DOCUMENT RESUME

ED 053 822   RC 005 309

AUTHOR   Rapp, M. L.; And Others
TITLE   An Evaluation Design for San Jose Unified School
                District's Compensatory Education Program.
INSTITUTION   San Jose Unified School District, Calif.
REPORT NO   Mem-RM-5903-SJS
PUB DATE   May 69
NOTE   122p.

EDRS PRICE   EDRS Price MF-$0.65 HC-$6.58
DESCRIPTORS   *Academic Achievement, *Compensatory Education,
                Cultural Background, Economic Factors, Evaluation
                Techniques, *Mexican Americans, *Program Evaluation,
                *Student Attitudes

ABSTRACT
                An evaluation design for the San Jose Unified School
District compensatory education program is presented in this
memorandum. Implementation of the design is intended to determine the
effects of the compensatory components and of family and cultural
background on the achievement gains and attitude changes of students,
thus providing a firmer basis for making decisions about the extent
of compensatory education services necessary for disadvantaged
Mexican Americans to achieve academic gains comparable to those of
nondisadvantaged populations. The impact of economic changes on the
community's large Mexican American population and implications of
these changes for education are also discussed. Appendices include
most of the instruments to be used in the evaluation. (JH)
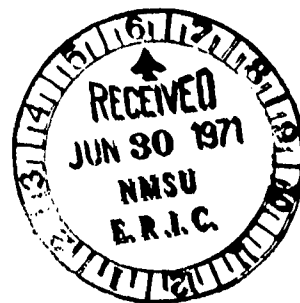
MEMORANDUM
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AN EVALUATION DESIGN FOR
SAN JOSE UNIFIED SCHOOL DISTRICT'S
COMPENSATORY EDUCATION PROGRAM

M. L. Rapp, G. L. Brunner and E. M. Scheuer

PREPARED FOR:
SAN JOSE UNIFIED SCHOOL DISTRICT

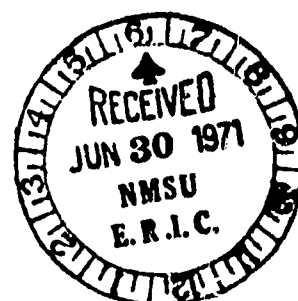*The* RAND *Corporation*
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PREFACE

This Memorandum was prepared at the request of the San Jose Unified School District (SJUSD). It presents a design for the gathering of information about the current SJUSD compensatory education program and for the evaluation of the contributions its components make to student achievement. The results, it is hoped, will provide a firmer basis for making decisions about the kinds and amounts of compensatory services that will best serve disadvantaged students in San Jose schools.

During the preparation of this study, E. M. Scheuer was a member of the Management Sciences Department of The RAND Corporation, to which he remains a Consultant. He is now Associate Director, Professional Services Division, C-E-I-R, Inc., a subsidiary of Control Data Corporation.

SUMMARY

This Memorandum presents a design for the evaluation
of the San Jose Unified School District (SJUSD) compensatory
education program. The implementation of this design is
intended to provide answers to four groups of questions:

1) Do different combinations of the compensatory
   components have differential effects on the
   achievement gains of the students? Are these
   effects further differentiated at different grade
   levels?

2) Do different combinations of the compensatory
   components have differential effects on the
   attitude changes of the students? Are these
   effects further differentiated at different grade
   levels?

3) How do familial and cultural backgrounds affect
   the achievement gains of students in the compensatory
   education program?

4) How do familial and cultural backgrounds affect the
   attitudinal changes of students in the compensatory
   education program?

Answers to the first two sets of questions should provide
a firmer basis for making decisions about the extent of
compensatory education services necessary for disadvantaged
Mexican-Americans to achieve academic gains comparable to
those of non-disadvantaged populations. These answers will
be sought by examining scores on standardized achievement
tests and other appropriate instruments. Additionally, a
survey of family background characteristics will serve as
input to the study.

Following an introductory overview of the design
(Sec. I), Sec. II describes the economic characteristics of
the San Jose area. This discussion focuses on the impact

of changes in the area's economy on the community's large
Mexican-American population and some implications of these
changes for education.

Section III briefly discusses the salient features of
the design, while Sec. IV describes the instruments to be
used in the evaluation. Section V details the regression
and cross-tabular analyses to be used, and points out the
difficulties associated with the interpretation of these
data.

Section VI discusses in detail the survey to be con-
ducted to collect background information on San Jose's
Mexican-American population. The final section touches
upon the inherent weaknesses of IQ test scores for the dis-
advantaged and the decision not to use individual ability
measures in the evaluation design. Appendices A and B
reproduce most of the instruments to be used in the
evaluation.

ACKNOWLEDGMENTS

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I. INTRODUCTION: OVERVIEW OF THE EVALUATION DESIGN

PRIMARY OBJECTIVE

The San Jose Unified School District (SJUSD) provides compensatory education for about 2500 students, a majority of whom are Mexican-Americans. The major objective of this evaluation is to obtain adequate information for planning, designing, and implementing these compensatory education programs in the future. To accomplish this aim, two kinds of information are required: First, we need to know what effects the current program is having upon the academic performance and the attitudes toward school of the participants. Second, we need to know as much as possible about the personal and background characteristics of the participants so that future school experiences may be better adapted to their needs. The very existence of compensatory programs for the disadvantaged reflects the fact that the traditional curriculum has not provided them with successful educational experiences. Thus, the current design is intended to collect and analyze the kinds of information on which program changes can be based.

This evaluation of the current program attempts to determine the contribution of the different components to the students' academic achievement. Data will be collected about students' achievement gain, their teachers, teacher-aides, and school experiences. In addition to assessing the overall contribution of program components to student achievement, we will look for differential effects of program components, and combinations of components, at each grade level. A related analysis to assess the contribution of the compensatory components to attitude change will also be made.

The data to assess the effects of background characteristics on achievement will be gathered through an extensive survey of the families in one elementary school in which

enrollment is typical of those needing compensatory education. Children from about 350 families attend the school; since only about half of these are involved in the compensatory program, a natural comparison group is available.

SECONDARY OBJECTIVES

Secondary objectives--outside but closely related to the scope of the evaluation--will be served by the same data.

A questionnaire developed for the survey can serve at least two additional purposes: 1) to compare the present population with the stereotype that has evolved about Mexican-Americans in San Jose; 2) to furnish information about linguistic characteristics of the population that would have relevance for language programs.

An "Inventory of Observed Characteristics" of students completed by compensatory education teachers can also help to improve in-service training. We anticipate finding that differences in patterns of assets and liabilities as perceived by teachers will result in differences in student achievement gains. If this hypothesis is substantiated, the findings can be disseminated to all teachers.

A Parent Questionnaire, data for which will be collected by teachers from preschool through grade six, will provide information that can be used to strengthen school and community relationships.

LIMITS OF THE EVALUATION

Because this is not a planned, controlled statistical experiment, and because there is no control group, extreme care must be exercised in interpreting the results of this study, in particular the regression analyses. The results should be studied with the aid of sophisticated interpreters and should be considered tentative because of the limitations on the design.

Because no youngster can ethically be deprived of compensatory services in order to serve as a member of a control group, no statements about the absolute effects of the program are warranted. What will emerge is data about the relative effects of different combinations of compensatory components. This does not imply that such information is not in itself useful. On the contrary, it can provide a firmer basis than has been available in the past for making decisions about the value of these components, especially if current resource allocations are available by component. Such data can also suggest questions for further study.

If the absolute effects of the program are to be demonstrated, data about a comparable group of students who are not receiving compensatory education should be collected. For this purpose, students from another group of schools in SJUSD could be used.

Further problems of interpretation may arise because students with specific deficiencies will be assigned to components of the program designed to overcome these deficiencies. Therefore, when we measure the presence or absence of that component in the experience of the individual, we are simultaneously measuring the presence or absence of the deficiency. The data analyst will need to bear in mind this confounding of deficiency and treatment when interpreting the results of both the regression and the cross-tabular analyses.

Because of the design constraints and the properties of the data, we would recommend, in addition to the formal analyses, extensive data-snooping to gain further insights into the effectiveness of the program.

Although we have suggested the use of attitude measures at all grade levels, because of lack of experience with the instruments we do not propose using them as dependent variables in a regression analysis. We rely solely on cross-

tabular analysis for assessing the effects of compensatory education on attitude change.

Finally, we have not made use of any intelligence tests, but have relied solely on gains in academic achievement. We are aware that this precludes making any statement about the effects of the program on youngsters of varying ability; but because standard intelligence tests have not proven to be good estimators for the disadvantaged, and because we are uncertain about what they may be measuring in this particular population, it seems preferable to exclude them.

II. DESCRIPTION OF THE SAN JOSE AREA

The San Jose Unified School District (SJUSD) is centrally
located in an area characterized by two important features,
both pertinent to the structuring of compensatory education
programs. The first is a large Mexican-American minority;
the second, an extremely rapid industrialization of the
community. As with other disadvantaged minorities, the
Mexican-Americans constitute a large sector of the compen-
satory education target group. Therefore, the program must
be structured to their specific needs. The industrial change
in the area has enlarged the range of vocational choices and
increased chances of upward mobility. However, the promises
inherent in the situation may never become realities without
adequate educational programs for this minority group.

The three counties in California with the largest number
of Spanish-surname pupils in kindergarten through twelfth
grade are, in ascending order, Fresno, Santa Clara, and
Los Angeles. Table 1 shows the size and ethnic composition
of each. Members of minority groups are rarely evenly dis-
persed throughout the various residential areas of a county.
The Spanish-surname population is no exception. Pockets
appear where this minority constitutes a majority; e.g.,
the downtown area of San Jose. Here, in the poorer districts,
about 70 percent of the pupils in public schools have Spanish
surnames. Knowledge of such concentrations is not sufficient
per se for the structuring of a good compensatory education
program. Additional information is needed on the charac-
teristics of this minority group described by such factors
as strength of ties to Mexico, linguistic habits, and
occupational patterns.

Considerable evidence exists to suggest that state-wide
the Spanish surname population is growing and changing for
two reasons. The first is an increase since the 1930s in
emigration from Mexico to California rather than to other

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Table 1[a]

ETHNIC COMPOSITION OF PUBLIC SCHOOL PUPILS (K-12)[b] OF THE
COUNTIES OF FRESNO, SANTA CLARA, AND LOS ANGELES
(In 000)
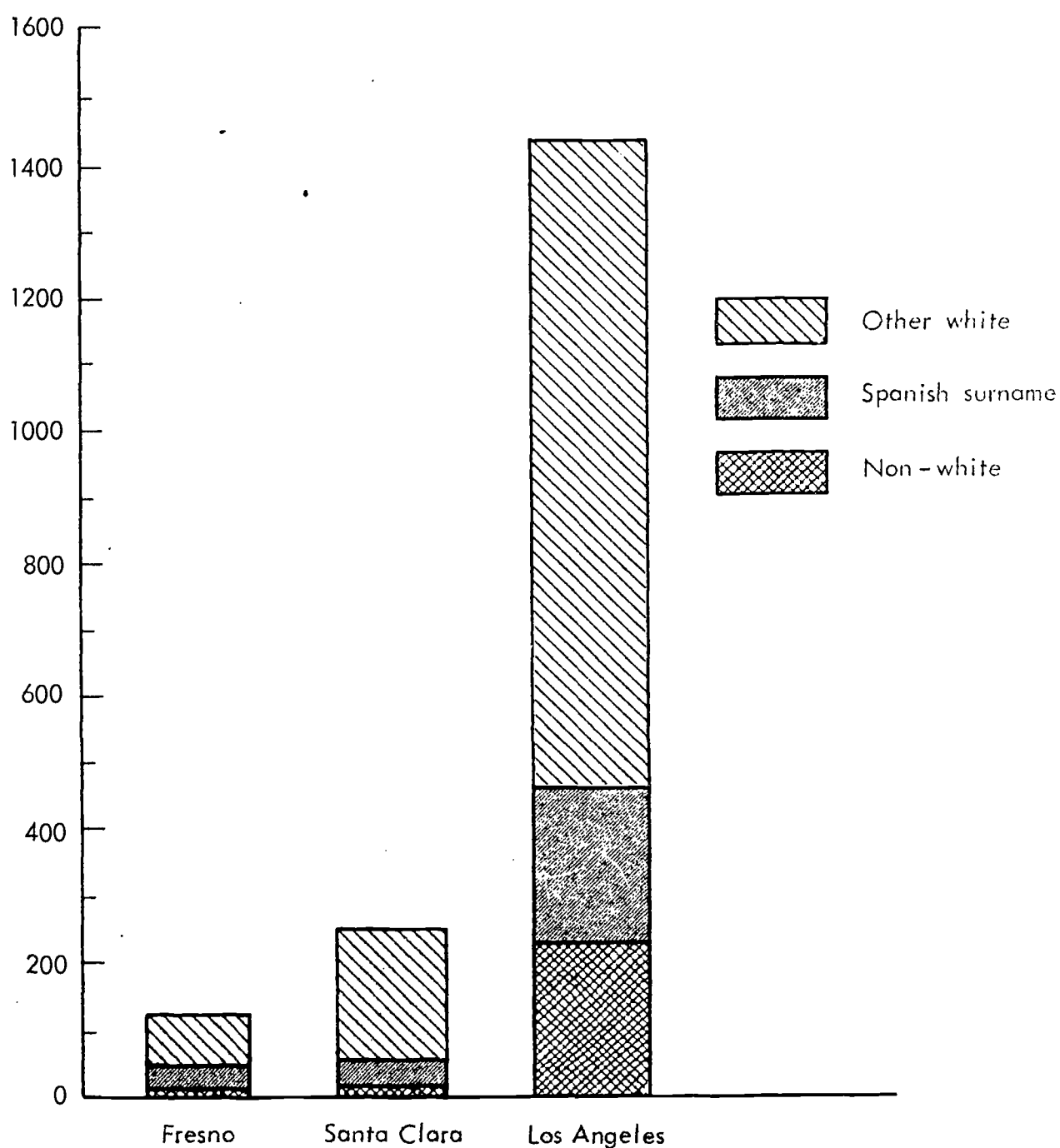
[a]From Ref. 1, App. E.

[b]Includes school-age children receiving special education
(e.g., the physically or mentally handicapped).

southwestern states. The second is a shift of Mexican-
American residents from such states as Texas to California.
Today California has the largest Mexican-born population
of any state in the Union, and has almost surpassed Texas
in the number of citizens born of native Mexican or mixed
parentage.*

As mentioned above, these data are available only on
a statewide basis. The impact of this influx of first and
subsequent generation Mexican-Americans upon the San Jose
Unified School District is to be determined by the back-
ground survey included in this evaluation. The extent of
the change in the composition of this group is important
because the compensatory education programs will require
different emphases depending on the extent of bilingualism,
the recency of immigration, and the degree of urbanization
of the pupils' families.

The increased influx of Mexican-Americans has largely
coincided with a period of general population and industry
growth in California and in Santa Clara County--in particu-
lar, the San Jose area. Figure 1 shows the population
increases between 1940 and 1967 for California, Santa Clara
County, and the city of San Jose.

San Jose's population increase was accompanied by changes
in the occupational structure of both the metropolitan area
and the whole of Santa Clara County. The irrigated acreage,
which has increased in the state as a whole and in such
agricultural centers as Fresno County, decreased in Santa
Clara County between 1954 and 1964 from 115,000 to 79,000
acres [3]. On the other hand, non-agricultural employment
in the Standard Metropolitan Statistical Area of San Jose
more than tripled between 1950 and 1966. As seen in Table 2,
the great expansion of employment was due primarily to the

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*Ref. 2, p. 54, Table 9.
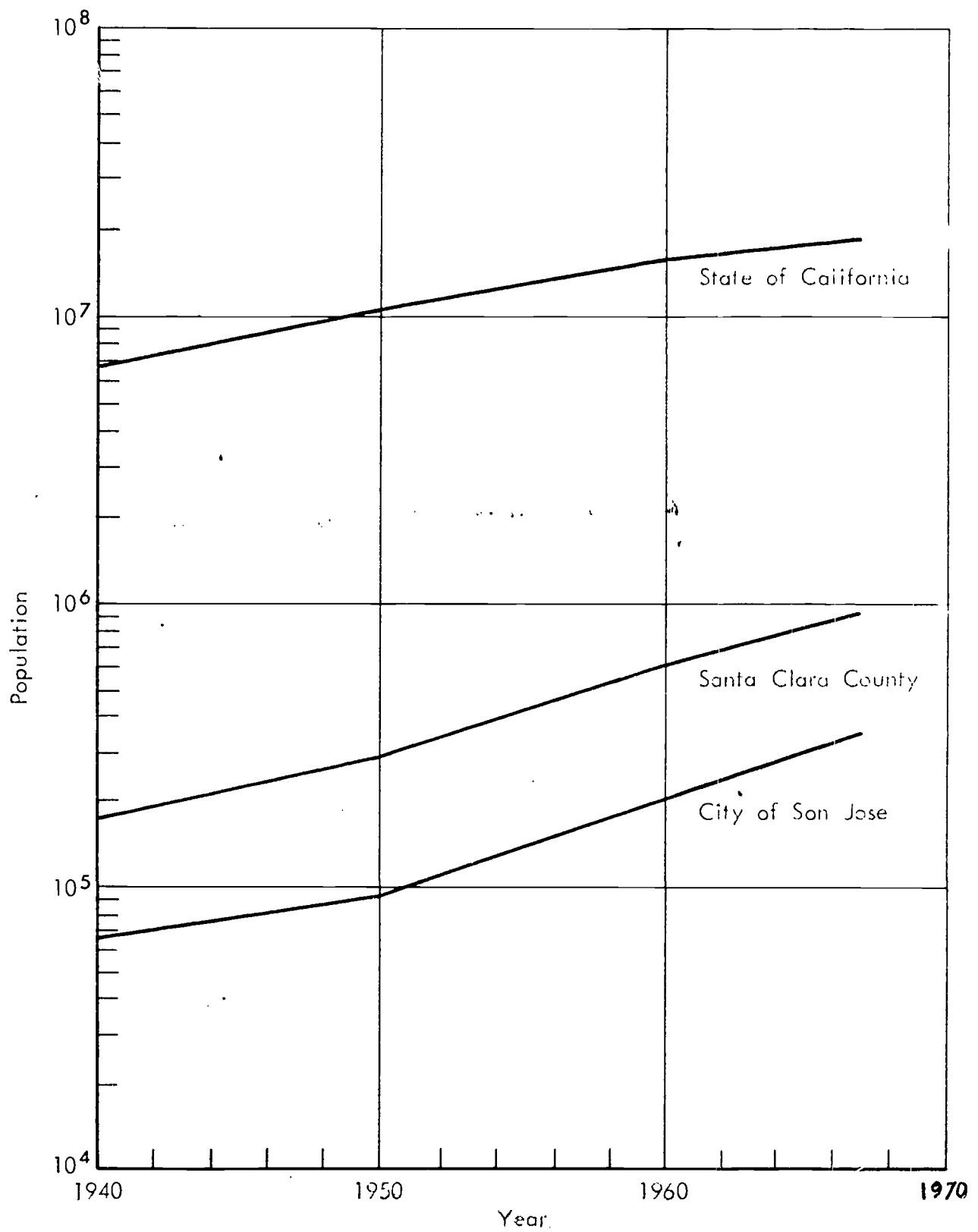
Fig. 1--Population Growth--State of California, Santa Clara County, City of San Jose

Table 2

EMPLOYMENT IN NON-AGRICULTURAL ESTABLISHMENTS IN THE

STANDARD METROPOLITAN AREA OF SAN JOSE

1950-1966[a]

	1950		1960		1966	
	(000)	%	(000)	%	(000)	%
TOTAL	78.0	100.0	191.8	100.0	301.5	100.0
Construction	7.7	9.9	15.5	8.1	16.9	5.6
Mineral extractions	0.1	0.1	0.1	0.1	0.3	0.1
Manufacturing total	21.3	27.3	69.0	36.0	102.8	34.1
Non-durable						
Food and kindred products	10.7	13.7	12.5	6.5	13.1	4.3
Other non-durable	2.3	2.9	5.6	2.9	8.1	2.7
Durable						
Machinery except electrical	1.6	2.1	5.5	2.9	10.6	3.5
Electrical machinery, equipment and supplies	2.5	3.2	16.8	8.8	33.8	11.2
Transportation equipment and ordinance	0.6	0.8	20.7	10.8	27.9	9.3
Other durable	3.6	4.6	7.9	4.1	9.3	3.1
All Services	17.3	22.2	39.7	20.8	68.7	22.8
Trade, finance and real estate	19.9	25.5	40.9	21.4	63.8	21.2
Government	11.7	15.0	26.8	14.0	49.0	16.3

[a]Ref. 3, Table I-14 (1964); Table H-3 (1967).

establishment and expansion of durable goods manufacture.
In 1950 food processing (e.g., canning) accounted for nearly
14 percent of non-agricultural employment and was the largest
single manufacturing activity. By 1966 it accounted for
only 4 percent, while the electrical machinery and equipment
industry--with 11 percent of the labor force--had become
the largest single manufacturing employer. Transportation
and ordinance equipment, insignificant in 1950, had risen
to second place in the manufacturing field, employing over
9 percent. Services, trade, finance and government, always
important employers, have held their share over the years.
In the course of 15 years, San Jose had changed from a food-
processing center to a metropolitan area, concentrating on
the manufacture of hard goods. Employment opportunities and
educational and training requirements are now vastly dif-
ferent from what they were in 1950 (more so than in an area
like Fresno).

In addition to diversified employment opportunities, the
San Jose area has another characteristic that makes good com-
pensatory education particularly relevant. Compared to some
other areas in California, and particularly to other south-
western states such as Texas,[*] San Jose always has been a
relatively "soft" area in terms of prejudice against the
Mexican-American.[†] Therefore, given an education in high-
level skills, good employment opportunities are available.

The San Jose Unified School District has about 35,000
students, 2500 of whom are involved in the compensatory
education program during the current school year, 1968-1969.
The outlay involved comes to 1.3 million dollars, 70 percent
of which are federal funds. Table 3 shows the various pro-
grams now in operation, the cost of each, the number of

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[*]See Ref. 4, pp. 215-218; also, Ref. 5, p. 21.

[†]Discussions with Mr. William Doyle, Supervisor of
Compensatory Education, San Jose Unified School District.

children participating in each, and the source of funds.
The programs for which this evaluation has been designed
are separated from those to which it is not applicable.

Since a large overlap exists in pupils receiving
various compensatory services, the evaluation design
assesses combinations of services, rather than programs
by funding sources.

Table 3

COMPENSATORY EDUCATION PROGRAMS IN SJUSD

	Dollars (000)	Number of Pupils in Program	Source of Funds
Programs included in design			
ESEA Title I	752	2600	Federal
Senate Bill 28			
Class reduction	131	1700	State
Head Start--36 weeks	14	17 (1 class)	Federal
Assembly Bill 1331			
Pre-school	146	165	Federal (75%) State (25%)
Programs not included in design			
ESEA Title II	32	Not Applicable	Federal
Senate Bill 28			
Demonstration	225	70	State
Head Start--Summer, 8 weeks	25	170	Federal

As can be seen from Table 3, the Federal government provides the major share of the funds through Title I of the *Elementary and Secondary Education Act (ESEA)* [6]. This title of the statute is designed to meet the special educational needs of children coming from low-income families. The average census-tract family income, as shown in the 1960 census and the number of local Aid to Dependent Children cases for the January preceding the program funding, defines the target areas. Nationwide, roughly one billion dollars per year has been distributed under this title since 1965.

Title II of ESEA provides for books and other teaching materials. Since these resources are not limited to program participants, no figure is given in the "number of pupils" column.

The OEO-funded Head Start Program is well known and need not be described here. The SJUSD has found it somewhat cumbersome to administer for two reasons. Among other requirements, the teacher must ascertain the specific family income for each child in order to determine the pupil's eligibility. Furthermore, the definition of parent participation is extremely rigid and limits the needed administrative flexibility. Since an alternative source for financing preschool education is available through Assembly Bill 1331 (Miller-Unruh Bill), the District is relying on it rather than on the Head Start programs for early childhood education.

The eligibility requirements of the Miller-Unruh Bill are more liberal than those for Head Start. To be eligible, children must be actual or "potential" AFDC recipients. The decision as to who is a "potential" recipient is made by the County Welfare Department. In addition, the guidelines give priority to those children coming from homes in which English is not the primary language [7]. Obviously, areas with large Mexican populations are primary targets.

California Senate Bill 28 funds have been provided
under the McAteer Act of 1965. However, renewed funding
for the next school year (1969-1970) is now contingent upon
new legislation. The program has had two purposes. The
first is to provide pilot and demonstration projects at
the junior high school level. The SJUSD has had and con-
tinues to have such a program, known as Project R-3(which
is being evaluated separately). The second purpose has
been to provide extra teachers at all grade levels in order
to reduce the pupil-teacher ratio from 30:1 to 25:1. This
part of SB 28 is included in the present evaluation design.
Sixteen teachers were paid through this funding operation.

The distribution of compensatory education funds with-
in SJUSD is in accord with state guidelines and the phil-
osophy of the District itself. Both SJUSD and the State
Department of Education prefer "saturation" programs that
make the components of the compensatory program available
to a selected portion of the eligible students, rather than
spreading the funds, and therefore the benefits, thinly
over a larger population. SJUSD has two high schools
eligible for compensatory education services, but only one
high school--together with its feeder elementary and junior
high schools--was chosen for these programs.

III. THE EVALUATION DESIGN

In the interests of program planning and improvement,
the San Jose Unified School District is currently under-
taking an extensive investigation of their compensatory
education program. Beyond evaluating the program, an attempt
is being made to gather as much information as possible about
its students, classroom activities, curriculum, and teachers.

Each year decisions must be made about which components
of the compensatory education program should be continued
and which, if any, discontinued. Up until now, because of
insufficient experience with the program, decisions have been
based on little more evidence than that the program seems to
be working. Previous investigations have been confined to
pre- and post-tests with such instruments as the Peabody
Picture Vocabulary Test in preschool and kindergarten, and
the California Achievement Tests from grade one on.

The question now is "Can the effects of the different
components of the compensatory education program be suf-
ficiently isolated to assess their contributions to achieve-
ment and attitude change?" The classroom will be the unit
analyzed. The students can be described in terms of age,
sex, and ethnic background; the teacher--and teacher-aide,
if provided--in terms of age, sex, length and type of
experience. The tasks performed by the teacher-aide can
be characterized from the point of view of both the aide
and the teacher. Finally, accurate records of classroom
activities will furnish a relatively complete description
of the experience that each child had.

In the SJUSD, the target population for the compensatory
program is largely Mexican-American. In the target schools
receiving these services, the proportion of Mexican-American
youngsters ranges from 59 to 92 percent. The program
affects about 2500 youngsters in grades kindergarten through
high school and an additional 182 youngsters enrolled in the

preschool program. More than half of the youngsters re-
ceiving compensatory services are enrolled in grades 1
through 3, while only about 50 are in high school (and will
not be included in the evaluation). Table 4 [8] shows a break-
down of the children receiving aid: col. 1 indicates the
school; cols. 2-3, number of pupils preschool through grade
12; col. 4, percentage of Mexican-Americans in school;
cols. 5-6, number and percentage of pupils in compensatory
program. Table 5 gives a breakdown by grade of the number
of youngsters receiving services.

STUDENT CHARACTERISTICS

The SJUSD description of student characteristics in-
dicating a need for special educational assistance resembles
that of any group of disadvantaged youngsters:

> Their classroom performance is significantly below
> grade level in reading; their performance is poor on
> standardized tests; they function at a low level of
> verbal performance; they perform poorly on standardized
> tests of intellectual ability; they have a negative
> attitude toward school and education; their occupa-
> tional and educational aspiration level is low; the
> dropout rate is high; their absence rate is high;
> their attention span is short; and, as a group, they
> have many disciplinary problems.*

PROGRAM OBJECTIVES

Based on this description, the program objectives are
spelled out as follows:

1) To improve classroom performance in reading beyond
   usual expectation.

2) To improve performance as measured by standardized
   performance tests.

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*Ref. 9, pp. 11-23 passim.

Table 4

CHILDREN RECEIVING COMPENSATORY EDUCATION SERVICES

SCHOOL YEAR 1968-1969 [8]

	No. of Pupils Preschool	No. of Pupils K-12	% Mexican-Americans K-12	No. of Pupils in Program Preschool-12	% of Pupils in Program Preschool-12
Elementary					
A. Darling	30	672	68.0	223	31.8
Belden	60	394	58.6	60	13.2
Gardner	32[a]	666	86.2	222	31.8
Grant	--	873	67.1	207	23.7
H. Mann	--	560	68.4	206	36.8
Jefferson	30	423	63.4	30	6.6
Longfellow	15	144	91.7	122	76.7
S. Olinder	--	711	73.8	324	45.6
Washington	15	940	75.4	326	34.1
	182	5383	71.8 Avg.	1720	30.9 Avg.
Junior High					
P. Burnett		715	59.7	130	18.2
T. Roosevelt		977	62.9	510	52.2
W. Wilson		710	72.8	182	25.6
		2402	64.9 Avg.	822	34.2 Avg.
Senior High					
San Jose		1490	60.9	47	3.2
Grand Total		9275	63.3 Avg.	2589	27.4

[a]Includes one all-year round Head-Start class of 17.

Table 5

CHILDREN RECEIVING COMPENSATORY EDUCATION SERVICES
IN PUBLIC SCHOOLS AND PAROCHIAL SCHOOLS--BY GRADE[a]

	Program Participants	
Grade	Enrolled in School	% of Participants
Preschool	182	6.6
Kindergarten	316	11.4
Grade 1	401	14.5
Grade 2	429	15.5
Grade 3	266	9.6
Grade 4	139	5.0
Grade 5	73	2.6
Grade 6	89	3.2
Grade 7	299	10.8
Grade 8	311	11.3
Grade 9	212	7.7
Grade 10	37	1.3
Grade 11	10	0.4
Grade 12	0	0.0
	2764	100.0

[a]Figures provided by Mr. William A. Doyle,
San Jose Unified School District, San Jose,
California.

3) To improve children's verbal functioning.

4) To improve performance as measured by standardized tests of intellectual ability.

5) To increase their expectation of success in school.

6) To improve their self-image.

7) To change in a positive direction their attitude toward school and education.

8) To raise their occupational and education levels.

9) To improve the holding power of school (to decrease the drop-out rate).

10) To improve average daily attendance.

11) To improve and increase attention span.

12) To reduce the rate and severity of disciplinary problems.[*]

PROGRAM COMPONENTS

The compensatory education program provides the following kinds of services:

1) Teacher-Aides;

2) Special remedial teachers;

3) Enrichment activities;

4) Study trips;

5) Computer-assisted math;

6) Language laboratories (on the secondary level);

7) Counseling services;

8) English as a second language;

9) Parent-Community involvement;

10) In-service training of teachers and aides.

This Memorandum is primarily concerned with the first eight of these components, whose effects as direct services to youngsters can be assessed. On the other hand, parent-community involvement and in-service training, while essential

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[*]Ref. 9, p. 14ff.

ingredients of the program, are indirect services that at
least need to be described if their contributions to student
progress are to be assessed in the future.

PRESCHOOL PROGRAM

The district's preschool program is designed to com-
pensate for social, economic, environmental, educational,
and cultural circumstances that hamper the disadvantaged
child's success in the regular school program.

This aim is translated into the following program
objectives:

To help children:
1. Learn to work and play independently.
2. Learn to interact effectively with other
children.
3. Develop self-identity.
4. Realize many opportunities to strive and
succeed--physically, intellectually and
socially.
5. Sharpen and widen language skills.
6. To seek answers to questions.*

DATA COLLECTION

Ethical considerations require that no child be de-
prived of any services he might otherwise receive in order
to serve in a Control Group. This restriction results in
a non-standard experimental situation, calling for *ad hoc*
statistical treatment (detailed in Sec. V).

Within this framework, we have developed a data-
collection procedure for describing each youngster in terms
of his personal and (at one school) his family character-
istics; the kinds of compensatory education experiences he
receives, the teachers and aides who taught him; and his
characteristics at the end of the program, including

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*Ref. 10, p. 26.

cognitive gain. The details of the data-collection schedule
are presented in Table 6.

Background Survey

Because of the need for background information on
youngsters receiving compensatory education, the decision
was made to conduct a rather extensive survey in an ele-
mentary school whose population is typical of the students
receiving compensatory services in SJUSD. (A sample of
families with children attending other schools will be
surveyed in order to test the assumption that this school
is typical.)

The Questionnaire to be used in the survey is described
in Sec. VI (and reproduced as App. A) of this Memorandum,
but it seems appropriate here to discuss its purposes.

The first is to determine whether the effects of back-
ground variables on a youngster's performance in the class-
room can be identified. The section of the survey devoted
to this purpose asks questions about the size of the family
and the child's place within it; causes of absences from
school; the socio-economic status of the family (including
information about welfare dependency); whether there is an
extended family pattern; closeness of cultural ties to
Mexico; parental aspirations for the child; parental contact
with the school; the language pattern of the home; and the
family's reading habits.

Much of the literature on disadvantaged youngsters
suggests that the above factors strongly influence their
achievement. But much work remains to be done on such
questions as: Does low income *per se* have a strongly
damaging effect upon school achievement, or does such an
impact occur only when the frequent concomitant of low
income--viz., low parental educational level--is present?
Does welfare dependency have more of an effect upon school
achievement than that associated with equally low but earned

Table 6

DATA COLLECTION SCHEDULE

	Pre-school	K	1	2	3	4	5	6	7	8	9	Source of Instrument other than SJUSD or RAND
Student Master File Data Form	x	x	x	x	x	x	x	x	x	x	x	
Parent Questionnaire	x	x	x	x	x	x	x	x				Cincinnati (adapted)
												Cincinnati
												Cincinnati
												Milwaukee
	x	x	x	x	x	x	x	x	x	x	x	Cincinnati
	x	x	x	x	x	x	x	x	x	x	x	Cincinnati
		x	x	x	x	x	x	x	x	x	x	Oakland
		x	x	x	x	x	x	x	x	x	x	Oakland
		x	x	x	x	x	x	x	x	x	x	
												Cincinnati
						x	x	x	x	x	x	Cincinnati
										x	x	x	
	x	x	x	x	x	x	x	x	x	x	x	
		x	x	x	x	x	x	x	x	x	x	

income status? This evaluation will try to provide some tentative answers to these questions.

A second purpose of the survey is related to but not directly concerned with the evaluation. Stereotypes about Mexican-Americans, many of which were formulated twenty or more years ago, are used in planning educational experiences for these children. It is important to know if Mexican-Americans with children in school conform to these stereotypes. Pertinent questions would address the mobility rate; the frequency of visits to and communication with Mexico; whether families from Mexico plan to stay in the United States or return to Mexico. In addition, data about the parents' view of, and expectations from, the school will be collected and used as an aid to improving school and community relationships.

The third purpose of the survey is to assess the language patterns of the relevant Mexican-American population. District personnel often refer to a bilingual population; but they are not really sure about 1) how extensively both Spanish and English are used, 2) which language(s) parents speak with their children, 3) the quality of either language as it is spoken. While these data will not be used in the evaluation, they have many implications for curriculum development.

Inventory of Observed Characteristics

Much has been written about the weaknesses of disadvantaged youngsters, and most curricula are planned to help overcome these weaknesses. But it has been pointed out recently that their special strengths are being overlooked [11-13]. Therefore, a collection of statements culled from the literature on disadvantaged youngsters* provided the basis for a questionnaire. In addition to

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*In addition to the three previous citations [11-13], see Refs. 14-17.

strengths and weaknesses, differences in cognitive style
and emotional response from the pattern of the majority
are spelled out. These characteristics bear significant
implications for the handling of children, and for tech-
niques of teaching.

A questionnaire ("Inventory of Observed Characteristics")
has been developed that will reveal, it is hoped, charac-
teristics of a disadvantaged population that hitherto has
been largely stereotyped.* This questionnaire lists 41
traits often attributed to youngsters in need of compensatory
education services. The teachers will first be asked to
check the frequency with which they observe each character-
istic, and then to indicate whether they consider it to be
an asset, liability, or merely an observed difference.
Provision will be made for teachers to add characteristics
not listed, but which they feel influence classroom per-
formance. While these characteristics have no direct impli-
cations for the evaluation, they do have a strong bearing
on program planning and improvement, especially in the area
of in-service training for teachers.

DATA ANALYSES

To carry out this evaluation, several types of data
analyses will be required with statistics tailored to the
precision and quantity of the data bases. The following
brief discussion of these analyses (detailed in Sec. V)
touches on their purpose in the design.

We need to divide our consideration into two parts:
1) analyses associated with determinants of learning and
attitude that are school related; and 2) determinants that
are family and culture related.

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*The construction of this questionnaire was suggested
by the Milwaukee evaluation of their Head Start Summer Pro-
gram, 1965 [18]; and by an article by Patrick J. Groff [19].

The effects of the school situation on learning will
be assessed by a regression analysis with academic gain
as the dependent variable, and information about the com-
pensatory components and teachers, plus the student's age,
sex, and ethnic background as the independent variables.

An additional approach will be taken in trying to de-
termine whether there are differential effects on learning
produced by exposure to different components, or combinations
of components, of the program. A related question will also
be investigated: Do these effects differ from one grade
level to another? We will be able to sort out the youngsters
who have had each component and combination of components
at each grade level. We can then compare achievement gains
for each of these groups. This will be accomplished by
cross-tabular analysis. For reasons discussed in Sec. V,
we plan to use only the second approach to assess the effects
of the school situation on attitude.

In analyzing the determinants of learning and attitude
that are family and culture related, we will use a smaller
sample: the children in compensatory education programs who
attend one elementary school. An in-depth survey is planned
of all the families whose children attend that school. (For
a full discussion of the survey, see Sec. VI.) Regression
analysis will be used with data from the survey as the
independent variables. The dependent variable will be
academic gain. Since only about half the students in the
school are in compensatory programs--but background data
will be collected on all the children--there will be a com-
parison group available.

IV. THE EVALUATIVE INSTRUMENTS

This section contains brief descriptions of each
instrument used in the evaluation, and identifies in which
analysis it will be found. (Page numbers following titles
refer to copies of instruments reproduced in App. B.) For
the sake of brevity, the analyses are referred to as follows:

Academic gain--the effect of components on student
achievement.

Attitude change--the effect of components on student
attitudes.

Background--the effect of background variables on
student achievement.

1) *Student Master File Data* form (p. 84) is being
developed for use throughout the SJUSD. Student Master File
Data cards will be initiated for each student entering the
school system. His identifying number will remain unchanged
as long as he is in a District school. This identifying
number will be used on all data collected about a student
during the evaluation. Since the card will be updated each
time a student transfers to another school, it provides a
mechanism for double-checking school records. (The cards
will be used for the first time in this evaluation.)

2) *Parent Questionnaire* (p. 85) contains 14 questions
relating to parents' views of the school and expectations for
their children. It also touches on the amount of parent
participation in school activities, and their contacts with
the school. It will be conducted by pre-school through
sixth-grade teachers. The information will be used primarily
to assess and strengthen school-community relationships.
There are no plans for incorporating the data in any of the
analyses.

3) *Goal Card for Pre-Kindergarten* (pp. 86-92)
(developed for the Cincinnati Head Start Program) measures
skills and abilities deemed important to success in kinder-
garten. The test yields scores in cognitive skills, lan-
guage facility, listening skills, social skills, physical
coordination, and mental alertness. It will be administered
on an individual basis by a psychologist. Used as a pre-
and post-test it will provide a measure of academic gain.
In addition to the evaluative function, it will be used to
determine areas in which the preschool program needs
strengthening.

4) The last part of the *Goal Card for Pre-Kindergarten*
(pp. 91-92), which deals largely with social skills, will be
administered in the kindergarten as a measure of the previous
year's preschool program.

5) *Social Behavior Skills Checklist* (p. 93)
(Milwaukee) provides measures of a youngster's ability to
participate in a classroom situation, including his play
habits, relationship to adults, use of language, and use
of manipulative materials. It will be filled out by his
teacher at the beginning and end of the school term in pre-
school and kindergarten. The checklist will act as a
surrogate for measuring attitude change.

6) *Teacher/Aide Task Report* (pp. 94-95) (Cincinnati)
lists 29 functions often performed in the classroom by
teacher-aides. Also indicated is the frequency with which
each task is performed (on a five-point scale from Never to
Always). This checklist will be filled out independently by
both teachers and their aides in grades preschool through nine.
A measure of the congruence between teacher and aide re-
sponses has been developed for use in analyses of academic
gain and attitude change (see Sec. V, pp. 39-40).

7) *Teacher Rating of the Aide* (p. 96) (developed
in Oakland, Calif.) is a seven-question form for assessing

an aide's willingness to perform assignments, her interaction with children, interest, and initiative. Each question answered in the affirmative also requires a frequency check (Occasionally, Frequently, Always). Each teacher in grades preschool through nine who has an aide will complete the rating form. It will be used in the analyses of academic gain and attitude change.

8) *Evaluation of In-Service* (p. 97) (Oakland, Calif.), to be completed by all participants after each session, will be used for program improvement; but the data will not be included in the analyses.

9) *Checklist of Parent Involvement* (not reproduced) will record each parent's participation in the preschool program. These data will be used in analysis of both academic gain and attitude change.

10) *Parents Comments on Preschool Class* (in English and Spanish) (pp. 98-99) will be used for program improvement, but not in the analyses.

11) *Weekly Checklist of Classroom Activities* (not reproduced) will provide the Preschool Program Director with detailed information about each of the classes, but will not be used in data analyses.

12) *Compensatory Services Provided Students* (not reproduced) will record in grades one through nine of the program components in which each student participated. This information will be used to determine if there are differential effects (i.e., academic gain and/or attitude change) on students attributable to the components, or combinations thereof, to which they were exposed.

13) *Attitudes Toward Self and School (Grades 1-3)* (pp. 100-101) (Cincinnati) consists of 18 questions read by the teacher to the class. The answer sheet shows sets of smiling and frowning faces, a pair for each question, that the children mark according to their feelings about the

questions. It will be administered as a pre- and post-test in grades one through three, and will be the dependent variable in the analysis of attitude change.

14) *California Achievement Test* (not reproduced) in reading, math, and language--administered in grades one through nine as pre- and post-test--will be used as the dependent variable in the analysis of academic gain.

15) *Student Survey* (p. 102) (Cincinnati) consists of 25 Yes or No questions about students' feelings toward school, their aspirations, and their parents' involvement with their school work. It will be administered as a pre- and post-test in grades four through nine, and will be the dependent variable in the analysis of attitude change.

16) *Oral Language Skills* test (p. 103) elicits responses to five questions. The questions are on tape, and the student's responses are recorded on another tape. A pre-test will be analyzed by a speech therapist for both quantity and quality of response. In addition to yielding an evalu-ative score, the test will be used as a diagnostic instru-ment so that individual programs may be adapted to each student's needs. A post-test will be administered in the same way, and the differences between the two scores will be used as a measure of academic gain for students in the seventh, eighth, and ninth grades who are enrolled in the language-laboratory component.

17) *Inventory of Observed Characteristics* (pp. 104-108) comprises 41 adjectives and short phrases culled from the literature describing the disadvantaged child. All teachers in compensatory programs will estimate the observed frequency of each characteristic in their classes and indicate whether they consider each to be an asset, a liability, or simply a difference. If our hypothesis that differences in per-ceived patterns of assets and liabilities result in dif-ferences in student achievement is supported, the results

may influence the in-service training. Scoring procedures
will then be established so that the Inventory may be used
in future evaluations.

V.   THE DATA ANALYSIS

Data will be collected and analyzed in accordance with
the previously stated objectives of the evaluation: 1) to
learn what effects the current compensatory program is having
upon a) the academic performance, and b) the attitudes toward
school of the participants; 2) to relate students' backgrounds
to their academic performance.

A technique well suited to the study of the determinants
of academic performance is stepwise regression.   Regression
is a statistical procedure to relate a dependent variable
(such as achievement gain) to a set of independent or
predictor variables (such as which compensatory components
a student received, or some quantitative description of his
family background).   In the simplest regression situation,
the dependent variable is expressed as a weighted linear
combination of the predictor variables.   That is, if Y de-
notes the dependent variable and $(X_1,...,X_p)$ denotes the
predictor variables, then

$$Y = \beta_1 X_1 + ... + \beta_p X_p + \varepsilon$$

where ε is an error term, and some of the weights (the β's)
may be zero reflecting the relative unimportance of the
corresponding predictor variables.   More complicated, non-
linear functions could also be considered but do not seem
appropriate for the present purposes.

The statistical estimation problem associated with
regression is to obtain a set of regression coefficients
(the weights assigned to the predictor variables), and to
determine if the regression equation is an adequate descrip-
tion for the supposed relation between the dependent vari-
able and the predictor variables.

In the stepwise regression procedures, only tentative consideration is given to relating the dependent variable to the entire set of predictor variables. One seeks to extract from the entire set of predictor variables the smallest subset that achieves an adequate description of the dependent variable, and thereby to exclude from consideration those predictor variables unimportant for this purpose.[*]

Two computer programs to accomplish stepwise regression are program BMD02R of the Biomedical Computer Programs [27] and program STEPR of the IBM System/360 Scientific Subroutine Package [28].[†]

Draper and Smith [20] give an excellent discussion of regression generally and of stepwise regression in particular. (This reference is useful to anyone with an elementary understanding of calculus.) They state that stepwise regression is the best variable-selection procedure (among those they discuss) and recommend its use. They go on to say, however, that

> . . . stepwise regression can easily be abused by the 'amateur' statistician [and that] sensible judgment is still required in the initial selection of [predictor] variables and in the critical examination of the model through examination of residuals [i.e., the difference between the observed dependent variables and the corresponding value predicted by the regression equation]. It is easy to rely too heavily on the automatic selection performed in the computer.[**]

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[*] It is a property of stepwise regression that the order in which variables enter the analysis plays no role in determining the final regression equation. (See Ref. 20, p. 171.) We mention this because of the controversy surrounding the "Coleman Report" [21] on this score; see, e.g., Ref. 22 and responses and rejoinders thereto [23-26].

[†] The BMD02R program can accommodate a total of 80 variables--counting dependent and predictor, and including all combinations of predictor variables. The STEPR program can handle 119 variables on the IBM 7044 and up to 250 variables with double-precision arithmetic on a 512K IBM 360/65.

[**] Ref. 20, p. 172.

We note that residuals can be simply displayed in each of
the two stepwise regression computer programs cited above.

The dependent variable in this study is gain in grade
level. In the absence of a control group, this gain in
grade level is measured relative to the students under study
and not with respect to the gains of a comparable set of
students receiving only the standard school curriculum.
Students with comparable socio-economic backgrounds to those
students in the Title I schools are available in other schools
in the SJUSD. We recommend constituting a control group from
these schools in a future study and giving this group the
same pre- and post-tests as the Title I students.

Relative measures of gain are not being denigrated here.
On the contrary, with proper interpretation they can provide
valuable insights into the benefits of the present program,
suggest guidelines for future programs, and raise questions
for further study.

Note that the predictor variables selected by the step-
wise regression as achieving a good description of gain in
academic performance are not necessarily those with the
greatest educational effect. For example, a predictor
variable may be inversely related to educational gain.

When the final regression equation has been obtained--
i.e., the equation that contains only those predictor vari-
ables having a significant explanatory effect for gain in
academic performance--it can be used as follows. Given the
values of the significant predictor variables (those that
occur in the final regression equation) for a particular
student, one calculates the predicted gain in academic
performance.* Rather than placing any emphasis on the
particular predicted gain, we suggest that the individual

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*Change in academic performance is measured by change
in grade placement (as determined from a standardized test
such as the California Achievement Test) between the end
and beginning of the school year.

be classified as one with high, low, or average achievement
gain . These categories may, provisionally, be defined by:
high achievement gain--1 year's growth or more in grade
placement; low achievement gain--less than six months'
growth; average achievement gain--between six months and
a year's growth in grade placement.

A word on the interpretation of the final regression
equation: The data gathered in this study are not the
product of a planned, controlled statistical experiment;
i.e., no systematic matching of students and compensatory
components was made. Rather, the data reflect for each
student whatever components he received. This is a con-
sequence of the ethical consideration that no student be
deprived of any program component he might otherwise receive
in order that he serve as a subject or control in an ex-
periment. We have no quarrel whatever with this constraint,
but merely wish to point out that this can lead to problems
of interpretation. It may well be that students having
specific educational or social deficiencies will be assigned
certain components of the compensatory program. Hence when
we measure the presence or absence of that component in the
experience of the individual, we are simultaneously measuring
the presence or absence of some academic or social deficiency.
There seems to be no way around this problem short of a random
assignment of components to students--a procedure ruled out
in the present instance. We must stress further that random-
ness cannot be demonstrated by merely ruling out obvious or
conscious sources of bias. Rather, a positive requirement
for the analyst is to insure that the procedures used did
indeed yield randomness [29]. Thus, extreme care must be
used in interpreting the results of this study. They should
be considered as guides to formulating hypotheses about and
gaining insight into the value of various combinations of
compensatory components; but not as the definitive, final
word on the subject.

With these caveats in mind, we proceed to discuss
1) the analysis of the effect of the school-related factors
on achievement gain and on attitude change, and 2) the
analysis of the effect of background characteristics on
achievement gain and attitude change.

THE EFFECT OF SCHOOL-RELATED FACTORS

This discussion of the analysis of the effect of school-
related variables upon academic gain focuses on stepwise
regression procedures, with some mention of "data-snooping"
via cross-tabulations. Because of lack of experience with
the instruments used to assess attitude change, we hesitate
to use them as dependent variables in a regression. Rather
we would rely on cross-tabular analysis in this first ex-
posure to these instruments, learning what we can about
attitude change, and at the same time assessing their use-
fulness for subsequent studies.

We assume that the school-related factors pertinent to
a student can be described by a vector of predictor variables
$(X_1,\ldots,X_p)$. The stepwise regression procedure determines
the smallest subset of these predictor variables that gives
an adequate description of the dependent variable, gain in
academic performance. The scope of the predictor variables
is indicated in Table 7. Note that most are dichotomous,
or so-called "dummy," variables, i.e., they take on the
value 1 if a certain criterion is satisfied and take on the
value 0 otherwise. For example, a dummy variable indicating
sex could be coded to take on the value 1 if male and 0 if
female; a series of dummy variables, D_1, D_2, D_3 indicating
which of three schools attended could be set up as follows:

$$D_1 = \begin{cases} 1 & \text{if the student attends school 1} \\ 0 & \text{otherwise,} \end{cases}$$

$$D_2 = \begin{cases} 1 & \text{if the student attends school 2} \\ 0 & \text{otherwise,} \end{cases}$$

$$D_3 = \begin{cases} 1 & \text{if the student attends school 3} \\ 0 & \text{otherwise.} \end{cases}$$

Another series of dummy variables indicating which of two services received could be coded as:

$$D_4 = \begin{cases} 1 & \text{if the student received service 1} \\ 0 & \text{otherwise,} \end{cases}$$

$$D_5 = \begin{cases} 1 & \text{if the student received service 2} \\ 0 & \text{otherwise.} \end{cases}$$

Note that new dummy variables reflecting simultaneous events can now be defined as products of those already set up. For example, consider $D_6 = D_3 D_5$. Clearly, D_6 takes on the value 1 if and only if the student attends school 3 *and* received component 2; otherwise, D_6 is zero. Extensions of this device to indicate the simultaneous occurrence of more than two events are made analogously.

Table 7

SCHOOL-RELATED VARIABLES

Description of Variable	Value of Variable
Grade[a]	A separate dichotomous variable for each grade from pre-kindergarten through 9. $$X_1 = \begin{cases} 1 & \text{if student is in pre-kindergarten} \\ 0 & \text{otherwise} \end{cases}$$ $$X_2 = \begin{cases} 1 & \text{if student is in kindergarten} \\ 0 & \text{otherwise} \end{cases}$$ $$\vdots$$ $$X_{11} = \begin{cases} 1 & \text{if student is in grade 9} \\ 0 & \text{otherwise} \end{cases}$$
Compensatory program component	A separate dichotomous variable for each component. $$X_{12} = \begin{cases} 1 & \text{if teacher-aide is used in student's class} \\ 0 & \text{otherwise} \end{cases}$$ $$X_{13} = \begin{cases} 1 & \text{if student gets special remedial teaching} \\ 0 & \text{otherwise} \end{cases}$$ $$X_{14} = \begin{cases} 1 & \text{if student gets enrichment activities} \\ 0 & \text{otherwise} \end{cases}$$

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[a]We intend that the regression analysis be run grade-by-grade; i.e., a separate regression for each grade. (However, if the sample size is too small in some grade, adjacent grades could be aggregated for joint analysis.) Thus only one of the variables X_1 through X_{11} will ordinarily be in any regression.

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Table 7--Continued

Description of Variable		Value of Variable
	$X_{15} = \begin{cases} 1 \\ 0 \end{cases}$	1 if student takes study trips 0 otherwise
	$X_{16} = \begin{cases} 1 \\ 0 \end{cases}$	1 if student gets computer-assisted math instruction 0 otherwise
	$X_{17} = \begin{cases} 1 \\ 0 \end{cases}$	1 if student uses language labs (secondary level only) 0 otherwise
	$X_{18} = \begin{cases} 1 \\ 0 \end{cases}$	1 if student gets counseling services 0 otherwise
	$X_{19} = \begin{cases} 1 \\ 0 \end{cases}$	1 if student participates in "English as a Second Language" program 0 otherwise
Hours per day of resource teacher	X_{20}	The average number of hours per day of a resource teacher's time that the student gets
"Congruence" between teacher and aide	X_{21}	A percentage measure to be described below
School		A separate dichotomous variable for each school
	X_{22}	Anne Darling
	X_{23}	Gardner

Table 7--Continued

Description of Variable	Value of Variable	
	X_{24}	Grant
	X_{25}	Horace Mann
	X_{26}	Longfellow
	X_{27}	Selma Olinder
	X_{28}	Washington
	X_{29}	Peter Burnett
	X_{30}	Woodrow Wilson
Age	X_{31}	Age in years
Sex	$X_{32} = \begin{cases} 1 & \text{if male} \\ 0 & \text{if female} \end{cases}$	
Ethnic background	$X_{33} = \begin{cases} 1 & \text{if Spanish surname} \\ 0 & \text{otherwise} \end{cases}$	
	$X_{34} = \begin{cases} 1 & \text{if other white} \\ 0 & \text{otherwise} \end{cases}$	
	$X_{35} = \begin{cases} 1 & \text{if non-white} \\ 0 & \text{otherwise} \end{cases}$	
Teacher	A separate dichotomous variable for each teacher. We will not make the assignment here	

Products of dichotomous variables play an important role in the analysis. For example, products of variables selected from X_{12} through X_{19} reflect all combinations of compensatory components actually experienced; products of grade, school, and teacher variables define particular classes (although in elementary grades there is usually a unique correspondence between teacher and class), etc.[*]

In setting up the combinations of variables to be examined, it will be useful to see how many students received each of the combinations as well as how many received only the separate components. If it turns out that all students received a combination of components i and j but none (or few) received only i or j, but not both, then one should probably enter the combination (i,j) as a variable into the regression without also entering i and j as separate variables.

The measure of congruence between the teacher and her aide, X_{21}, is obtained by comparing the responses made by the teacher and by the aide on the Check List of Aide Duties. This check list contains 29 questions, each allowing one of 5 responses--Never, Seldom, Usually, Most of the Time, Always. Labeling these responses 1, 2, 3, 4, 5, respectively, denoting the teacher response on question i by t_i, and the aide response by a_i, we define X_{21} by

$$X_{21} = 100 \; \frac{116 - \sum_{i=1}^{29} |t_i - a_i|}{116}.$$

Obviously, if teacher and aide agree on each of the 29 questions, then X_{21} will equal 100; if they disagree to the

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[*] We cannot foresee all possible questions. Indeed, we recognize that certain questions will only be suggested after the data are available. Rather than foreclose the range of inquiry, we prefer to indicate techniques useful for any analysis.

largest extent on each question (i.e., one says "never"
and the other says "always"), then X_{21} will equal zero.
For shades of agreement between these extremes, X_{21} will
range between zero and 100.

In addition to the regression analysis, certain ques-
tions can also be investigated by using cross-tabular
analysis. For example, one can aggregate all students who
have had one set of compensatory experiences and compare
their achievement gain with all students who have had a
different set of compensatory experiences. In the same
way, one can compare achievement gain between any meaningful
pair of dimensions. One could also identify all the dif-
ferent combinations of program components that actually
occurred and rank them according to the mean gain in academic
achievement. For many purposes, this process may provide
considerable insight into the value of the various combina-
tions of compensatory components, and suggest areas for
further investigation.

MEASURING ATTITUDE CHANGE

Three instruments will be used for measuring attitude
change. The Social Behavior Skills Checklist will be used
as a surrogate for attitude change at pre-kindergarten and
kindergarten levels. The Attitude Toward Self and School
instrument will serve in grades one, two, and three; and the
Student Survey will be used in grades four through nine.

Attitude is a difficult concept to define qualitatively,
let alone to measure reliably. Thus to equate the responses
on the instruments with attitude change is tenuous at best.
For example, it is not clear that the measures of attitude
form a scale with equal intervals; i.e., a change in atti-
tude beginning at one point on an attitude scale does not
necessarily have the same significance as the same change
beginning at a different point on the scale.

We have raised questions about the measurement of
attitude, questions to which we do not pretend to have
answers. Recognizing inherent difficulties of interpre-
tation, we provide a scale on which to measure attitude
and attitude change for each of the three instruments.

Social Behavior Skills Checklist

There are 29 items to be checked "never," "seldom,"
"occasionally," "usually," "frequently," or "always."
"Always" is ranked high for items having positive value;
"never" is ranked high for those having negative value.
Five points are assigned for the most desired performance
on each item, dropping by one point to zero for the least
desired performance on each item. Additionally, five
points are assigned if the child knows his name; zero if
not. This scoring is shown in parentheses on a copy of
the Checklist (Fig. 2). We score each checklist by adding
all the points and taking the ratio of this sum to the
maximum score, 150. Expressed as a percentage, this yields
a score ranging from 0 to 100. Attitude change is measured
by taking the difference in the scores achieved on the two
occasions, but keeping the initial value in mind.

The Attitudes Toward Self and School Instrument

This instrument is included herein as Fig. 3. The ques-
tions are read to the students, who indicate a favorable
response by marking the smiling face, an unfavorable re-
sponse by marking the frowning face. Question 13 does not
apply as students in grades 1-3 do not receive report cards;
so there remain 17 questions. Each response sheet shall be
scored by taking the ratio to 17 of the number of smiling
faces marked. Attitude change is measured by taking the
difference in the scores achieved on the two occasions, but
keeping the initial value in mind. One would expect attitude

SCHOOL NUMBER _____ (1-3)
A.M. 1 P.M. 2 _____ (4)
TEACHER NAME _____
TEACHER NUMBER _____ (5-7)
STUDENT NUMBER _____ (8-15)
STUDENT NAME _____ DATE _____ (16-21)
(Mo, Day, Year)

PLEASE CIRCLE APPROPRIATE RESPONSE CODE FOR EACH ITEM.

	Never	Seldom	Occasionally	Usually	Frequently	Always	Card Column
1. Relationship to adults:							
a. Cries	1(5)*	2(4)	3(3)	4(2)	5(1)	6(0)	(22)
b. Seeks to be near adult	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(23)
c. Avoids or withdraws from adult	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(24)
d. Fails to respond to adult	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(25)
2. Play habits:							
a. Watches	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(26)
b. Parallel play	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(27)
c. Plays by himself	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(28)
d. Cooperative play	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(29)
e. Initiates play activities	1(0)	2(1)	3(2)	4(2)	5(4)	6(5)	(30)
f. Hyperactive	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(31)
3. Personal health:							
o. Takes care of own toilet needs (i.e., washes hands)	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(32)
b. Practices personal health habits	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(33)
4. Use of language:							
a. Makes his wants known through speech	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(34)
b. Converses with other children	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(35)
c. Identifies objects by name	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(36)
5. Responses to social situations:							
a. Follows directions	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(37)
b. Is shy and retiring	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(38)
c. Seeks help	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(39)
d. Is aggressive	1(5)	2(4)	3(3)	4(2)	5(1)	6(0)	(40)
6. Shows interest in:							
a. Stories and poems	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(41)
b. Visual aids	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(42)
c. Classroom environment	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(43)
7. Uses manipulative materials:							
a. Paint	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(44)
b. Clay	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(45)
c. Blocks	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(46)
d. Puzzles	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(47)
e. Crayons	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(48)
f. Paste	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(49)
g. Scissors	1(0)	2(1)	3(2)	4(3)	5(4)	6(5)	(50)

8. Knows his name: YES 1(5)   NO 2(0)   (51)
DATA TYPE   PRE 01   POST 02   (79-80)

*Numbers in parentheses refer to scoring; the other numbers are keypunch instructions.

Fig. 2--Social Behavior Skills Checklist

Teacher Name_____ School Number_____ **(1-3)**

Grade___1 2 3___ (circle one) **(4)**

Student Name_____ Teacher Number_____ (5-7)

Student Number_____ (8-15)

Date_____ (15-21)

(Mo/Day/Year)

Card
Column

MARK THE NOSE OF THE FACES YOU CHOOSE

1. How do you feel about growing up and getting older? (22)

2. How do you feel when it's time to get up and go to school? (23)

3. How do you feel when you have a chance to learn something new? (24)

4. How do you feel when you think about going home after school each day? (25)

5. How do you feel when the teacher tells you to get out your books and begin to work? (26)

6. How do you feel when you think about how fast you learn? (27)

7. How do you feel when the teacher says that she is going to give a test? (28)

8. How do you feel about how healthy and strong you are? (29)

Fig. 3--Attitude Towards Self and School (Grades 1-3)

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9. How do you feel about how well you read?   (30)

10. How do you feel about the way the
    neighbors treat you?   (31)

11. How do you feel about how you look
    and the kind of face you have?   (32)

12. How do you feel about the way the
    other children treat you?   (33)

13. How do you feel when you get your
    report card and take it home?   (34)

14. How do you feel about how much
    you know?   (35)

15. How do you feel about how well you
    do arithmetic?   (36)

16. How do you feel when you think about
    next year in school?   (37)

17. How do you feel about the way your
    teacher treats you?   (38)

18. How do you feel when the teacher says
    that it's your turn to read out loud
    before the group?   (39)

Data Type 05 06   (79-80)

Fig. 3--Continued

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change as measured by this instrument to be positively correlated with academic progress.

The Student Survey

This instrument is included herein as Fig. 4. There are 25 questions; however, because of ambiguity in interpretation, we ignore the response to question 7, leaving 24 questions on which to base a score. This survey is scored by taking the ratio to 24 of the total of "yes" responses to questions 1-6, 8-19, 21-23, and 25; and "no" responses to questions 20 and 24. Attitude change is measured by taking the difference in the scores achieved on the two occasions, but keeping the initial value in mind.

Effects of Background-Related Factors

The approach to the analysis of the effect of background related factors upon academic gain and attitude change is the same as for the effect of school-related factors. We use stepwise regression for analyzing academic gain, and cross-tabulation for analyzing attitude change (see "The Effect of School-Related Factors," p. 34ff.).

Analogous to the discussion of the school-related factors, we assume that the background-related factors pertinent to a student can be described by a vector of background-related predictor variables $(X_1,...,X_p)$. Stepwise regression is used to determine the smallest set of predictor variables that gives an adequate description of the dependent variable, gain in academic performance. The predictor variables (listed in Table 8) are keyed to The Background Questionnaire (see Sec. VI), and are grouped according to its subheadings.

Table 8 (pp. 48-56) thus comprises a complete list of the background-related factors whose influence upon academic achievement gain we wish to investigate. The comments made

Teacher Name _____   School Number _____   (1-3)

Student Name _____   Grade 4 5 6 7 8 9 (circle one)   (4)

                                          Teacher Number ____ _____ __ __   (5-7)

                                          Student Number _____ __ ____   (8-15)

                                          Date _____   (16-21)
                                          (Mo./Day/Year)

		Circle Appropriate Response		Card Column
		Yes	No	
1.	Do you like school?	1	2	(22)
2.	Do you need more help from your teacher?	1	2	(23)
3.	Do you read books from a library?	1	2	(24)
4.	Do you like your school?	1	2	(25)
5.	Do you enjoy field trips?	1	2	(26)
6.	Do field trips help you in schoolwork?	1	2	(27)
7.	Do you get along better outside of school than in school?	1	2	(28)
8.	Would you like to spend more time at school?	1	2	(29)
9.	Are you satisfied with the grades on your report card?	1	2	(30)
10.	Do you worry about your schoolwork?	1	2	(31)
11.	Are you doing better in your schoolwork this year?	1	2	(32)
12.	Do you look forward to coming to school each morning?	1	2	(33)
13.	Do you talk about school at home?	1	2	(34)
14.	Has someone from home ever talked to your teachers?	1	2	(35)
15.	Do you get praise at home for good schoolwork?	1	2	(36)
16.	Do you think you will graduate from high school?	1	2	(37)
17.	Do you hope to go to college?	1	2	(38)
18.	Do you talk at home about what kind of job or career you will have after you are out of school?	1	2	(39)
19.	Do you read more than is required by your schoolwork?	1	2	(40)
20.	Do you think your teachers usually expect to much of you?	1	2	(41)
21.	Do your teachers think you are doing well in your schoolwork?	1	2	(42)
22.	Do your parents think you are doing well in your schoolwork?	1	2	(43)
23.	Do you think you could do well in any school subject if you studied hard enough?	1	2	(44)
24.	Are your lowest grades usually your teacher's fault?	1	2	(45)
25.	Do you think you could do well in any kind of job you choose?	1	2	(46)

Pre __03__   Post __04__   (79-80)

Fig. 4--Student Survey

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about the analysis of the influence of school-related factors
on achievement gain and attitude change (see p. 34ff.) are
relevant here as well.

OTHER ANALYSES

We recognize that as the data become available and are
examined, other analyses may recommend themselves. Although
we have suggested analyzing separately the effects of school-
related and background-related factors upon achievement gain,
these two groups of factors interact, and it may be desirable
to analyze their joint effect. In order to keep the number
of variables within the limitations of the mathematical pro-
cedures and of existing computer programs, it may be necessary
to prune out certain factors in such analyses.

No experimental design was possible in this data-
gathering effort; in particular, no control group has been
provided. However, in the case of the background-related
factors, there is a *comparison* group available. The back-
ground questionnaire is to be administered to every family
in one school, while our analysis is limited to children in
Title I programs. Thus the families of children in this
school not participating in Title I programs, and the children
themselves, provide groups with which comparisons can be made.
We stress that because of the fortuitous, rather than planned,
way in which the two groups are to be formed, any inferences
made about differences in certain characteristics should be
considered tentative. Statements about statistical signi-
ficance of any differences are inappropriate.

Table 8

BACKGROUND-RELATED VARIABLES

Description of Variable	Value of Variable
Iaa.[a] Number of children living at home	$X_1 = \begin{cases} 1 & \text{if one child is living at home} \\ 0 & \text{otherwise} \end{cases}$
	$X_2 = \begin{cases} 1 & \text{if two children are living at home} \\ 0 & \text{otherwise} \end{cases}$
	$X_3 = \begin{cases} 1 & \text{if three children are living at home} \\ 0 & \text{otherwise} \end{cases}$
	$X_4 = \begin{cases} 1 & \text{if between 4 and 7 children are living at home} \\ 0 & \text{otherwise} \end{cases}$
	$X_5 = \begin{cases} 1 & \text{if 8 or more children are living at home} \\ 0 & \text{otherwise} \end{cases}$
Iaf. Child's job pattern	$X_6 = \begin{cases} 1 & \text{if child has earned no money during the past year} \\ 0 & \text{otherwise} \end{cases}$

[a]This numbering is keyed to the source of the information on the questionnaire.

Table 8--Continued

Description of Variable	Value of Variable
	$X_7 = \begin{cases} 1 & \text{if child works occasionally} \\ 0 & \text{otherwise} \end{cases}$
	$X_8 = \begin{cases} 1 & \text{if child works regularly} \\ 0 & \text{otherwise} \end{cases}$

Note: X_7 and X_8 are of no interest in themselves. The products $(1-X_6)X_7$ and $(1-X_6)X_8$ convey the desired information and only they should enter the regression equation.

Iai. Sex of child	$X_9 = \begin{cases} 1 & \text{if child is male} \\ 0 & \text{if child is female} \end{cases}$
Mother's aspiration for boy	$X_{10} = \begin{cases} 1 & \text{if "doctor" or "lawyer" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{11} = \begin{cases} 1 & \text{if "officer in armed forces" or "priest or minister" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{12} = \begin{cases} 1 & \text{if "farmer with own farm" or "enlisted man in armed forces" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{13} = \begin{cases} 1 & \text{if "automobile mechanic" is chosen} \\ 0 & \text{otherwise} \end{cases}$

Table 8--Continued

Description of Variable	Value of Variable
	$X_{14} = \begin{cases} 1 & \text{if "construction worker" or "farm laborer" is chosen} \\ 0 & \text{otherwise} \end{cases}$

Note: Variables X_{10} through X_{14} will enter the regression only as their product with X_9. Similarly, variables X_{15} through X_{19} will enter the regression only as their product with $(1-X_9)$.

Mother's aspiration for girl	$X_{15} = \begin{cases} 1 & \text{if "teacher" or "children's doctor" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{16} = \begin{cases} 1 & \text{if "librarian" or "social worker" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{17} = \begin{cases} 1 & \text{if "secretary" or "dental technician" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{18} = \begin{cases} 1 & \text{if "nurse's aide" is chosen} \\ 0 & \text{otherwise} \end{cases}$
	$X_{19} = \begin{cases} 1 & \text{if "housewife" or "cannery worker" is chosen} \\ 0 & \text{otherwise} \end{cases}$
Iba. Does the child play mostly with his siblings? [of interest only if $X_1 = 0$]	$X_{20} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$

Table 8--Continued

Description of Variable	Value of Variable
Ibc. Does the child tend to play away from home with other children?	$X_{21} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
Ibd. Does the child often bring friends home?	$X_{22} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
Ibf. Does the child like to talk to adults?	$X_{23} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
Ibi. Has the child been absent more than five times last month?	$X_{24} = \begin{cases} 1 & \text{if no} \\ 0 & \text{if yes} \end{cases}$
If $X_{24} = 1$, were the absences all due to illness?	$X_{25} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
If $X_{24} = 1$, were the absences all due to the fact that the child was needed at home?	$X_{26} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
If $X_{24} = 1$, were the absences due to reasons other than illness or being needed at home?	$X_{27} = (1-X_{25})(1-X_{26})$ [This variable will be created by *transgeneration* within the computer program.]

Note: X_{25}, X_{26}, and X_{27} will enter the regression only as their product with $1-X_{24}$.

Table 8--Continued

Description of Variable	Value of Variable
IIIaa. Number of adults, other than the child's siblings over 18, who live in the home	$X_{28} = \begin{cases} 1 & \text{if one adult} \\ 0 & \text{otherwise} \end{cases}$
	$X_{29} = \begin{cases} 1 & \text{if two adults} \\ 0 & \text{otherwise} \end{cases}$
	$X_{30} = \begin{cases} 1 & \text{if more than two adults} \\ 0 & \text{otherwise} \end{cases}$
IIIaj. The highest educational level achieved by *any* adult in the home	$X_{31} = \begin{cases} 1 & \text{if this level does not exceed completion of elementary school} \\ 0 & \text{otherwise} \end{cases}$
	$X_{32} = \begin{cases} 1 & \text{if this level is at least completion of elementary school, but not more than secondary school} \\ 0 & \text{otherwise} \end{cases}$
	$X_{33} = \begin{cases} 1 & \text{if this level is beyond completion of high school} \\ 0 & \text{otherwise} \end{cases}$
IIIak.[b] Does the child's family make trips away from San Jose?	$X_{34} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$

[b]Variables X_{35} through X_{48} appear in the regression only as their product with X_{34}.

Table 8--Continued

Description of Variable	Value of Variable
1. Are these trips to visit family?	$X_{35} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{otherwise} \end{cases}$
	$X_{36} = \begin{cases} 1 & \text{if no} \\ 0 & \text{otherwise} \end{cases}$
	$[X_{36} = 1 - X_{35}]$
2. What is the geographical area to which you travel?	$X_{37} = \begin{cases} 1 & \text{if Mexico} \\ 0 & \text{otherwise} \end{cases}$
	$X_{38} = \begin{cases} 1 & \text{if Southwestern states (i.e., Ariz., N.M., Nev., Texas)} \\ 0 & \text{otherwise} \end{cases}$
	$X_{39} = \begin{cases} 1 & \text{if California} \\ 0 & \text{otherwise} \end{cases}$
	$X_{40} = \begin{cases} 1 & \text{if other U.S. than Calif., Ariz., N.M., Nev., or Texas} \\ 0 & \text{otherwise} \end{cases}$
	$X_{41} = \begin{cases} 1 & \text{if non-U.S. other than Mexico} \\ 0 & \text{otherwise} \end{cases}$
3. How many trips away from San Jose in the last two years?	$X_{42} = \begin{cases} 1 & \text{if 1 or 2 trips} \\ 0 & \text{otherwise} \end{cases}$

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Table 8--Continued

Description of Variable	Value of Variable
	$X_{43} = \begin{cases} 1 & \text{if 3 or more trips} \\ 0 & \text{otherwise} \end{cases}$
4. How long are these trips?	$X_{44} = \begin{cases} 1 & \text{if the trips last about a week} \\ 0 & \text{otherwise} \end{cases}$
	$X_{45} = \begin{cases} 1 & \text{if the trips last about a month} \\ 0 & \text{otherwise} \end{cases}$
	$X_{46} = \begin{cases} 1 & \text{if the trips last more than a month} \\ 0 & \text{otherwise} \end{cases}$
5. If the trips occur during the school year, does the child go with you?	$X_{47} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{otherwise} \end{cases}$
[Note: $X_{48} = 1 - X_{47}$]	$X_{48} = \begin{cases} 1 & \text{if no} \\ 0 & \text{otherwise} \end{cases}$
IVaa. What language do you usually speak with this child?	$X_{49} = \begin{cases} 1 & \text{if Spanish} \\ 0 & \text{otherwise} \end{cases}$
	$X_{50} = \begin{cases} 1 & \text{if English} \\ 0 & \text{otherwise} \end{cases}$
[Note: $X_{51} = (1-X_{49})(1-X_{51})$]	$X_{51} = \begin{cases} 1 & \text{if neither English nor Spanish} \\ 0 & \text{otherwise} \end{cases}$

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Table 8--Continued

Description of Variable	Value of Variable
IVab. Does the child usually answer you in the same language?	$X_{52} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
IVac. What language do you usually speak with other adults in the home?	$X_{53} = \begin{cases} 1 & \text{if Spanish} \\ 0 & \text{otherwise} \end{cases}$ $X_{54} = \begin{cases} 1 & \text{if English} \\ 0 & \text{otherwise} \end{cases}$ $X_{55} = \begin{cases} 1 & \text{if neither English nor Spanish} \\ 0 & \text{otherwise} \end{cases}$
[Note: $X_{55} = (1-X_{53})(1-X_{54})$]	
IVae. Does any adult in the home speak more than one language?	$X_{56} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
IVaf. Is your husband required to speak English on his job?	$X_{57} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
IVag. Do you read more than one language?	$X_{58} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
IVai. Do you or does some member of the household have a library card?	$X_{59} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$

Table 8--Continued

Description of Variable	Value of Variable
Vaa. Is any adult in the household currently employed?	$X_{60} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
Vaa. If $X_{60} = 1$, is any employed person male?	$X_{61} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
Vab,ad. Is the family income above the OEO poverty guideline?	$X_{62} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$
Vac. Do Public Assistance or Social Security benefits come into the household?	$X_{63} = \begin{cases} 1 & \text{if yes} \\ 0 & \text{if no} \end{cases}$

VI.   THE BACKGROUND SURVEY

The purposes of the survey have been explained above
(see pp. 20-22). This section explains in greater detail:
1) how the answers to various groups of questions fit into
the design; 2) which responses will be coded for use in the
regression analysis (outlined in Sec. V); and 3) which will
be left uncoded and used for qualitative description of the
population, and which are included to provide information
the SJUSD can use directly, quite apart from the evaluation
design. Following this detailed analysis, the proposed
method of standardization is discussed.

The questions have been designed with a particular
segment--the Mexican-American--of the disadvantaged popu-
lation in mind. Too often all members of a group considered
to labor under especially great cultural and economic handi-
caps are viewed as having the same characteristics. The
fact that a disadvantaged group consists of a number of
sub-groups--each with its own special attitudes, traditions,
and ties--is overlooked or insufficiently stressed. The
emphasis is on the characteristics that distinguish this
group from the middle class. Yet a disadvantaged society
is probably even less homogeneous than the vast group called
the middle class; the two being frequently separated from
each other only by an ever-changing annual income line.
Compensatory education, in order to be successful, has to
be based on the characteristics of a specific pupil popula-
tion. What Ruth Landes has pointed out regarding counselors
is relevant for all who work with the disadvantaged:

> School counselors are mediators between whole
> cultures, as well as between a particular school and
> families. Receptiveness to cultural factors need not
> oblige counselors to approve of alien culture patterns
> if such patterns defeat school goals; they must, how-
> ever, comprehend them as points of orientation and
> departure for pupils inheriting them. The school must
> understand that the pupil is tied to his community,

and will not be led far from it if his community
exists under prejudice, or if its traditional values
and practices vary greatly from the public school
norms. . . .

It is a mixed human bag brought by law to study
in public schools: an aggregation of culturally
diverse and disassociated learnings, self-awareness
and sufferings, often torn from customary settings.
All parties to the educational task must reckon with
these human conditions.*

The answers to the Questionnaire will, it is hoped,
not only show the special characteristics that distinguish
disadvantaged Mexican-Americans in San Jose from other
members of the downtown school population, but also give a
picture of the spectrum of subgroups that exist within this
cultural body.

The questions are grouped into five sections:

    I.   Parent's View of Child
   II.   Parent's View of School
  III.   Family History
   IV.   Language Patterns
    V.   Economic Background

Those questions under section II. ("Parent's View of School")
are asked primarily to gather information with which the
SJUSD will try to strengthen school-community relationships,
and will not be coded for use in the regression analysis.
Only a few questions of this kind fall under the other
headings.

The first section ("Parent's View of Child") is de-
signed primarily to ascertain the vital statistics of all
children in the family, those still at home as well as those
who have already left. However, only information on the
former will be coded. Information on the latter may or may
not prove useful for qualitative descriptions of the popu-
lation, depending on whether different patterns emerge for

_____
*Ref. 14, p. 67.

different types of families. The presence of a male child
over 18 will be indicated, since in a fatherless household
he may act as a father substitute.

The second design purpose of section I. is to probe for
any relationship between size of family and the parent's per-
ception of the child as an individual. In families with
many chil^ren, parental attention may be more diffused,
and distinctions made among offspring may not be readily
apparent. If this tendency does indeed exist, poor and
large families may suffer more from it, since the mother's
workload is not likely to be alleviated by paid help (al-
though it may be relieved by other adults in an extended
family situation).

To test for differences in perception, the mother is
asked to choose an occupational aspiration for a child from
a prepared list. However, the list is open-ended--i.e.,
an "other" category is provided. The mother will also be
asked to indicate if the preference is one expressed by
the youngster. Different choices of occupations for dif-
ferent children, particularly if the mother elaborates on
her reason for the choice, would indicate perception of
each child as an individual.

For this parental choice of vocational aspiration to
be used as a method for determining that children are clearly
distinguished as individuals, the family must have two or
more children; and these must be old enough to make the
choices seem plausible. For the population of the ele-
mentary school under study, the probability of fulfilling
the condition of there being more than one child per family
seems high, since the number of students is nearly three
times that of the families represented. In addition, parental
aspirations for secondary school children from these families
will also be gathered.

We hope to isolate the role of status in the mother's
choices. Is she likely to choose occupations consistent

with her concept of status rather than with the child's
perceived ability and preferences? Because of the method
used to construct the choice table, choosing different
vocations for different children does not eliminate the
possibility of status influence. It lists more than one
profession or job for what we have designated as a given
status category. For instance, Table IIa--"Mother's
Aspirations for Boy" (p. 77)--lists lawyer or doctor, priest
or minister or officer in armed forces (each group equivalent
on the status scale); and construction worker or farm
laborer (considered equivalent). To assess the mother's
independence from status considerations in making choices for
her children's future, we need to know her own concepts of
the relative status of these occupations within the community.
Therefore, after indicating a choice for each child, she is
asked to rate the occupations according to the esteem in which
she and her friends hold them. These ratings will not be
coded. But in each instance they will be compared to the
choices made for each child to see whether her selections
coincided predominantly with her concepts of status. The
achievement scores of the children will help to distinguish
realistic from unrealistic, and possibly status-influenced,
parental choices.

Questions on the play patterns of each child, whether
at home or away from home, will be coded and used as another
measure of the parent's ability to distinguish each child
realistically. These will also serve as indications of
whether the family is a rather closed universe or readily
admits outsiders.

Finally, frequency of, and reasons for, absences from
school will be coded. In many studies the number of absences
is considered to be an indicator of attitudes towards school.
However, since young children are seldom free agents, absences
may not always indicate their dislike of or indifference toward
school. For instance, a sixth grader who is the oldest of

five children may have to stay home to attend to younger
siblings while the mother keeps a doctor's appointment or
vists the welfare office. For this reason, the *cause* of
excessive absences must be established.

As indicated above, the second section ("Parent's
View of School") is primarily for SJUSD information. Dis-
trict personnel need to know what the community expects
from the schools, what kinds of contact the parents would
like to have with them, and whether they feel that their
children's education compares favorably with theirs.

Only some parts of section III. ("Family History")
will be used in the regression analysis; the remainder will
be tabulated. In the latter category belong such items as
the degree of relationship in the home between the adults
and the children, the place of birth and residence prior
to coming to California, and the extent of education of
each adult. Coded for the regression analysis will be the
number of adults in the family, and the highest level of
education among them. Also shown will be whether there is
a male among the adults; and, if so, whether he is the
father of the children. It is assumed that if the present
husband is not the father of one or all of the children,
he will, nevertheless, act in *loco parentis*. Also coded
will be the number of visits away from San Jose, the reasons
for these visits, and the lengths of stay. Information is
provided on the inclusion of children in the travels (if
the trips are taken during the school term).

What will emerge from the coded information is whether
we are dealing with an extended family or with a one-parent
home with no other adults present. The highest educational
level achieved by any member of the household will give a
point of reference for the extent to which a child can ex-
pect to receive help with his school work. But this is
only a rough indicator, since functional literacy is im-
perfectly related to the amount of schooling received.

The pattern of visits away from home will help to
identify the degree of connection with the Mexican back-
ground. The strength of these ties is not necessarily
indicated by visits to Mexico alone. There are areas in
the United States (e.g., sections of Arizona, New Mexico,
and Texas) that exhibit a considerably stronger Mexican
flavor than most areas in California.[*] Therefore, the
coding is based on the assumption of a continuum of "Mexico-
like" environment--with Mexico at one end and the United
States (excepting the Southwestern states and California) on
the other. Because of the presence of other foreign-born
residents in the San Jose area, the coding provides a
"non-U.S. other than Mexico" category. The "Mexican" regions
of the United States roughly outlined above ignore such
variables as differences among Mexican-American communities
within California and the existence of such enclaves in
places like Chicago and Detroit. However, since migration
into California apparently originates mostly in Mexico and
the Southwestern states, and family visits are likely to be
made to places of origin, failure to use smaller geographical
divisions is not likely to be detrimental.

Although the Questionnaire records each adult's place
of birth, it is not coded. This information is being col-
lected to give the SJUSD some idea of family migration
patterns (e.g., are families migrating from Mexico taking
up permanent residence; if so, which generations are re-
maining).

The authors do not hypothesize that close cultural
affinity with the Mexican background should have a dele-
terious effect on scholastic achievement. Children from an
environment with such strong cultural ties may or may not

---

[*] Although Texas is usually included among the South
Central States, for the purposes of this analysis it should
be grouped with New Mexico and Arizona, since the Mexican-
American populations in these three states are similar.

show more or less uniform achievement patterns. However,
should a negative correlation between strong cultural ties
and scholastic achievement emerge, it might be indicative of
a need to restructure the compensatory education programs
to take account of such ties. With proper programs, dif-
ferences in cultures can be exploited to advantage in the
educational system rather than representing stumbling blocks.

"Language Patterns" (section IV.) will be used mainly
to establish the extent of bilingualism in the home. The
coding will indicate the main language used in the house-
hold, and the extent of bilingualism of the children and
the adults separately. It will also give some indication
of the reading material used in the home by recording the
possession of library cards.

In addition, the interviewers are asked to indicate
on their observation schedules (discussed below) the quality
of the language used in the interview. The schedule pro-
vides for rating the quality of grammar and the extent of
the vocabulary used on a continuous scale.

Because of the problem of invasion of privacy, the
"Economic Background" questions (under section V.) are not
quite as specific as one would like. The respondent is
simply asked if her children would qualify for the Head
Start program according to the eligibility requirements set
forth by the OEO non-farm income schedule. The answer will
indicate the family's income relative to the poverty line.
Another question will ascertain whether the household re-
ceives any welfare payments. These two answers will be
coded. Also included in the coding will be information on
the employment of any member of the family, and whether the
wage-earner is a male. Occupational information will be
tabulated.

After completion of the Questionnaire, the interviewers
are asked to fill out an observation schedule. Aside from
the questions about the language and its characteristics,

used in the interview, they are asked to indicate the
willingness of the respondent to answer questions and to
indicate those, if any, that appeared to cause concern
or reluctance to answer. The observation schedule serves
several purposes. It makes it possible to identify answers
that may not be completely reliable, because the respondent
was worried by the question. It also serves as a check on
the interviewers. Those who persistently find their re-
spondents reluctant or worried may need more training in
interviewing techniques, or may need to be replaced.

Interviewers will be briefed on the use of the Ques-
tionnaire. After each has conducted at least two inter-
views, a discussion session will be held to cover any problems
and to initiate any necessary procedural changes.

It is anticipated that the interviews will average about
one hour in length. Where necessary, interpreters will be
provided. In all families, only the mother will be inter-
viewed--thus eliminating the possibility of having to resolve
conflicting viewpoints between the parents. For this reason,
interviewers will be instructed to visit homes as much as
possible during the day.

VII.   A FINAL CONSIDERATION: INTELLIGENCE MEASURES

Acting on the assumption that early steps taken to prevent failure are more effective than later remedial measures to overcome accumulated deficits in achievement, the SJUSD allocates the major part of its compensatory education funds to the preschool and elementary grades.

This philosophy of early intervention seems, on the surface, to be a good one; but it must be validated against the future performance of the youngsters vis-a-vis similar non-participating students. Because of the unreliability of intelligence tests in assessing the ability of disadvantaged youngsters--partly due to their vocabulary limitations and lack of exposure to the middle-class experiences and concepts with which the tests are heavily weighted, and partly due to their non-competitive attitude toward test-taking--we are forced to rely upon performance data for making judgments about their capabilities.

Celia Heller succinctly states the dangers inherent in IQ test scores while suggesting a constructive use for them in designing school programs for Mexican-American youngsters:

> A kind of self-fulfilling prophecy may be operating in the case of the Mexican-American children's failure to develop necessary capacities and skills for advancement in school. If the I.Q. scores of these children, as compared with those of Anglo-Americans, were treated as indicators of initial disadvantages in terms of orientation and skills necessary for effective functioning in our society, then school programs probably could be designed to overcome these initial differences. But teachers tend to approach these scores as signs of fixed limits in innate ability.*

Until such time as IQ scores can be viewed in the way in which Miss Heller suggests, it is probably better not

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*Ref. 30, p. 91.

to administer them to the disadvantaged. Such thinking has had an influence on educational decision-making, as evidenced by an article in the *Los Angeles Times* of 31 January 1969 headlined "Testing of IQs in L.A. Primary Grades Banned" (which we quote at length to support our own decision not to use individual ability measures in this evaluation design):

> IQ tests were banned in the primary grades of the Los Angeles city school system Thursday in an attempt to prevent children from being erroneously labeled as unintelligent because of a language handicap in understanding the tests.
>
> The Board of Education's unanimous action was founded largely on recent findings which show that in many cases the classroom performance of children is based on the expectations of teachers.
>
> If teachers are provided with results of intelligence quotient (IQ) tests, tagging pupils as particularly smart or dull, the academic achievement of the children is remarkably similar--even though the IQs may subsequently be proved wrong, the studies show.
>
> The difficulties with IQ tests are experienced most often by minority youngsters who have problems with the English-language tests. But other pupils with language deficiencies also are affected, researchers reported . . .*

Undoubtedly, not taking account of individual ability results in attributing all achievement gain to the effects of the compensatory education program. As long as this is done with full awareness, however, it seems to provide a better basis for program decision-making than relying on inappropriate ability measures.

---

*Ref. 31, Pt. I, p. 1, col. 1.

Appendix A

QUESTIONNAIRE

I. Parent's View of Child

(There are two tables: Table I for children living at home; Table IV for children not at home. The questions are arranged so that Table I will be filled out in its entirety first.)

Table I questions:

aa. Would you give me the names of your children who are now living at home?

ab. What are their ages? (Ask for sex here, if the names do not clearly indicate whether it is a boy or a girl.)

ac. Which grade is each child in? (Give school if other than Washington.)

ad. If any of the children are not in school,

1. Which grade did they complete?

2. Give name of school, if in San Jose. (Otherwise, just give name of state in U.S. or country outside U.S.)

3. When did they graduate or leave school?

ae. Did any of your children have preschool experience? (Explain that this does not include kindergarten. There was no public preschool program prior to 1964, and it is not very likely that any of these children would have been in private preschool programs. However, if the mother has been working, they may have been in day-care centers. Indicate day-care center where applicable as a separate category.)

1. Name of child.

2. Name of school, if in San Jose. (Otherwise, give name of state.)

3. Dates of attendance.

af. Do any children now in school earn money or have they earned money during the past year?

1. Name or number of child or children._____

2. Type of work--regularly, occasionally._____

ag. Do any of the children not in school work?

    1. Name or number of child or children._____

    2. Description of job._____

ah. Are any children living with you who have not always lived with you? (Indicate if mother's own child who rejoined family after prolonged absence.)

(Table I is now complete. Go to Table IIA. Provide mother with one sheet for each boy, at that time marking the name of the boy on the top of each sheet.)

ai. Will you indicate how you feel about the jobs listed
    for_____?
        Name or Number

aj. If the job or kind of work you would like_____
                               Name
    _____ to do is not on this sheet, will you
    or Number
    tell me what it is?

(Go to Table IIb. Mark the name of each girl on each sheet.)

ak. Will you indicate how you feel about the jobs listed
    for _____?
         Name or Number

al. If the job or kind of work you would like _____
                               Name
    _____ to do is not on this sheet, will you
    or Number
    tell me what it is?

am. Would you like your daughters to work before being married or to have a specific job skill or professional training, even though married?

an. What job would you and your friends respect most highly for a man? _____

ao. What job, least highly? _____

(Show Table IIIa)

ap. Would you give me the respect ratings for these jobs?

aq. What job would you and your friends respect most highly for a woman? _____

ar. What job, least highly? _____

as. Would you give me the respect ratings for these jobs?

at. Are there any jobs on these lists that you feel your child might not obtain because of prejudice?_____

au. Are there any jobs you did not name for the same
    reason? _____

(You will not need Tables IIa, IIb, IIIa, and IIIb for the
rest of the interview. Go to Table IV (children not living
at home).)

av. If you have any children not living at home, what
    are the

    1. Names of boys; names of girls?

    2. Ages?

    3. Date/dates of departure/departures from family?

    4. Number married?

    5. Where born?

aw. Where did they attend school? (If in San Jose, give
    name of school. If elsewhere, check column of state
    of Mexico or other non-U.S. country.)

ax. What jobs do those who work hold?_____

(Table IV is now completed.)

ba. Do your children play mostly with each other?_____

bb. Is one of them more likely to play with other
    children? Name of child or children._____

bc. Do they all tend to play away from home and with
    other children?

bd. Do they often bring their friends home?

be. Is one of them more likely to remain at home? Name
    of child._____

bf. Do they like to talk to adults?

bg. Is one of them less likely to do so? Name of child.

    _____

bh. Is one of them more likely to do so? Name of child.

    _____

bi. Which of your children has been absent more than
    five times last month?

    1. Because of illness: Names_____

    2. Needed at home: Names_____

    3. Other reasons: Names_____

II. Parent's View of the School

aa. What would you like the school to do for your children?

1. Teach them better: in which subjects or by teaching new subjects?_____
_____

2. Do any children need help: in which subject? (Interviewer can use number of child/children to minimize writing.)_____
_____

3. Would you like the school to influence behavior at home: (use names or numbers of children if mother indicates such choices).

(a) To be more helpful to parents._____

(b) To get along better with brothers and sisters._____

(c) To be less bossy._____

(d) To think better of themselves._____

(e) To be neater._____

(f) Do you have other suggestions?_____
_____

4. Would you like the school to influence behavior outside school and home:

(a) To talk more with adults._____

(b) To be less shy._____

(c) To respect authority more._____

(d) To make more friends._____

(e) To make different friends._____

(f) Do you have other suggestions?_____

5. Provide them with new experiences:

(a) Visits to new places._____

(b) Reading, play, and sports materials._____
_____

(c) Demonstrating skills needed for different jobs._____

(d) Do you have other suggestions?_____
_____

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ab. What would you like the school to do for you?

    1. Let you know more about how your child is getting along._____

    2. Let you know about jobs for your children.
    _____

    3. · Let you know more about what is going on in the community:

        (a) Health care._____

        (b) Libraries._____

        (c) Parks and swimming pools._____

        (d) Schooling possibilities for yourself (night classes, adult education, occupational training)._____

        (e) Job opportunities for yourself._____

        _____

        (f) Other._____

ac. With what school personnel have you had contact: nurse, teacher, counselor, principal? (Interviewer can underline those chosen.) Or other:_____
    _____

ad. Would you like to have more contact with the school? With which person?_____

ae. Would you like to be a teacher-aide?

        (a) Volunteer_____

        (b) For pay_____

af. What do you think of the PTA?_____

ag. Do you feel that your child's school offers better opportunities than you have had? (In which of the five is the improvement the greatest?)

    1. In subject offered:_____

    2. In the qualities of teachers:_____

    3. In different teaching methods:_____

    4. In enforcing discipline:_____

    5. Through field trips and other activities:_____
    _____

(Go to Table V.)

III. Family History

    aa. What adults, other than children over 18 who have been covered in Table I, are currently living in the home?_____

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ab. What is each adult's family relationship, if any,
     to the children?_____

ac. What is each adult's age?_____

ad. Where was each adult born? (Give name of state for
     U.S., name of country for non-U.S.)_____

ae. How long has each adult lived in San Jose?_____

af. Where did each adult live before coming to San Jose?
     (Give name of state for U.S., name of country for
     non-U.S.)_____

ag. Have you been married before? If yes, when did your
     present husband join the family?_____

ah. When did the other adults join this family?_____

ai. Where did each adult attend school?_____

aj. What grade in school or year in college did each
     adult complete?_____

(You have now completed Table V.)

ak. Do you make trips away from San Jose?_____

     1. For family visits?_____

     2. Where?_____
              (city, state for U.S., country for non-U.S.)

     3. How many times in the last two years?_____

     4. How long do you usually stay?

         (a) A week._____

         (b) A month._____

         (c) More than a month._____

     5. If you visit when school is in session, do the
         children go with you?_____

al. With whom would you be inclined to discuss family
     problems?

     1. Friend._____

     2. Teacher._____

     3. Social Worker._____

     4. Doctor._____

     5. Priest._____

     6. Minister._____

     7. Other._____

IV. Language Pattern

 aa. What language do you usually speak with your children?_____

 ab. Do they usually answer you in the same language?
_____

 ac. What language do you usually speak with other adults in the home?

   1. Your husband._____

   2. Other adults._____

 ad. If you speak more than one language, how did you learn your second language?

   1. Night school._____

   2. Talking to other people._____

   3. Other ways._____

 ae. Does any other adult speak more than one language? (Give name or relationship.)_____

 af. Is your husband required to speak English on the job?_____

 ag. Do you read more than one language? How did you learn the second language?

   1. Night school._____

   2. By yourself._____

   3. Other._____

 ah. What do you like to read?

   1. Magazines._____

   2. Newspapers._____

   3. Books._____

 ai. Do you have a library card?_____

 aj. Which other members of the household have library cards?_____

V. Economic Background

 aa. Would you tell me the names and occupations of each adult in the house?

   Name_____ Occupation_____

   Name_____ Occupation_____

   Name_____ Occupation_____

   Name_____ Occupation_____

ab. Would you tell me whether your children are or
     would have all been eligible for Head Start pro-
     grams (Interviewer will use OEO schedule, indi-
     cating the appropriate line for family size.)

     _____

ac. When you looked at this chart, did you include
     in your income any Public Assistance or Social
     Security benefits? _____

ad. If you did, would you exclude these from your
     calculations and tell me whether this would change
     the Head Start eligibility? _____

ae. Do you feel that any adult in the house ever has
     been turned down for a job because of:

     1. . A membership in a minority group?_____

     2. Language difficulties?_____

af. Did this take place in San Jose or in another
     place?_____

ag. Are you planning to move to another area?_____

     1. The place of your birth._____
                                    (state for U.S.,
         _____
         country for non-U.S.)

     2. Where other family members live._____
                                           (state for
         _____
         U.S., country for non-U.S.)

     3. Where your husband might find other work.

         _____
         (state for U.S., country for non-U.S.)

     4. Would you move before or after the children
         finish schooling?_____

         _____

     5. Do you send money to help members of the
         family not living with you?_____

         _____

INTERVIEWER'S OBSERVATION SCHEDULE

I. Language Pattern of Home

    a. In what language did you conduct the interview? _____

    b. Quality of grammar   No mistakes _____ Many mistakes

    c. Vocabulary   Extensive _____ Monosyllabic

    d. If interview was conducted in Spanish, was there evidence of some knowledge of English?

                    None _____   Fair amount _____

II. Attitude of Respondent

    a. Were questions answered readily? _____

    b. Were the overall responses monosyllabic or quite verbal? _____

          _____

    c. Was information volunteered? _____

          In answer to what questions? _____

          _____

    d. What questions caused hesitations? _____

          _____

    e. What questions caused uneasiness or belligerence? _____

          _____

III. Other comments and Observations

Table I

CHILDREN LIVING AT HOME

Name	Grade	Age	Sex	For Children not in Washington School: Name of School	Children not in School		Preschool Exp.		Type of Job Held		For Children Who have not Always Lived with Respondent: Origin--If U.S. give State; if Outside U.S., give Country Date of Joining Family
					Grade Completed	Date of School Departure	School Name	Attendance Dates	Those in School	Those Not in School	
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											

Name _____

Table IIa

MOTHER'S ASPIRATION FOR BOY

1.	Automobile mechanic	No _____	Yes
2.	Farmer with own farm	No _____	Yes
3.	Construction worker	No _____	Yes
4.	Officer in armed forces	No _____	Yes
5.	Enlisted man in armed forces	No _____	Yes
6.	Doctor (physician)	No _____	Yes
7.	Priest or minister	No _____	Yes
8.	Farm laborer	No _____	Yes
9.	Lawyer	No _____	Yes
10.	Other	No _____	Yes

Name _____

Table IIb

MOTHER'S ASPIRATION FOR GIRL

1.	Nurse's aide	No _____ Yes	
2.	Secretary	No _____ Yes	
3.	Housewife	No _____ Yes	
4.	Librarian	No _____ Yes	
5.	Dental technician	No _____ Yes	
6.	Teacher	No _____ Yes	
7.	Social worker	No _____ Yes	
8.	Cannery worker	No _____ Yes	
9.	Children's doctor	No _____ Yes	
10.	Other	No _____ Yes	

Table IIIa

COMMUNITY'S RESPECT FOR GIVEN MALE JOBS

1. Automobile mechanic   Least _____ Most

2. Farmer with own farm   Least _____ Most

3. Construction worker   Least _____ Most

4. Officer in armed forces   Least _____ Most

5. Enlisted man in armed forces Least _____ Most

6. Doctor (physician)   Least _____ Most

7. Priest or minister   Least _____ Most

8. Farm laborer   Least _____ Most

9. Lawyer   Least _____ Most

10. Other   Least _____ Most

Table IIIb

COMMUNITY'S RESPECT FOR GIVEN FEMALE JOBS

1. Nurse's aide   Least _____ Most

2. Secretary   Least _____ Most

3. Housewife   Least _____ Most

4. Librarian   Least _____ Most

5. Dental technician   Least _____ Most

6. Teacher   Least _____ Most

7. Social worker   Least _____ Most

8. Cannery worker   Least _____ Most

9. Children's doctor   Least _____ Most

10. Other   Least _____ Most

Table IV

CHILDREN NOT LIVING AT HOME

Name	Age	Sex	School Attended, if in San Jose	Check if Married	Date of Departure from Home	If Working, Type of Job Held	Place of Birth: State in U.S., or Name of Foreign Country
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							

Table V

ADULTS IN THE HOME

Names and/or Relationship	Age	Sex	Where Born	How Long in San Jose	Previous Residence Before Coming to San Jose	Year Adult Joined Family	Where Attended School	Grade Completed
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								

Appendix B

THE EVALUATIVE INSTRUMENTS

STUDENT MASTER FILE DATA (SP 1005)

DATE _____   SCHOOL _____

STUDENT NO. _____   SCH. CODE _____ GRADE LEV. _____

CHECK ONE: NEW _____ (O)   CHANGE _____(1)   DELETE _____(2)

CARD 1.

STUDENT NAME _____
          Last   First   Mi.

DATE OF BIRTH _____ SEX _____ BIRTH VERIF. _____

SIB STATUS _____ of _____ ETHNIC BACKGROUND _____

TEACHER OR COUNSELOR: NO. _____ NAME _____

DISTRICT OF RESIDENCE _____ INSTRUCTIONAL PROG. _____

CARD 2

STUDENT FORMER NAME _____

MAILING ADDRESS _____
                    Street   City   Zip

CARD 3

PHONE _____

PARENT OR GUARDIAN _____ REL. CODE ___
                  Mr., Mrs., etc.   First   Last

STUDENT BIRTHPLACE _____

CARD 4

FATHER INFO: FIRST NAME _____ OCCUPATION _____

          ED. LEV. _____ MARITAL STATUS _____ LIVING? _____

MOTHER INFO: FIRST NAME _____ OCCUPATION _____

          ED. LEV. _____ MARITAL STATUS _____ LIVING? _____

CARD 5

LAST SCHOOL ATTENDED _____

CITY & STATE _____ DATE LEFT _____

CARD 6

TRANSFER TO _____
          School name or other destination.

_____
          City   State

DATE TRANSFERRED OUT _____ CODE _____ REASON _____

DATE RETURNED _____ CODE _____

PARENT QUESTIONNAIRE

Data to be picked up by teacher

School_____   Date:_____

Student Name_____ M_F_   Interviewer_____

Student Number_____   Location of Interview

Parent or Guardian   School__House__Other____

Grade: PS K 1 2 3 4 5 6
        __ _ _ _ _ _ _ _

---

1. What do you expect from the school for your child?

2. Does your child like school? What particularly____?

3. Do you think your child will finish high school?

4. Do you think your child will go go college?

5. What kind of a job would you like to see him get when he is grown up?

6. Has the school helped you to do more things with your child?

7. Has the school helped your child in getting along with people?

8. Have you been encouraged to participate in school activities?

9. Are you in any way active in the school?

10. Do you like your child's school?

11. Would you like to know more about your child's school?

12. Does your child get along well with other students in school?

13. Do you like your child's friends?

14. Have you felt free to talk to the school nurse about any health problems your child may have had?

    To be filled out by teacher during parent interview.

15. Interviewer's Comments

    _____

    _____

    _____

Title I Form A

GOAL CARD FOR PRE KINDERGARTEN

TEACHERS NAME_____   School Number_____ (1-3)
                                            Teacher Number_____ (4-5)
STUDENT NAME_____   Student Number_____ (6-13)
                                            Date of Test_____   (14-18)

Tested Qualities   Circle Appropriate Response

	Poor Performance	Acceptable Performance	Exceptional Performance	Card 1 Column
A. Physical Coordination:				
1. Can throw a large ball_____	1	2	3	(19)
2. Can bounce a ball_____	1	2	3	(20)
3. Can walk a balance board_____	1	2	3	(21)
4. Can jump rope_____	1	2	3	(22)
5. Can pedal a tricycle_____	1	2	3	(23)
6. Can string beads_____	1	2	3	(24)

	Right	Wrong		
B. Relationship of People and Things:				
Ask child to touch his: (first choice taken)				
7. eyes_____	1	2		(25)
8. nose_____	1	2		(26)
9. head_____	1	2		(27)
10. ear_____	1	2		(28)
11. neck_____	1	2		(29)
12. mouth_____	1	2		(30)
13. arm_____	1	2		(31)
14. leg_____	1	2		(32)
15. hand_____	1	2		(33)
16. finger_____	1	2		(34)
17. hair_____	1	2		(35)
18. foot_____	1	2		(36)
19. knee_____	1	2		(37)

Page 2

		Right	Wrong	Card 1 Column
Ask child to point to picture of:				
20.	mother_____	1	2	(38)
21.	sister_____	1	2	(39)
22.	father_____	1	2	(40)
23.	brother_____	1	2	(41)
24.	doll baby_____	1	2	(42)
Ask child to point to the:				
25.	fireman_____	1	2	(43)
26.	nurse_____	1	2	(44)
27.	farmer_____	1	2	(45)
Ask child to point to the:				
28.	mailman_____	1	2	(46)
29.	policeman_____	1	2	(47)
30.	doctor_____	1	2	(48)
Ask child to point to the:				
31.	moon_____	1	2	(49)
32.	stars_____	1	2	(50)
33.	sun_____	1	2	(51)
Ask child to point to the:				
34.	rain_____	1	2	(52)
35.	snow_____	1	2	(53)
36.	clouds_____	1	2	(54)
Ask child to point to the:				
37.	grapes_____	1	2	(55)
38.	banana_____	1	2	(56)
39.	apple_____	1	2	(57)

	Right	Wrong	Card 1 Column
Ask child to point to the:			
40. potato_____	1	2	(58)
41. carrot_____	1	2	(59)
42. Peas_____	1	2	(60)
Ask child to point to the:			
43. rabbit_____ . _____	1	2	(61)
44. fish_____	1	2	(62)
45. turtle_____	1	2	(63)
Ask child to point to the:			
46. squirrel_____	1	2	(64)
47. lion_____	1	2	(65)
48. elephant_____	1	2	(66)
Ask child to point to the:			
49. doll_____	1	2	(67)
50. ball_____	1	2	(68)
51. top_____	1	2	(69)

Data Code 13 & 14   (79-80)

	Right	Wrong	Card 2 Column
C. Auditory Discrimination:			

Look at two pictures in row_____
See the pictures of the_____ and_____
Ask child to point to the:

	Right	Wrong	Card 2 Column
52. mouse_____	1	2	(19)
53. bear_____	1	2	(20)
54. tomato_____	1	2	(21)
55. kitten_____	1	2	(22)

Page 4

	Right	Wrong	Card 2 Column
D. Concepts of size:			
Ask child to tell (have three objects)			
56. biggest_____	1	2	(23)
57. smallest_____	1	2	(24)
58. lightest_____	1	2	(25)
59. heaviest_____	1	2	(26)
E. Concepts of color			
Ask child to tell color (have three color cards)			
60. red_____	1	2	(27)
61. blue_____	1	2	(28)
62. yellow_____	1	2	(29)
F. Manipulation of materials:			
63. Ask child to put a five piece puzzle together_____	1	2	(30)
G. Arithmetic Skills:			
Ask child to count from a group of objects			
64. 1-5_____	1	2	(31)
65. 6-10_____	1	2	(32)
Ask child to count by rote			
66. 1-20_____	1	2	(33)
H. Concepts of location and space:			
Ask child to point to the:			
67. squirrel that is under the board_____	1	2	(34)
68. airplane that is in the air_____	1	2	(35)
69. bird that is out of the cage_____	1	2	(36)
70. boxes that are closed_____	1	2	(37)

	Right	Wrong	Card 2 Column
I. Concepts of shape:			

Ask child to point to the thing
that is the same shape as this one

71. △ _____	1	2	(38)
72. ◯ _____	1	2	(39)
73. ▭ _____	1	2	(40)

J. Listening Skills·

Ask child to point to the picture of·

74. the boy with his dog_____	1	2	(41)
75. the girl who is putting the ball into the box_____	1	2	(42)
76. the truck that is stopped at the traffic light_____	1	2	(43)

		Observed Qualities	Seldom	Occasionally	Usually	Frequently	Always	Card 2 Column
K.	77.	Is able to follow simple directions	1	2	3	4	5	(44)
	78.	Asks appropriate questions	1	2	3	4	5	(45)
	79.	Listens attentively and responds	1	2	3	4	5	(46)
	80.	Reasonable attention span	1	2	3	4	5	(47)
L.		Language Ability:						
	81.	Speaks clearly in simple senteces	1	2	3	4	5	(48)
	82.	Communicates his ideas	1	2	3	4	5	(49)
	83.	Takes part in discussions	1	2	3	4	5	(50)
	84.	Enunciates and pronounces clearly	1	2	3	4	5	(51)
	85.	Talks about things he sees	1	2	3	4	5	(52)
	86.	Talks about things he does	1	2	3	4	5	(53)
M.		Social Awareness:						
	87.	Answers to his name	1	2	3	4	5	(54)
	88.	Calls others by name	1	2	3	4	5	(55)
	89.	Knows his belongings	1	2	3	4	5	(56)
	90.	Likes to help others	1	2	3	4	5	(57)
	91.	Can dress himself	1	2	3	4	5	(58)
	92.	He is liked by his peers	1	2	3	4	5	(59)
	93.	He is a leader	1	2	3	4	5	(60)
	94.	He is a follower	1	2	3	4	5	(61)
	95.	He is a "loner"	1	2	3	4	5	(62)
	96.	He waits for his turn	1	2	3	4	5	(63)

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		Seldom	Occasionally	Usually	Frequently	Always	Card 2 Column
97.	He hesitates to participate	1	2	3	4	5	(64)
98.	He shares toys and crayons	1	2	3	4	5	(65)
99.	He assumes responsibility	1	2	3	4	5	(66)

Data Code 13 & 14   (79-80)

SOCIAL BEHAVIOR SKILLS CHECKLIST

TEACHER NAME _____

STUDENT NAME _____

SCHOOL NUMBER	_____ (1-3)
A.M. 1 P.M. 2	(4)
TEACHER NUMBER	_____ (5-7)
STUDENT NUMBER	_____ (8-15)
DATE	_____ (16-21)
	(Mo/Day/Year)

PLEASE CIRCLE APPROPRIATE RESPONSE CODE FOR EACH ITEM.

	Never	Seldom	Occasionally	Usually	Frequently	Always	Card Column
1. Relationship to adults:							
a. Cries	1	2	3	4	5	6	(22)
b. Seeks to be near adult	1	2	3	4	5	6	(23)
c. Avoids or withdraws from adult	1	2	3	4	5	6	(24)
d. Fails to respond to adult	1	2	3	4	5	6	(25)
2. Play habits:							
a. Watches	1	2	3	4	5	6	(26)
b. Parallel play	1	2	3	4	5	6	(27)
c. Plays by himself	1	2	3	4	5	6	(28)
d. Cooperative play	1	2	3	4	5	6	(29)
e. Initiates play activities	1	2	3	4	5	6	(30)
f. Hyperactive	1	2	3	4	5	6	(31)
3. Personal health:							
a. Takes care of own toilet needs i.e. washes hands	1	2	3	4	5	6	(32)
b. Practices personal health habits	1	2	3	4	5	6	(33)
4. Use of language:							
a. Makes his wants known through speech	1	2	3	4	5	6	(34)
b. Converses with other children	1	2	3	4	5	6	(35)
c. Identifies objects by name	1	2	3	4	5	6	(36)
5. Responses to social situations:							
a. Follows directions	1	2	3	4	5	6	(37)
b. Is shy and retiring	1	2	3	4	5	6	(38)
c. Seeks help	1	2	3	4	5	6	(39)
d. Is aggressive	1	2	3	4	5	6	(40)
6. Shows interest in:							
a. Stories and poems	1	2	3	4	5	6	(41)
b. Visual aids	1	2	3	4	5	6	(42)
c. Classroom environment	1	2	3	4	5	6	(43)
7. Uses manipulative materials:							
a. Paint	1	2	3	4	5	6	(44)
b. Clay	1	2	3	4	5	6	(45)
c. Blocks	1	2	3	4	5	6	(46)
d. Puzzles	1	2	3	4	5	6	(47)
e. Crayons	1	2	3	4	5	6	(48)
f. Paste	1	2	3	4	5	6	(49)
g. Scissors	1	2	3	4	5	6	(50)

8. Knows his name: YES 1 NO 2 (51)

DATA TYPE PRE 01 POST 02 (79-80)

TEACHER/<u>AIDE</u> TASK REPORT

SCHOOL NUMBER_____ (1-3)
DATE_____ (4-9)
(Mo/Day/Year)

How often did you perform the following tasks?
(Please circle one for each item)

	Never	Seldom	Usually	Most of the time	Always	
1. Check attendance.	1	2	3	4	5	(10)
2. Collect money.	1	2	3	4	5	(11)
3. Fill out forms that teacher would normally do.	1	2	3	4	5	(12)
4. Assist with children's arrival and dismissal.	1	2	3	4	5	(13)
5. Assist with restroom and hand washing.	1	2	3	4	5	(14)
6. Prepare lunch.	1	2	3	4	5	(15)
7. Pin on lunch envelopes and notes.	1	2	3	4	5	(16)
8. Prepare paint and clay.	1	2	3	4	5	(17)
9. Clean easel.	1	2	3	4	5	(18)
10. Clean clay tables.	1	2	3	4	5	(19)
11. Cut paper.	1	2	3	4	5	(20)
12. Clean up after work period.	1	2	3	4	5	(21)
13. Assist in care of bulletin board.	1	2	3	4	5	(22)
14. Take part of class for outdoor play while teacher works with group indoors.	1	2	3	4	5	(23)
15. Assist during outdoor play periods with entire class and teacher.	1	2	3	4	5	(24)
16. Help individaul pupils during play time with puzzles, games, etc.	1	2	3	4	5	(25)
17. Read to individual or small groups.	1	2	3	4	5	(26)
18. Help individual pupils who have difficulty handling scissors, paste, crayons, etc., during group work.	1	2	3	4	5	(27)
19. Go on excursions with teacher and class.	1	2	3	4	5	(28)
20. Assist in special school program.	1	2	3	4	5	(29)
21. Duplicate work sheets, notes to parents, etc.	1	2	3	4	5	(30)
22. Set up projectors, tape recorders, phonograph, etc.	1	2	3	4	5	(31)
23. Assist classroom teacher when a problem situation arises.	1	2	3	4	5	(32)
24. Leave room for official errands.	1	2	3	4	5	(33)
25. Go to child's home for permission slip signature.	1	2	3	4	5	(34)
26. Play games - Tell or read stories when teacher has special assignment which takes her from her class.	1	2	3	4	5	(35)
27. Take pupils home in emergency situations.	1	2	3	4	5	(36)
28. Attend child study group.	1	2	3	4	5	(37)
29. Attend P.T.A. meeting.	1	2	3	4	5	(38)

CARD CODE 08 (79-80)

1. Give one suggestion for improving your work in the classroom.

2. What other duties are you doing that have not been listed?.

3. What activity would you have liked to have done but didn't get to do? (use reverse side)

TEACHER/AIDE TASK REPORT

SCHOOL NUMBER _____ (1-3)

DATE _____ __ (4-9)

(Mo/Day/Year)

	How often did your aide perform the following tasks? (Please circle one for each item)	Never	Seldom	Usually	Most of the time	Always	Card Column
1.	Check attendance.	1	2	3	4	5	(10)
2.	Collect money.	1	2	3	4	5	(11)
3.	Fill out forms that teacher would normally do.	1	2	3	4	5	(12)
4.	Assist with children's arrival and dismissal.	1	2	3	4	5	(13)
5.	Assist with restroom and hand washing.	1	2	3	4	5	(14)
6.	Prepare lunch.	1	2	3	4	5	(15)
7.	Pin on lunch envelopes and notes.	1	2	3	4	5	(16)
8.	Prepare paint and clay.	1	2	3	4	5	(17)
9.	Clean easel.	1	2	3	4	5	(18)
10.	Clean clay tables.	1	2	3	4	5	(19)
11.	Cut paper.	1	2	3	4	5	(20)
12.	Clean up after work period.	1	2	3	4	5	(21)
13.	Assist in care of bulletin board.	1	2	3	4	5	(22)
14.	Take part of class for outdoor play while teacher works with group indoors.	1	2	3	4	5	(23)
15.	Assist during outdoor play periods with entire class and teacher.	1	2	3	4	5	(24)
16.	Help individual pupils during play time with puzzles, games, etc.	1	2	3	4	5	(25)
17.	Read to individual or small groups.	1	2	3	4	5	(26)
18.	Help individual pupils who have difficulty handling scissors, paste, crayons, etc., during group work.	1	2	3	4	5	(27)
19.	Go on excursions with teacher and class.	1	2	3	4	5	(28)
20.	Assist in special school program.	1	2	3	4	5	(29)
21.	Duplicate work sheets, notes to parents, etc.	1	2	3	4	5	(30)
22.	Set up projectors, tape recorders, phonograph, etc.	1	2	3	4	5	(31)
23.	Assist classroom teacher when a problem situation arises.	1	2	3	4	5	(32)
24.	Leave room for official errands.	1	2	3	4	5	(33)
25.	Go to child's home for permission slip signature.	1	2	3	4	5	(34)
26.	Play games - Tell or read stories when teacher has special assignment which takes her from her class.	1	2	3	4	5	(35)
27.	Take pupils home in emergency situations.	1	2	3	4	5	(36)
28.	Attend child study group	1	2	3	4	5	(37)
29.	Attend P.T.A. meeting.	1	2	3	4	5	(38)

CARD CODE   07   (79-80)

1. Give one suggestion for improving your aides work in the classroom.

2. What other duties is your aide doing that have not been listed?

3. What activity would you have liked her to do but she didn't get to do?
                (Use reverse side)

TEACHER RATING OF AIDE

Please check (✓) either Yes or No in the appropriate box immediately following each question below. Please respond to every item. If your response is Yes to any of the items, place a check (✓) mark in one of the boxes under the YES column to indicate the manner in which your Aide performed these duties.

School_____   School Number _____   (1-3)

Teacher's Name_____   Teacher Number_____   (4-6)

Has Your Aide:	NO	YES			Card Column
		Occa-sionally	Fre-quently	Always	
1. Been able to interact positively with children?	0	1	2	3	(7)
2. Willingly accepted all assignments?	0	1	2	3	(8)
3. Accepted suggestions and guidance freely?	0	1	2	3	(9)
4. Shown interest in their work?	0	1	2	3	(10)
5. Exhibited on-the-job growth?	0	1	2	3	(11)
6. Shown initiative in the performance of routine duties?	0	1	2	3	(12)
7. Been Punctual and maintained good attendance?	0	1	2	3	(13)

SCHOOL_____

Name of person filling out form_____

Data Type 12   (79-80)

EVALUATION OF IN-SERVICE

NAME:_____   DATE:_____

Area of service (check one)   Grade level of teaching (check one)

Teacher ___   P.S. ___
Teacher Aide___   K-3 ___
Counselor ___   4-6 ___
                                  7-9 ___
                                  10-12 ___

Other _____

Event:_____

Date _____

Location: _____

1. The ideas and information which were presented were: (check one)
   Generally new to me;___ Some ideas were new, some I already had;___
   Few ideas were new to me;_____ Nothing was new to me;_____

2. From which part of the program did you gain the most useful
   information or help?
   Speaker_____ Discussion Group_____ Other _____

3. The information and ideas presented were: (check one)
   Very helpful____ Helpful____ Of some help____ Of little help____
   Of no help_____

4. What one idea or item of information did you gain from this
   meeting?

   _____

   _____

   _____

5. Have you suggestions on how this meeting might have been improved?

   _____

   _____

   _____

6. Have you suggestions for topics or speakers for future in-service
   meetings?

   _____

   _____

   _____

Title I Form F

PARENTS COMMENTS ON PRESCHOOL CLASS

San Jose Unified School District
1331 Preschool Education Project

1. When your child joined the preschool class, what did you hope he
would get out of it?

2. What did your child gain from the class?

3. What do you think he needs the most help in?

4. Did he change in any of the following ways:

	Good Before	Better Now	Not Improved
1. Being at ease when away from mother			
2. Feeling important and self-confident			
3. Doing things for himself (independence)			
4. More skillful in use of his body (climbing, balancing)			
5. More skillful in use of his hands (carrying things, drawing)			
6. Learning to talk instead of hit			
7. Willingness to take turns and share			
8. Wants to talk and ask about things, being curious			
9. Controlling his emotions and feelings			
10. Respecting the rights of others			
11. Recognizing some colors and differences between objects (large, small, round, flat)			
12. Enjoyment of books and stories			
13. Liking for new foods			
14. Getting along with other children			
15. Getting along in the family			
16. Speaking more English			
17. Listens more carefully and can follow simple directions			

5. What did you enjoy most about your part in the class?

6. Did you get any new ideas from the class or the teacher that you find
helpful?

7. How could the class be improved another year?

COMENTARIO PRE-ESCOLAR PARA PADRES

San Jose Unified School District - Preschool 1331

ESCUELA _____

I. ¿Cuando su niño empezó la clase pre-escolar, qué resultado esperaba usted?

II. ¿Qué resultado mas significante ha notado usted? (¿Qué ha aprendido su niño en esta clase?)

III. ¿En qué cree usted que su niño necesita mas ayuda?

IV. ¿Ha cambiado su niño en una de las siguientes maneras? (Favor de marcar (x) la palabra que mejor indica el cambio)

	no tenéa problemas anteriormente	ha mejorado	no ha mejorado
1. Está contento lejos de su mamá			
2. Es independiente (hace cosas por si mismo)			
3. Se siente importante y seguro de si mismo			
4. Usa sus manos con abilidad (cargando cosas, dibujo)			
5. Tiene abilidad en el uso de su cuerpo pará trepar, balancear, etc.			
6. Pregunta por cosas en lugar de pegar			
7. Tiene la abilidad de esperar su turno y de compartir con los otros		₄	
8. Controla sus emociones y sentimientos			
9. Respeta los derechos ajenos			
10. Reconoce los colores y la diferencia de unos objetos a otros (grande, chico, redondo, plano)			
11. Goza los libros y las historias infantiles			
12. Le gusta probar diferentes comidas			
13. Se lleva bien con los demas niños			
14. Se lleva bien con la familia			
15. Escucha atentamente y sigue instrucciones fáciles			

V. ¿Qué es lo que mas ha gozado usted de esta clase?

VI. ¿Obtuvo usted algunas nuevas ideas de la clase o de la maestra que le pueda servir ahora o en el futuro?

VII. ¿Quiere usted sugerir algo para mejorar la clase el año que viene?

ATTITUDE TOWARDS SELF AND SCHOOL   (GRADES 1-3)

Teacher Name_____

Student Name_____

School Number_____   (1-3)
Grade____1____2____3____ (circle one) (4)
Teacher Number_____   (5-7)
Student Number_____   (8-15)
Date_____   (15-21)
      (Mo/Day/Year)

MARK THE NOSE OF THE FACES YOU CHOOSE

Card
Column

1. How do you feel about growing up and
   getting older?   (22)

2. How do you feel when it's time to get up
   and go to school?   (23)

3. How do you feel when you have a chance to
   learn something new?   (24)

4. How do you feel when you think about going
   home after school each day?   (25)
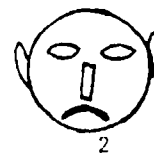
5. How do you feel when the teacher tells you
   to get out your books and begin to work?   (26)

6. How do you feel when you think about how
   fast you learn?   (27)

7. How do you feel when the teacher says
   that she is going to give a test?   (28)

8. How do you feel about how healthy and
   strong you are?   (29)

111

Card
Column

9. How do you feel about how well you read?　(30)

1　　2

10. How do you feel about the way the
neighbors treat you?　(31)

1　　2

11. How do you feel about how you look
and the kind of face you have?　(32)

1　　2

12. How do you feel about the way the
other children treat you?　(33)

1　　2

13. How do you feel when you get your
report card and take it home?　(34)

1　　2

14. How do you feel about how much
you know?　(35)

1　　2

15. How do you feel about how well you
do arithmetic?　(36)

1　　2

16. How do you feel when you think about
next year in school?　(37)

1　　2

17. How do you feel about the way your
teacher treats you?　(38)

1　　2

18. How do you feel when the teacher says
that it's your turn to read out loud
before the group?　(39)

1　　2

Data Type 05　06　(79-80) 112

STUDENT SURVEY

Teacher Name _____   School Number _____   (1-3)

Student Name _____   Grade 4   5   6   7   8   9   (circle one)   (4)

Teacher Number _____   (5-7)

Student Number _____   (8-15)

Date _____   (16-21)
  (Mo./Day/Year)

	Circle Appropriate Response		Card Column
	Yes	No	
1. Do you like school?	1	2	(22)
2. Do you need more help from your teacher?	1	2	(23)
3. Do you read books from a library?	1	2	(24)
4. Do you like your school?	1	2	(25)
5. Do you enjoy field trips?	1	2	(26)
6. Do field trips help you in schoolwork?	1	2	(27)
7. Do you get along better outside of school than in school?	1	2	(28)
8. Would you like to spend more time at school?	1	2	(29)
9. Are you satisfied with the grades on your report card?	1	2	(30)
10. Do you worry about your schoolwork?	1	2	(31)
11. Are you doing better in your schoolwork this year?	1	2	(32)
12. Do you look forward to coming to school each morning?	1	2	(33)
13. Do you talk about school at home?	1	2	(34)
14. Has someone from home ever talked to your teachers?	1	2	(35)
15. Do you get praise at home for good schoolwork?	1	2	(36)
16. Do you think you will graduate from high school?	1	2	(37)
17. Do you hope to go to college?	1	2	(38)
18. Do you talk at home about what kind of job or career you will have after you are out of school?	1	2	(39)
19. Do you read more than is required by your schoolwork?	1	2	(40)
20. Do you think your teachers usually expect too much of you?	1	2	(41)
21. Do your teachers think you are doing well in your schoolwork?	1	2	(42)
22. Do your parents think you are doing well in your schoolwork?	1	2	(43)
23. Do you think you could do well in any school subject if you studied hard enough?	1	2	(44)
24. Are your lowest grades usually your teacher's fault?	1	2	(45)
25. Do you think you could do well in any kind of job you choose?	1	2	(46)

Pre __03__   Post __04__   (79-80)

113

ORAL LANGUAGE SKILLS

| NAME | SCHOOL | 1968-69 | TOTAL |

NUMBER

1. WHAT ARE YOUR FAVORITE TV PROGRAMS AND WHY DO YOU LIKE THEM?	NO. OF PROGRAMS 0 1 2	NO. OF REASONS 0 1 2	USE OF DESCRIPTIONS 0 1 2	
2. HOW MANY BROTHERS AND SISTERS DO YOU HAVE AND WHAT DO THEY DO?	NO. OF SIBLINGS YES NO 1 0	WHAT THEY DO YES NO 1 0	Use of DESCRIPTIONS 0 1 2	
3. WHAT WOULD YOU LIKE TO CHANGE ABOUT YOUR SCHOOL?	NO. OF THINGS CHANGED OR 0 1 2 Not		Use of DESCRIPTIONS 0 1 2	
4. WHAT DID YOU LIKE ABOUT THE LAST FIELD TRIP YOU TOOK?	NAME THE TRIP YES NO 1 0	Number of ITEMS LIKED OR DISLIKED 0 1 2	Use of DESCRIPTIONS 0 1 2	
5. DO YOU LIKE ROCK AND ROLL MUSIC, WHY?	DIRECT RESPONSE YES NO 1 0	Number of REASONS 0 1 2	Use of DESCRIPTIONS 0 1 2	
			TOTAL	

STUTTERS	SOUNDS SUBSTITUTION OR OMISSIONS	ACCENT
Mild Severe	Mild Severe	Mild Severe

TITLE 1

INVENTORY OF OBSERVED CHARACTERISTICS

DIRECTIONS

Following is a list of characteristics which are often attributed to

children in need of compensatory education services:

Part 1. Please indicate by circling the appropriate box the proportion
of children in your class who exhibit each characteristic.

Part 2. After you have done Part 1, please mark whether you consider each
characteristic to be an asset in the classroom, a liability, or
simply a difference in behavior which does not affect classroom
performance.

Part 3. If any characteristics have been omitted from this list which
you think have an important bearing on the classroom performance
of this population, please list them on the sheet provided.
For each characteristic listed, please indicate whether you
consider it to be an asset, liability, or difference. If you care
to do so, it would be helpful if you explained what the effect of
these characteristics is on classroom performance.

School _____

Teacher _____

INVENTORY OF OBSERVED CHARACTERISTICS

Teacher Name _____	School Number _____	(1-3)
	Teacher Number _____	(4-6)
	Grade PreSch., K,1,2,3,4,5,6,7,8,9	(7)
	Date _____	(8-13)
	Mo./Day/year	

PLEASE CIRCLE APPROPRIATE RESPONSES   Card Column

1. Learns in a physical or motoric fashion

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(14)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(15)

2. Thrives on rules and order

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(16)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(17)

3. Likes excitement

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(18)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(19)

4. Displays Initiative

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(20)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(21)

5. Attention wanders when adults are talking

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(22)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(23)

6. Proud

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(24)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(25)

7. Oriented toward the practical and realistic

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(26)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(27)

8. Rarely volunteers

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(28)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(29)

9. Does not know how to take tests

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(30)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(31)

10. Polite

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(32)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(33)

11. Quick in judging peoples' facial expressions

None ^{1}	A Few ^{2}	About ½ ^{3}	Many ^{4}	All ^{5}	(34)
Asset ^{1}	Liability ^{2}	Difference ^{3}			(35)

-2-

Card Column

12.	Superstitious	None 1	A Few 2	About ½ 3	Many 4	All 5	(36)

	Asset 1	Liability 2	Difference 3	(37)

13.	Lacks flexibility in mental sets	None 1	A Few 2	About ½ 3	Many 4	All 5	(38)

	Asset 1	Liability 2	Difference 3	(39)

14.	Passive	None 1	A Few 2	About ½ 3	Many 4	All 5	(40)

	Asset 1	Liability 2	Difference 3	(41)

15.	Style is slow and cautious	None 1	A Few 2	About ½ 3	Many 4	All 5	(42)

	Asset 1	Liability 2	Difference 3	(43)

16.	Avoids confrontation by agreeing readily	None 1	A Few 2	About ½ 3	Many 4	All 5	(44)

	Asset 1	Liability 2	Difference 3	(45)

17.	Self-reliant and independent	None 1	A Few 2	About ½ 3	Many 4	All 5	(46)

	Asset 1	Liability 2	Difference 3	(47)

18.	Tends to act out feelings	None 1	A Few 2	About ½ 3	Many 4	All 5	(48)

	Asset 1	Liability 2	Difference 3	(49)

19.	Thinking tends to be concrete	None 1	A Few 2	About ½ 3	Many 4	All 5	(50)

	Asset 1	Liability 2	Difference 3	(51)

20.	Impulsive	None 1	A Few 2	About ½ 3	Many 4	All 5	(52)

	Asset 1	Liability 2	Difference 3	(53)

21.	Suspicious of new ideas	None 1	A Few 2	About ½ 3	Many 4	All 5	(54)

	Asset 1	Liability 2	Difference 3	(55)

22.	Tendency to daydream	None 1	A Few 2	About ½ 3	Many 4	All 5	(56)

	Asset 1	Liability 2	Difference 3	(57)

23.	Confused by permissiveness	None 1	A Few 2	About ½ 3	Many 4	All 5	(58)

	Asset 1	Liability 2	Difference 3	(59)

24.	Responds to respect rather than "love" from the teacher	None 1	A Few 2	About ½ 3	Many 4	All 5	(60)

	Asset 1	Liability 2	Difference 3	(61)

-3-

CIRCLE APPROPRIATE RESPONSES

Card Column

25.	Required many examples before seeing a point or arriving at a conclusion	None 1	A Few 2	About ½ 3	Many 4	All 5	(62)
		Asset 1	Liability 2	Difference 3			(63)

26. Agressive

| None 1 | A Few 2 | About ½ 3 | Many 4 | All ' | (64) |
| Asset 1 | Liability 2 | Difference 3 | | (65) |

27. Not given to self-blame or self-criticism

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (66) |
| Asset 1 | Liability 2 | Difference 3 | | (67) |

28. Does not know how to relate to the teacher

| None 1 | A Few 2 | About ½ 3 | Many 4 | All ' | (68) |
| Asset 1 | Liability 2 | Difference 3 | | (69) |

29. Shows great responsiveness to new experiences

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (70) |
| Asset 1 | Liability 2 | Difference 3 | | (71) |

30. Is not competitive

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (72) |
| Asset 1 | Liability 2 | Difference 3 | | (73) |

31. Intolerant

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (74) |
| Asset 1 | Liability 2 | Difference 3 | | (75) |

32. Unable to extract from the particular the characteristics of the general

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (76) |
| Asset 1 | Liability 2 | Difference 3 | | (77) |

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Card Two

33. Physical and visual rather than aural

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (14) |
| Asset 1 | Liability 2 | Difference 3 | | (15) |

34. Logic tends to be inductive rather than deductive

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (16) |
| Asset 1 | Liability 2 | Difference 3 | | (17) |

35. Does not respond well to being challenged

| None 1 | A Few 2 | About ½ 3 | Many 4 | All ' | (18) |
| Asset 1 | Liability 2 | Difference 3 | | (19) |

36. Has patience and resolute courage

| None 1 | A Few 2 | About ½ 3 | Many 4 | All 5 | (20) |
| Asset 1 | Liability 2 | Difference 3 | | (21) |

-4-

37. Easy to involve through role-playing	None 1	A Few 2	About ½ 3	Many 4	All 5	(22)
	Asset 1	Liability 2	Difference 3			(23)
38. Once involved, works tenaciously for long stretches.	None 1	A Few 2	About ½ 3	Many 4	All 5	(24)
	Asset 1	Liability 2	Difference 3			(25)
39. Does not know how to ask and answer questions	None 1	A Few 2	About ½ 3	Many 4	All 5	(26)
	Asset 1	Liability 2	Difference 3			(27)
40. Responds to teacher's kindness, personal attention and assistance	None 1	A Few 2	About ½ 3	Many 4	All 5	(28)
	Asset 1	Liability 2	Difference 3			(29)
41. Slow, Careful, patient, persevering	None 1	A Few 2	About ½ 3	Many 4	All 5	(30)
	Asset 1	Liability 2	Difference 3			(31)
42.	None 1	A Few 2	About ½ 3	Many 4	All 5	(32)
	Asset 1	Liability 2	Difference 3			(33)
43.	None 1	A Few 2	About ½ 3	Many 4	All 5	(34)
	Asset 1	Liability 2	Difference 3			(35)
44.	None 1	A Few 2	About ½ 3	Many 4	All 5	(36)
	Asset 1	Liability 2	Difference 3			(37)
45.	None 1	A Few 2	About ½ 3	Many 4	All 5	(38)
	Asset 1	Liability 2	Difference 3			(39)
46.	None 1	A Few 2	About ½ 3	Many 4	All 5	(40)
	Asset. 1	Liability 2	Difference 3			(41)
47.	None 1	A Few 2	About ½ 3	Many 4	All 5	(42)
	Asset 1	Liability 2	Difference 3			(43)
48	None 1	A Few 2	About ½ 3	Many 4	All 5	(44)
	Asset 1	Liability 2	Difference 3			(45)

Data Code 09   (79-80)

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