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ABSTRACT

A first-year report of the South East Education Development (SEED) project, an organization between the community-at-large and the schools in a disadvantaged section of San Francisco, California, is presented. The author first lists major findings about the primarily Negro first-grade students as a group and an introduction which refers to the nature of the competent pragmatic test and the empirical basis for this review. Then separate sections discuss pupil attendance patterns, teacher evaluation of reading, and achievement test results. In general, the students were found to be slightly below grade level but working at a satisfactory pace. Other findings were (1) that no significant differences between boys and girls were manifested in relation to age, attendance, and reading stanine scores; (2) that attendance and reading achievement were significantly related; (3) that class size and monthly reading achievement rates were not significantly related; and (4) that SEED-project first graders performed significantly better than first graders in the same schools the previous year. It was therefore concluded that SEED demonstrated its efficacy in promoting reading growth. Tables are included. (AW)

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THE UNIVERSITY OF SAN FRANCISCO Educational Planning Laboratory

FIRST GRADE STUDENTS IN THE HUNTERS POINT-BAYVIEW SEED PROJECT:

A DIAGNOSTIC REVIEW

U. S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE OFFICE OF EDUCATION

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by

James Steve Counelis Associate Professor of Education

San Francisco, California

August 15, 1970

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Fremont:

Hunters Point II:

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Alice Banks Thelma Crawford +May Duty +Nellie Marzett Bessie Mosley +Deloris Patton +Jerline Penn Aresa Senegal +Helen Sterling Norma Whitfield

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Patricia Crocker (Principal) Dorothy Costa Betty Hudson Lida Opalenik Susan Sanford Deanna Yee

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PREFACE

All tasks begin with anticipation, anxiety, and hope. So it was with the South East Educational Development in the Hunters Point-Bayview area of San Francisco, California. It is a novel social invention, the import of which will be great if it works and achievesmost of its goals. If this first year's work is the harbinger of good educational things to come, the SEED project can be revolutionary in influence. Perhaps this new invention of a democratically based interstitial organization between the community-at-large and the schools is the cutting edge for future creativity in education and educational responsibility.

There is much to admire in the SEED projects efforts and educational progress in first grade reading education as the reader will see for himself further in this diagnostic review. However, the work of this diagnostic reviewer was hampered by recent policies of the Unified School District of San Francisco in relation to the use of ability or so called I.Q. tests in the evaluational work of programs. Explicitly, Mr. Yvon O. Johnson's memorandum of May 11, 1970 is the current embodiment of that policy. The complete text of this memorandum is found in Appendix I. Its essence is the prohibition of ability tests for program evalua-tion purposes. Though there are many reasons why this policy came into being and effect, the accounting for variance in achievement test results is not possible without external criterion measures of a standardized variety. This writer believes that this policy is too stringent in character. He also believes that this was not the original intent of the board policy, viz., to hamper educational evaluation of programs. Allowance for ability tests in program evaluations is not only appropriate but needed. Ignorance is no substitute for science; and the argument from silence is no argument at all.

The preparation of this diagnostic review has been possible because many persons cooperated. I am indebted to the Reverend Charles H. Lee and his entire SEED staff for their unqualified aid and service. And in particular I am moved to cite with pleasure my gratitude to Robert L. Fisher, SEED Supervisor of Education, who without stint gave cheerfully of his time, his knowledge, his office resources and his insightful competence into primary education. In particular, his general review of the findings was appreciated; and I was gratified to know that he found nothing at variance or inconsistent with his intimate knowledge of the total SEED educational enterprise.

Further, I must note with special regard the computer programming work of Hugh James Everett, doctoral student in computer sciences in the University of California-Berkeley. His conscientiousness and fortitude is appreciated; and the results he produced through that almost magical instrument, Berkeley's 6400 computer, is a significant contribution to this review.

To Mrs. Shirley A. Griffith and Miss Alvina A. Lee of the secretarial staff of the Department of Education, I am grateful. The expert typing services of this manuscript and the drafting work on the tables are important contributions which make this review what it physically is.

To Dr. Robert G. Lamp, Director of the Educational Planning Laboratory in the University of San Francisco and my colleague on the education faculty, I owe much. I am grateful to him for the opportunity to work on this project and learn from it a great deal. Also, I am appreciative of his aid and support when the chips were down and time was running out.

And to my wife Anna and my two boys, Steven and George, I owe much in affection; for, I have received much in wifely support and mountains of child tolerance for a tired and perhaps grumpy father during these last several weeks.

Of course, the results of this review are mine; and the responsibility for them rests with me.

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August 15, 1970, The University of San Francisco, San Francisco, California.

A LIST OF MAJOR FINDINGS

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The following findings of this diagnostic review are about the SEED project first grade students as a group. These findings are subject to the qualifications that arise from the variability found at the levels of the school, the classroom, and the individual pupil.

1. SEED project first grade pupils earned for their schools significantly higher mean grade equivalent scores in reading than the first grade pupils in the same schools of the prior school year.

2. SEED project first grade students' monthly reading achievement rate was .91 for each month of instruction within the project. This was slightly less than the normal rate of one month's achievement for each month of instruction (1.00).

3. SEED project first grade students' mean grade equivalent score in reading was 1.7, which indicates a two month reading disability according to the standard set by the San Francisco Unified School District.

4. SEED project boys and girls did not differ in terms of age, attendance, or earned stanine scores on the standardized reading test.

5. SEED project first grade students' achievement appeared to be related significantly to attendance.

6. SEED project teacher; subjective and experientially based estimates of their pupils' within-grade levels capacities were validated by achievement test results at the one percent level of significance.

7. SEED project first grade students' achievement did not appear to be related to class size.

INTRODUCTION

Inventions and innovations are products of the human intellect. Their early merit is wholly abstract. Such merit as they appear to have seems to rest upon some imaginative or insightful novelty that is related, ostensibly, to the real world and its real problems. Successful inventions and innovations are those which withstand the pragmatic test as to whether the idea, or invention, or innovation works in ordinary use. Hence federalism and regional government, intelligence and projective tests, the computer and the airplane have been tried and found to work in ordinary use. This writer knows of no such success for the ordinary use of rain dances, exorcisms, or dowsing rods even under the best of circumstances.

A competent pragmatic test is one in which reality-testing and feedback obtains to the creators or users of the idea or object under test. Such a pragmatic test is facilitated by independent examiners and observers who have no vested interest in the test's outcome. Through independent observers and empirical data competently designed and gathered and interpreted, the competent pragmatic test seeks to establish in an explicit manner the following about the object under test: (1) design simplicity; (2) rigor and robustness under use; (3) stability of functional

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success over time. In this regard, the work of the Consumers' Union comes to mind.

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The South East Educational Development is a social invention, founded and established within the Hunters Point-Bayview area of San Francisco, California. This part of San Francisco is a classic "across the tracks" industrial slum. It is the area of San Francisco greatest poverty. About a third of the families live in a temporary housing section; the other two-thirds live in permanent low-cost housing in the surrounding area. World War II housing is now deteriorated, dilapidated, and damaged by acts of vandalism. The unemployment rate is estimated to be between 10 to 15 percent where the metropolitan rate is 4.4 percent. Almost 25 percent of the Hunters Point families have incomes less than \$3000 as compared with 13 percent for such families in the city at large. The educational level of the Hunters Point-Bayview area is below that of the city. Thirty percent have less than an eighth grade education when compared with 17 percent for the city. Only 10 percent of the adults have completed four years of high school as compared with 27 percent for the city. Of the residents between the ages of 15-34 who attend college, there are 3.3 percent as compared with 10.1 percent for the city at large. And the State Testing Program of 1966-1967 showed that the students were well below the city averages in reading. The school dropout rate for this area is 22.5 percent as compared with 8.7 for the city. To create breakthroughs in resolving the educational plight of the people in the Hunters Point-Bayview area, the SEED project has as its intention the development of a community-school organization to improve the education of the elementary school child in the area. In the words of the project writers:

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[SEED seeks] to establish an exemplary model of community organization. . .which will foster. . .a more meaningful, intellectually productive, and personally satisfying education[al] program for the children in the elementary schools of the Hunters Point-Bayview District.

The pragmatic test here is whether an "intellectually productive" education has been obtained under the community-school organization thus far developed. That is one of the purposes of this study. That is its objective part.

But more importantly, this report is designed for a use. It is designed to be <u>a diagnostic review</u> and not a judgment. Its use is <u>to provide guidance in program development</u> for the second and third years of the project's life. This guidance is for the professional staffs of the schools, the SEED staff, and the parents of the children in the program. To assign lauds and blames is easy; but it is not productive of progress and success. The education of children is too important to wait upon problems of community frictions, interpersonal rivalries, and self-gratification through power.

The SEED project schools are eight in number. The seven public schools are: (1) Bayview; (2) Bret Harte; (3) Burnett; (4) Fremont; (5) Hunters Point II; (6) Jedediah Smith; (7) SirFrancis Drake. All Hallows is the one private school, a RomanCatholic institution.

As school plants go, Bret Harte, Burnett, Fremont, Jedediah Smith and Sir Francis Drake are in reasonably good condition, having been built in the mid 1950's. The Bayview School was built in 1908. It is scheduled for razing and replacement, though this appears to have been delayed at present. However, Hunters Point II consists of ramshackle 1944 wooden portables of the worst description. Also, Jedediah Smith and Sir Francis Drake schools have annex buildings of the same vintage and variety as the 1944 wooden portables of Hunters Point II. Though the Unified School District of San Francisco has approved recently the building of a new school building in Hunters Point, the availability of that plant will be at least some four years in the future.

It is in this milieu that the SEED project operates. This report will provide a descriptive analysis of the first grade children in the SEED projects eight schools. Full or partial records of 568 boys and girls are the basis of this review. The SEED project, being in operation for one year, had as its goal to work on first grade programs in reading and mathematics.

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THE EMPIRICAL BASIS FOR THIS DIAGNOSTIC REVIEW

Through the cooperation and service of the SEED office staff, the principals, and the classroom teachers, a set of empirical data was obtained on the first grade students under the SEED Project's funding. These data were: (1) student's name; (2) student's birthday: month and year; (3) student's sex; (4) the number of full days in attendance in the program; (5) teacher's estimate of the student's reading level: below grade, at grade, and above grade levels; (6) the grade for reading assigned by the teacher at the end of the school term; (7) the stanine score and the grade equivalent score earned by the student on the <u>Stanford Achievement</u> <u>Test: Primary I for Grade 1 - Reading, Form W given in Spring 1970.</u>

Two other pieces of data were collected; but they were not used in this review. These were: (1) teacher's estimate of student's arithmetic level: below grade, at grade, above grade levels; (2) the arithmetic grade assigned by the teacher at the end of the school term. Inasmuch as an achievement examination in arithmetic had not been administered as it had been for reading, the absence of such an external criterion measure made it impossible to make a reasonable diagnostic opinion on achievement in arithmetic.

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Even in the best of all possible worlds of Dr. Pangloss, complete records on every child are not possible. Every researcher

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expects to find a certain number of partial records. But it was unfortunate for this review that about 23 percent of the total students' records are partial in respect to significant data. Particularly difficult is the fact that 49 percent of the Bayview School's student records and 83 percent of the student records from the Jedediah Smith School are partial in significant data. Nonetheless, these gaps do not constitute an insurmountable deterrent toward achieving a reasonable, useful, and meaningful diagnostic review. See Tables Nos. 1 and 2 for the number, the particular areas of data, as well as the schools and classes for which student records are partial in a significant degree.

This diagnostic review will not attempt to study the several curricular approaches to the teaching of first grade reading in the several SEED schools. These problems are not amenable to <u>post hoc</u> educational analysis. Though very complex, such problems are amenable to systematic inquiry, given the development and correct installation of the research design into the reading curricula so that the data collection becomes an integral and unobstrusive routinized element planned into the learning process of the children. This was not the case during this first year of SEED.

NON-ACADEMIC CHARACTERISTICS OF SEED FIRST GRADERS

The ethnic composition of the SEED schools typify the current industrial slum. The first graders in the Hunters Point-Bayview area schools are over 90 percent negro. See Tables Nos. 3a and 3b for the ethnic composition of the first grade classes for the academic years of 1968-1969 and 1969-1970. This data on the ethnic composition of the schools was provided by the records of the SEED Office.

The proportional distribution of boys and girls in the 1969-1970 SEED project first graders is 54 percent and 46 percent, respectively. Though All Hallows and Sir Francis Drake have more girls than boys, the reverse is true for the other schools. See Table No. 4 for the data.

As would be expected of first graders entering the second grade, the mean age for all students is seven years. See Table No. 5 for frequency and proportional distribution of SEED first grade pupils by school and sex. The decimal ages were calculated as of June 1970.

ATTENDANCE PATTERNS

School attendance is an empirical indicator of the child's availability and opportunity for instruction. Of course, the lower the attendance record, the lower the student's opportunity to learn, given the desperate economic circumstances of the majority of the Hunters Point-Bayview parents.

But attendance in school is an empirical indicator of the degree of rapport, cordiality and cooperation between parents and the school. The reasoning is, the closer the cooperation between parent and school, the higher the attendance of the child. The higher the attendance of the child in school, the greater the opportunity for a given child to learn.

The total number of days in the academic year of 1969-1970 was 181. For all the SEED schools' first graders, the mean full days in program was 152 days. The range of this statistic was from Hunters Point II mean of 132 days to All Hallows' mean of 169 days. See Table No. 6 for these statistics by school and sex.

Attendance can be stated more cogently in terms of the percent of the base of 181 days of school. For all schools, the first grade boys and girls had a mean percent of 83. The range of mean percent days in attendance is from Hunters Point II mean of 73 percent to All Hallows mean percent of 93. See Chart No. 7.

There is another way to look at attendance of SEED project first graders, that being the percent of the number of students attending school more than 81 percent of the time. In this regard for all SEED school first graders, 76 percent of the children attended more than 81 percent of the total school calendar of 181 days. This statistic ranges from Hunters Point II where only 50 percent of the children attended more than 81 percent of the time to All Hallows where 98 percent of the children attended more than 81 percent of the total school days. See Table No. 7 for the details of this statistic by school and by sex.

If there is any one issue upon which the SEED organization, the schools and the parents can work cooperatively and with immediate results, that issue is improvement of attendance. It is important, necessary and vital to young lives being molded. It has been suggested that school attendance is a function of the degree of cooperation existing between the school and the parents. It appears that much needs to be done in this area. Further in this report, the connection between school attendance and learning will be demonstrated empirically.

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TEACHER EVALUATION OF READING

Under procedures of the Unified School District of San Francisco, the evaluation of primary students is done on a twofold basis. On her practical but subjective experience with the students (this is especially true with first grade pupils), the teacher estimates the within-grade capacity level of each child. These estimates of the within-grade capacity are designated below with a numerical score attached to each:

(a) Above Grade Level = 1;
(b) At Grade Level = 2;
(c) Below Grade Level = 3.

Table No. 8 provides the mean of the within-grade teacher estimates of the SEED project first graders for all schools, for individual schools, and by sex. A cursory reading of this table shows that the teachers tend to rate their students to be "At Grade Level" (2) or slightly below. It appears to be fairly universal as demonstrated by the fact that the standard deviations are about two-thirds of a grade level point. Further evidence is given in the frequency distribution of students placed within these categories because more than one-half of the students tend to be classed within the categories "Above Grade Level" and "At Grade Level," though this does vary with the particular school and teacher.

The second part of the teacher evaluation for primary students is the assignment of grades within each of the above noted within-grade estimates of student capacity. The grades given, along with their numercial value, are:

(a) Excellent = 1;
(b) Very Good = 2;
(c) Satisfactory = 3;
(d) Improvement Needed = 4.

In the first grade, however, the grade of "Excellent" (1) is never awarded. The highest grade possible is "Very Good" (2). Table No. 9 provides the mean grade for SEED first graders. For the most part, the grade of "Satisfactory" (3) is awarded. This appears to be fairly universal as witnessed by the standard deviations of about two-thirds of a grade point. The frequency distribution of SEED first graders within the grade categories given above further supports this contention because about two-thirds to three-fourths of these pupils were placed in the grade categories "Very Good" and "Satisfactory," though this varies with school and particular teachers.

In a collective sense, the SEED teachers' assessment of their first grade scholars is quite obvious. These teachers believe that their pupils are at grade level and doing satisfactorily therein. See Tables Nos. 8 and 9 for the detailed statistics upon which this assertion is built. A comparison of these assessments will be made with the external criterion of a standardized reading test.

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ACHIEVEMENT TEST RESULTS

In May 1970, the first grade SEED project students were tested with the <u>Stanf_rd Reading Achievement Examination, Form W</u> for the first grade. Two scores were recorded for each child taking the examination: (1) a stanine score; (2) a grade equivalent score.

Stanine scores are convenient derived scores which provide useful categories within which students rank themselves. The following within-grade categories are defined by stanine scores:

(a) Below Grade Level: 1, 2, 3;
(b) At Grade Level: 4, 5, 6,;
(c) Above Grade Level: 7, 8, 9.

Found in Table No. 10, the overall mean stanine score for SEED project first graders was 3.5 which is at the upper end of the "Below Grade Level" category. Only the Burnett School had earned a mean stanine score of 5.1 which is clearly in the middle of the category labeled "At Grade Level."

As rankings, stanine scores do not provide a useful unit for measuring educational change in terms of time. A means of doing this is the grade equivalent score. The grade equivalent score is a decimal number in which the whole number represents

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the grade year and the fractional tenths represent the number of calendar months within a ten month academic year. Thus a grade equivalent score of 3.4 is interpreted to mean the achievement that is commensurate with that found at the fourth month of the third grade in some objectively tested subject matter field.

The mean grade equivalent score for all SEED first graders is 1.7, <u>viz</u>., achievement in reading commensurate with a norm population at the seventh month in the first grade. This mean grade equivalent score suggests that the SEED children will enter the second grade in the Fall of 1970 on the average with a three month handicap. See Table No. 11.

It is significant to note, however, that the SEED program did not commence operation until October 1969 (Expected Grade Equivalent Score=1.1) and that the Stanford reading test was given in late May 1970 (Expected Grade Equivalent Score=1.9). In terms of standard test procedures, there is a difference in instructional time of eight months from the program's beginning to the date of the test's administration. This suggests that the SEED project children's rate of growth was .91 month per each month of instruction within the SEED program, which is slightly below the normal rate of one month's growth for each month's instruction. Theoretically, had the SEED first grade children a full ten months of reading instruction within the SEED program, they would have been slightly less than one month behind a normal grade equivalent score of 2.0. See Table No. 12.

Of particular interest is the mean grade equivalent score

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of 2.1 earned by the students in the Burnett School. In about eight months of instruction, these chindren grew eleven months, or at a rate of about 1.4 months' achievement for each instructional month. With such a rate, the Burnett children as a group have caught up and will be at grade level when they enter the second grade in the Fall of 1970. This accounts also for the 5.1 stanine score that the Burnett School first graders earned collectively, for the assuption behind the stanine score's construction is a full year's instruction at the normal rate of one month's achievement for each month of instruction. Such a signal advance in reading achievement rates of Burnett School first graders must be investigated carefully so that the replicable elements in Burnett's reading program can be installed in the other schools. However, the achievement of the Burnett children is not uniform by varies with the teacher, the class of students, and the individual child learned himself.

In retrospect, it appears that the generalized statistical impression of the SEED teachers that their students were slightly below grade level and working at a satisfactory pace is empically substantiated. The monthly reading achievement rate for all first grade pupils was .91, or slightly below the normal rate of 1.00. Further, another test substantiating teacher judgment collectively was made. A chi square test of association and a contingency coefficient of correlation <u>C</u> were calculated between the teachers' within-grade capacity estimates of their pupils and the students' earned stanine scores placed into these categories. For all teachers in all schools, the association was statistically significant at the .01 level and the

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ERIC Full Text Provided by ERIC contingency coefficient \underline{C} was .47 (57 percent of the maximum value of \underline{C} for a 3 x 3 table). At the school level, only Hunters Point II teachers did not effectively judge their students at a .01 level. All other schools' faculties did so, with a range of \underline{C} statistics from .41 to .65. Unfortunately, the Bayview School did not have enough data. See Table No. 13.

OTHER FINDINGS

The section provides a series of three findings that are relevent and important for interpreting this review report as a whole.

<u>Sex-linked Hypotheses</u>: Three hypotheses were empirically tested to determine whether the boys and girls in this test population differed significantly in respect to decimal age, attendance (full days in program), and stanine reading scores. Tables Nos. 14-16 present Mann-Whitney <u>U</u> tests on all three of these variables in relation to sex. All three null hypotheses were accepted, for no significant differences between boys and girls were manifested in relation to the factors of decimal age, attendance, and reading stanine scores.

Achievement related to Attendance: The hypothesis was tested as to whether attendance (number of full days in program) and reading achievement (stanine scores) were significantly related. A chi square test of association and a contingency coefficient of correlation <u>C</u> were calculated, dividing both variables at their means. The chi square test rejected the null hypothesis at the five percent level. Thus the idea that a significant association exists between attendance and achievement did obtain. Further, the contingency coefficient <u>C</u> was .61 (85 percent of the maximum <u>C</u> value

possible for a 2 x 2 matrix), a remarkable correlation for frequency data. See Table No. 17.

<u>Class Size and Monthly Reading Achievement Rates</u>: The question was raised as to whether for this group of students class size and the students' monthly achievement rates in reading were related in a statistically significant manner. Supporting the results of a vast literature on class size and achievement, no significant statistical difference in monthly reading achievement rates was found to exist between two groups of classes, divided into two categories at their mean size, <u>viz</u>., 20. See Table No. 18. Hence, class size was not, of itself, a significant element in the development of monthly achievement rates. There is undoubtedly some more intimate curricular factor, such as the number of direct instructional hours per pupil, which probably accounts for the differentials obtained.

In the professional and parental evaluation of the SEED project's educational product, these findings, indeed, modify and give depth to the SEED product's meaning.

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HAS THERE BEEN SIGNIFICANT IMPROVEMENT IN EDUCATION?

The one significant question left yet to be answered is: Has there been significant improvement in reading achievement under SEED project funding when children are compared to first graders of the prior school year in the same schools? The answer to this question is yes. Tables Nos. 19 and 20 provide the empirical evidence for this assertion.

Table No. 19 contains two sets of comparative mean grade equivalent scores for the seven public schools' first graders. The one set of scores is for the SEED first grade pupils of the academic year 1969-1970. The second set of scores is the cohort of first grade students in these same schools for the prior academic year. A quick inspection of Table No. 19 provides the reader with the fact that all schools, except Bayview, have either the same or improved mean grade equivalent scores. Further, Table No. 20 provides a Kruskal-Wallis One Way Analysis of Variance Test By Ranks <u>H</u> which indicates that a significant difference between the two sets of children obtains. The SEED project first grade pupils earned for their schools higher mean grade equivalent scores. The statistical level of significance is at the one percent level.

The import of this finding should be lost to no one, for it means that something educational significant has happened to the

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SEED project first grade pupils. They apparently read better than the previous cohort of first grade children in these same schools.

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CONCLUSION

The results of this diagnostic review suggest that something educationally significant is happening in the Hunters Point-Bayview South East Educational Development. In terms of growth in reading achievement, an intellectually productive education is being evolved. It is hoped that these efforts be continued, for they are empirically constructive. And it is the further hope of this writer that the professionals in education, the parents, and the SEED Staff constructively will work together and interpret this report for diagnostic and remediation purposes. This writer stands ready to aid them in this significant continuing endeavor.

In the introduction of this diagnostic review, the writer referred to the nature of the competent pragmatic test. In a sense, this report is one piece of evidence in a pragmatic test as to whether the SEED project works and is educational productive. The estimate of this writer is empirically based. He has little hesistancy in writing the following. If reading growth was the goal of SEED, SEED has demonstrated its efficacy in this area.

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SAN FRANCISCO UNIFIED SCHOOL DISTRICT Division of Research and Program Evaluation

May 11, 1970

MEMORANDUM

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To: All Evaluators of Special Programs

From: Yvon O. Johnson, Acting Director Research and Program Evaluation

Subject: Use of Ability (IQ) Tests in Program Evaluation

Inasmuch as the primary intent of all special instructional programs presently carried on in the San Francisco Unified School District is to increase student achievement in subject-matter content and skills;

And, inasmuch as the employment, if any, of ability (IQ) tests is only to attempt to describe the learning ability of the participating students and is not an integral part of the evaluation of student achievement;

And, inasmuch as there exists comern as to the validity of present ability (IQ) tests in measuring the learning potential of ethnic minority and/or low-socioeconomic-status students, and that there is a concern that a self-fulfilling prophecy can result when program personnel use these ability (IQ) scores as an indication of student learning potential;

Therefore, the Division of Research and Program Evaluation hereby directs all inhouse and contract evaluators of special programs that, as of this date, the following statements apply to all present and future special instructional programs:

- 1. No ability (IQ) tests other than those mandated by the State of California are to be administered to program students.
- 2. No ability (IQ) test scores, including those obtained from State-mandated testing, are to be maintained in the special program's data bank or records. Existing IQ scores in the program's data bank or records are to be removed or blanked out.
- 3. Program evaluators will not furnish ability (IQ) scores to program personnel or others.
- 4. Program evaluation reports will not contain ability (IQ) scores.

This directive does not preclude any studies or experiments that attempt to develop culture-free or culturally relevant tests of learning ability, proficiency, or potential. Permission for such studies must, of course, be obtained through this office.

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APPENDIX II

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SEX \times \times \times \times XX ××× ××× , EQUIVALENT SCORE CHECK SHEET OF DATA OBTAINED ON SEED PROJECT FIRST GRADE STUDENTS READING TEST **GRADE**-XX ×××× ××× XXX TEST STANINE SCORE READING ×× XXX ××× ×××× READING COURSE GRADE BY SCHOOL AND CLASSROOM TEACHER ×× 0 0 X ××× ×××× TEACHER'S READING GRADE LEVEL ESTIMATE ×× 0 0 X XXX $\times\times\times\times$ NUMBER OF FULL DAYS IN PROGRAM ×× ×o× ××× ×××× BIRTH DATE XX XXX ××× ×××× TEACHER TABLE NO. 1: SCHOOL AND ALL HALLOWS BRET HARTE BAYVIEW BURNETT <u>5</u> <u>3</u>65 **7**33 **3351**

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		SEX		××	××		*****	XXX
STNRCHTR S		READING TEST GRADE- EQUIVALENT SCORE		××	××		××××××	×××
FIRST GRADE		READING TEST STANINE SCORE		××	××		××××××	×××
РКОЛЕСТ	4	READING COURSE GRADE		XX	××		00×000	oxx
VED ON SEED	SROC	TEACHER'S READING GRADE LEVEL ESTIMATE		××	××		00×000	×××
DATA OBTAINED	AND	NUMBER OF FULL DAYS IN PROGRAM		XX	××		00×000	XXX
SHEET OF	BY SO	BIRTH DATE		XX	××		*****	×××
TABLE NO. 1: CHECK		SCHOOL AND TEACHER	FREMONT	(1)	HUNTERS POINT II (1) (2)	J. SMITH	000 5 000	SIR FRANCIS DRAKE (1) (2) (3)
ERIC"				37	24		<u></u>	

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SEX XX READING TEST GRADE-EQUIVALENT SCORE CHECK SHEET OF DATA OBTAINED ON SEED PROJECT' FIRST GRADE STUDENTS BY SCHOOL AND CLASSROOM TEACHER ×× READING TEST STAN INE SCORE ×× READING COURSE GRADE ×× TEACHER'S READING GRADE LEVEL ESTIMATE ×× NUMBER OF FULL DAYS IN PROGRAM ×× BIRTH DATE ×× SIR FRANCIS DRAKE (cont.) SCHOOL AND TEACHER TABLE NO. 1: (2)

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TOTAL STUDENTS WITHOUT DATA 22 24 23 44 57 49 **4** M M ф 1 1 1 EXTENT OF PARTIAL RECORDS ON SEED PROJECT FIRST GRADE STUDENTS 69 61 130 14 12 26 エエス z 1 1 1 55 45 100 67 33 100 TOTAL STUDENTS IN STUDY **4**3 57 100 54 46 100 dЮ 239 198 437 **24** 32 56 18 9 27 37 31 68 z 54 46 100 TOTAL STUDENTS IN PROJECT 43 57 100 60 40 100 54 46 100 dр 308 260 568 25 33 58 33 21 23 53 37 31 68 Z TABLE NO. 2: SCHOOLS Boys Girls Boys and Girls Boys Girls Boys and Girls Boys and Girls Boys and Girls ALL SCHOOLS ALL HALLOWS BRET HARTE Boys Girls Bcys Girls BAYVIEW • .

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	STUDENTS T DATA	de 		111		47 0		111		8 4 8 3 3 3	
STUDENTS	TOTAL S' WITHOUT	Z		111				• • • •		53 48 101	
FIRST GRADE STUDENTS	STUDENTS DY	6 P		63 37 100		59 41 100	-	68 32 100	· · · · · · · · · · · · · · · · · · ·	50 50 100	
SEED PROJECT FI	TOTAL ST IN STUDY	N		8 30 8 30		28 19		23 34 34		10 20	
NO	STUDENTS JECT	de		63 37 100		60 40 100	<u> </u>	68 32 100		52 48 100	
PARTIAL RECORDS	TOTAL STUD IN PROJECT	N		8 3 0 8 3 0	<u> </u>	29 19 48	<u> </u>	23 34		63 58 121	
TABLE NO. 2: EXTENT OF PAR	SCHOOLS		BURNETT	Boys Girls Boys and Girls	FREMONT	Boys Girls Boys and Girls	HUNTERS POINT II	Boys Girls Boys and Girls	J. SMITH	Boys Girls Boys and Girls	
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EXTENT OF PARTIAL RECORDS ON SEED PROJECT FIRST GRADE STUDENTS TABLE NO. 2:

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Tortal Schools Schoo								
Boys SIR FRANCIS DRAKE Boys 49 Boys 49 Girls 54 Boys 105 Boys 105		SCHOOLS	TOTAL S IN PROJ.	TUDENTS ECT	PAL, STU	STUDENTS IDY	TOTAL STUDEN WITHOUT DATA	STUDENTS JT DATA
SIR FRANCIS DRAKE 49 46 Boys 49 56 54 Girls 105 100			N	dip	N.	dip	N	dip /
Boys and Girls 105 54 55 105 54 6 105 54 6 100 45 100 45		SIR FRANCIS DRAKE						
		Boys Girls Boys and Girls	49 56 105	46 54 100	49 55 104	46 54 100	,	101
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TABLE NO. 3a

THE TO THE REAL PROPERTY OF THE PROPERTY OF THE

SEED PROJECT FIRST GRADE STUDENTS: ETHNIC COMPOSITION, BY SCHOOL TYPE FOR ACADEMIC YEAR 1969-1970+

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	PUBLIC SCHOOL		PRIVAT SCHOOL		тота	L
ETHNIC CLASSES	N	કુ	N	8	N	2
Neg ro o r Black	470	94	42	82	512	93
American Indian	1				1	
Oriental						
Spanish Surname	9	2	1	2	10	2
Other White	7	1	5	10	12	2
Others	15	3	3	6	18	3
TOTAL	502	90	51	10	553	100
•••						
					•	
+Source: SEED Offi	ce Staff	Record	5		-	

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3b TABLE NO.

CONT CONTRACTOR

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HUNTERS POINT-BAYVIEW FIRST GRADE STUDENTS: ETHNIC COMPOSITION BY SCHOOL TYPE FOR ACADEMIC YEAR 1968-1969+

ETHNIC CLASSES	PUBLIC SCHOOL	: .S (7)	PRIVAT SCHOOI		TOI	AL
	N	9	N	8	N	8
Negro or Black	556	91	50	60	606	87
American Indian	3				37	· 1
Oriental	1		3	4	4	-
Spanish Surname	16	3	4	5	20	3
Other White	20	3	15	18	35	5
Others	17	3	11	13	28	4
TOTALS	613	88	83	12	696	10 0
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TOTAL		90	100	100	100	100	100	100	100	100	100			=	
		N	568	58	53	68	80	48	34	121	105	<u></u>			
U.S		dΦ	46	58	40	46	37	40	32	48	53	:			
GIRLS		Z	259	.33	21	31	30	19	4	58	56		· .		
S		dР	54	42	60	54	63	909	68	52	47				
BOYS		N	308	25	32	37	50	- 29	23	63	49				
SCHOOLS	SCHOOLS		ALL SCHOOLS	ALL HALLOWS	BAYVIEW	BRET HARTE	BURNETT	FREMONT	HUNTERS POINT II	JEDEDIAH SMITH	SIR FRANCES DRAKE				

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MEANS, STANDARD DEVIATIONS,													
SCHOOL	TOTAL	MEAN	STANDARD DEVLATION	5-5.	9 Yrs	6-6	DECIMAL 9 Yrs	AG 7-7.		TEGOR 8-8.	IES 9 Yrs	9-9.	9 Yrs
				z	040	Z	96	z	96	Z	6 40	Z	90
ALL SCHOOLS			_										
Boys	298	7.1	• 38	I	I	131	44	159	53	8	m	1	· 1
Girls	256	7.1	.41	н 		123	48	124	48	ŕ	m		· I
Boys and Girls	554	7.1	• 40	-т	I	254	46	283	51	15	m		1
- <u>-</u>													
ALL HALLOWS								<u>.</u>					
Boys	23	7.0	.43	1	I	10	43	13	57	1	<u></u>	1	I
Girls	33	7.0	.51	Ч	e	17	52	15	45	 1	1	:	1
Boys and Girls	56	7.0	.47	Ч	~~~ N	27	48	28	50	۱ .	I	1	
	,												
BAYVIEW													
Boys	26	7.1	.42	1		10	38	16	62	1	1	ا =	I
Girls	20	6.9	.24	1	 	14	70	9	30	l	1	1	I
Boys and Girls	46	7.0	.37	l	1	24	52	22	48	1	I	ļ	1

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							DECTMAI	L. AGE		CATEGORIES	LES		
SCHOOL	TOTAL	MEAN	STANDARD DEVIATION	5-5.	9 Yrs	9-9	9 Yrs	7-	2	8-8.	9 Yrs	9-9.	9 Yrs
				N	de .	Z	с ү р	Z	ф	N	ф	Ŋ	ф
BRET HARTE													
Boys	37	7.0	.26	2		19	51	18	49	1	1	· · · ·	I
Girls	31	7.1	.41	I	1	16	52	13	42	2	6	I	I
Boys and Girls	68	7.0	• 33	I	I	35	51	31	46	2	æ	I	I
BURNETT						<u></u>							<u>-</u>
Boys	50	7.2	.40	I	I] Э	36	30	60	-2	4	1	1
Girls	00	7.0	.45	Í	I	19	. 63	<u>ດ</u> .	30	7	7	I	I
Boy£ and Girls	80	7.1	.42	I	I	37	46	99 9	49	4	ß	I	I
						-							
FREMONT									v			····	
Boys	29	7.1	.34	1	1	13	45	16	55	1	\$	ł	1
Girls	18	7.0	.25		I	8	44	10	56	1	I	I)	I
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	LES	9 Yrs	96			1	1	1			4	4	4			0		ß
	CATEGORIES	8-8	Z			1	1	1			7	2	4			4		ъ
		거	96		• .	39	36	38			57	63	60			45	55	50
	AGE	7-7.9	N			6	4	13			35	36	71			22	30	52
	DECIMAI	9 Yrs	dþ			61	55	59			39	33	36			47	44	45
(F	đ	6-6.9	N			14	و	20			24	19	43			23	24	47
(Continued)		9 Yrs	ф			1	1	1			1	1				1	1	1
(Cont		5-5.	Z			1	1	1				1	1			1	1	1
BLE NO. 5	UU AUNATO UU AUNATO	DEVIATION				.30	.67	.50			.37	. 38	• 38			.44	.37	.41
TABL		MEAN				7.0	7.2	7.0			7.1	7.2	7.2			7.1	7.0	7.1
		TOTAL				23	11	34			61	57	118			49	55	104
		SCHOOL			HUNTERS POINT II	Boys	Girls	Boys and Girls		J. SMITH	Boys	Girīs	Boys and Girls	- <u>-</u>	SIR F. DRAKE	Boys	Girls	Boys and Girls

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SEED PROJECT FIRST G DAYS IN PNO(('	TABLE NO. (RADE STUDENTS' / GRAM, MEAN AND S FOTAL SCHOOL DAY	ATTENDANCE: NU SI'ANDARD DEVIAT	MBER OF FULL ION
SCHOOLS	N	MEAN	STANDARD DEVIATION
<u>ALL SCHOOLS</u> Boys Girls Boys and Girls	239 198 437	153.38 149.97 151.83	34.77 35.31 35.01
<u>ALL HALLOWS</u> Boys Girls Boys and Girls	24 32 56	169.96 168.00 168.84	3.10 7.08 5.76
BAYVIEW Boys Girls Boys and Girls	18 9 27	168.50 162.00 163.00	26.72 21.10 24.58
<u>BRET HARTE</u> Boys Girls Boys and Girls	37 31 68	158.58 147.94 153.72	21.81 41.41 32.43
BURNETT Boys Girls Boys and Girls	50 30 80	157.62 150.93 155.11	29.89 35.84 32.19
<u>FREMONT</u> Boys Girls Boys and Girls	28 19 47	149.50 155.00 151.72	47.34 23.46 39.22

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TABLE NO. 6 (Continued)

SCHOOLS	N	MEAN	STANDARD DEVIATIO
HUNTERS POINT II			
Boys Girls Boys and Girls	23 11 47	130.00 137.00 132.27	41.51 44.14 41.83
J. SMITH			
Boys Girls Boys and Girls	10 10 20	165.40 157.70 161.55	9.19 18.86 14.97
SIR F. DRAKE			40.05
Boys Girls Boys and Girls	49 55 104	144.00 137.31 140.47	42.37 18.03 42.12
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Note: The means and s	tandard deviati	ons have been r	unded.
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s, JLS		. 100	90	54	4 8 25		100 78 87		78 67 74		53	
I: MEANS, BY SCHOOLS	RAM	- 16	N	129	98 227		4 9 4 9		14 6 20	, 	20 16 36	
Z 3	IN PROGRAM	06 -	qb	25	23		- 61 11	•	11 22 14		24 19	
DAYS IN PROGRA DISTRIBUTIONS,	DAYS I	81	N	60 A	45		001		ここす		9 15	
	FULL	- 80	ф	2	11 8	·	1 0 0		111	-	10 10 11	
PERCENT FULL PROPORTIONAL	ENT OF	11	Z	. 1	35	•	144		111		400	
STUDENTS' UENCY AND	PERCENT	20	90	9	 110 110		1 1 1		111		11 13 13	
RADE FREQ		1	N	36	34		1 - 1 - 1		9 H 9		4 6 10	
PROJECT FIRST ARD DEVIATIONS EX		STND DEV.	46	19.22	19.35		1.84 3.96 3.24		14.74 11.64 13.56		12.14 22.85 17.93	
		MEAN		54,22	82.37 83.38		93.38 92.34 92.79		89.83 89.00 89.56		87.05 81.23 84.40	
7: SEED STANI AND S		N		239	198		24 32 56		18 29		37 31 68	
TABLE NO.		SCHOOLS		ALL SCHOOLS Bove	Girls Boys and Girls	ALL HALLOWS	Boys Girls Boys and Girls	BAYVIEW	Boys Girls Boys and Girls	BRET HARTE	Boys Girls Boys and Girls	
		٩			50	37			· · · · · · · · · · · · · · · · · · ·			

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40 45 45 5757 30 36 32 100 54 42 49 90 I 91 29 17 46 15 8 23 4 U O 74 11 z PROGRAM 17 18 18 40 40 224 29 32 30 90 0 IN ł. 81 DAYS 12 16 18 8 7 0 14 14 400 Z FULL 13 15 15 10 80 4 L 9 dip すらす ł OF (Continued) 71 0 V N 100 \mathbf{Z} 3 H 5 J 2 2 PERCENT 35 35 101 14 20 16 15 16 14 96 70 TABLE NO. 7 ſ Н 12 9 12 **1 H H** 13 13 4 6 7 \mathbf{Z} 22.99 24.28 23.12 $\begin{array}{c}
5.17\\
10.34\\
8.24\\
\end{array}$ 26.05 12.91 21.58 16.53 19.80 17.79 STND DEV. đþ 71.30 75.09 72.53 90.90 86.70 88.80 86.52 82.90 85.16 82.04 85.21 83.32 MEAN % 19 23 11 34 1010 80 80 80 Z Girls Girls Girls н Girls HUNTERS POINT SCHOOLS Boys Girls Boys and (Boys Girls Boys and (Boys Girls Boys and (Boys Girls Boys and e J. SMITH BURNETT FREMONT 38

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31 32 32 - 100 dP 91 16 17 33 Z IN PROGRAM 90 32 32 32 90 I 81 DAYS 19 14 33 z FULL 80 **1**38 **1**38 90 I OF (Continued) 71 deviations have been rounded. Z 104 PERCENT 20 24 24 dр 70 ~ TABLE NO. t 10 14 24 Ч N 23.45 23.27 23.32 STND DEV. 8 79.14 75.38 77.15 and standard MEAN % 49 55 104 Z Boys Girls Boys and Girls The means SIR F. DRAKE SCHOOLS Note: 52 39

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ო SEED PROJECT FIRST GRADE STUDENTS: TEACHER READING LEVEL ESTIMATE WITHIN CLASS, MEANS, STANDARD DEVIATIONS, FREQUENCY AND PROPORTIONAL DISTRIBUTÌONS, BY SCHOOL AND SEX 48 36 42 16 12 50 100 60 35 35 35 35 ф BELOW = READING LEVEL ESTIMATE WITHIN GRADE. 13 24 24 N 105 69 174 48 315 **80** 58 67 57 53 53 1 | | 4 4 4 4 4 4 ф 2 11 AT 21 15 36 96 84 180 1 1 1 Z **20** 39 ABOVE = 150 16 12 20 14 40 **1**9 **1**9 90 20 38 58 111 ωum Z 010 STND DEV. 1.56 .61 .70 .65 .73 .73 . 44 64 .58 2.2 2.2 22.4 1.9 1.9 MEAN 37 31 68 221 191 412 25 23 28 23 2 1 5 z ... 8 Boys Girls Boys and Girls Girls Boys and Girls Girls Boys and Girls Boys and Girls TABLE NO. SCHOOLS ALL SCHOOLS ALL HALLOWS BRET HARTE Boys Girls BAYVIEW Boys Boys 53 40

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TABLE NO. 8: (Continued) SCHOOLS N NEADING ERADING ENTING ENTING </th <th></th>										
SCHOOLS N MEAN STND READING LEVEL BETIMATE WITHIN GRADE SCHOOLS N READING LEVEL BETIMATE WITHIN GRADE N $\frac{1}{8}$ N <t< th=""><th></th><th>1</th><th>TABLE</th><th>8</th><th>ontinued</th><th></th><th></th><th></th><th></th><th></th></t<>		1	TABLE	8	ontinued					
CHOOLS N MEAN DIV. AEOVE = 1 AT = 2 BELOW = 2 M $\frac{2}{8}$ N $\frac{2}{8}$ N $\frac{2}{8}$ N $\frac{3}{8}$ $\frac{1}{10}$ $\frac{3}{33}$ $\frac{1}{10}$ $\frac{3}{33}$ $\frac{1}{30}$ $\frac{3}{36}$ $\frac{4}{35}$ $\frac{3}{36}$ $\frac{4}{35}$ $\frac{1}{30}$ $\frac{3}{36}$ $\frac{4}{35}$ $\frac{1}{30}$ $\frac{1}{33}$ $\frac{1}{30}$ $\frac{1}{33}$ $\frac{1}{30}$ $\frac{1}{33}$ $\frac{1}{30}$ $\frac{1}{33}$ $\frac{1}{30}$ $\frac{1}{$				CINT'S	RE			N 1	ITHIN GR	ADE
M 8 N 8 N 8 N and Girls 50 2.4 $.70$ 6 12 18 36 26 30 2.3 $.77$ 16 33 10 33 10 35 26 30 2.3 $.77$ 16 20 28 35 26 30 2.3 $.77$ 16 20 28 35 36 27 2.6 $.57$ 1 4 8 30 28 36 27 2.6 $.57$ 1 4 8 30 28 36 27 2.6 $.57$ 21 11 52 26 12 10 2.7 $.46$ $ 11$ 2.6 $.51$ $ 11$ 2.6 $.26$ $.26$ $.26$ $.26$ $.22$ 12 2.2 $.46$ $ 12$ 2.2 $.46$ </th <th>SCHOOLS</th> <th>2</th> <th>MEAN</th> <th>DEV.</th> <th>AEOV</th> <th>B</th> <th></th> <th></th> <th>BELO</th> <th>Ш</th>	SCHOOLS	2	MEAN	DEV.	AEOV	B			BELO	Ш
ind Girls 50 2.4 .70 6 12 18 36 26 and Girls 30 2.3 .77 16 20 23 10 33 10 33 10 33 10 33 36 26 11 and Girls 80 2.6 .57 1 4 8 30 13 35 36 26 13 and Girls 13 2.6 .57 1 4 8 30 18 35 36 26 12 18 36 26 12 18 36 26 12 18 36 26 12 18 36 26 12 18 36 26 12 19 31 27 28 30 36 26 12 36 27 36 27 26 12 13 22 26 12 26 26 26 27 36 27 36 27 36 27 36 27 36 27 36 27 36					N	40	Z	dр	N	dю
and Girls 27 2.6 $.57$ 1 4 8 30 18 and Girls 46 2.6 $.57$ 1 4 8 30 18 POINT II 2.5 2.6 $.62$ 3 7 13 28 30 18 POINT II 2.6 $.62$ 3 7 13 28 30 18 POINT II 2.1 2.6 $.62$ 3 7 13 28 30 18 POINT II 21 2.7 $.46$ 5 6 2 6 2 6 2 6 2 6 2 <	BURNETT Boys Girls Boys and Girls	20 30 80	2.4 2.0 2.3		16 16	33 33 20	8 0 8 7 0 8	33 30 3 3 3 3 3	26 10 36	52 45
POINT IIPOINT IIPOINT II 11 and Girls 21 2.7 $.46$ 11 2.6 32 2.7 32 2.7 32 2.7 47 $ 47$ $ 47$ $ -$ <td>and</td> <td>27 15 46</td> <td>2.5 2.5</td> <td>.57 .70 .62</td> <td>-1 N M</td> <td>114</td> <td></td> <td>30 30 30 30</td> <td>18 12 30</td> <td>63 65</td>	and	27 15 46	2.5 2.5	.57 .70 .62	-1 N M	114		30 30 30 30	18 12 30	63 65
SMITHSMITHBoysBoysGirls02.263102.26311102.2603Boys and Girls202.260666666666778999<	POINT and Gir	32	2.7	.46 .51	111		1 6	29 36 31	15 22 22	71 64
	SMIT Boys Girls Boys	10 10 20	2.22	. 63 . 63	~ H N	000	12	0000	0 M M	30 30 30

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\$ m 51 38 44 dЮ BELOW = READING LEVEL ESTIMATE WITHIN GRADE 24 21 45 Z 36 45 41 dЮ 2 11 АТ N 17 25 42 ABOVE = 113 15 15 dЮ (Continued) 15 15 z STND DEV. 12. 12. 12. TABLE NO. 8: MEAN 2.24 47 55 102 Z Boys Girls Boys and Girls SCHOOLS SIR F. DRAKE . 55 1×1

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State State

Contract Contract (1)

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ANS, AND		Improvement Needed	40		30 21 26		28 36 33		50 - 20		19 13 16	
TERM, MEANS, 3Y SCHOOL AND	S	II II	N		65 39 104		12 19		ни		11	
	SUMMATIVE GRADES	Satisfactor	₽ ₽		45 48 46	•	36 24 29		50 100 60		62 63	
READING SUMMATIVE GRADE FO PROPORTIONAL DISTRIBUTIONS	SUMMATT	3 = Sat.	N		97 87 184		9 17 17		о н о		4 3 4 3	
G SUMMATIVE IONAL DISTR		ry Good	80		24 31 27		38 38 38		25	, 	19 21	
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DE STUDENTS: REQUENCY AND		STND.			.74 .72 .73		. 81 . 83 . 85		.82 - .71		.62 .60 .61	
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SEED PROJECT FIRST G STANDARD DEVIATIONS, SEX		Ņ			214 182 396		25 333 28		ሳግቢ		37 31 68	
TABLE NO. 9: SEED STAND SEX		SCHOOLS		ALL SCHOOLS	Boys Girls Boys and Girls	ALL HALLOWS	Boys Girls Boys and Girls	BAYVIEW	Boys Girls Boys and Girls	BPET HARTE	Boys Girls Boys and Girls	
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	Improvement Needed	%	40 20 32	44 11 30	27 27	30 30 30
	I	N	20 6 26	12	დოთ	0 4 13
	ATIVE GRADES Satisfactor	\$	42 40 41	30 63 43	32 36 33	70 50 60
	SUMMATIVE 3 = Satisf	N	21 12 33	8 12 20	7 4 11	7 5 12
	Good	%	18 40 26	26 26 26	41 36 39	10 10 10
(Continued)	2 = Very	Ň	9 12 21	1257	13 13	0 T T
NO. 9 (Coi	STND DEV.		- 3 4 - 76 - 77	. 83 . 60 . 76	. 83 . 83 . 82	.57 .68 .62
TABLE N	MEAN		3.2 3.1	3.2 3.0 8 3.0	2.9	3.1 3.2 3.2
	Ň		80 30 8 3 20 7	27 19 46	33 11 33	10 20
	. SCHOOLS		BURNETT Boys Girls Boys and Girls	FREMONT Boys Girls Boys and Girls	HUNTERS POINT II Boys Girls Boys and Girls	J. SMITH Beys Girls Boys and Girls

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		Improvement Needed	ф	17.76 7.1.72	
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6		DEV.		77 77 72 72	
TABLE NO.		MEAN		0 0 0 	
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		SCHOOLS		SIR F. DRAKE Boys and Girls Boys and Girls	
				45 58	

		ORIES ABOVE 7 - 9	dρ	10 12 12	დ თ თ	M N	1038
	SCORES, TIONS	CATEC	Z	29 35 64	N M N	♥Ⅰ₼	6 4 M
	STANINE DISTRIBU'	IE SCORE	90	27 33 30	38 39 30	15 244 27	4 53 46
	EVEMENT TIONAL D	L STANINE AT 4 -	N	76 78 154	9 13 22	7 8 7 1 5	15 31 31
er e un barr e chier den e un	READING ACHIEVEMENT Y AND PROPORTIONAL EX	RADE LEVEL BELOW 1 - 3	90	62 52 58	າ ນ ນ 2 0	81 56 71	43 33 43
nan Taran di Samah yang suba	NC NC	GRADE BELOI 1 -	N	175 122 297	14 17 31	22 10 32	10 23 29
ana ta Ku ³ an na mangunak kumut	STU SCHC	STND DEV.	1	2.06 2.23 2.14	1.80 1.88 1.84	1.34 1.47 1.41	1.92 1.75 1.85
erentra de catalante de transmissiones de la companya de la companya de la companya de la companya de la compa	OJECT FIRST GRADI STANDARD DEVIATIC GRADE LEVELS, BY	MEANS		3,3 3,7 3,52		6 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3.6 3.8 3.8
وأوي الأراد وي بدير المواد الماري فقد عالما المراجع الموادي		Ņ		280 235 515	0 3 2 0 3 2 0	27 18 45	37 30 67
	TABLE NO. 10: SEED PR MEANS, WITHIN	SCHOOLS		<u>ALL SCHOOLS</u> Boys Girls Boys and Girls	<u>ALL HALLOWS</u> Boys Girls Boys and Girls	<u>BAYVIEW</u> Boys Girls Boys and Girls	<u>BRET HARTE</u> Boys Girls Boys and Girls
Full Text Provided by ER	· <u>·····</u>	• <u>•</u> ••••••••••••••••••••••••••••••••••		59	46	<u></u>	·

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	RIES	ABOVE 7 - 9	96		21 45 30	יסין 	*	<u> </u>		22 15 19	
	CATEO	4 1	N		10 13 23		•	I I I		11 18 18	
	E SCORE	9	90		48 48 43	35 35 37	è	ທ ທ ທ		14 20 16	
	STÀ	AT 4 –	Z		23 10 33		0 1	2 1 1		7 9 16	
	GRADE LEVEL	BELOW 1 - 3	90		31 21 27	65 29 2	4) 	901 94		65 65 65 65 65 65 65 65 65 65 65 65 65 6	
(Continued)	GRA	L BE	Z		15 6 21	17 25	1	21 10 31		33 93 93	
10		STND DEV.			2.13 2.35 2.25	1.54 1.54 1.54)	.73 .75 .75		2.51 2.58 2.53	
TÀBLE NO.		MEANS			4 .7 5.1 5.1	0 0 0 0 0 0)	1.8 2.2 1.9		ດ 4 ເບ ອີຊາຍ ອີຊາຍ	
		. Z			4 8 29 77	4 H 2 4 H 2)	22 33 33		51 46 97	
		SCHOOLS		BURNETT	Boys Girls Boys and Girls	<u>FREMONT</u> Boys Girls Bovs and Girls	IOď (Boys Girls Boys and Girls	J. SMITH	Boys Girls Boys and Girls	
••••••••••••••••••••••••••••••••••••••					60	47	-				

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10 10 10 φ ABOVE 7 - 9 CATEGORIES z 9 7 5 GRADE LEVEL STANINE SCORE r 18 18 18 0/0 4 - 6 AT Z 8 17 77 68 72 ď BELOW I - 3 TABLE NO. 10 (Continued) 34 34 68 \mathbf{z} STND DEV. 1.81 2.30 2.09 2.68 3.12 2.92 MEANS 44 50 94 $\cdot \mathbf{Z}$ Boys Girls Boys and Girls SCHOOLS SIR F. DRAKE i. .

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SEED PROJECT FIRST (EQUIVALENT SCORES, N AND SEX		READING ACHIEV	
SCHOOLS	N	MEANS	STANDARD DEVIATIONS
<u>ALL SCHOOLS</u> Boys Girls Boys and Girls	278 236 514	1.70 1.77 1.73	.51 .48 .50
<u>ALL HALLOWS</u> Boys Girls Boys and Girls	26 19 45	1.52 1.63 1.57	.26 .29 .27
BAYVIEW Boys Girls Boys and Girls	26 19 45	1.53 1.63 1.57	.26 .29 .27
<u>BRET HARTE</u> Boys Girls Boys and Girls	37 30 67	1.72 1.82 1.76	.38 .35 .37
<u>BURNETT</u> Boys Girls Boys and Girls	48 29 77	2.07 2.20 2.12	.79 .62 .73
<u>FREMONT</u> Boys Girls Boys and Girls	26 17 43	1.59 1.71 1.64	.27 .26 .27

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TABLE NO. 11 (Continued)

SCHOOLS	N	MEANS	STANDARD DEVIATIONS
HUNTERS POINT II Boys Girls Boys and Girls	21 11 32	1.39 1.47 1.42	.12 .14 .13
<u>J. SMITH</u> Boys Girls Boys and Girls	51 46 97	1.76 1.72 1.74	.53 .61 .56
<u>SIR F. DRAKE</u> Boys Girls Boys and Girls	44 50 94	1.56 1.65 1.60	.33 .44 .70
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Note: The means and st	andard deviatio	ns have been ro	unded.

TABLE NO. 12

SEED PROJECT FIRST GRADE CLASSES: MONTHLY ACHIEVEMENT RATE

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SCHOOL/TEACHER	STUD- ENTS N	MEAN GRADE EQUI- VALENT SCORE	MONTH: ACHIEVE- MENT Y	S: N INSTRUC- TION X	MONTHLY ACHIEVE- MENT RATE Y:-X
ALL SCHOOLS	514	1.73	7.30	8.00	.91
ALI, HALLOWS		1.72	7.20	8.00	.90
 (1) Teacher No. 002 (2) Teacher No. 003 	29 29	1. 7 1.62	7.10 6.20	8.00 8.00	.89 .78
BAYVIEW		1.57	5.70	8.00	.71
<pre>(1) Teacher No.</pre>	22 23 -	1.50 1.64 No Data	5.00 6.40 -	8.00 8.00 -	.63 .80 -
BRET HARTE		1.76	7.60	8.00	.95
 (1) Teacher No. 022 (2) Teacher No. 023 (3) Teacher No. 024 	20 24 23	1.77 1.91 1.60	7.70 9.10 6.00	8.00 8.00 8.00	.96 1.14 .75
<u>BURNETT</u> (1) Teacher No. 034 (2) Teacher No. 035 (3) Teacher No. 036	24 13 25	1.71 2.88 2.14	7.10 18.80 11.40	8.00 8.00 8.00	.89 2.35 1.43

64 51

SCHOOL/TEACHER	STUD- ENTS	MEAN GRADE	MONTHS	: N	MONTH ACHIE
	N	EQUI- VALENT SCORE	ACHIEVE- MENT Y	INSTRUC- TION X	MENT RATE
BURNETT (continued)					
(4) Teacher No. 037	15	2.09	10.09	8.00	1.2
FREMONT		1.64	6.40	8.00	. 8
 (1) Teacher No. 046 (2) Teacher No. 	21	1.75	7.50	8.00	.9
047	22	1.54	5.40	8.00	. 6
HUNTERS POINT II		4.20	4.20	8.00	.5
(1) Teacher No. 055	13	1.41	4.10	8.00	• 5
(2) Teacher No. 056	19	1.42	4.20	8.00	. 5:
J. SMITH		1.74	7.40	8.00	.93
 (1) Teacher No. 063 (2) Teacher No. 	16	1.86	8.60	8.00	1.08
(3) Teacher No.	18	2.52	15.20	8.00	1.90
(4) Teacher No.	• 19	1.52	5.20	8.00	.65
066 +(5) Teacher No.	17	1.43	4.30	8.00	.54
(6) Teacher No.	9	1.58	5.80	8.00	.73

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TABLE NO. 12 (Continued)

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SCHOOL/TEACHER	STUD- ENTS	MEAN GRADE	MONTHS	: N	MONTHLY ACHIEVE-
	N	EQUI- VALENT SCORE	ACHIEVE- MENT Y	INSTRUC- TION X	MENT RATE Y÷X .
SIR F. DRAKE (1) Teacher No. 077 (2) Teacher No. 078 (3) Teacher No. 079 (4) Teacher No. 080 (5) Teacher No. 041	15 22 19 21 17	1.60 2.05 1.33 1.77 1.53 1.48	6.00 10.50 3.30 7.70 5.30 4.80	8.00 8.00 8.00 8.00 8.00 8.00 8.00	.75 1.31 .41 .96 .66 .60
+Split classes of fir					

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FIRST GRADE STUDENTS AND SEED PROJECT FIRST GRADE STUDENTS' STANINE SCORES CLAS-/c/c_{max} (D) (D) 50 57 73 65 79 57 I SEED PROJECT SCHOOLS: TEACHER WITHIN-GRADE CAPACITY ESTIMATES OF SEED PROJECT SED BY WITHIN-GRADE LEVEL GROUPS - CHI SQUARE TEST OF ASSOCIATION AND CONTIN-OF THREE Cmax . 82 . 82 . 82 .82 .82 82 .82 ١ GENCY COFFFICIENT C OF CORRELATION. FOR ALL SCHOOLS AND BY SCHOOLS TWO OUT SN s/ns S S S S S S S CRITERIA alpha ESTIMATIS FROM .01 .01 .01 .01 .01 .01 .01 .01 đf 4 CAPACITY chi sq. 13.28 13.28 13.28 13.28 13.28 13.28 13.28 13.28 II Р ON TEACHER WITHIN-GRADE Cont. Coef. .46 .47 .64 .47 • 53 . 65 .41 ິຍ I åf CALCULATIONS chi sq. 45.16 16.76 22.07 2.27 15.59 105.31 ⁽13.95 16.49 NO DATA CLASSES 59 19 376 77 43 32 67 79 z TABLE NO. 13: HUNTERS POINT II SIR F. DRAKE ALL SCHOOLS SCHOOL ALL HALLOWS BRET HARTE J. SMITH BAYVIEW BURNETT FREMONT

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TABLE NO. 14: SEED FROUCT FIRST GRADE STUDENTS' DECTMAL AGE: MANN-WHITNEY U TEST TO DECTEMATING WIETHER THE BOOSS AND GTELS DIFFERED SIGNIFICANTLY WITH RESPECT TO DECTMAL AGE ADD GTELS DIFFERED SIGNIFICANTLY WITH RESPECT TO DECTMAL AGE SCHOOL ALL HALLONE 31142.000 -1.007 278 236 2.31 NS ALL HALLONE ALL HALLONE 31142.000 -1.007 278 2.36 NS ALL HALLONE 333.500 307 226 2.31 NS ALL HALLONE 333.500 307 226 2.31 NS BURF HARTE 500 948 48 2.31 NS BURF HALLONE 500 -1.021 2.31 NS BURNETT 149.000 -1.221 2.11 NS FIREMONT 87.500 -1.221 2.11 NS J. SIR F. DRAKE 1004.500 739 44 50 2.31			IN	<u> </u>											<u> </u>		
TABLE NO. 14: SEED FROJECT FIRST GRADE STUDENTS' DECIMAL AGE: ANNI-WHITNEY U TEST TO DETERMINE WITH RESPECT TO DECIMAL AGE ANN HITNEY THEST OF DETERMINE WITH RESPECT TO DECIMAL AGE ANN HITNEY T SCHOOL N BI142.000 -1.007 278 236 2. SCHOOL NANN-WHITNEY T SIX MANN-WHITNEY SCHOOL U T SIX MANN-WHITNEY SCHOOL U T SIX MILTNEY T SIX SCHOOL U T Z MANN-WHITNEY Z SIX Z Z SCHOOL U M T Z M F Z Z SCHOOL U SCHOOL U Z <thz< th=""> Z Z <thz< th=""> <thz< td=""><td></td><td>FERION</td><td>sig/ns</td><td>5</td><td>N Z</td><td>NS</td><td>NS</td><td>ŇŠ</td><td>SN</td><td>SN</td><td>SN</td><td>NS</td><td>NS</td><td></td><td>, </td><td>/</td><td></td></thz<></thz<></thz<>		FERION	sig/ns	5	N Z	NS	NS	ŇŠ	SN	SN	SN	NS	NS		, 	/	
TABLE NO. 14: SEED PROJECT FIRST GRADE STUDENTE MANN-WHITNEY U TEST TO DETERMINE AND GIRLS DIFFERED SIGNIFICANTLY DECIMAL AGE AND GIRLS DIFFERED SIGNIFICANTLY ANN-WHITNEY AGE AGE <td></td> <td>CRI</td> <td>z .01</td> <td></td> <td>2.31</td> <td>2.31</td> <td>2.31</td> <td>I .</td> <td>2.31</td> <td>2.31</td> <td>2.31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		CRI	z .01		2.31	2.31	2.31	I .	2.31	2.31	2.31						
TABLE NO. 14: SEED PROJECT FIRST GRADE STUDENTE MANN-WHITNEY U TEST TO DETERMINE AND GIRLS DIFFERED SIGNIFICANTLY DECIMAL AGE AND GIRLS DIFFERED SIGNIFICANTLY ANN-WHITNEY AGE AGE <td>L AGE: THE BOYS PECT TO</td> <td>EX</td> <td>हिम</td> <td></td> <td>236</td> <td>33</td> <td>19</td> <td>30</td> <td>29</td> <td>, TI</td> <td>11</td> <td>46</td> <td>20</td> <td>,</td> <td></td> <td></td> <td></td>	L AGE: THE BOYS PECT TO	EX	हिम		236	33	19	30	29	, TI	11	46	20	,			
TABLE NO. 14: SEED FROJECT FIRST GRADE MANN-WHITNEY U TEST TO DE AND GIRLS DIFFERED SIGNIE DECIMAL AGE SCHOOL U z SCHOOL U z SCHOOL U z SCHOOL U z SCHOOL U U z NULLINEY U U z SCHOOL U U z NULLINEY 0393.500 94 1142.000 393.500 94 131142.000 149.000 122 NT II 87.500 124 BE 1004.500 30		ß	W	o r.c	8/7	25	26	37	48	26	21	51	44				
TABLE NO. 14: SEED PROJH MANN-WHITT AND GIRLS DECIMAL AC BECIMAL AC 393. 393. 393. 393. 393. 393. 393. 393	ST GRADE STUDEN' SST TO DETERMIN SD SIGNIFICANTL'		N		/ 00.1-			I		-1.84 9	-1.221	•					
TABLE NO. 14: SCHOOL NT II	PROJI WHITN HIRLS AL A(MANN-WHITNEY	D	000 0116	31142.000	393.500	213.000	535.000	607.000	149.000	87.500	1131.000	1004.500				
	14:		SCHOOL	ALT: COTION C		ALL HALLOWS	BAYVIEW	BRET HARTE	BURNETT	FREMONT	1		1				

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SEED PROJECT FIRST GRADE STUDENTS' NUMEER OF FULL DAYS IN PROGRAM: MANN-WHITNEY U TEST TO DETERMINE WHETHER BOYS AND GIRLS DIFFERED SIGNIFICANTLY WITH RESPECT TO ATTENDANCE TABLE NO. 15:

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	MANN-WHITNEY		S	SEX	CRIT	CRITERION
SCHOOL	Þ	N	W	μ	L0.	sig/ns
ALL SCHOOLS	21962.500	-1.293	239	198	2,31	SN
ALL HALLOWS	358.500	424	24	32	2.31	SN
BAYVIEW	60.000	0.00	18	6	I	NS
BRET HARTE	550.500	283	37	31	2.31	SN
BURNETT	676.000	736	50	30	2.31	SN
FREMONT	232.000	738	28	19	2.31	SN
HUNTERS POINT II	112.000	534	23	11	2.31	NS
J. SMITH	39.500	0.00	10	10	I	NS
SIR F. DRAKE	000.0011	967	49	, 55	2.31	SN
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SEED PROJECT FIRST GRADE STUDENTS' READING ACHIEVEMENT STANINE SCORES: MANN-WHITNEY U TEST TO DETERMINE WHETHER BOYS AND GIRLS DIFFERED SIGNI-FICANTLY WITH RESPECT TO STANINE SCORES TABLE NO. 16:

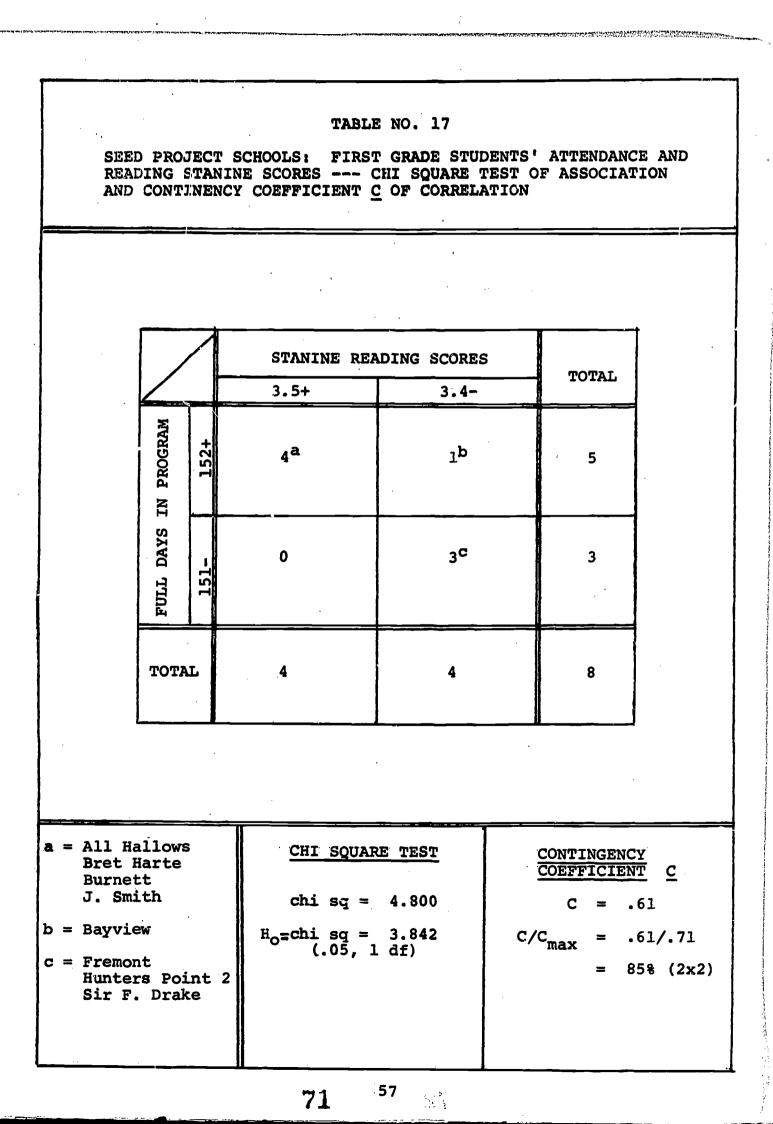
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	MANN-WHITNEY	-	S	SEX	CRIJ	CRITERION
SCHOOL	n	N	W	Γu	2 01	sig/ns
ALL SCHOOLS	29281.500	-2.186	280	235	2.31	NS
ALL HALLOWS	351.500	977	25	33	2.31	SN
BAYVIEW	172.000	-1.714	27	18	2.31	SN
BRET HARTE	469.000	-1.100	37	30	2.31	SN
BURNETT	516.500	-1.903	48	29	2.31	NS
FREMONT	154.000	-1.707	26	17	2.31	SN
HUNTERS POINT II	88.500	-1.454	22	11	2.31	SN
J. SMITH	1188.500	402	51	46	2.31	NS
SIR F. DRAKE	1027.000	569	44	50	2.31	NS
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TABLE NO. 18

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SEED PROJECT SCHOOLS: CLASS SIZE AND MONTHLY READING ACHIEVEMENT RATES -- KRUSKAL-WALLIS CNE WAY ANALYSIS OF VARIANCE BY RANKS, H

(GROUP A Class Size: 20	+)		GROUP B (Class Size: 19-)		
CLASS SIZE	MON'THLY READING ACHIEVEMEN'T RATE	RANK	CLASS SIZE	MONTHLY READING ACHIEVEMENT RATE	RANK	
29	.77	14	19	.96	18.5	
29	.71	11	19	.65	8	
25	1.43	24	19	.53	3	
24	1.14	21	18	.59	5	
24	. 89	16	. 18	1.90	25	
23	. 75	13	17	.60	6	
23	. 80	15	17	.54	4	
22	.63	. 7	16	1.08	20	
22	.41	1	15	1.31	23	
22	.68	10	15	1.26	22	
21	.94	17	13	2.35	26	
21	.66	9	13	.51	2	
20	.96	18.5	9	.73	12	
TOTAL R ²		176.5 31152.25		3	174.5 0450.25	

H = (.017) (4738.6) - 81

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H = -...44 (1 df)

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TABLE NO. 19 A COMPARISON OF GRADE EQUIVALENT SCORES ON THE STANFORD READING ACHIEVEMENT EXAMINATION (FORM W) BETWEEN SEED PROJECT FIRST GRADE STUDENTS (1969-1970) AND FIRST GRADE STUDENTS OF PRIOR ACADEMIC YEAR (1968-1969), BOTH TESTS GIVEN IN MAY OF ACADEMIC YEAR PRIOR YEAR FIRST SEED PROJECT FIRST SCHOOLS GRADE STUDENTS GRADE STUDENTS MEAN MEAN GRADE GRADE Ν N EQUIVALENT EQUIVALENT SCORE SCORE-1.73 BAYVIEW 45 1.57 46 1.68 BRET HARTE 1.76 59 67 1.69 2.12 51 BURNETT 77 1.58 43 1.64 47 FREMONT 1.41 HUNTERS POINT II 33 1.42 25 1.39 1.74 J. SMITH 97 65 94 1.60 72 1.59 SIR F. DRAKE Note: Mean Grade Equivalent Soores have been rounded.

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TABLE NO. 20

SEED PROJECT FIRST GRADE STUDENTS' AND PRIOR YEAR FIRST GRADE STUDENTS' GRADE EQUIVALENT SCORES ON STANFORD READING ACHIEVE-MENT EXAMINATION (FORM W): KRUSKAL-WALLIS ONE WAY ANALYSIS OF VARIANCE TEST BY RANKS - H.

SCHOOLS	SEED PROJ GRADE STU	JECT FIRST JDENTS	PRIOR YEA GRADE STU			
	RANK	MEAN GRADE EQUIVALENT SCOPE	RANK	MEAN GRADE EQUIVALENT SCORE		
BAYVIEW	4	1.57	11	1.73		
BRET HARTE	13	1.76	9	1.68		
BURNETT	14	2.12	10	1.69		
FREMONT	8 .	1.64	5	1.58		
HUNTERS POINT II	3	1.42	2	1.41		
J. SMITH	12	1.74	1	1.39		
SIR F. DRAKE	7	1.60	6	1.59		
		<u>.</u>				
TOTAL RANKS	61		44			
ranks ²	3721		1936			
				<u></u>		
$H = [12/N(N + 1)] [R^2/n_j] - 3(N + 1)$						
	H = (.571) (808.14) - 45					
H =			<pre>I = chi sq. = 6.64, .01,</pre>			

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