258	0.32420	-0:13325 0.4991	0.4148	0.0033		0.7195	0.000	0. 04977 0. 6 014	
	HADPERAT	0.9635	0.9406	-0.06599	-0. 12963	0.05263	-0.14863	0.17734		-0.03285 0.8682	-0.17772 0.3656	-0.19788 0.3128	-0.16025 0.4153	-0.2 8696 0.1387	•
		0.2752	0.4216	0.19305 0.19305	0.44912	-0.03034	0.37830	-0.56246		7 -0.17625 2 0.3696	0.40797	0.30316 0.116		0.42057 0.0258	
w		0.0105	0.0013 0.4 949 4	0.4006	2 -0.66876	0.62595	-0.57369	0.46917	-0.2201		2 -0.04538 0.8186	-0.12859 0.5144		-0.16824 0.3921	
		0.0309	0.0074	0.0162	3 0.1636	0.15654	0.0229	9 -0.18240	0.3499		7 0.12036 5 0.5418	-0.01575 0.9366	0.31316 0.1047	0.15129 0.4422	
	HSALAMT	0.2860	י9. 139	0.2514°	9 0.04245	5 0.25417	-0.0131	8 -0.2537	9 -0.1995	-	2 0.38952 1 0.0405	0.47340 0.0109	0.62411	0.33586 0.0806	
	MTOTEXP	0.4731	0.348	8 0.196	7 0.830/ 5 0.0435/	0.1318	-0.0255	3 -0.3026	0 -0.1382	2 0.2644	7 0.29146	0.5022	0.52801		
	MAGE	0.4106	0.264	4 0.177	6 0.825 6 0.0795	y 0.1041 4 0.17539	0.1065	8 -0.3776	2 -0.2009	0 0.2122	9 0.38231				
	MSCHEXP	0.2947	0.254	5 0.317	7 0.1716	3 0.1091 <u>1</u>	0.0925	8 -0.33 35	9 -0.0140	7 0.0190	7 0.26559				
158		0.3690	0.119	6 0.536 2 -0.4669	,0 U.382 95 G.8459	4 -0.16279	0.8101	5 -0.8544	6 0.3462	9 -0.3761	3 0.51045	0.0176	3 0.11612 0 0.5563		159
	MOHEO	0.0000	0 .000	0.012	2 0.000	0.4079	0.000	0.000 6 -0.8 265	9 0.3479	4 -0.4581	4 0.55750	0.1)462	0.16548	0.28758	
3	POPED	0.95732 0.0001		0.002	7 0.000		6 0.000	1 0.000	0.069	96 0.014	2 0.002	0.617	4 0.400.		
ERIC Full Text Provided by ERIC	S188	-0.4669! 0.012	5 -0.5445 2 0.002		30 -0 .5025 30 -0 .006	17 0.5348 14 0.003	3 -0.5 675 4 0.001	5 0.2631 6 0.176	3 -0.1136 1 0.366	57 0.000	2 -0.37621 1 0.0485	.0.084	9 0. 1496	0.8125	

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CORRELATION COEFFICIENTS / PROB 1 1R! UNDER HO: RHO=0 / N = 28

	MONED	POPED	\$195	PCTHPRO	PCTHMPRO	PCTFPRO	PCTFNPRO	SCHSEX	SCHRACE	SCHSPEED	SCHOROP	SCHOYSUS	TCOUNT
PCTMPRO	0.845 94 0.0001	0.84939	-0.50247 0.0064	1.00000	-0.51567 G.0050	6.90443 0.0001	-0.83252 0.0001	0.41925 0.0264	-0.63610 0.0003	0.50074 0.0346	0.11672 0.5542	0.67033 0.7221	0.33891 0.0777
PCTHMPRO	-0.16279 0.4679	-0. 19319 0. 3246	0.53483 0.0034	-0.51567 0.0050	1.00000	-0.58353 0.0017	0.25581 0.1889	-0.10943 0.5794		-0.06355 0.74 8 0	-0.01131 0.9545	0.40362 0.0332	-0.04296 0.8282
PCTFPRO	0.81015 0.0001	0.79016 0.J001	-0.56755 0.0016	0.90443	-0.58353 6.0011	1.00000	-0.86475 0.0001	0.0477	-0.63798 0.0003	0.0075	0.8248	-0.07543 0.7029	0.2707
PCTFMPRO	-0.85446 0.0001	-0.82659 0.0001	0.26313 0.1761	-0.83252 0.0001		-0.86475 0.0001	1.00000 G.0000	-0.33500 0.0614	0.31841 C.0967	-0.505 95 0.00 6 0	*0.23 956 0:21 95	0.3510	e. esz
SCHSEX	0.3462 9 0.0710		-0.11308 0.5667	0.41925 0.0264	-0.10 9 43 0.5794	0.37743 0.0477	-0.53500 0.0814	1.06000 0.0000	-0. 14122 0.4735		-0.18464 0.3469	0.5069	-0. 14244 0. 4697
SCHRAGE	-0.37613 0.0485	-0.45814 0.0142	0.81432 0.0001	-0.63610 0.0003		∾0.63798 ©.0003	0.31841 0.0987	-ú. 14122 0. 4735	1.00000 0.0000	-0.27683 0.1538	0.02444	0.3230 8 0.0935	-0. 153 86 0. 4344
3CHSPEE 0	0.51045 0.0055		-0.37621 0.0485	0.40074 0.0346	-0.06355 0.7480	0.49442 0.0075	-0.50595 0.0060		-0.27683 0.1538		-0.07109 0.7193	0.38356 0.0439	-0.0560 4 0.7770
SCHOROP	0.017 63 0.92 90		0.33145 0.0649	0.11672 0.5542	-0.01131 0.9545	0.04382 0.8246	-0.23956 0.2195	-0.18464 0.3469	0.02444 0.9017	-0.07109 0.7193		0.1929	0.0001
SCHDYSUS	0.11612 0.5563		0.27 9 57 0.1496	0.0703\$ 0.7221		-9.07543 0.7029	-0. 18312 0. 3510	0.130 86 0.5069	0.3230 6 0.0935				0.2765
TCOUNT	0.29307 0.1301			0.33891 0.0777	-0.04296 0.8282		-0.39192 0.0391	-0.142 44 0.4697	-0.153 8 6 0.4344	-0.05604 0.7770	0.73 328 0.0001		0.0000
SCOUNT	0.28583 0.1404			0.33506 0.0813	-0.06010 0.7613			-0.18469 0.3468	-0.15056 0.4444	0.01153 0.9536			0.0001
STUTEAR	0.31722 0.1000			0.2 9 623 0.1259	0.04558 0.8178			-0.31487 0.1027	-0.08586 0.6640	0.37697 0.0480	0.0001	0.0098	0.0009
PRSCHEX	-0.20544 0.2943	-0.07138 0.7181		-0.14988 0.4465		-0.21419 0.2738		-0.15831 0.4210		-0.05143 0.7949	0.7627		0.8557
PRADMPE	0.22281 0.2544		-0.28009 0.1468		-0. 3 9597 0.0370		-0. 16845 0.3915		-0.26275 0.1767		0.8415	0.9638	
LDEDEGR	0.46790 0.0120	0.54522 0.0027	-0.14965 0.4472	0.421387 0.0242			-0.55002 0.0024			0.0042	0.4388		0.2202
SCHPRES	7 -0.31583 0.1016			-0.57421 0.0014			0.47270 0.0111	-0.450 <u>8</u> 2 0.0161		-0.06195 0.7541			0.5464
	SCOUN1	STUTEAR	PRSCHEX	PRADMPER	LDEDEGRE	SCHPREST							

ERIC MSEX

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STATISTICAL ANALYSIS SYSTEM 15:10 FRIDAY, JUNE 11, 1982

CORRELATION COEFFICIENTS / PROB 1 IN: UNDER HO:RHO=0 / N = 28

		SCOUNT	STUTEAR	PRSCHEX	PRADMPER	LDEDEGRE	SCHPREST
	MRACE	-0.01301 0. 9 476	0.05557 0.7788	-0.14285 0.4683	-0.30165 0.1188	-0.07261 0.7135	0.59880 0.0008
	NCADDEXP	0.43527 0.0206	0.66697	0.15640 0.4268	-0.13736 0.4858	0.56556 0.0017	0.14116 0.4737
	MITECHSC	0.20511 0.2951	0.02381 0.9043	-0.00015 0.6852	0.33191 0.0844	0.38593 0.0425	-0.85800 0.0001
	MMTEARSC	-0.04262 0.8295	-0.28982 0.1347	-0.08080 0.6827	0.36486 0.0563	-0.01153 0.9536	-0.76444 0.0001
	MADPERAT	-0.28618 0.1398	-0. 18372 0.3494	0.51507 0.0050	-0.34937 0.0684	-0.10021 0.6119	0.06178 0.7548
	MHIDEGRE	0.46588 0.0125		0.34462 0.0725	-0, 16457 0, 4027	0.87167 0.0001	-0.31067 0.1076
	MASSEXP	-0, 19168 0, 3285	-0,20687 0.2909	-0.23024 0.2385	-0.22293 0.2542	-0.37203 0. 05 12	0.54700 0.0026
	MABSUNEX	0.14083	0, 15143	0.10256 0.6035	-0.05935 0.7642	0.17325 0.3789	0.00812 0.9673
120	MSALAHT	0.47697 0.0103		0.10297 0.6021	-0.11253 0.5686	0.59319	0.20126 0.3044
	MTOTEXP	0.49941		0.21547 0.2708	-0.14321 0.4672	0.55968 0.0020	
	NAGE	0.52333 0.0043					
	MSCHEXP	0.53390 0.0034	0.66128		-0.20367 0.2986	0.57074 0.0015	0.01009
	MOHED	0.28583 0.1404	0.31722	-0.20544 0.2943	0.2 2281 0.2544		-0.3158 0.101
	POPED	0.3017	0.40001	-0.07138			-0.29976 0.121
162	5185	0.08350 0.6727	0.07383			-0.14965 0.4472	0.2967 0.125
	PCTMPRO	0.33506 0.0813	0.29623 0.1259	-0.14988 0.4465	0.29220		-0.5742 0.001
	PC1HNPRO		0.04558	0.01890	-0.3959	7 0.04105 0 0.8357	
ERIC	PCTFPRO	0.219 3 4 0.262	0.20676 0.291	-0.21419 0.2738	0.33479 0.0810		-0.5798 -0.001

	SCOUNT	STUTEAR	PRSCHEX	PRADMPER	LDEOEGRE	SCHPREST
PCTFMPRO	-0.39600	-0.40456	0.14744	-0.16845	-0.55002	0.47270 0.0111
	0.0366	0.0327	0.4540	0.3915	0.0024	0.0111
SCHSEX	-0. 18469	-0.31487	-0.15831	0.28744	0.25655	-0.45082
	0.3468	0.1027	0.4210	0.1380	0. 1576	0.0161
SCHRACE	-0.15056	-0.08586	0.00407	-0.26275	-0.07069	0.48594
	0.4444	0.6640	0.9836	0.1767	0.7208	0.0088
SCHSPEED	0.01153	0.37697	-0.05143	0.08999	0.52443	-0.06195
	0.9536	0.0480	0.7949	0.6488	0.0042	6.7541
SCHOROP	0.82039	0.71777	0.05973	0.03958	0.15241	-0.03515
	0.0001	0.0001	0.7627	0.8415	0.4388	0.8591
SCHOYSUS	0.28109	0.47950	-0.14181	-0.00059	0.42346	0.10416 0.5979
•	0.1473	0.0098	0.4716	0.9638	0.0247	0.5919
TCOUNT	0.96479	0.59134	0.03599		0.23921	-0.11901
••••	0.0001	0.0009	0.8557	0.5593	0.2202	0.5464
SCOUNT	1.06000		0.06091			-0.06363
	0.0000	0.0001	0.7582	0.5750	0.1329	0.7477
STUTEAR	0.75542	1.00000	0.15147		0.40951	0.14163
	0.0001	0.0000	0.4417	0.4816	0.0305	0.4/24
PRSCHEX	0.06091	0.15147	1,00000			
***************************************	0.7582	0.4417	0.0000	0.0009	0.3898	0.4212
PRADMPER	-0.11070	-0.13868		1,00000	-0. 12269	
•••••	0.5750	0.4816	0.0009	0.0000	0.5340	0.0325
LDEDEGRE	0.29105	0.40951	0.16907			
	0.1329	0.0303	0.3898	0.5340	0.0000	0.0790
SCHPREST	-0.06363	0.14163				
	0.7471	0.4722	0.4212	2 0.0325	0.0790	0.0000

Appendix Seven



		STA	TISTICAL AN	ALYSIS SYSTE	-	
VARIABLE	N	MEAN	STO DEV	SUM	MINIMUM	HAXINUN
APCHATH	28	66,72602321	9.76152866	1868, 32864984	52,35038610	87.17213115
APCREAD	28	75,05220471	8.29341802	2101.46173176	62.92534722	89.89071038
\PCWR1T	28	73.25056791	9.22823642	2051.01590143	56.62762201	90.20707071
·:SEX	28	0.29798806	0.11231258	8.34366571	0.07812500	0.40076923
MRACE	28	0.48849429	0.12909539	13.67784001	0.21052632	0.7222222
HCADDEXP	28	9, 36926908	1.74396954	262. \$3953430	5.6000000	12.00000000
HOITECHSC	28	546.62149533	26.32297165	15305.40186927	495.66666667	612.26066957
MNTEARSC	28	572.86390679	21.71793180	16040.18939023	533.97435897	611.69565217
HADPERAT	28	1,09961394	0.07528378	30.78919020	1,0000000	1.29411765
MHIDEGRE	28	2,57898885	0.23989210	. 72,21168793	1,95000000	3.04347826
MABSEXP	28	7, 15714172	1,57816444	200.39996810	3,14705882	10.75000000
MARSUNEX	28	0,02833312	0,04122271	0.79332740	0	0.13513514
MSALANT	28	17552,58932073	640. 894 54329	491472.50098043	16243.38888889	18257.96629213
HTOTEXP	28	11.07003109	1.99884538	309.96087048	6.28000000	14.18478261
MAGE	28	38.99880418	1.91146960	1091.9 66 51691	33.48000000	42.0000000
MSCHEXP	28	6, 31732076	1.35097214	176.88498133	3.68000000	8.49350649
HOHED	28	3.85788814	0.29614191	108.02086785	3.17857143	4.46698113
POPED	28	3,80827236	0.42089050	105.63162607	2.64000000	4.61057 69 2
5185	28	3,77035326	0.46024617	105.56989130	2.96103896	4.80733945
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PCTFPRO	28	0.23466562	0.15390009	6.57063728	0.03448276	0.67441860
PCTFNPRO	28	0.57710874	0.12968512	16, 13904480	0.26511628	.0.88000000
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SCHRACE	28	0.55664548	0.31079425	15.58607333	0.10539523	1.00000000
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SCIIDROP	28	0.03295709	0.04556276	0.92279859	0	0.14156466
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		s t	ATISTICAL A	HALYSIS SYSTEM	15:22 FRIDAY,	JUNE 11, 1982 9
VARIABLE	N	HEAN	STD DEV	SUM	MINIMUM	MAXIMUM
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	28	31.08061724	7.35926700	870.25728285	17.00000000	42.93333333
STUTEAR	28	4,53571429	4.12294522	127.0000000	1.00000000	18. 000 00000
PRSCHEX		3.57142857	3.01144202	100.0000000	0.	9.00000000
PRADMPER	28	2.80630531	0.20357647	78.57654857	2, 31250000	3, 13793103
LDEDEGRE	28		0, 15863348	57.51870659	1,64705882	2.31250000
SCHPREST	28	2.05423952	V, 12003340	J		

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APCMATH'	APCREAD	APCHRIT

0.6754 0.7513 0.5888 MHIDEGRE 0.29206 0.22682 -0.04357 0.1315 0.2458 0.8257				
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POPEO	0.48936 0.0082	0.54878 0.0025	0.34606 0.0712	
5185	-0.61623 0.0005	-0.81929 0.0001	-0.78640 0.0001	
PCTHPRO	0.67590 0.0001	0.69306 0.0001	0.35896 0.0607	
PCTHNPRO	-0.67756` 0.0001	-0.6619 3 0.0007	-0. 39789 0.0360	
PCTFPRO	0.79094 0.0001	0.75803 0.0001	0.47016 0.0116	
PCTFNPRO	-0.59846 0.0008	-0.47886 0.0099	-0.16261 0.4084	
SCHSEX	0.15971 0.4169	0.29533 0.1271	0.22693 0.2455	
SCHRACE	-0.74734 0.0001	-0.85628 0.0001	-0.60021 0.0007	
SCHSPEED	0.25037 0.1988	0.31091 0.1073	0. 3 2494 0.0916	
SCHDROP	0.16389 0.4047	-0.21147 0.2800		
SCHDYSUS	-0.32077 0.0961	-0.31781 0.0993	-0.31758 0.0996	
TCOUNT	0.32883 0.0875	0.02563 0. 8 970	-0.41309 0.0289	
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PRSCHEX	-0.1563h 6.4269	-0.11615 0.5561	-0.21019 0.2830	

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STATISTICAL ANALYSIS SYSTEM

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APCHATH APCREAD APCHRIT

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SCHPREST -0.64512 -0.66172 -0.38159 0.0002 0.0001 0.0451 15:22 FRIDAY, JUNE 11, 1982

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Appendix Eight





STUDENT QUESTIONNAIRE

PLEASE ANSWER THE FOLLOWING QUESTIONS BY CIRCLING THE NUMBER ON THE RIGHT OF YOUR BEST ANSWER TO THE QUESTION. PICK ONLY ONE ANSWER FOR EACH QUESTION!!!

1. How old are you?

- 7 years old 1.
- 8 years old 2.
- 9 years old 3.
- 10 years old 4.
- 11 years old 5. 12 years old - 6.
- 13 years old 7.

2. Are you a boy or girl?

- boy 1.
- gir1 2.
- 3. Including this year, how many years have you been at this school?
 - Less than 1 year 1.
 - 2 years 2.
 - 3 years 3.
 - 4 years 4.
 - 5 years 5.
 - 6 years 6.
 - 7 years or more 7.

4. What is your race or ethnic group?

- American Indian 1.
 - Black American 2.
 - White American 3.
- Spanish-surnamed American 4.
 - Oriental American 5.
 - Other 6.
- 5. What kind of work does your father usually do?
 - Skilled Craftsman or Foreman
 - Semi-skilled worker 1.
 - Unskilled Worker
 - Professional
 - Manager or Owner 2.
 - Office or Sales
 - Stays at home 3.
 - Deceased 4.
 - I don't know 5.



What kind or work does your mother usually do? Skilled Craftsman or Foreman Semi-skilled worker - 1. Unskilled Worker Professional Manager or Owner - 2. Office or Sales Stays at home - 3. Deceased - 4. I don't know - 5. How much schooling does your father have? Finished fewer than eight years of school - 1. Finished eighth grade but did not attend high school - 2. Went to high school but did not graduate - 3. Graduated from high school - 4. Went to college - 5. 1 don't know - 6. How much schooling does your mother have? Finished fewer than eight years of school - 1. Finished eighth grade but did not attend high school - 2. Went to high school but did not graduate - 3. Graduated from high school - 4. Went to college - 5. I don't know - 6. THE FOLLOWING QUESTIONS ARE TO BE ANSWERED BY CIRCLING THE NUMBER ON THE RIGHT OF THE CORRECT ANSWER. REMEMBER, NO ONE WILL SEE YOUR ANSWERS EXCEPT THOSE OF US FROM LOUISIANA STATE UNIVERSITY, SO PLEASE TELL US JUST WHAT YOU THINK. (Pick only one answer for each question.)

9. How far do you think you will go in school?

Finish grade school - 1.

Go to high school for a while - 2.

Finish high school - 3.

Go to college for a while - 4.

Finish college - 5.

10. How many students in this school try hard to get a good grade on their weekly tests?

Almost all of the students - 1.

Most of the students - 2.

Half of the students - 3.

Some of the students - 4.

Almost none of the students - 5.



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11. How many students in this school will work hard to get a better grade
    on the weekly tests than their friends do?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                                 Half of the students - 3.
                                                 Some of the students - 4.
                                          Almost none of the students - 5.
12. How many students in this school don't care if they get bad grades?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                                 Half of the students - 3.
                                                 Some of the students - 4.
                                          Almost none of the students - 5.
13. How many students in this school do more studying for weekly tests
     than they have to?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                                 Half of the students - 3.
                                                 Some of the students - 4.
                                          Almost none of the students - 5.
14. If most of the students here could go as far as they wanted in school,
     how far would they go?
                                                  Finish grade school - 1.
                                        Go to high school for a while - 2.
                                                   Finish high school - 3.
                                            Go to college for a while - 4.
                                                        Finish college - 5.
15. How important do most of the students in this class feel it is to
     do well in school work?
                                       They feel it is very important - 1.
                                            They feel it is important - 2.
                                   They feel it is somewhat important - 3.
                                   They feel it is not very important - 4.
                                 They feel it is not important at all - 5.
How important do you think most of the students in this school feel
     it is to do well in school work?
                                       They feel it is very important -1.
                                            They feel it is important - 2.
                                   They feel it is somewhat important - 3.
                                   They feel it is not very important - 4.
                                 They feel it is not important at all - 5.
17. How many students in this class think reading is a fun thing to do
     and read even when they don't have to?
                                           Almost all of the students - 1.
                                                 Most of the students · 2.
                                            About half of the students - 3.
                                                  Some of the students - 4.
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None of the students - 5.

- 18. How many students in this school make fun of or tease students who get really good grades?
 - Almost all of the students 1.
 - Most of the students 2.
 - About half of the students 3.
 - Some of the students 4.
 - None of the students 5.
- 19. How many students in this school don't do as well as they could do because they are afraid other students won't like them as much?
 - Almost all of the students 1.
 - Most of the students 2.
 - About half of the students 3.
 - Some of the students 4.
 - None of the students 5.

REMEMBER, PLEASE ANSWER THE FOLLOWING QUESTIONS BY CIRCLING THE NUMBER WHICH BEST ANSWERS THE QUESTION FOR YOU. PICK ONLY ONE ANSWER FOR EACH QUESTION.

- 20. If students in this school did not have their work graded by teachers, how many would study hard?
 - Almost all of the students 1.
 - Most of the students 2.
 - About half of the students 3.
 - Some of the students 4.
 - None of the students 5.
- 21. People like me will not have much of a chance to do what we want to in life.
 - Strongly agree 1.
 - Agree 2.
 - Disagree 3.
 - Strongly disagree 4.
- 22. People like me will never do well in school even though we try hard.
 - Strongly agree 1.
 - Agree 2.
 - Disagree 3.
 - Strongly disagree 4.
- 23. You have to be lucky to get good grades in this school.
 - Strongly agree 1.
 - Agree 2.
 - Disagree ኃ.
 - Strongly disagree 4.
- 24. Think of your friends. Do you think you can do school work better, the same or poorer than your friends?
 - Better than all of them 1.
 - Better than most of them 2.
 - About the same 3.
 - Poorer than most of them 4.
 - Poorer than all of them 5.



25. When you' finish high school, do you think you will be one of the best students, about the same as most or below most of the students?

```
One of the best - 1.
```

- Better than most of the students 2.
 - Same as most of the students 3.
 - Below most of the students 4.
 - One of the worst 5.

26. How far do you think your best friend believes you will go in school?

```
Finish grade school - 1.
```

- Go to high school for a while 2.
 - Finish high school 3.
 - Go to college for a while 4.
 - Finish college 5.

NOW WE WOULD LIKE TO ASK SOME QUESTIONS ABOUT THE TEACHERS IN THIS SCHOOL. ANSWER THESE QUESTIONS AS YOU ANSWERED THE OTHER ONES BY CIRCLING THE NUMBER. REMEMBER, NO TEACHER WILL SEE YOUR ANSWERS, SO BE AS HONEST AS YOU CAN.

27. How many teachers in this school tell students to try to get bettem grades than their classmates?

```
Almost all of the teachers - 1.
```

- Most of the teachers 2.
- Half of the teachers 3.
- Some of the teachers 4.
- None of the teachers 5.

28. Of the teachers that you know in this school, how many don't care if the students get bad grades?

```
Almost all of the teachers - 1.
```

- Most of the teachers 2.
- Half of the teachers 3.
- Some of the teachers 4.
- None of the teachers 5.

29. Of the teachers that you know in this school, how many tell students to do extra work so that they can get better grades?

- Almost all of the teachers 1.
 - Most of the teachers 2.
 - Half of the teachers 3.
 - Some of the teachers 4.
 - None of the teachers 5.

30. Of the teachers that you know in this school, how many make the students work too hard?

- Almost all of the teachers 1.
 - Most of the teachers 2.
 - Half of the teachers 3.
 - Some of the teachers 4.
 - None of the teachers 5.



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31. Of the teachers that you know in this school, how many don't care
    how hard the student works, as long as he passes?
                                           Almost all of the teachers - 1.
                                                  Most of the teachers - 2.
                                                 Half of the teachers - 3.
                                                  Some of the teachers - 4.
                                                  None of the teachers - 5.
32. What kind of student does the teacher you like the best expect you
     to be in school?
                                                       One of the best - 1.
                                     Better than most of the students - 2.
                                         Same as most of the students - 3.
                                           Below most of the students - 4.
                                                      One of the worst - 5.
33. Think of your teacher
                             Would your teacher say you can do school
     work better, the same, or poorer than other people your age?
                                              Better than all of them - 1.
                                              Better than most of them - 2.
                                                  Same as most of them - 3.
                                              Poorer than most of them - 4.
                                               Poorer than all of them - 5.
34. How often do teachers in this school try to help students who do
     badly on their school work?
                                               They always try to help - 1.
                                              They usually try to help - 2.
                                           They sometimes try to help - 3.
                                               They seldom try to help - 4.
                                                They never try to help - 5.
     Compared to students in other schools, how much do students in this
     school learn?
                                 They learn a lot more in this school - 1.
                              They learn a little more in this school - 2.
                                   About the same as in other schools - 3.
                          They learn a little bit less in this school - 4.
                                 They learn a lot less in this school - 5.
     Compared to students from other schools, how well will most of the
     students from this school do in high school?
                                           They will be among the best - 1.
```



They will do better than most - 2.

They will do poorer than most - 4.

They will be among the worst - 5.

They will do about the same as most - 3.

- 37. How important is it to teachers in this school that their students learn their school work?
 - It is the most important thing to the teachers 1.
 - It is very important to the teachers 2.
 - It is somewhat important to the teachers 3.
 - It is not very important to the teachers 4.
 - It is not important at all to the teachers 5.
- 38. Think about the teachers you know in this school. Do you think the teachers in this school care more, or less, than teachers in other schools about whether or not their students learn their school work?
 - Teachers in this school care a lot more 1.
 - Teachers in this school care a little more 2.
 - There is no difference 3.
 - Teachers in this school care a little less 4.
 - Teachers in this school care a lot less 5.
- 39. Does your teacher think you could finish college?
- Yes, for sure 1.
- Yes, probably 2.
 - Maybe 3.
- No, probably not 4.
 - No, for sure 5.

NOW WE WOULD LIKE YOU TO ANSWER SOME QUESTIONS ABOUT YOUR PARENTS. ANSWER THEM THE SAME WAY YOU ANSWERED THE OTHER ONES.

- 40. How far do you think your parents believe you will go in school?
 - Finish grade school 1.
 - Go to high school for a while 2.
 - Finish high school 3.
 - Go to college for a while 4.
 - Finish college 5.
- 41. What kind of student do your parents expect you to be in school?
 - Better than all of them 1.
 - Better than most of them 2.
 - About the same 3.
 - Poorer than most of them 4.
 - Poorer than all of them 5.
- 42. Think of your parents. Do your parents say you can do school work better, the same, or poorer than your friends?
 - Better than all of them 1.
 - Better than most of them 2.
 - About the same 3.
 - Poorer than most of them 4.
 - Poorer than all of them 5.



43. Do your parents think you could finish college?

Yes, for sure - 1.

Yes; probably - 2.

Maybe - 3.

No, probably not - 4.

No, for sure - 5.

READ EACH STATEMENT BELOW. CIRCLE THE NUMBER OF THE ANSWER THAT TELLS HOW OFTEN THE STATEMENT IS TRUE FOR YOU.

44. In class, I have the same seat and I must sit next to the same students.

Always - 1.

Often - 2.

Sometimes - 3.

Seldom - 4.

Never - 5.

45. When I am working on a lesson, the other students in my class are working on the same lesson.

Always - 1.

Often - 2.

Sometimes - 3. Seldom - 4.

Never - 5.

46. In most of my classes, the teacher tells me what I must work on; I have no choice.

Always - 1.

Often - 2.

Sometimes - 3.

Seldom - 4.

Never - 5.

47. In class, the teacher stands in front of the room and works with the class as a whole.

Always - 1.

Often - 2.

Sometimes - 3.

Seldom - 4.

Never - 5.

48. If your teacher gave you a hard assignment, would you rather figure out how to do it by yourself or would you want your teacher to tell you how to do it?

I almost always prefer figuring it out for myself - 1.

I usually prefer figuring it out for myself - 2.

Sometimes I prefer figuring it out for myself - 3.

I usually like the teacher to tell me how to do it - 4.

I always like the teacher to tell me how to do it - 5.



Appendix Nine

TEACHER QUESTIONNAIRE

The information you give us on this questionnaire is completely confidential. No one will see your answers except the members of our research staff. Reports will be made with aggregate data, and no one person will be identified with his or her data. After your questionnaire has been completely coded and punched on IBM cards, your questionnaire will be destroyed. Complete confidentiality is assured. It is very important that you be as candid as possible in your answers. Do not respond to any question that your feel is too "personal" or that you for any other reason prefer to leave unanswered.

- 1. Please write the name of this school.
- 2. Are you male or female (circle the number of the correct answer)?

female - 1. male - 2.

3. What is your race or ethnic group?

Black - 1.

Chicano - 2.

Other Spanish Speaking - 3.

Native American - 4..

Oriental Origin - 5.

White - 6.

4. How long have you taught school (circle the number of the correct answer)?

Just this year - 1.

1 to 4 years -2.

5 to 9 years - 3.

10 to 14 years - 4.

15 or more years - 5.

5. How long have you taught in this school?

Just this year - 1.

1 to 4 years - 2.

5 to 9 years - 3.

10 to 14 years - 4.

15 or more years - 5.

6. What grade level(s) are you teaching:



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7. How much formal preparation do you have?
                                        Less than a Sachelor's degree - 1.
                                                    Bachelor's degree - 2.
                    Some graduate work but less than Master's degree - 3.
                                                       Masters degree - 4.
                         More than Master's degree but not Doctorate - 5.
                                                      Doctor's degree - 6.
8. How did you feel about your assignment to this school before
    coming here?
                                      Very happy about the assignment - 1.
                                  Somewhat happy about the assignment - 2.
                                     No feelings one way or the other - 3.
                                Somewhat unhappy about the assignment - 4.
                                    Very unhappy about the assignment - 5.
    Which best describes the students in your class(es)?
                All children of professional and white collar workers - 1.
            Mostly children of professional and white collar workers - 2.
                     Children from a general cross section of society - 3.
            Mostly children of factory and other blue collar workers - 4.
                All children of factory and other blue collar workers - 5.
                                           Children of rural families - 6.
   If you had your choice of school settings, which would you select
    from among the following?
                All children of professional and white collar workers - 1.
            Mostly children of professional and white collar workers - 2.
                     Children from a general cross section of society - 3.
            Mostly children of factory and other blue collar workers - 4.
                All children of factory and other blue collar workers - 5.
                                           Children of rural families - 6.
11. What kind of school do you prefer to work in as far as racial
     composition is concerned?
                                                  An all white school - 1.
               A mostly white school but with some non-white students - 2.
      A school that has about half white and half non-white students - 3.
               A mostly non-white school but with some white students - 4.
                                 A school with all non-white students - 5.
                                                  I have no preference - 6.
     In your judgment, what is the general reputation of this school among
     teachers outside the school?
                                                        Among the best - 1.
                                                   Better than average - 2.
                                                         About average - 3.
                                                         Below average - 4.
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A poor school - 5.

13.	information do you think best predicts a pupil's success or faile	
	in higher education?	
	Teacher recommendations	- 1.
	Group or individual intelligence or	
	scholastic aptitude test scores	- 2.
	Other standardized test scores (e.g., personality	
	and vocational inventories, etc.)	- 3.
	School grades	
	Other	
	Orner	-).
STAN	OULD LIKE TO ASK YOU SOME QUESTIONS ABOUT GROUPING PRACTICES AND UDARDIZED TESTS IN THIS SCHOOL. PLEASE FEEL FREE TO WRITE ANY ADDITIONS AFTER EACH QUESTION.	
14.	In general, how are students in the same grade level assigned to different classes?	
	Homogeneous grouping according to ability	_ 1
	Heterogeneous grouping according to ability	
	Random grouping	
	No intentional grouping	
	Other (indicate)	- 5.
	•	
15.	In general, how do you group the students within your class?	
	Homogeneous grouping eccording to ability	-1.
	Heterogeneous grouping according to ability	
	Random grouping	
	No intentional grouping	
	Other (indicate)	
16.	How important do you think standardized intelligence test scores your students are?	of
	Very important	- 1.
	Somewhat important	
	Not very important	
	Not important at all	
	We do not give intelligence tests in this school	- 5.
17.	How often do your refer to or consider the I.Q. test scores of you students when you plan their work?	our
	Very often	- 1.
	Often	
	Sometimes	
	Seldom	
	Never	- 5.
18.	On the average, what level of achievement can be expected of the students in this school?	
	Much above national norm	_ 1
	Slightly above national norm	
	Approximately at national norm	
	Slightly below national norm	
	Much below national norm	- 5.



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19. On the average, what level of achievement can be expected of the
     students in your class?
                                              Much above national norm - 1.
                                          Slightly above national norm - 2.
                                        Approximately at national norm - 3.
                                          Slightly below national norm - 4.
                                              Much below national norm - 5.
     What percent of the students in this school do you expect to complete
20.
     high school?
                                                           90% or more - 1.
                                                              70\% - 89\% - 2.
                                                              50\% - 69\% - 3.
                                                              30\% - 49\% - 4.
                                                          Less than 30% - 5.
21. What percent of the students in your class do you expect to complete
     high school?
                                                           90% or more - 1.
                                                              70\% - 89\% - 2.
                                                              50% - 69% - 3.
                                                              30\% - 49\% - 4.
                                                          Less than 30% - 5.
    What percent of the students in this school do you expect to
     attend college?
                                                           90% or more - 1.
                                                              70\% - 89\% - 2.
                                                              50% - 69% - 3.
                                                              30% - 49% - 4.
                                                          Less than 30% - 5.
23. What percent of the students in your class do you expect to attend
     college?
                                                           90% or more - 1.
                                                               70% - 89% - 2.
                                                              50\% - 69\% - 3.
                                                               30% - 49% - 4.
                                                          Less than 30% - 5.
24. What percent of the students in this school do you expect to
     complete college?
                                                           90% or more - 1.
                                                               70% - 89% - 2.
                                                               50% - 69% - 3.
                                                               30% - 49% - 4.
                                                           Less than 30% - 5.
 25. What percent of the students in your class do you expect to complete
      college?
                                                            90% or more - 1.
                                                               70% - 89% - 2.
                                                               50% - 69% - 3.
                                                               30% - 49% - 4.
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Less than 30% - 5.

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26. How many, of the students in this school are capable of getting mostly
     A's and B's?
                                                            90% or more - 1.
                                                               70\% - 89\% - 2.
                                                               50\% - 69\% - 3.
                                                               30\% - 49\% - 4.
                                                           Less than 30\% - 5.
     How many of the students in your class are capable of getting mostly
     A's and B's?
                                                            90% or more - 1.
                                                               70\% - 89\% - 2.
                                                               50\% - 69\% - 3.
                                                               30\% - 49\% - 4.
                                                           Less than 30\% - 5.
     How would you rate the academic ability of the students in this school
     compared to other schools?
                                            Ability here is much higher - 1.
                                        Ability here is somewhat higher - 2.
                                         Ability here is about the same - 3.
                                        Ability here is somewhat lower - 4.
                                             Ability here is much lower - 5.
     What percent of the students in this school would you say want to complete
     high school?
                                                            90% or more - 1.
                                                               70\% - 89\% - 2.
                                                               50\% - 69\% - 3.
                                                               30\% - 49\% - 4.
                                                           Les: than 30% - 5.
     What percent of the students in your class would you say want to
     complete high school?
                                                            90% or more - 1.
                                                               70\% - 89\% - 2.
                                                               50\% - 69\% - 3.
                                                               30% - 49% - 4.
                                                           Less than 30\% - 5.
     What percent of the students in this school would you say want to go
      to college?
                                                             90% or more - 1.
                                                               70\% - 89\% - 2.
                                                                50\% - 69\% - 3.
                                                                30\% - 49\% - 4.
                                                           Less than 30% - 5.
     What percent of the students in your class would you say want to
      go to collage?
                                                             90% or more - 1.
                                                                70\% - 89\% - 2.
                                                                50\% - 69\% - 3.
                                 187
                                                                30% - 49% - 4.
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Less than 30% - 5.

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PLEASE REMEMBER, YOUR ANSWERS TO ALL OF THESE QUESTIONS ARE COMPLETELY CONFIDENTIAL. NO ONE BUT OUR RESEARCH STAFF WILL SEE YOUR ANSWERS.

33. How much do you enjoy teaching in this school?

the job?

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Very Much - 1.
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Much - 2.

Average - 3.

Little - 4. Not at all - 5.

34. If someone were to offer you an interesting and secure non-teaching job for \$1,000 more a year, how seriously would you consider taking

Very seriously - 1.

Somewhat seriously - 2.

Very seriously - 3.

Not at all - 4.

35. If someone were to offer you an interesting and secure non-teaching job for \$3,000 more a year, how seriously would you consider taking the job?

Very seriously - 1.

Somewhat seriously - 2.

Not very seriously - 3.

Not at all - 4.

36. What percent of the students in this school do you think the principal expects to complete high school?

90% or more - 1.

70% - 89% - 2.

50% - 69% - 3.

30% - 49% - 4.

Less than 30% - 5.

37. What percent of the students in this school do you think the principal expects to attend college?

90% or more - 1.

70% - 89% - 2.

50% - 69% - 3.

30% - 49% - 4.

Less than 30% - 5.

38. What percent of the students in this school do you think the principal expects to complete college?

90% or more - 1.

70% - 89% - 2.

50% - 69% - 3.

30% - 49% - 4.

Less than 30% - 5.



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39. How many, students in this school do you think the principal believes
     are capable of getting A's and B's?
                                                          90% or more - 1.
                                                             70% - 89% - 2.
                                                             50% - 69% - 3.
                                                             30% - 45% - 4.
                                                         Less than 30% - 5.
40. How do you think your principal rates the academic ability of the
     students in this school, compared to other schools?
                                                  Rates it much better - 1.
                                              Rates it somewhat better - 2.
                                                     Rates it the same - 3.
                                               Rates it somewhat lower - 4.
                                                   Rates it much lower - 5.
41. Completion of high school is a realistic goal which you set for
     what percentage of your students?
                                                          90% or more - 1.
                                                              70\% - 39\% - 2.
                                                              50% - 69% - 3.
                                                              30\% - 49\% - 4.
                                                         Less than 30% - 5.
42. Completion of college is a realistic goal which you set for what
     percentage of your students?
                                                           90% or more - 1.
                                                              70% - 39% - 2.
                                                              50% - 69% - 3.
                                                              30\% - 49\% - 4.
                                                          Less than 30\% - 5.
43. How often do you stress to your students the necessity of a post
     high school education for a good job/or a comfortable life?
                                                             Very often - 1.
                                                                  Often - 2.
                                                              Sometimes - 3.
                                                                 Seldom - 4.
                                                                  Never - 5.
44. Do you encourage your students who do not have sufficient economic
      resources to aspire to go to college?
                                                                 Always - 1.
                                                                Usually - 2.
                                                              Sometimes - 3.
                                                                 Seldom - 4.
                                                                  Never - 5.
45. Do you encourage your students who do not have sufficient academic
      ability to aspire to go to college?
                                                                 Always - 1.
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Usually - 2. Sometimes - 3. Seldom - 4. Never - 5.

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46. How many teachers in this school feel that all their students should
     be taught to read well and master other academic subjects, even
     though some students may not appear to be interested? -
                                            Almost all of the teachers - 1.
                                                  Most of the teachers - 2.
                                            About half of the teachers - 3.
                                                  Some of the teachers - 4.
                                                  None of the teachers - 5.
47. It would be unfair for teachers in this school to insist on a higher
     level of achievement from students than they now seem capable of
     achieving.
                                                        Strongly agree - 1.
                                                                 Agree - 2.
                                                                Unsure - 3.
                                                              Disagree - 4.
                                                     Strongly disagree - 5.
48. If I think a student is not able to do some school work, I don't
     try to push him very hard.
                                                        Strongly agree - 1.
                                                                 Agree - 2.
                                                                Unsure - 3.
                                                              Disagree - 4.
                                                     Strongly disagree - 5.
49. I am generally very careful not to push students to a level of
     frustration.
                                                        Strongly agree - 1.
                                                                 Agree - 2.
                                                                Unsure - 3.
                                                               Disagree - 4.
                                                     Strongly disagree - 5.
50. How many teachers encourage students to seek extra school work so
     that the students can get better grades?
                                            Almost all of the teachers - 1.
                                                  Most of the teachers - 2.
                                            About half of the teachers - 3.
                                                  Some of the teachers - 4.
                                                  None of the teachers - 5.
51. How many students in this school try hard to improve on previous work?
                                             Almost all of the students - 1,
                                                  Most of the students - 2.
                                            About half of the students - 3.
                                                   Some of the stadents - 4.
                                                   None of the students - 5.
     How many students in your class try hard to improve on previous work?
                                             Almost all of the students - 1.
                                                  Most of the students - 2.
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About half of the students - 3.

Some of the students - 4. None of the students - 5.



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53. How many students in this school will try hard to do better school
     work than their friends do?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                           About half of the students - 3.
                                                 Some of the students - 4.
                                                 None of the students - 5.
54. How many students in your class will try hard to do better school
     work than their classmates do?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                           About half of the students - 3.
                                                 Some of the students - 4.
                                                 None of the students - 5.
55. How many students in your school will try hard to do better school
     work than their classmates do?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                           About half of the students - 3.
                                                 Some of the students - 4.
                                                 None of the students - 5.
56. How many students in your class are content to do less than they should?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                           About half of the students - 3.
                                                 Some of the students - 4.
                                                 None of the students - 5.
57. How many students in this school will seek extra work so that they
     can get better grades?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                           About half of the students - 3.
                                                 Some of the students - 4.
                                                 None of the students - 5.
58. How many students in you class will seek extra work so that they can
     get better grades?
                                           Almost all of the students - 1.
                                                 Most of the students - 2.
                                           About half of the students - 3.
                                                 Some of the students - 4.
                                                 None of the students - 5.
59.
     The parents of students in this school regard this school primarily
     as a "babysitting", agency:
                                                        Strongly agree - 1.
                                                                Agree - 2.
                                                                Unsure - 3.
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Disagree - 4.

Strongly disagree - 5.

60. The parents of students in this school are deeply concerned that their children receive a top quality education.

Strongly agree - 1.

Agree - 2.

Unsure - 3.

Disagree - 4.

Strongly disagree - 5.

61. How many of the parents of students in this school expect their children to complete high school?

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Almost all of the parents - 1.

Most of the parents - 2.
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- About half of the parents 3.
- Some of the parents 4. Almost none of the parents 5.
- 62. How many of the parents of students in this school expect their children to complete college?

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Almost all of the parents - 1.

Most of the parents - 2.
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- About half of the parents 3. Some of the parents - 4.
- Almost none of the parents 5.
- 63. How many of the parents of students in this school don't care if their children obtain low grades?
 - Almost all of the parents 1.
 - Most of the parents 2.
 - About half of the parents 3.
 - Some of the parents 4. Almost none of the parents 5.
- 64. How many of the parents of students in this school want feedback from the principal and teachers on how their children are doing in school?
 - Almost all of the parents 1.

 Most of the parents 2.
 - About half of the parents 3.
 - Some of the parents 4. Almost none of the parents 5.
- 65. For each of the following aspects of your job, please indicate in the first column how important it is for your job satisfaction and ir

the second column, how well satisfied you are with that aspect of

your job.

I
Degree of
Importance for your
Job Satisfaction

II Present Level of Satisfaction with job







A.	Salafy: Very important		Very satisfied - 1.
	Important		_Satisfied - 2.
	Somewhat important		Somewhat satisfied - 3.
	Unimportant	- 4.	Dissatisfied - 4.
	Very unimportant	- 5.	Very dissatisfied - 5.
В.	Level of Very important		Very satisfied - 1.
	student Important		Satisfied - 2.
	achievement:Somewhat important		Somewhat satisfied - 3.
	Unimportant		Dissatisfied - 4.
	Very unimportant	- 5.	Very dissatisfied - 5.
c.	Parent/teacher Very important		Very satisfied - 1.
	relationships: Important		Satisfied - 2.
	Somewhat important		Somewhat satisfied - 3.
	Unimportant		Dissatisfied - 4.
	Very unimportant	- 5.	Very dissatisfied - 5.
D.	•		Very satisfied - 1.
	relationships: Important		Satisfied - 2.
	Somewhat important	- 3.	Somewhat satisfied - 3.
	Unimportant	- 4.	Dissatisfied - 4.
	Very unimportant	- 5.	Very dissatisfied - 5.
Ξ.	Teacher/pupil Very important	- 1.	Very satisfied - 1.
	relationships: Important		Satisfied - 2.
	Somewhat important		Somewhat satisfied - 3.
	Unimportant		Dissatisfied - 4.
	Very unimportant		Very dissatisfied - 5.
F.	Teacher/ Very important	- 1.	Very satisfied - 1.
	administration Important		Satisfied - 2.
	relation- Somewhat important	- 3.	Somewhat satisfied - 3.
	ships: Unimportant	- 4.	Dissatisfied - 4.
	Very unimportant	- 5.	Very dissatisfied - 5.
G.	The curricula Very important	- 1.	Very satisfied - 1.
	in your school: Important	- 2.	Satisfied - 2.
	Somewhat important	- 3.	Somewhat satisfied - 3.
	Unimportant	- 4.	Dissatisfied - 4.
	Very unimportant	- 5.	Very dissatisfied - 5.
н.	Teacher Very important	- 1.	Very satisfied - 1.
	autonomy: Important	- 2.	Satisfied - 2.
	Somewhat important	- 3.	Somewhat satisfied - 3.
•	Unimportant		Dissatisfied - 4.
	Very unimportant		Very dissatisfied - 5.
I.		- 1.	.Very satisfied - 1.
	authority over Important		Satisfied - 2.
	students: Somewhat important		Somewhat satisfied - 3.
	Unimportant		Dissatisfied - 4.
	Very unimportant		Very dissatisfied - 5.

		•							
	J.	Teacher	Very	important		Ver	y satisfie		
		evaluation		Important			Satisfie		-
		procedures		imp ort a nt			t satisfie		
		in your		nimportant			is sat i sfie		
		school:	Very u	nimportant	- 5.	Very d	issatisfie	d –	5.
	ν	Recognition	Verv	important	_ 1.	Ver	y satisfie	d -	1.
	к.	for teacher		Important		• • • •	Satisfie		
		achievement	Somewhat	important	_ 3.	Somewha	t satisfie		
		aciitevement	T TOMOWING	nimportant	- 4.		issatisfie		
		-		nimportant nimportant			issatisfie		
	_		••		•			,	,
	L.	Participation	on Very	important	- 1.	ver	y satisfie		
		in making		Important	- 2.	0	Satisfie		
		dec isi ons	Somewhat	important	- 3.		t satisfie		
		within the	٠	nimportant	- 4.		issatisfia		
		building:	very v	inimportant	-).	very d	issatisfie	a -	٥.
66.	Adm:	inistrative (duties, d	ounseling,	handling	of discip	line probl	ems	,
	etc	., are all to	ime consu	ming activ	ities tha	at teachers	mu st a ssu	ыe	
	in a	addition to	Lheir tea	ching resp	onsibliti	les. Ap p ro	ximately w	hat	
	per	centage of a	typical	school day	is spent	on each o	of these ac	tiv	ities
	•	Parent-	teacher o	contacts					
	•			ents, phone			s)		. %
		Conferr	ing with	individual					
			_			emic progre			%
		Conferr	ing with	individual					
							th		%
				sroom or sm			ion		_%
		Establi	shing and	i maintaini	ng order				
			_		in t	the classro	om		%
Ac	n tal	istrative du					ıg)		%
		Time be		sson s (rece					•
		•	childre	en from one	activity	y to anothe	er)		. ×
		Other							%
67.	Whe	t do you con	sider to	be your pr	imarv res	sponsibil i t	ty to stude	nts	in
		class (cir				•	•		
	•	•	•	·	Teaching	g of acader	nic subject	:s -	1.
			Enhan	cing social	skills	and social	interaction	n –	2
							developmen		
			Encou	raging educ	ation/oc	cupational	aspiration	1S -	4.
		Other (pl		cify)					5.
68.	How	successful	ജവിർ ഗവ	u sav vour	school h	as been wi	th regard t	:0	
•••		dent develop					3		
		teaching of							
	•					Ver	successfu	ıl –	1.
	•					- 4	Successfu		
						Somewhat	t successfi	ıl –	3.
			-				y successfu		
					_		, unsuccessfi		
				1	94	•			

Enhancing of social skills: Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. C. Personal growth and development (self-reliance, etc.) Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. D. Educational/occupational aspirations: Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. 69. How responsible do you feel for a student's academic achievement? Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. 70. To what extent do you think that teaching methods affect students' achievement? They have a great deal of effect on student's achievement - 1. They have substantial effect on students' achievement - 2. They have some effect on students' achievment - 3. They do not have much effect on students' achievement - 4. They have no effect at all - 5. 71. To what extent do you think teachers' attitudes toward their students affect their students' achievement? They have a great deal of effect on students achievement - 1. They have substantial effect on students' achievement - 2. They have some effect on students' achievment - 3.

They do not have much effect on students'

achievement - 4.

They have no effect at all - 5.

How do your academic expectations for boys compare with the expectations for girls? I expect boys to-do better - 1. I expect both to do the same - 2. I expect girls to do better - 3. What effect do you think each of the following has on students' academic achievement? A. Parents: They have a great deal of effect on students achievement - 1.

They have substantial effect on students' achievement - 2.

They have some effect on students'

achievment - 3. They do not have much effect on students'

achievement - 4.

They have no effect at all - 5.

Teachers:

They have a great deal of effect on students achievement - 1.

They have substantial effect on students'

achievement - 2.

They have some effect on students'

achievment - 3.

They do not have much effect on students'

achievement - 4.

They have no effect at all - 5.

C. Friends or peer group:

They have a great deal of effect on

students achievement - 1.

They have substantial effect on student

achievement - 2.

They have some effect on student

achievment - 3.

They do not have much effect on student

achievement - 4.

They have no effect at all - 5.

School Boards:

They have a great deal of effect on

students achievement - 1.

They have substantial effect on student

achievement - 2.

They have some effect on student

achievment - 3.

They do not have much effect on student

achievement - 4.

They have no effect at all - 5.



E. Principal:

They have a great deal of effect on

students achievement - 1.

They have substantial effect on student

achievement - 2.

They have some effect on student

achievment - 3.

They do not have much effect on student

achievement - 4.

They have no effect at all - 5.

F. Student himself:

They have a great deal of effect on

students achievement - 1.

They have substantial effect on student

achievement - 2.

They have some effect on student

achievment - 3.

They do not have much effect on student

achievement - 4.

They have no effect at all - 5.

- 74. How often does the principal and/or other administrators in this school assist and give support to the teachers on ways to improve their students' academic achievement?
 - Very often 1.

Often - 2.

Sometimes - 3.

Seldom - 4.

Never - 5.

75. One important criterion for evaluating a teachers' performance should be how well his/her students achieve at a high level.

Strongly agree - 1.

Agree - 2.

Unsure - 3.

Disagree - 4.

Strongly disagree - 5.

76. In this school, there is really very little a teacher can do to assure that all of his/her students achieve at a high level.

Strongly agree - 1.

Agree - 2.

Unsure - 3.

Disagree - 4.

Strongly disagree - 5.

77. When you are trying to improve your instructional program, how easy or difficult is it to get the principal's assistance?

Very easy - 1.

Easy - 2.

Varies from time to time - 3.

Difficult - 4.

Very difficult - 5.



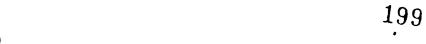
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78. What is your policy with regard to students talking to each other
    while they are working on class assignments? Students are
     encouraged to talk with each other:
                                                                 Never - 1.
                                                                Seldom - 2.
                                                             Sometimes - 3.
                                                                 Often - 4.
                                                         Almost always - 5.
79. How do you feel about students walking around in the classroom?
     Students are allows to move about the room without first getting
     permission:
                                                                 Never - 1.
                                                                Seldom - 2.
                                                             Sometimes - 3.
                                                                 Often - 4.
                                                         Almost always - 5.
80. What kind of seating arrangement do you have in your class(es)?
                               Students always select their own seats - 1.
                            Generally students select their own seats - 2.
                 Some students select their seats; some are assigned - 3.
                                      Generally teacher assigns seats - 4.
                                          Teacher always assigns seats - 5.
    In your class(es), how often are students' seats changed?
                                                    Several time a day - 1.
                                                                 Daily - 2.
                                     Periodically during the semester - 3.
                     They keep the same seats throughout the semester - 4.
82. How often do you work with your class as a whole?
                                                                Always - 1.
                                                                 Often -2.
                                                             Sometimes - 3.
                                                                Seldom - 4.
                                                                 Never - 5.
83. How often are all of your students working on the same lesson?
                                                                Always - 1.
                                                                 Often - 2.
                                                             Sometimes - 3.
                                                                Seldom - 4.
                                                                 Never - 5.
     How would you characterize your teaching objectives?
                                    They are the same for all students - 1.
                           They are the same for most of the students - 2.
```



They are the same for some of the students - 3. They are different for most of the students - 4.

They are different for each student - 5.

85.	How important are each of the following in objectives for your students? A. School policy:	determining teaching
	•	Very important - 1.
		Important - 2.
		Somewhat important - 3.
		Not very important - 4.
		Not important at all - 5.
	B. Student interest:	
		Very important - 1:
		Important - 2.
		Somewhat important - 3.
		Not very important - 4.
		Not important at all - 5.
	C. Individual student ability:	
		Very important - l.
	•	Important - 2.
		Somewhat important - 3.
		Not very important - 4.
		Not important at all - 5.
	D. Your personal preference:	
		Very important - 1.
		Important - 2.
		Somewhat important - 3.
		Not very important - 4.
		Not important at all - 5.
86.	Do you have a teacher aide?	
		Yes - 1.
		No - 2.
87.	What proportion of your students' parents	
		Nearly all - 1.
		About $75\% - 2$.
		About 50% - 3.



About 25% - 4. Only a few - 5.

Appendix Ten

PRINCIPAL QUESTIONNAIRE

THE INFORMATION YOU GIVE US ON THIS QUESTIONNAIRE IS COMPLETELY CONFIDENTIAL. NO ONE WILL SEE YOUR ANSWERS EXCEPT THE MEMBERS OF OUP RESEARCH STAFF. REPORTS WILL BE MADE WITH AGGREGATE DATA, AND NO ONE PERSON WILL BE IDENTIFIED WITH HIS OR HER DATA. AFTER YOUR QUESTIONNAIRE HAS BEEN COMPLETELY CODED AND PUNCHED ON 1BM CARDS (WITHOUT YOUR NAME), YOUR QUESTIONNAIRE WILL BE DESTROYED. COMPLETE CONFIDENTIALITY IS ASSURED.

- 1. Please write the name of this school.
- 2. Sex (circle the number of the correct answer)?
- female 1.
 - male 2.

3. What is your race or ethnic group?

- Black 1.
- Chicano 2.
- Other Spanish Speaking 3.
 - Native American 4.
 - Oriental Origin 5.
 - White 6.
- 4. How long have you been the principal of this school?
 - Just this year 1.
 - 1 to 4 years 2.
 - 5 to 9 years 3.
 - 10 to 14 years 4. 15 or more years - 5.
- 5. How long have you been a principal?

- Just this year 1.
 - 1 to 4 years 2.
 - 5 to 9 years 3.
- 10 to 14 years 4.
- 15 or more years 5.
- 6. How long did you teach before becoming a principal?
- Never taught 1.
- 1 to 4 years 2.
- 5 to 9 years 3.
- 10 to 14 years 4.
- 15 years or more 5.
- 7. How did you feel about your assignment to this school before you came here?
 - Very happy 1.
 - Happy -2.
 - Somewhat happy 3.
 - Quite unhappy 4.
 - Very unhappy 5.



```
8. Which best describes the location of your school?
                                                       In a rural area - 1.
                                               In a residential suburb - 2.
                                               In an industrial suburb - 3.
                                       In a small town (5,000 \text{ or less}) - 4.
                                          In a city of 5,000 to 50,000 - 5.
                 In a residential area of a larger city (over 50,000) - 6.
                     In the inner part of a larger city (over 50,000) - 7.
9. Which best describes the pupils served by this school?
                All children of professional and white collar workers - 1.
             Mostly children of professional and white collar workers - 2.
                     Children from a general cross section of society - 3.
             Mostly children of factory and other blue collar workers - 4.
                All children of factory and other blue collar workers - 5.
                                            Children of rural families - 6.

    How many families of your students are represented at a typical

     meeting of the PTA or similar parent group?
                                       We have no parents organization - 1.
                                                             Only a few - 2.
                                                        Less than half - 3.
                                                             About half - 4.
                                                              Over half - 5.
                                                    Almost all of them - 6.
11. About what is the average daily percentage of attendance in your
     school?
                                                               Over 98% - 1.
                                                              97\% - 98\% - 2.
                                                              95% - 96% - 3.
                                                              93% - 94% - 4.
                                                              91\% - 92\% - 5.
                                                              96% - 90% - 6.
                                                            85% or less - 7.
12. What percentage of your students this year are transfers from
     another school? (Do not count students who had completed the highest
     grade in the school from which they came.)
                                                                 0 - 4\% - 1.
                                                                5% - 9% - 2.
                                                              10\% - 14\% - 3.
                                                              15% - 19% - 4.
                                                              20% - 24% - 5.
                                                            25% or more - 6.
13. What is the lowest grade in your school?
                                                           Kindergarten - 1.
                                                                    1st - 2.
                                                                    2nd - 3.
                                                                    3rd - 4.
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4th - 5.

14.	What is the highest grade in your school?
	5th - 1. $6th - 2.$
	7th - 3.
	8th - 4.
	9th - 5.
	·
15.	What percent of students in your school receives free lunches each day
	None - 1.
	9% or less - 2.
	10% - 30% - 3.
	31% - 50% - 4.
	51% - 70% - 5.
	71% - 90% - 6.
	More than $90\% - 7$.
	There is no free lunch program - 8.
16.	In your judgment, what is the general reputation of this school
	among educators?
	Among the best - 1.
	Better than average - 2.
	About average - 3.
	Below average - 4.
	Inferior - 5.
17	With regard to student achievement, how would you rate this school?
17.	Among the best - 1.
	Better than average - 2.
	About average - 3.
	Below average - 4.
	Inferior - 5.
	interior - 5.
18.	With regard to student achievement, how good a school do you think
	this school can be?
	Among the best -1 .
	Better than average - 2.
	About average - 3.
	Below average - 4.
	Inferior - 5.
19.	What do you consider to be the school's primary responsibility to the students?
	Teaching of academic subjects - 1.
	Enhancing social skills - 2.
	Personal growth and development - 3.
	Educational/occupational aspirations - 4.
	Other (please specify) 5.
	· · · · · · · · · · · · · · · · · · ·

20. How successful would you say your school has been with regard to student development in the following areas?

Teaching of academic skills: Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. Enhancing social skills (social interaction, etc.): Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. C. Personal growth and development: Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. D. Educational/occupational aspirations: Very successful - 1. Successful - 2. Somewhat successful - 3. Not very successful - 4. Very unsuccessful - 5. WE WOULD NOW LIKE TO ASK YOU SOME QUESTIONS ABOUT GROUPING PRACTICES, TEACHER CREDENTIALS AND TESTING PROCEDURES IN YOUR SCHOOL. PLEASE FEEL FREE TO WRITE ANY ADDITIONAL COMMENTS AFTER EACH QUESTION. In general, what grouping procedure is practiced across sections of particular grade levels in this school? Homogeneous grouping according to ability - 1. Heterogeneous grouping according to ability - 2. Random grouping - 3. No intentional grouping - 4. In general, what grouping procedure is practiced within individual sections of particular grade levels of this school? Homogeneous grouping according to ability - 1. Heterogeneous grouping according to ability - 2. Random grouping - 3. No intentional grouping - 4. To what extent do the upper elementary teachers, 3-6 grades, individualize the instructional programs for their students? All plan individual programs for most students - 1.

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Individualization varies from teacher to teacher and time to time - 3.

Most teachers have common instructional programs for their students - 4.

All teachers have common instructional programs for their students - 5.

Most teacher have some individualized programs - 2.

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24. Do you have any non-graded classrooms for children over eight years
     of age in this school?
                                               Yes, all are non-graded - 1.
                                              Yes, some are non-graded - 2.
                             No, we haven't any non-graded classrooms - 3.
25. What proportion of the third grade classrooms in your school
     have teacher aides?
                                                                   All - 1.
                                                                  Some - 2.
                                                                  None - 3.
26. How many teachers in this school have at least a Bachelor's degree?
                                                                   A11 - 1.
                                                           75% or more -2.
                                                             50\% - 74\% - 3.
                                                         Less than 50% - 4.
27. How many teachers in this school have a temporary teaching
     certificate?
                                                            75% or more - 1.
                                                              50\% - 74\% - 2.
                                                              25\% - 49\% - 3.
                                                         Less than 25% - 4.
28. How many teacher in this school have a permanent teaching certificate."
                                                            75% or more - 1.
                                                              50% - 74% - 2.
                                                              25% - 49% - 3.
                                                          Less than 25% - 4.
29. How many teachers in this school have a graduate degree?
                                                            75% or more - 1.
                                                              50% - 74% - 2.
                                                              25% - 49% - 3.
                                                          Less than 25% - 4.
     In what grade does your school give intelligence or aptitude tests
      to the students (circle all that apply)?
                                                              lst grade - 1.
                                                              2nd grade - 2.
                                                              3rd grade - 3.
                                                              4th grade - 4.
                                                              5th grade - 5.
                                                              6th grade - 6.
                                    Do not give I.Q. or aptitude tests - 7.
      In what grade does your school give standardized achievement tests
      to students? (Circle all correct answers. Do not include State
      Assessment.)
                                                              lst grade - 1.
                                                              2nd grade - 2.
                                 205
                                                              3rd grade - 3.
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4th grade - 4.

5th grade - 5.

I.Q. or aptitude score when planning his work?	consider, a student
	Always - 1.
	Often - 2.
	Sometimes - 3.
	Seldom - 4.
	Never - 5.
33. In this school, how often are students assigned to on the basis of their I.Q. or aptitude scores?	co certain classes
	Always - 1.
	Often - 2.
	Sometimes - 3.
	Seldom - 4.
	Never - 5.
34. Which of the following do you think best predicts of failure in higher education?	s a pupil's success
Teacher	recommendations - 1.
Group or individual intelligence or scholastic aptit	ude test scores - 2.
Other standardized test scores (e.g., personality	
and vocational inv	ventories, etc.) - 3.
	School grades - 4.
	Other - 5.
PLEASE ANSWER EACH OF THE FOLLOWING QUESTIONS BY CIKCITHE CHCICE WHICH MOST NEARLY ANSWERS THE QUESTION FOR	
35. On the average, what achievement level can be exp students in this school?	pected of the
Much abov	ve national norm - 1.
Slightly above	e national norm - 2.
. Approximately a	at national norm - 3.
	ow national norm - 4.
Much belo	ow national norm - 5.
36. What percent of the students in this school do yo	ow national norm - 5.
	ow national norm - 5.
36. What percent of the students in this school do yo	ow national norm - 5.
36. What percent of the students in this school do yo	ow national norm - 5. tu expect to complete 90% or more - 1.
36. What percent of the students in this school do yo	ow national norm - 5. The expect to complete 90% or more - 1. 70% - 89% - 2.
36. What percent of the students in this school do yo	ow national norm - 5. Eu expect to complete 90% or more - 1. 70% - 89% - 2. 50% - 69% - 3.
36. What percent of the students in this school do yo high school?37. What percent of the students in this school do you	90% or more - 1. 70% - 89% - 2. 50% - 69% - 3. 30% - 49% - 4. Less than 30% - 5.
36. What percent of the students in this school do you high school?	90% or more - 1. 70% - 89% - 2. 50% - 69% - 3. 30% - 49% - 4. Less than 30% - 5.
36. What percent of the students in this school do yo high school?37. What percent of the students in this school do you	90% or more - 1. 70% - 89% - 2. 50% - 69% - 3. 30% - 49% - 4. Less than 30% - 5. 90% or more - 1. 70% - 89% - 2.
36. What percent of the students in this school do yo high school?37. What percent of the students in this school do you	90% or more - 1. 70% - 89% - 2. 50% - 69% - 3. 30% - 49% - 4. Less than 30% - 5. bu expect to 90% or more - 1.
36. What percent of the students in this school do yo high school?37. What percent of the students in this school do you	90% or more - 1. 70% - 89% - 2. 50% - 69% - 3. 30% - 49% - 4. Less than 30% - 5. 90% or more - 1. 70% - 89% - 2.

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What percent of the students in this school do you expect to
    complete college?
                                                           90% or more - 1.
                                                             70% - 89% - 2.
                                                             50\% - 69\% - 3.
                                                             30% - 49% - 4.
                                                         Less than 30\% - 5.
39. How many of the students in this school are capable of getting
     good grades?
                                                           90% or more - 1.
                                                             70% - 89% - 2.
                                                             50% - 69% - 3.
                                                             30\% - 49\% - 4.
                                                         Less than 30% - 5.
40. How would you rate the academic ability of the students in this school
     compared to other schools?
                                           Ability here is much higher - 1.
                                       Ability here is somewhat higher - 2.
                                        Ability here is about the same - 3.
                                        Ability here is somewhat lower - 4.
                                            Ability here is much lower - 5.
41. The parents of students in this school regard this school as primarily
     a "babysitting" agency.
                                                        Strongly agree - 1.
                                                                 Agree - 2.
                                                                 Unsure - 3.
                                                               Disagree - 4.
                                                     Strongly disagree - 5.
     The parents of students in this school are deeply concerned that
     their children receive a top quality education.
                                                        Strongly agree - 1.
                                                                 Agree - 2.
                                                                 Unsure - 3.
                                                               Disagree - 4.
                                                      Strongly disagree - 5.
     How many of the parents of students in this school expect their
     children to complete high school?
                                             Almost all of the parents - 1.
                                                   Most of the parents - 2.
                                             About half of the parents - 3.
                                                    Some of the parents - 4.
                                            Almost none of the parents - 5.
     How many of the parents of students in this school expect their
     children to complete college?
                                             Almost all of the parents - 1.
                                                   Most of the parents - 2.
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About half of the parents - 3.

Almost none of the parents - 5.

Some of the parents - 4.

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45.	How many of the parents of students in this school don't care if their children obtain low grades?
	Almost all of the parents - 1.
	Most of the parents - 2.
	About half of the parents - 3.
	Some of the parents - 4.
	Almost none of the parents - 5.
46.	How many of the parents of students in this school want feedback from
	the principal and teachers on how their children are doing in school?
	Almost all of the parents - 1. Most of the parents - 2.
	About half of the parents - 3.
	Some of the parents - 4.
	Almost none of the parents - 5.
47.	What proportion of the teachers in this school would prefer to be
	teaching in another school?
	About all - 1.
	About $75\% - 2$.
	About half - 3.
	About 25% - 4.
	Almost none - 5.
48.	A typical teacher in this school has some contact with:
•	All of the parents - 1.
	Most of the parents - 2.
	Some of the parents - 3.
	A few of the parents - 4.
	None of the parents - 5.
49.	How much contact does a typical teacher in this school have with most of the parents?
	. About once a month or more - 1.
	About two times a semester - 2.
	About once a semester - 3.
	Once a year or less - 4.
50.	Approximately what percentage of a typical school day does the average teacher spend on each of these activites? Farent-teacher contacts
	(notes to parents, phone calls, conferences) %
	Conferring with individual students
	(about academic progress)%
	Conferring with individual Students
	(about behavior, social growth, responsibility) %
	Administrative duties (attendance taking, noting
	Administrative duties (attendance taking, noting pupil progress, filling out report cards) Establishing and maintaining order in the classroom Classroom and small group instruction
	Establishing and maintaining order in the classroom
	Time between lessons (before and after recess, moving children from one activity to another) Other (specify)
	moving children from one activity to another)
	momet y
	162 208 TOTAL X

51. Evaluating teachers' performance is an important and often difficult task for principals. When evaluating a teacher's performance, how much importance do you place on his/her students' academic achievement? It is very important - 1. It is quite important - 2. It is somewhat important - 3. It is not very important - 4. It is not important at all - 5. 52. As a principal, how much effect do you think you have on students' academic achievement? Very great effect - 1. Substantial effect - 2. Some effect - 3. Very little effect - 4. No effect at all - 5. 53. What percentage of the students in this school do you feel are capable of learning to read by the end of second grade? 100% - 1. 90% - 99% - 280% - 89% - 3. 70% - 79% - 4. 50% - 69% - 5. Less than 50% - 6. 54. What effect do you think each of the following has on students' academic achievement in this school? Parents: They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2. They have some effect on student achievement - 3. They do not have much effect on student achievement - 4. They have no effect at all - 5. Teachers: They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2. They have some effect on student achievement - 3. They do not have much effect on student achievement - 4. They have no effect at all - 5. C. Friends or peer group: They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2. They have some effect on student achievement - 3.



They do not have much effect on student achievement - 4.

They have no effect at all - 5.

D. School boards: They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2. They have some effect on student achievement - 3. They do not have much effect on student achievement - 4. They have no effect at all - 5. E. Principal: They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement -2. They have some effect on student achievement - 3. They do not have much effect on student achievement - 4. They have no effect at all - 5. F. Student himself: They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2. They have some effect on student achievement - 3. They do not have much effect on student achievement - 4. They have no effect at all - 5. 55. How often do you suggest ways of improving student achievement to your teachers? Very often - 1. Often - 2. Sometimes - 3. Seldom - 4. Never - 5. 56. How often do you meet with the teachers as a group to discuss ways of improving student achievement? Very often - 1. Often - 2. Sometimes - 3. Seldom - 4. Never - 5. To what extent do you think teaching methods affect students' academic achievement? They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2. They have some effect on student achievement - 3. They do not have much effect on student achievement - 4. They have no effect at all - 5. To what extent do you think that a teacher's attitude toward his/her students affects students' academic achievement? They have a great deal of effect on student achievement - 1. They have substantial effect on student achievement - 2.

They have some effect on student achievement - 3.

They have no effect at all - 5.

They do not have much effect on student achievement - 4.

59. To what extent do you think the degree to which their students achieve grade level in learning should be considered in evaluating a teachers' competence? Very much - 1. Some -2. Not much - 3. Not at all - 4. If the teachers and other staff members in this school were all doing their job well, nearly all of the students would achieve at grade level. Strongly agree - 1. Agree - 2. رد - Unsure Disagree - 4. Strongly disagree - 5. It is the principal's responsibility to work with the teachers to insure that their students achieve at a high level. Strongly agree - 1. Agree - 2. Unsure - 3. Disagree - 4. Strongly disagree - 5. It is possible for a principal, with the cooperation of the teachers, to change a low achieving school into a high achieving school. Strongly agree - 1. Agree - 2. Unsure - 3. Disagree - 4. Strongly disagree - 5. 63. How would you characterize the achievement objectives in this school? Same for all students - 1. Same for most students - 2. Different for most students - 3. Different for all students - 4. 64. About what proportion of teachers in this school assign seats to their students? Almost all of the teachers - 1. Nost of the teachers - 2. About half of the teachers - 3. Some of the teachers - 4. Almost none of the teachers - 5. 65. About what proportion of teachers in this school allow their students to move about the classroom without first asking permission?



Almost all of the teachers - 1.

About half of the teachers - 3.

Almost none of the teachers - 5.

Most of the teachers - 2.

Some of the teachers - 4.

66.	What proportion of the classrooms in your school have teacher aides? $\begin{array}{cccccccccccccccccccccccccccccccccccc$
67.	What percentage of your time in a typical week is devoted to each of the following activities? Long range curriculum planning % Supervision of instructional staff % Supervision of non-instructional staff %
	Parent and community concerns %
	Discipline %
	Other administrative duties %
	TOTAL %
68.	What proportion of the students' parents do you know when you see them? Nearly all -1 . About $75\% - 2$. About $50\% - 3$. About $25\% - 4$. Only a few -5 .

Appendix Eleven



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