DOCUMENT RESUME

ED 376 437 CS 011 879

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TITLE Reading Recovery Program 1992-93. Elementary and

Secondary Education Act--Chapter 1. Final Evaluation

Report.

INSTITUTION Columbus Public Schools, OH. Dept. of Program

Evaluation.

PUB DATE 30 Mar 94

NOTE 44p.; For 1991-92 report, see ED 358 440.

PUB TYPE Reports - Evaluative/Feasibility (142) --

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS Elementary School Students; Grade 1; *High Risk

Students; Instructional Effectiveness; Primary

Education; Program Effectiveness; "Reading Programs;

*Remedial Reading; Urban Education

Tests/Evaluation Instruments (160)

IDENTIFIERS Columbus Public Schools OH; Outcome Based Education;

*Reading Recovery Projects

ABSTRACT

A study evaluated the effectiveness of the 1992-93 Reading Recovery program as implemented in the Columbus Public Schools. The program featured individualized one-on-one lessons provided by 66 specially trained teachers serving 305 pupils. Data included results of administration of Metropolitan Achievement Tests and Scott Foresman text reading level testing. The treatment group consisted of the 162 pupils who were either discontinued (82) or received 60 or more lessons but not discontinued (80). Results indicated that: (1) 149 pupils (92%) reached Scott Foresman level 8; (2) 91.9% of the pupils were not retained in grade one; (3) 355 different parents or guardians were involved in some way with the program; (4) 34 (21.8%) of the evaluation sample students reached the average normal curve equivalents (NCE) for the district as a whole; and (5) of the 368 pupils from the 1990-91, 1991-92, and 1992-93 treatment groups who remained in the Columbus Public School, 90.5% (333) followed a normal grade-level progression. Findings suggest continuation of the program with attention given to seven recommendations. (Contains 13 tables of data. Survey and evaluation instruments are attached.) (RS)



FINAL EVALUATION REPORT READING RECOVERY™ PROGRAM

1992-93



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Elementary and Secondary Education Act - Chapter 1

FINAL EVALUATION REPORT READING RECOVERY™ PROGRAM 1992-93

ABSTRACT

<u>Program Description</u>: The purpose of the 1992-93 Reading Recovery program was to provide early intervention to underachieving first-grade pupils who appeared unlikely to learn to read successfully without intensive instruction. The program featured individualized one-on-one lessons provided by specially trained teachers. The lessons were based upon observational tasks designed to provide a comprehensive assessment of the pupil's development of reading and writing strategies.

The Reading Recovery program was piloted in Columbus Public Schools during the 1984-85 school year, with the 1992-93 school year being the ninth continuous year of the program. The program was a joint effort of educators in the Columbus Public Schools, the College of Education of The Ohio State University, and the Ohio Department of Education and was funded by Elementary and Secondary Education (ESEA) - Chapter 1 monies. During 1992-93 the Reading Recovery program was located in 60 elementary schools, had a staff of 66 teachers (16.5 FTEs) and served 305 pupils. Most teachers served part-time in the program and part-time in the Early Literacy program.

Time Interval: For evaluation purposes the Reading Recovery program started on September 21, 1992 and continued through May 14, 1993. Pupils included in the final analyses for Desired Outcomes 1 and 2 must have received 60 or more instructional lessons or have been successfully discontinued (completed) from the program. To be included in the analysis of standardized test achievement, pupils must have received 60 or more instructional lessons or have been successfully discontinued and have had a valid posttest score on a nationally standardized achievement test.

Activities: To help pupils develop reading strategies, daily 30-minute individualized lessons included a variety of instructional activities, such as reading and re-reading books while the teacher recorded their strategies and errors, writing and reading their own stories, letter identification, and sound analysis of words.

Achievement Objective: Pupils were to receive Reading Recovery instruction until they were ready to be successfully discontinued from the program. Discontinued pupils were those who successfully completed the program according to (a) predetermined levels on observational tasks indicating that the pupils were reading at the average level for the district, and (b) teacher judgment that the pupils had developed effective reading strategies and could learn in the normal classroom setting without extra individual help.

Evaluation Design: The evaluation design included two desired outcomes: (1) at least 75 percent of the pupils who had received 60 or more lessons or were discontinued would not be retained; and (2) at least 50 percent of pupils who received 60 or more lessons or were discontinued would read at least five books at text reading level 8 (appropriate Scott Foresman text reading level for promotion to grade 2) or above. In addition to the two desired outcomes, three evaluation questions were included in the evaluation design based upon two major program goals: to develop and provide the Reading Recovery program for first grade children, and to adopt and apply the necessary inservice program for teachers. Questions were asked in the following areas: (a) service patterns of pupile; (b) performance levels of Reading Recovery pupils on a standardized test of reading; and (c) long term effects.

The major evaluation effort was to be accomplished through teacher evaluation of pupil independent reading achievement and the administration of the Metropolitan Achievement Tests, Level Primer, Form L, 1985 (MAT6) for spring testing. Analyses of the standardized test data included percentiles and districtwide average NCE scores. Although not part of the evaluation design, parent involvement data was also collected by program teachers. Locally constructed instruments were used to collect enrollment/attendance and parent involvement data. District computer files were used for retention data.



Major Findings/Recommendations: The Reading Recovery program served 305 pupils in 1992-93, with average pupil enrollment of 76.7 days. Average pupil attendance was 66.7 days and the average number of instructional lessons was 55.2. The treatment group consisted of the 162 pupils who were either discontinued (82) or received 60 or more lessons but not discontinued (80). Program developers have estimated that most pupils need approximately 60 lessons to complete the program. Of the treatment group pupils, 156 had valid MAT6 Total Reading scores, were English-speaking, and were included in the evaluation sample.

Records of parent contacts and activities maintained by program teacher for the 305 pupils served indicated 355 different parents or guardians were involved in some way with the program. These 355 individuals made a total of 1080 contacts with program teachers. The 162 treatment group pupils represented 53.1% of the 305 pupils served, but represented 68.7% (742) of the total number of contacts and 62.3% (221) of the individual parents involved in the program.

The two desired outcomes for the 1992-93 Reading Recovery program were met. Of the 162 pupils in the treatment group, retention data were available for 160 pupils. Of these 160 pupils, 147 (91.9%) were not retained (criterion was 75.0%). Of the 162 treatment group pupils, 149 (92.0%) read five or more books at text reading level 8 or above (criterion was 50.0%).

Thirty-four (21.8%) of the evaluation sample pupils reached the average NCE (45.6) for the district as a whole. The percentages of pupils who were at various percentile levels on the posttest were as follows: (a) 17.9% (28) were at the 50%ile or above (grade level); and (b) 76.9% (120) were below the 37%ile and still eligible for Chapter 1 services.

Results of the analyses of the long-term effects of Reading Recovery revealed the following. Of the former Reading Recovery pupils who were in a school and at a grade level where a compensatory education program was in operation in 1992-93, 36.4% (48) of the pupils from the 1990-91 treatment group and 31.0% (36) of the pupils from the 1991-92 treatment group were still being served in a compensatory education program. Of the 368 pupils from the 1990-91, 1991-92, and 1992-93 treatment groups who remained in the Columbus Public School through November 1993, 90.5% (333) followed a normal grade-level progression. The retention rates for grade 1 were: 4.1% for the 1990-91 treatment group, 1.8% for the 1991-92 treatment group, 8.1% for the 1992-93 treatment group, and 5.0% for the three treatment groups combined.

Based on evaluation results it is recommended that the Reading Recovery program be continued, with attention given to the following additional recommendations: (a) examining the process for discontinuing service to pupils; (b) exploring ways to reduce the amount of time program teachers spend with record keeping; (c) increasing parent involvement; (d) identifying pupils needing special education instruction at the earliest possible date; (e) providing opportunities for co-ordination between the program and classroom teachers; (f) maintaining a viable inservice program for program teachers; and (g) establishing a structured process observation procedure.



FINAL EVALUATION REPORT READING RECOVERYM PROGRAM 1992-93

Program Description

The purpose of the 1992-1993 Reading Recovery™ program was to provide early intervention to underachieving first-grade pupils who appeared unlikely to learn to read successfully without intensive instruction. To accomplish this purpose the program featured individualized one-on-one lessons 30 minutes daily provided by specially trained teachers. The lessons were based upon observational tasks which were designed to provide a comprehensive assessment of the pupil's development of reading and writing strategies.

The Reading Recovery program began in Columbus Public Schools during the 1984-85 school year, with a pilot program at 6 schools, serving 70 pupils taught by 14 teachers. During 1992-93, the program served pupils at 60 schools, with a teaching staff of 66 teachers (16.5 FTEs-Full Time Equivalents). Table 1 shows staffing, number of schools, and pupils served for the nine years of the program's existence.

Most Reading Recovery teachers were assigned individually to a building, working half the day in the Reading Recovery program and half the day in the Early Literacy program. Typically a program teacher taught three Reading Recovery pupils for 30 minutes each and four groups of six Early Literacy pupils for 40-45 minutes each.

In 1992-93 the Reading Recovery program was located in the following 60 elementary schools.

Schools Served by the Reading Recovery Program 1992-93

Arlington Park Avondale Beck Beck Fair Binns Fairmoor Broadleigh Burroughs Cassady Cedarwood Clarfield Como Dana Deshler East Columbus East Linden Easthaven Easthaven Easthaven Fairmoor Fairmoor Fairmood Fairwood Hamilton Heyl Como Highland Hubbard Hudson Huy East Columbus East Linden Easthaven Fairmoor Fairmoor Fairmoor Fairmoor Highland Heyl Franklinton Heyl Heyl Como Highland Hubbard Hudson Hudson East Linden Kent	Koebel Leawood Lincoln Park Lindbergh Linden Livingston Main Maize McGuffey Medary Moler North Linden Ohio Parkmoor Pilgrim	Reeb Salem Scottwood Second Siebert South Mifflin Southwood Stockbridge Sullivant Trevitt Weinland Park West Broad West Mound Westgate Windsor
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Schools were chosen for inclusion in the program according to the percent of pupils attending a school who were eligible for a free or reduced priced lunch (F & RPL). Those schools with the highest percentage F & RPL are included in the program each year, with the total number of schools involved in the program for a given year determined by the availability of funding for that year.

The 66 program teachers received support from three teacher leaders who served as trainers, resource teachers, program coordinators, and program teachers. The teacher leaders taught a required credit course for the first-year Reading Recovery teachers (20 teachers out of 66) and provided inservice



Table 1

Staffing, Schools, and Pupils Served Reading Recovery™ Program
Columbus Public Schools
1984-1993

School		Teacher Full-Time		Pupils
Year	Teachers	Equivalents (FTE)	Schools	Served
1984-85 ^a	14	7.0	6	70
1985-86	30	16.0	12	224
1986-87	52	26.0	20	335
1987-88	57 ^b	29.0	26	393
1988-89	49 ^b	23.8	26	283
1989-90	56°	29.0	31	514 ^d
1990-91	60°	20.0	38	297
1991-92	48 ^f	13.0	41	227
1992-93	66 ⁹	16.5	60	305

^aPilot year.

training for the experienced program teachers (41 teachers out of 66). Additionally, two of the 48 teachers received extended training to become future teacher leaders. Funding for the program was provided by Elementary and Secondary Education (ESEA) - Chapter 1 monies.

At the beginning of the year, classroom teachers selected first-grade pupils who appeared to be most in need of reading help to take two reading and writing observational tasks: Concepts About Print and Dictation (see Appendix A, pp. 24-25), which are two of the observational tasks designed by Marie Clay (1979), developer of the Reading Recovery program. Scores from these two tasks were used to determine a pupil's Selection Score. Selection Scores of 76 or below (see Appendix B, p. 27) qualified pupils for Reading Recovery or Early Literacy program service, pupils with the lowest scores being served first. The typical program teacher served 27 pupils, three Reading Recovery pupils and 24 Early Literacy pupils, with the three Reading Recovery pupils being the pupils with the lowest Selection Scores. After selection for the Reading Recovery program, pupils were administered four additional observational tasks: Letter Identification. Ohio Word Test. Writing Vocabulary, and Text Reading Level. These additional observational tasks were given to pupils to provide program teachers with more information about each



^bPlus support staff including 3 teacher leaders and 1 Ohio State University affiliated teacher.

clincludes 5 teacher leaders and 3 teacher leaders-in-training.

dIncludes 150 pupils with group service only.

[•]Includes 2 teacher leaders and 3 teacher leaders-in-training.

fincludes 2 teacher leaders and 4 teacher leaders-in-training.

glncludes 3 teacher leaders and 2 teacher leaders-in-training.

pupil before beginning program instruction. The six observational tasks were also administered at various times throughout the school year as pupils entered or exited the program and again at the conclusion of the program year.

Each pupil enrolled for individual service in the program spent approximately the first 10 days "Roaming Around the Known." During this period the Reading Recovery teacher built rapport with the pupil and provided an opportunity for the pupil to use the strategies he or she already knew in meaningful reading and writing activities. Once the Reading Recovery lessons began, a familiar pattern was established. A typical 30-minute lesson included most or all of the following activities.

- Two or more familiar books from previous lessons were selected by the pupil to be read to the teacher.
- 2. The teacher took a running record while the pupil read the book that was introduced to the pupil and attempted on the previous day. During this time the Reading Recovery teacher changed the focus from instruction to observation. Meaning, structure, and visual cues were analyzed to determine which cues were used or neglected by the pupil. Each day the teacher carefully recorded the pupil's development of reading strategies (e.g., self-monitoring, searching for cues, cross-checking, self-correcting) or ability to determine the meaning of continuous text.
- 3. During letter identification, plastic letters were used on a magnetic board.
- 4. The pupil dictated a story and then learned to write and read it with the teacher's help.
- 5. During sound analysis of words from a written story, the pupil was encouraged to say the words slowly and write what could be heard.
- 6. A completed story was cut into separate words, which were scrambled, and then rearranged in the correct order by the pupil.
- A new book was introduced by the teacher.
- 8. The new book was attempted by the pupil.

When it was determined by the Reading Recovery teacher, in consultation with the classroom teacher and the teacher leader, that a pupil had made sufficient progress to work successfully in the normal classroom setting without extra help, the pupil was recommended to be discontinued. Discontinued pupils were defined as those who had successfully completed the program according to predetermined levels on the observational tasks and had been released from the program. When pupils left the program (e.g., were discontinued, moved from the school, were placed in special programs), pupils entered the program either from the Early Literacy program or from a waiting list.

Evaluation Design

For program year 1992-93, two desired outcomes were established for the Reading Recovery program. Data collected in three major areas were incorporated in the analyses of the desired outcomes: pupil census information, pupil retainee information, and pupil independent reading achievement. Although not part of the evaluation design, parent involvement information was also collected by program teachers.

Desired Outcome 1:

At least 75 percent of pupils who received 60 or more lessons or were discontinued will demonstrate satisfactory progress in the regular classroom as demonstrated by promotion to grade 2.



Desired Outcome 2:

At least 50 percent of pupils who receive 60 or more lessons or were discontinued will read at least five books at text reading level 8 or above as certified by the program teacher.

In addition to the desired outcomes, evaluation questions were developed based on two goals identified from the 1984-85 proposal. The goals were:

1. To develop and provide the Reading Recovery program for first-grade pupils.

The individual child who has been identified as being "at risk" of failure has recovered essential reading strategies and can function satisfactorily in the regular classroom.

2. To adapt and apply the necessary inservice program for teachers.

To implement the Reading Recovery techniques, teachers will receive intensive training over the period of a year while simultaneously implementing the program with children through clinical and peer-critiquing experiences guided by a skilled instructor.

Based on these two goals, three evaluation questions regarding the 1992-93 Reading Recovery program were developed. The questions focused on the following areas: service patterns, posttest performance on a standardized test of reading, and long-term effects of the program. The specific evaluation questions and analyses for each are listed below.

Question 1 What were the service patterns of pupils in the Reading Recovery program?

- Analysis 1.1 Number of pupils who were served.
- Analysis 1.2 Number of pupils who were discontinued.
- Analysis 1.3 Demographic characteristics of pupils who were served.
- Analysis 1.4 Demographic characteristics of pupils who were discontinued.
- Question 2. What were the performance levels of Reading Recovery pupils on a standardized test of reading?
 - Analysis 2.1 Number and percent of pupils reaching the 50%ile in Total Reading on the MAT6.
 - Analysis 2.2 Number and percent of pupils reaching the 37%ile in Total Reading on the MAT6.
 - Analysis 2.3 Number and percent of pupils reaching the average NCE for the district in Total Reading on the MAT6.
 - Analysis 2.4 Analysis of central tendency and distribution of NCE scores of Total Reading on the MAT6.

Question 3 What were the long-term effects of the Reading Recovery program?

- Analysis 3.1 Number and percent of pupils in the 1990-91 and 1991-92 Reading Recovery treatment groups who in 1992-93 attended a school where a compensatory program was available and who were served by a compensatory program.
- Analysis 3.2 Number and percent of pupils in the 1990-91, 1991-92, and 1992-93 Reading Recovery treatment groups who followed a normal grade level progression.



Instruments

The evaluation design provided for the collection of data in the following five areas of operation for the overall program. Included in the collection of data was parent involvement information, which was not part of the evaluation design.

1. Teacher Census Information

<u>Teacher Census Form (TCF)</u> was completed by program teachers to obtain staffing information, including employment status, periods of program instruction, and school assignment (see Appendix C, p. 29).

2. Pupil Census Information

<u>Calendar Worksheet/Parent Involvement Log</u> (CW/PIL) was used to record pupil service information, Selection Scores, and parent involvement data (see Appendix D, pp. 31-32).

<u>Pupil Roster</u> was completed by program teachers to indicate official enrollment of each pupil into the program. Program teachers identified pupils served from computer generated lists of all first grade pupils in their buildings. Information included pupil name, student number, date of birth, program teacher name, school code, and program code.

<u>Pupil Data Sheet</u> (PDS) was a computer generated preprinted form used by program teachers to summarize enrollment/attendance data, number of lessons, independent reading achievement information, parent involvement, discontinued status, hours of instruction per week, English-speaking status, and progress made for each pupil served (see Appendix E, p. 34).

3. Retention Information

District computer files were utilized to access retention data.

4. Pupil Independent Reading Achievement/Pupil Standardized Achievement Test Information

<u>Pupil Data Sheet</u> (PDS), described earlier, was a computer generated preprinted form used by program teachers to summarize independent reading achievement information for each pupil served (see Appendix E, p. 34).

The Metropolitan Achievement Tests (MAT6, 1985) was used to obtain standardized achievement test information for all pupils in the Reading Recovery program. Results from the test were used as pretest scores for pupils in grade 2. This test series has empirical norms for spring, established April 8 to May 15, 1985. The description of the MAT6 is as follows:

Level	Form.	Recommended Grade Range	Subtests	Number of Items
Primer	L	K.5 - 1.9	Vocabulary Word Recognition Skills Reading Comprehension Total Reading	15 36 <u>38</u> 89

The MAT6 tests were administered by classroom and program teachers. Testing occurred March 29-April 1, 1993. All testing was done on level, as indicated in the table above.



5. Parent Involvement Information

<u>Parent Involvement Log</u> (PIL) was used to record parent involvement data, including the date, type of activity/involvement, and name of attendee(s) (see Appendix D, p. 32).

<u>Pupil Data Sheet</u> (PDS), described earlier, was a computer generated preprinted form used by program teachers to summarize data collected from the Parent Involvement Logs for each pupil served (see Appendix E, p. 34).

Inservice evaluation information, data which were not specified in the Reading Recovery evaluation design but were collected routinely, is not included here but has been submitted to the Department of Federal and State Programs, Columbus Public Schools.

Major Findings

Pupils Served/Desired Outcomes

During the 1992-93 school year, a total of 305 pupils were served by the Reading Recovery program. The treatment group for 1992-93 was limited to the 82 pupils who were discontinued and the 80 additional pupils who had a minimum of 60 lessons but were not discontinued (a total of 162 pupils or 53.1% of all pupils served). The use of the 60 lesson distinction was based upon the premise in Marie Clay's research in New Zealand (1979) which determined that an average of 60 lessons was needed for pupils to be discontinued and to continue to work successfully in the normal classroom setting. Thus, the 143 other pupils served were excluded from the treatment group. The evaluation sample used for evaluation of standardized achievement test performance was restricted to those pupils who were in the treatment group, were English-speaking, had spring administration of the standardized achievement test (MAT6), and had a valid MAT6 Total Reading score. Of the 162 pupils in the treatment group, 6 pupils were excluded from the evaluation sample because of incomplete test data. The evaluation sample was comprised of the remaining 156 pupils, which was 96.3% of the treatment group and 51.1% of the 305 pupils served.

Desired Outcome 1:

At least 75 percent of pupils who received 60 or more lessons or were discontinued will demonstrate satisfactory progress in the regular classroom as demonstrated by promotion to grade 2.

Desired Outcome 1 was based on the number of pupils who were discontinued from the Reading Recovery program or who had received 60 or more lessons during the school year. A total of 162 pupils met one of these criteria. Of these 162 pupils, retention data were available for 160 pupils. Of these 160 pupils, 147 (91.9%) were not retained. Thus, Desired Outcome 1 was met.

Desired Outcome 2:

At least 50 percent of pupils who receive 60 or more lessons or were discontinued will read at least five books at text reading level 8 or above as certified by the program teacher.

Desired Outcome 2 was also based on the number of pupils who were discontinued from the Reading Recovery program or who had received 60 or more lessons during the school year. Of the 162 pupils who met one of these criteria, 149 (92.0%) read five books at text reading level 8 or above, thus allowing Desired Outcome 2 to be met.

Parent Involvement

Records of parent contacts and activities were maintained by program teachers using the Parent involvement Log (Appendix D., p. 32) to document the date of parent contact, the type of activity, and which parents or guardians participated in each activity. Table 2 displays parent involvement data



Table 2

Number of Parents

Reported for Parent Involvement Activities for Reading Recovery Program

1992-93

		Totals fo	r Year
	Program Activities	Treatment Group Pupils ^a (N=162)	All Pupils Served (N=305)
1.	Parents involved in the planning, operation		
	and/or evaluation of your unit		
	Number of Parents	10	13
	Number of Contacts	14	19
2.	Group meetings for parents		
	Number of Parents	48	57
	Number of Contacts	57	68
3.	Individual parent conferences		
	Number of Parents	208	335
	Number of Contacts	520	775
4.	Parental classroom visits or field trips		
	Number of Parents	77	112
	Number of Contacts	126	179
5.	Visits by teacher to parents' homes		
	Number of Parents	20	32
	Number of Contacts	25	39
	Total Parents Contacted ^t	221	355
	Total Number of Contacts		1080

^a Treatment Group Pupils are those who were discontinued from the program or had 60 or more lessons.

^b Total Parents Contacted is based on an unduplicated count of parents contacted, which is less than the sum obtained when combining the Number of Parents for Activities 1-5.

collected by program teachers on the Parent Involvement Log for each of the 305 pupils served in the program. The data indicate that a total of 355 different parents or guardians were involved in some way with the program and that program teachers made 1080 contacts with these 355 individuals. It should be noted that the total number of parents involved is not additive, as a parent could be involved in more than one activity for the year. The majority of contacts (71.8%) with parents or guardians was through individual parent conferences (775 contacts). The smallest number of contacts with parents or guardians involved planning, operating, and/or evaluating the program, with 19 contacts (1.8% of all contacts made). Table 2 also displays parent involvement data for the parents of the 162 treatment group pupils. The 162 treatment group pupils represented 53.1% of the 305 pupils served, but represented 68.7% (742) of the total number of contacts made for the year and 62.3% (221) of the individual parents involved in the program. Similar to parent involvement for all pupils served, the majority (70.1%) of the parent contacts for treatment group pupils was with individual conferences (520 contacts). The smallest number of contacts with parents or guardians of treatment group pupils also involved planning, operating, and/or evaluating the program, with 14 contacts (1.9% of all contacts made).

Program teachers also maintained records, using the Parent Involvement Log, if parents helped their child with homework and if the parents read to their child or the child read to the parents. Of the 305 pupils served, 89.5% (273) had parents who helped with homework and 93.1% (284) either read to their parents or had their parents read to them. For the 162 treatment group pupils, 93.2% (151) had parents who helped with homework and 96.3% (156) either read to their parents or had their parents read to them.

Evaluation Questions

Question 1 What were the service patterns of pupils in the Reading Recovery program?

Analysis 1.1 Number of pupils who were served.

Analysis 1.2 Number of pupils who were discontinued.

Analysis 1.3 Demographic characteristics of pupils who were served.

Analysis 1.4 Demographic characteristics of pupils who were discontinued.

The service patterns of the Reading Recovery program are reported below in the following order: the number of pupils who were served and their demographic characteristics; the number of lessons received; and the number of pupils who were discontinued and their demographic characteristics.

The 1992-93 Reading Recovery program served a total of 305 first-grade pupils in 60 schools (see Table 1, page 2). During 1991-92, 227 pupils were served in 41 schools, an increase in pupils served of approximately 34.4% (78 pupils) for school year 1992-93. This increase in pupils served resulted in part from an increase in program teachers from 13.0 FTEs to 16.5 FTEs, a 26.9% increase in teaching staff. Reading Recovery pupils received 30-minute lessons daily, for an average of 2.5 hours of instruction per week.

The demographic characteristics (gender, race, and socio-economic status) of the 305 pupils who were served in the program were analyzed from the school district's Student Master File (SMF), Pupil Information File (PIF), and November 1992 official enrollment tape. The data were based on information reported by parents and/or school personnel. Of the pupils served, 59.0% (180) were boys and 41.0% (125) were girls (see Table 3). As for the distribution by race, 37.0% (113) of the pupils served were identified as Non-Minority, 62.3% (190) were Black, and the remaining 0.7% (2) were Other Minority (see Table 4). The Other Minority category included Spanish Sumame, Asian American, and American Indian. Socio-economic status was indicated by pupil eligibility for subsidized (free or reduced price) lunch as of June 1993. Of the 305 pupils served, 83.3% (254) were on free lunch, 4.3% (13) were on reduced price lunch, and 12.5% (38) were not on subsidized lunch (see Table 5).



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Reading Recovery Pupils Percent and Number of Served by Gender 1992-93

Z	(180)	(125)	(302)
%	29.0	41.0	100.0
Gender	Boys	Girls	Total

Table 4

Recovery Pupils Served by Race Percent and Number of Reading 1992-93

(N)	(113)	(190)	(2)	(302)
%	37.0	62.3	0.7	100.0
Васе	Non-Minority	Black	Other Minority ^a	Total

a Includes Spanish Surname, Asian American, and American Indian

Percent and Number of Reading Recovery Pupils Served by Subsidized Lunch Status 1992-93

(S	(254)	(13)	(38)	(302)
%	83.3	4.3	12.5	100.0
Subsidized Lunch Status	Free	Reduced	Paying	Total

Note. Based on June 1993 data

For evaluation purposes, the pupils served in the program were divided into three categories: discontinued pupils (those who had successfully completed the program); not discontinued pupils who had received 60 or more lessons; and other pupils served (those who were not discontinued and who received fewer than 60 iessons). Of the 305 pupils served during 1992-93, 26.9% (82) were discontinued, 26.2% (80) were not discontinued but received 60 or more lessons, and 46.9% (143) were other pupils served (see Table 6). For 1991-92, program data revealed that 34.4% of pupils were discontinued, 17.2% were not discontinued but received 60 or more lessons, and 48.5% were other pupils served. The data show that the percent of pupils discontinued decreased and that the percent of pupils who received 60 or more lessons but were not discontinued increased. When looking at only treatment group pupils (those who were discontinued or had 60 lessons or more), data show that 50.6% (82 out of 162 pupils) were discontinued during 1992-93. During 1991-92, there were 117 treatment group pupils, with 78 (66.7%) being discontinued, a decrease of over 10 percent from the 1991-92 to 1992-93 school year.

Enrollment data indicate that for 1992-93, average pupil enrollment was 76.7 days, compared to average pupil enrollment of 71.1 days in 1991-92. The average pupil attendance was 66.7 days in 1992-93, compared to 62.0 days for 1991-92. The number of lessons completed by pupils ranged from none to 122, with an average of 55.2 lessons, compared to an average of 51.1 lessons in 1991-92. It was possible for a pupil to be enrolled in the program and receive no lessons. During the first 10 days of program attendance, pupils are "Roaming Around the Known." These 10 days count as days of enrollment and attendance, but not as days of lessons. During 1992-93, 10 pupils were enrolled and attended the program, but withdrew before they could begin lessons, and therefore had no lessons recorded. During 1992-93, the average number of pupils served by each teacher (16.5 FTEs) was 18.5 pupils and the average number of pupils discontinued by each teacher was 5.0 pupils, compared with 17.5 pupils served and 6.0 pupils discontinued by each teacher in 1991-92.

A continuing concern of program planners is how long to serve pupils who appear to make little or no progress after a large number of lessons. Approximately 60 lessons are considered necessary for most pupils to successfully complete the program. However, in 1992-93, the number of lessons needed by pupils to be discontinued varied greatly. For example, four pupils were discontinued with less than 40 lessons but 28 other pupils were not discontinued after 100 or more lessons. The number of lessons completed by pupils who were discontinued ranged from 13 to 118, with an average of 71.5 lessons. The number of lessons completed by pupils who were not discontinued (the two other pupil categories combined) ranged from none to 122 lessons, with an average of 49.1 lessons. Of the 139 pupils who received 60 or more lessons, 42.4% (59) were discontinued and 57.6% (80) were not discontinued. A distribution of the number of lessons completed by pupils in the three pupil categories is shown in Table 6.

An examination of the 82 pupils who were discontinued from the program revealed that 45 (54.9%) were boys and 37 (45.1%) were girls. These figures are representative of all pupils served (see Tables 3 and 7). Of the 180 boys served, 25.0% were discontinued, comparable to the 29.6% discontinued for the 125 girls served. The analysis by race indicated that 59.8% (49) of the discontinued pupils were Black, which was comparable to the percent of all pupils served who were Black (62.3%). Non-minorities made up 40.2% (33) of discontinued pupils and no Other Minority pupils were discontinued (see Tables 4 and 8). Of the 82 discontinued pupils, 74.4% (61) were on free lunch, 3.7% (3) were on reduced lunch, and 22.0% (18) were not on subsidized lunch. When comparing these figures to all pupils served, smaller percentages of discontinued pupils were on free or reduced priced lunch and a higher percentage of discontinued pupils was not on subsidized lunch (see Tables 5 and 9).

- Question 2. What were the performance levels of Reading Recovery pupils on a standardized test of reading?
 - Analysis 2.1 Number and percent of pupils reaching the 50%ile in Total Reading on the MAT6.
 - Analysis 2.2 Number and percent of pupils reaching the 37%ile in Total Reading on the MAT6.



Table 6

Percent and Number of Reading Recovery Pupils
Served by Pupil Category and Number of Lessons
1992-93

Number of Lessons	Discon Pup		Pupil Ca No Discon Pup	ot tinued	Pu	her pils ved ^c		ital pils ved
	%	(N)	 %	(N)	%	(N)	%	(N)
Fewer than 60								<u> </u>
0-9	0.0	(0)			21.7	(31)	10.2	(31)
10-19 、	3.7	(3)			20.3	(29)	10.5	(32)
20-29	3.7	(3)			14.7	(21)	7.9	(24
30-39	4.9	(4)			11.2	(16)	6.6	(20)
40-49	7.3	(6)			19.6	(28)	11.1	(34)
50-59	8.5	(7)			12.6	(18)	8.2	(25)
Subtotal	28.0	(23)			100.0	(143)	54.5	(166)
60 or More								
60-69	12.2	(10)	15.0	(12)		•	7.2	(22)
70-79	19.5	(16)	23.8	(19)			11.5	(35)
80-89	15.9	(13)	6.3	(5)			5.9	(18)
90- 9 9	12.2	(10)	20.0	(16)			8.5	(26)
100-109	7.3	(6)	17.5	(14)			6.6	(20)
110-119	4.9	(4)	16.3	(13)			5.6	(17
120-129	0.0	(0)	1.3	(1)			0.3	(1)
130-139	0.0	(0)	0.0	(0)			0.0	(0)
Subtotal	72.0	(59)	100.0	(80)			45.6	(139
rotal	100.0	(82)	100.0	(80)	100.0	(143)	100.0	(305)

^a Discontinued pupils could have any number of lessons



^b Not discontinued pupils with 60 or more lessons

^c Other pupils served with fewer than 60 lessons

le 7	
Tabl	

Reading Recovery Pupils Discontinued by Gender 1992-93 Percent and Number of

Ź	(45)	(82)
%	54.9	100.0
Gender	Boys Girls	Total

Table 8

Percent and Number of Reading Recovery Pupils Discontinued by 1992-93 Race

Race	%	2
Non-Minority	40.2	(33)
Black	59.8	(49)
Other Minoritya	0.0	(0)
Total	100.0	(82)

a Includes Spanish Surname, Asian American, and American Indian

Note. Based on June 1993 data

Table 9

Recovery Pupils Discontinued by Subsidized Lunch Status Percent and Number of Reading 1992-93

Subsidized Lunch Status	%	(Z)
rree Reduced	3.7	(9)
Paying	22.0	(18)
Total	100.0	(82)

Σ:

- Analysis 2.3 Number and percent of pupils reaching the average NCE for the district in Total Reading on the MAT6.
- Analysis 2.4 Analysis of central tendency and distribution of NCE scores of Total Reading on the MAT6.

MAT6 test scores from spring 1993 were analyzed for the 156 pupils in the evaluation sample and for certain subgroups within the evaluation sample (see Tables 10 and 11). Table 10 presents data showing the number and percent of pupils reaching the 37%ile and 50%ile in Total Reading on the MAT6 spring testing. Of the 156 pupils in the evaluation sample, 23.1% (36) reached the 37%ile on the test, with 17.9% (28) reaching the 50%ile on the test. The remaining 120 pupils (76.9%) in the evaluation sample had test scores below the 37%ile, indicating that they were still eligible for Chapter 1 program service. Those pupils who were successfully discontinued from the program reached the 37%ile and 50%ile on the test at much higher percentages than did those pupils who were not discontinued and received 60 or more lessons. Of the 80 discontinued pupils, 41.3% (33) reached the 37%ile and 33.8% (27) reached the 50%ile, but only 3.9% (3) of the 76 not discontinued pupils who received 60 or more lessons reached the 37%ile. One (1.3%) of these 76 pupils reached the 50%ile on the test.

When comparing the percents of pupils reaching the 37%ile and 50%ile in Total Reading on spring testing over the seven year period from 1987 to 1993, the data reported in Table 11 show that from the 1991-92 to 1992-93 school year there was a decrease in the percent of pupils reaching the 37%ile (51,4% to 23.1%) and a decrease in the percent of pupils reaching the 50%ile (35.1% to 17.9%). The data also indicate that when the test was changed from the CTBS, 1981, to the MAT6, 1985, beginning with the 1988-89 school year, test scores dropped. The decrease, in part, resulted from the MAT6, 1985, being considered to be a more difficult test than the CTBS, 1981. Research indicates that tests normed in 1985 would be more difficult than those normed in 1981 because reading scores nationwide rose over the period from 1981-1985. Another possible explanation for the dramatic decrease in 1988-89 may be attributed to the inappropriateness of the pretest level of the MAT6, 1985, administered at that time. The MAT6 results may not have reflected true pupil performance during 1988-89. The pretest level was found to be too difficult for low-achieving pupils, while the posttest level was found to be too easy for the average and above-average pupils. More appropriate pretest and posttest levels were administered in 1989-90 and thereafter. The increases in the percents of pupils reaching the 37%ile and 50%ile in Total Reading during 1990-91 and 1991-92 can, in part, be attributed to the selection process for pupils into the program. Prior to 1990-91, pupils scoring the lowest on the selection test were served by the Reading Recovery program. But in 1990-91, with the establishment of the Early Literacy program, the lowest pupils were served in Early Literacy and not Reading Recovery. Also, many pupils entered the Reading Recovery program after having been served in the Early Literacy program, resulting in pupils entering the Reading Recovery program with higher reading skills and strategies. But again in 1992-93, the lowest pupils were served in Reading Recovery and not Early Literacy. This, in part, may attribute to the decrease in the percents of pupils reaching the 37%ile and 50%ile in Total Reading from the 1991-92 school year to the 1992-93 school year.

The data derived from Analysis 2.3, relating to the number and percent of pupils reaching the average NCE for the district in Total Reading on the MAT6, show that of the 156 pupils in the evaluation sample, 34 (21.8%) reached the average NCE (45.6 NCEs) for the district in Total Reading. Of the 80 pupils in the evaluation sample who were successfully discontinued, 32 (40.0%) reached the district average, while only two (2.6%) of the evaluation sample pupils who were not discontinued and received 60 or more lessons (76) reached the district average NCE for the posttest.

For analysis 2.4 the Shapiro-Wilk W Test was run to determine whether or not the distribution of the Total Reading scores were relatively normal. Results indicated the distribution of 156 scores did differ significantly from a normal distribution, suggesting that the scores were not normally distributed at



Table 10
Percent and Number of Evaluation Sample Pupils
Reaching 37%ile and 50%ile on MAT6
Total Reading by Pupil Category
1992-93

			Total R	eading	
Pupil		37%	ile	50%	ile
Category	N.	%	(N)	%	(N)
Discontinued	80	41.3	33	33.8	27
Not Discontinued and					
60 or More Lessons	76	3. 9	3	1.3	1
Total Sample	156	23.1	36	17.9	28

Table 11
Percent and Number of Evaluation Sample Pupils
Reaching 37%ile and 50%ile on MAT6
Total Reading by Year
1987-93

				Total R	eading	
School			37%	ile	50%	ile
<u>Year</u>	И	Test	%	(N)	%	(N)
19 8 6-87	189	CTBS, 1981	38.6	73	18.5	35
1987-88	253	CTBS, 1981	33.2	84	15.0	38
1988-89	104	MAT6, 1985	22.1	23	11.5	12
1989-90	184	MAT6, 1985	22.8	42	15.2	28
1990-91	139	MAT6, 1985	37.4	52	23.7	33
1991-92	111	MAT6, 1985	51.4	57	35.1	39
19 92 -93	156	MAT6, 1985	23.1	36	17.9	28

posttesting. Further examination of the data revealed that the distribution was slightly different from a normal distribution; however, the mean was not substantially higher than the median and no significant number of students scored below the guess level. Thus, the Shapiro-Wilk W Test, a very powerful test (Shapiro, Wilk, and Chen, 1968) when testing for departures from normality, indicates there were departures from normality, however, the additional analyses reveal that these departures are not great enough for concern.

Questi: 13 What were the long-term effects of the Reading Recovery program?

- Analysis 3.1 Number and percent of pupils in the 1990-91 and 1991-92 Reading Recovery treatment groups who in 1992-93 attended a school where a compensatory program was available and who were served by a compensatory program.
- Analysis 3.2 Number and percent of pupils in the 1990-91, 1991-92, and 1992-93 Reading Recovery treatment groups who followed a normal grade level progression.

Analysis 3.1 and 3.2 were conducted from available follow-up data for pupils who were in the 1990-91, 1991-92, and 1992-93 treatment groups. The original 1990-91 treatment group was comprised of 154 pupils, the 1991-92 treatment group was comprised of 117 pupils, and the 1992-93 treatment group was comprised of 162 pupils. The number of pupils included in the analyses for Question 3 varied due, in part, to pupil mobility, the timing of data collection, and different restrictions inherent in the various analyses.

Table 12 contains a summary of results for Analysis 3.1, the study of the 1990-91 and 1991-92 Reading Recovery treatment group pupils who were served by a compensatory program in 1992-93. The analysis included three compensatory programs: the Chapter 1 Reading program, the Early Literacy program, and the Reading Recovery program. Pupils who were on a waiting list to be served by a compensatory education program were not included in Analysis 3.1. The criterion scores used to establish eligibility for program service varied from program to program. Availability of service depended on the number of pupils qualifying for service at a particular building and the number of compensatory education teachers assigned to that building.

Of the 154 pupils in the 1990-91 Reading Recovery treatment group, 132 pupils were in a school and at a grade level where a compensatory program was in operation during the 1992-93 school year (see Table 12). Of these 132 pupils, 36.4% (48) were served in a compensatory program. By grade level, 80.0% (12) of the 15 pupils in grade 2 were served, compared to 30.8% (36) of the 117 pupils in grade 3. For the 1990-91 treatment group, the percent of discontinued and not discontinued pupils served by a compensatory program varied. In grade 2, 50.0% (3) of the 6 discontinued pupils were served in a compensatory program compared to 100.0% (9) of the 9 not discontinued pupils. In grade 3, 26.5% (26) of the 98 discontinued pupils were served in a compensatory program compared to 52.6% (10) of the 19 not discontinued pupils. Overall, 27.9% (29) of the 104 discontinued pupils in grades 2 and 3 were served in a compensatory program in 1991-92, two years after they completed the Reading Recovery program.

Of the 117 pupils in the 1991-92 Reading Recovery treatment group, 116 pupils were in a school and at a grade level where a compensatory program was in operation during the 1992-93 school year (see Table 12). Of these 116 pupils, 31.0% (36) were served in a compensatory education program. By grade level, one (50.0%) of the 2 pupils in grade 1 was served, compared to 30.7% (35) of the 114 pupils in grade 2. In grade 2, 15.6% (12) of the 77 discontinued pupils were served compared to 62.2% (23) of the 37 not discontinued pupils.

Table 13 summarizes results for Analysis 3.2, the distributions of pupils in the 1990-91, 1991-92, and 1992-93 Reading Recovery treatment groups who followed a normal grade-level progression. Only pupils who were enrolled in the Columbus Public Schools during the month of November in all of their follow-up years (1991, 1992, and/or 1993) were included in the analysis. The numbers of pupils included from the



Table 12

Percent and Number of Pupils in the 1990-91 and 1991-92 Reading Recovery Treatment Groups by Compensatory Education Program Status in 1992-93

1990-91	-91	No	Not In	Compensatory Education Program Status In	IION Progra	m Status	
atmer	Treatment Group	Comp. Ed	. Ed	Comp Ed	Ed.	Total	lal
	Pupil Category	%	(N)	%	2	%	<u>N</u>
	Discontinued	50.0	(3)	50.0	(3)	100.0	(9)
Z	Not Discontinued	0 0	(0)	100 0	(6)	100.0	(6)
	Subtotal	20 ()	(3)	80 0	(12)	100.0	(15)
	Discontinued	73.5	(72)	26 5	(52)	100.0	(86)
2	Not Discontinued	47.4	(6)	526	(10)	100.0	(19)
	Subtotal	69.2	(81)	30.8	(36)	100.0	(117)
	Total	63.6	(84)	36.4	(48)	100.0	(132)

Table 12 (continued)

Percent and Number of Pupils in the 1990-91 and 1991-92 Reading Recovery Treatment Groups by Compensatory Education Program Status in 1992-93

' '	
0.0	ő
50.0	50.0
50.0	50.0
84.4	84.4
37.8	37.8
69.3	69.3
0.69	69.0

Note. Pupils served from September 21, 1992 through the end of the school year were included in the "In were included in the "Not in Comp. Ed." category. Table excludes pupils in school/grade Comp. Ed. Program" category. Compensatory programs included the Chapter 1 Reading program, the Early Literacy program, and the Reading Recovery program. Pupils on a waiting list to be served combinations where compensatory education programs were not offered. ن ت

Table 13

Percent and Number of Pupils in the 1990-91, 1991-92, and 1992-93
Reading Recovery Treatment Groups by Grade-Level
Progression Through November 1993

	(Grade-Level	Progression			
	Not N	ormal	Nor	mal	To	tal
Treatment Group	%	(N)	%	(N)	%	(N)
1990-91					·	
Discontinued Not Discontinued Subtotal	9.7 43.8 16.4	(9) (10) (19)	90.3 56.5 83.6	(84) (13) (97)	100.0 100.0 100.0	(93) (23) (116)
1991-92						
Discontinued Not Discontinued Subtotal	0.0 11.4 3.8	(0) (4) (4)	100.0 88.6 96.2	(69) (31) (100)	100.0 100.0 100.0	(69 (35 (104
1992-93						
Discontinued Not Discontinued Subtotal	1.3 15.5 8.1	(1) (11) (12)	98.7 84.5 91.9	(76) (60) (136)	100.0 100.0 100.0	(77) (71) (148)
Total				_		
Discontinued Not Discontinued Subtotal	4.2 19.4 9.5	(10) (25) (35)	95.8 80.6 90.5	(229) (104) (333)	100.0 100.0 100.0	(239 (129 (368

Note. The 1990-91 treatment group was followed for 3 years (normal progression into grade 4), the 1991-92 treatment group for 2 years (normal progression into grade 3), and the 1992-93 treatment group for 1 year (normal progression into grade 2). Only pupils enrolled in the Columbus Public Schools during November in each of their follow-up years were included in the analysis.



three treatment groups were: 116 pupils (75.3%) from the 1990-91 treatment group, 104 pupils (88.9%) from the 1991-92 treatment group, and 148 pupils (91.4%) from the 1992-93 treatment group, for a combined total of 368 pupils (85.0%) from the three treatment groups.

The percentages of pupils who followed a normal grade-level progression were as follows: 83.6% (97) of the 116 pupils from the 1990-91 treatment group followed a normal grade-level progression into the fourth grade; 96.2% (100) of the 104 pupils from the 1991-92 treatment group followed & normal progression into the third grade; and 91.9% (136) of the 148 pupils from the 1992-93 treatment group followed a normal grade-level progression into the second grade in 1993-94. Overall, 90.5% (333) of the 368 pupils in the analysis followed a normal grade-level progression and 9.5% (35) did not.

In each of the three treatment groups a greater percentage of discontinued pupils than not discontinued pupils followed the normal progression. For discontinued pupils, the percentages who followed the normal progression ranged from 90.3% for the 1990-91 treatment group pupils to 100.0% for the 1991-92 treatment group pupils. For not discontinued pupils the percentages who followed a normal progression ranged from 56.5% for the 1990-91 treatment group pupils to 88.6% for the 1991-92 treatment group pupils.

Over the three year period 1990-91, 1991-92, 1992-93, data indicated that the percentage of treatment group pupils retained in grade 1 had decreased then increased. For 1990-91, data were available for 145 pupils and showed 4.1% (6) of those served in 1990-91 had been retained in grade 1. In 1991-92, 1.8% (2) of the 113 treatment group pupils were retained in grade 1. For 1992-93, 8.1% (13) of the 160 pupils with follow-up data were retained in grade 1, while 5.0% of the 418 pupils in the three groups combined had been retained in grade 1.

Summary/Recommendations

In 1992-93 the Reading Recovery program was located in 60 elementary schools and had a staff of 66 teachers (16.5 FTEs). For evaluation purposes, the program started on September 21, 1992 and continued through May 14, 1993. The program served a total of 305 underachieving first-grade pupils who appeared unlikely to read successfully without intensive instruction. These 305 pupils were enrolled in the program for an average of 76.7 days, attended the program an average of 66.7 days, and received an average of 55.2 lessons. The number of lessons received ranged from none to 122.

Records of parent contacts and activities maintained by program teacher for the 305 pupils served indicated 355 different parents or guardians were involved in some way with the program. These 355 individuals made a total of 1080 contacts with program teachers. The 162 treatment group pupils represented 53.1% of the 305 pupils served, but represented 68.7% (742) of the total number of contacts and 62.3% (221) of the individual parents involved in the program.

Pupils were discontinued from the program based on scores on diagnostic measures indicating that they were reading at the level of their classroom and based on teacher judgment that the pupils had developed effective reading strategies. Of the 305 pupils served, 26.9% (82) were discontinued, 26.2% (80) received 60 or more lessons but were not discontinued, and 46.9% (143) were not discontinued and received less than 60 lessons. Of the 139 pupils who received 60 or more lessons, 42.4% (59) were discontinued.

The treatment group consisted of the 162 pupils who were either discontinued (82) or received 60 or more lessons but not discontinued (80). The evaluation sample consisted of the 156 pupils who were discontinued or had 60 or more lessons, were English-speaking, and had received a valid Total Reading score on the MAT6 spring test. The two desired outcomes for the 1992-93 Reading Recovery program



were met. Of the 162 pupils in the treatment group, retention data was available for 160 pupils. Of these 160 pupils, 147 (91.9%) were not retained (criterion was 75.0%). Of the 162 treatment group pupils, 149 (92.0%) read five or more books at text reading level 8 or above (criterion was 50,0%).

Thirty-four (21.8%) of the evaluation sample pupils reached the average NCE (45.6) for the district as a whole. The percentages of pupils who were at various percentile levels on the spring test were as follows: (a) 17.9% (28) were at the 50%ile or above (grade level); and (b) 76.9% (120) were below the 37%ile and still eligible for Chapter 1 services.

Analyses of the long-term effects of Reading Recovery produced the following results. Of the former Reading Recovery pupils who were in a school and at a grade level where a compensatory education program was in operation in 1992-93, 36.4% (48) of the pupils from the 1990-91 treatment group and 31.0% (36) of the pupils from the 1991-92 treatment group were served in a compensatory program.

Of the 368 pupils from the combined 1990-91, 1991-92, and 1992-93 treatment groups who remained in Columbus Public Schools through November 1993, 90.5% (333) followed a normal grade-level progression. The retention rates for grade 1 were: 4.1% for the 1990-91 treatment group, 1.8% for the 1991-92 treatment group, 8.1% for the 1992-93 treatment group, and 5.0% for the three treatment groups combined.

The Reading Recovery program has been continued during the 1993-94 school year, and it is recommended that it continue. With that in mind, the following recommendations are presented:

- 1. The process by which pupils are discontinued from the program needs to be re-examined. Pupils are to be discontinued from the program when they reach the average reading ability of their classroom. Often times program teachers keep pupils in the program too long after they have reached the average level of ability for their classroom. If pupils are kept too long in the program, other pupils may be denied service.
- 2. Efforts should continue for exploring ways to minimize the amount of time needed to collect data on pupils served. Much teacher frustration exists because of the volume of record keeping required for the program. Teachers maintain records for both Columbus Public Schools and The Ohlo State University College of Education. If both institutions used the same set of data, reporting by both institutions would be consistent and the amount of paperwork required of teachers reduced.
- 3. As increased parent involvement is regarded as one of the indicators of effective schools, every effort must be undertaken to promote parental involvement in the program, especially in the areas of planning, operation, and evaluation.
- 4. The earliest possible identification of pupils needing special education instruction should be emphasized. Pupils with special needs can be better served by teachers with expertise in specific special education areas. Reading Recovery is not a special education program. If pupils with special education are not identified early, they remain in the Reading Recovery program too long, creating frustration for both pupils and teachers.
- 5. The whole language instructional strategies and techniques used by program teachers need to be shared with and enhanced by the regular classroom teacher. The instruction provided by the program teacher and by the regular classroom teacher must complement each other. The academic achievement of pupils will suffer if they receive mixed messages in their reading and writing instruction. Opportunities must be made available for program teachers and regular classroom teachers to develop a consistent whole language based approach to instruction.



- 6. Inservice meetings should be continued to provide program teachers the opportunity to enhance their instructional intervention skills, to share instructional ideas with one another, and to clarify any concerns or misconceptions they may have about the total Reading Recovery program.
- 7. An on-going process of site visitations by the program evaluator needs to be continued. These visits provide invaluable information for the program evaluator in the areas of content and instruction and provide program teachers the opportunity to clarify questions they may have about evaluation requirements and record keeping. These visitations also help build a rapport between the program teacher and program evaluator.



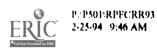
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Appendix A

Concepts About Print and Dictation



/24

•		CONCEPTS ABOUT PR
Date: _		Stones: Sa
School N	Name:	
Classroo	om Teacher:	·
·Use the	script when	n administering this test.
	SCORE	ITEM
Cover		1. Front of book
2/3		2. Print contains message
4/5		3. Where to start 4. Which way to go 5. Return sweep to left 6. Word by word matching
6		7. First and last concept
7		8. Bottom of picture
8/9		9. Begin 'The' (Sand) or 'l' (Stones) bottom line, top OR turn book
10/11		10. Line order altered
12/13		11. Left page before right 12. One change in word order 13. One change in letter order
14/15		14. One change in letter order 15. Meaning of?

16. Meaning of period/full stop

18. Meaning of quotation marks 19. Locate M m H h (Sand) OR

20. Reversible words (was, no)

17. Meaning of comma

Tt Bb (Stones)

21. One letter: two letters22. One word: two words23. First & last letter of word

24. Capital letter

Directions

Place the pupil's ID label on the back of the form.
If there is no ID label for a pupil, please provide
student number, birthdate, student's legal name
(last, first, MI), grade, and school code in the
space provided.

TEST SCORE

- 2. Put an X in the blank next to the form of the test the student took (either Stones or Sand).
- 3. In the score column, place a 1 (one) beside each correct item. If the item was incorrect, place a 0 (zero) in the column.
- 4. Record the total number of items correct in the test score box.
- 5. Turn this form over and enter data from the Dictation test.



16/17

18/19

Date):													_						TE	STS	CO	RE	ŀ				
Scho	ool N	ame	: _				_							_											/37			
Clas	sroo	m Te	aci	ner:		-								_										<u> </u>		ĵ		
	- —	-			_	.		-	_	_		-		_		-	_	-	_			_		_	.	_	_	
1	e 2	3	3	u s 4 5		6	S 7		с 8	9	m 1	1	n 1	1 3	1 1	1 1 5	w 1 6	1 7	1 1 8	ı	s 1 9	2	2	р 2 2		e 2 4		е
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-	<u> </u>	1	<u>е</u>	-		- -		_	<u>е</u>	- <u>t</u>	-	-	<u>n</u> .															
2 6	2 7	2 8	2 9	3 0	3 1	3 2		3 3	3 4	3	}	3 6	3 7															

Directions

- 1. Be certain you have completed the required information at the bottom of the form or placed an ID label on the form.
- 2. Follow the directions for administering and scoring the Dictation test.
- 3. In the blank above each phoneme, place a 1 (one) if the pupil responded correctly. If the phoneme was incorrect, place a 0 (zero) in the blank. If the phoneme was not attempted, do not mark anything on the line.
- 4. Record the total number of correct phonemes in the test score box.
- 5. Return this form to your program evaluator at the Department of Program Evaluation, 52 Starling Street. Keep a copy in your files.

,	PLACE LABEL HERE	
STUDENT NO	BIRTHDA	M M D D Y Y
NAMEI	LAST	FIRST MI
GRADE	SCHOOL CODE	



Appendix B

Selection Score Matrix



GRADE 1 DIAGNOSTIC TEST SCORING MATRIX TO DETERMINE PUPIL'S SELECTION SCORE

...24

	17	ထ္ထ	20	09	62	ß	2	65	99	29	69	2	71	22	೮	74													
	9	æ	20	8	62	B	2	65	99	67	60	2	7	72	23	7	92												
	9	တ္ထ	22	88	8	8	61	ස	2	65	99	29	88	2	7	72	23	74	9/										
	41	ಔ	¥	22	23	85	20	9	61	B	2	92	99	67	8	2	7	75	23	74	75					•			
	ᄄ	51	25	53	Z	22	23	88	20	8	61	62	2	65	99	67	88	8	7	72	23	74							
	27	48	49	5	25	23	R	22	26	88	23	9	61	62	63	65	99	67	89	69	7	72	73	74					
	Ħ	46	47	48	49	20	52	53	5	55	26	88	8	9	6	62	8	65	99	6 4	88	69	20	72	73	74			
PRINT	위	&	45	46	47	48	49	သ	52	ಜ	32	22	26	22	23	9	61	62	63	B	99	6 4	89	69	2	72			
OUT F	g)	4	42	43	4	46	47	48	49	22	51	ಜ	¥	55	8	24	8	9	6	62	ß	2	99	6 4	88	69			
CONCEPTS ABOUT	8	æ	40	4	42	43	44	45	47	48	49	22	5	53	72	55	26	27	88	9	61	62	83	8	65	29			
NCEP	7	36	37	88	6	4	42	£	44	45	47	8	49	ည	5	55	Z	55	26	22	88	20	61	62	8	8			
3	9	8	35	36	37	38	39	4	42	43	4	45	46	48	49	200	5	52	R	55	26	27	88	29	61	62			
	2	<u>ب</u>	32	33	32	38	37	38	36	4	42	43	4	45	46	48	49	20	51	52	53	55	56	27	82	29			
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	co	8	27	8	8	8 8	32	8	34	38	37	88	8	8 6	4	43	4	54	46	47	49	22	51	25	53	24			
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NOTE: Pupils with a Selection Score not included on this matrix will not qualify for Chapter 1 program.



P.U501K 111AP193

Appendix C

Teacher Census Form



Teacher Census Form 1992-93

	Social Security Number	
Name	(Legal Name for Mailing Labels)	
School As:	signment	Cost Center
Your Progr	ram Coordinator/Teacher Leader	
List all Cha	apter 1/DPPF programs you are involved	with:
	<u>Program</u>	Program Code
1		
3		
4		
	Full-Time Employee	
	or	 (check one)
	Part-Time Employee	
	Number of Deading December and	ne nordev
	Number of Reading Recovery section	· · · — —
	Number of Early Literacy -Gr. 1 grou	ps per day
	Number of Early Literacy -Gr. 2 grou	ps per day



Appendix D

Calendar Worksheet/Parent Involvement Log



CALENDAR WORKSHEET FOR COMPUTING DAYS OF PUPIL SERVICE 1992-93

1992-93 Reading Recovery

Student Legal Name	1 261				Firet		i								ŧ	N Description						İ
Student Birthdate M M M	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	i≻ I≻				} :		se keep leave). hoofs.	original Do not	Please keep original worksheets for all pupils (even for who leave). Do not send to program coordinator or to Rechools.	program	Pupil n coordi	s (even	2 c	<u> </u>	Program Code School	63 •80	(A)	OI 41			
Student Number	[!			•			-	Grade	Grade Level	0 1				S .	School Code	 - 8	1	1			
Race Code (1-5)	Sex ((M or F)	l:c					Se	lection	Selection Score	j	1									SUB-TOT	2
1902.63		_	>	 	-	Z		>	≠	_	3	F	3	H	=	- ₹	=	-	표	111	Scheduled (1,2,3,9)	<u> </u>
Aug. 31 - Sept. 25	≥ .	Ц		\sqcup	\coprod	\coprod	•	Щ	\sqcup	=	₹ ,	15	9 (٤,	9,	2	ង	R	2	82		
Sept. 26 · Ool. 23	8	8	8		-	2		╄	╄	∔_	, c	, E	, =	92	E c	2	8	~	8	8		╁
Oct. 86 - Nov. 80	8	27	7 28	8	8	2	6	-	•	°	•	2	=	2	5	=	=	=	2	20		╀
Nov. 23 · Dec. 18	R	22	25	\coprod	Z o	8		~	<u></u>	-	_	•	۰	2	=	=	=	2	2	=		╁
Jan. 4 - Jan. 20 Max. echtl. denn=19)	-		80			=	2	5	=	=	Ξ 0	2	8	ā	8	2	2	22	8	2		╁
Peb. 1 - Feb. 26 Max. achdl (fere=19)	-		2	6		9	•	2	=	~	=	9	=	=	0.	2	2	ž	2	2		╁
Mer. 1 - Mer. 26 Mer. school deve=20)	-	_	8	6	4	9		2	=	2	=	=	=	=	=	=	æ	Z	22	2		_
Mer. 20 - Apr. 23	8	 _	96	_	-	2	-			z o	z o	z °	z o	z o	Z ∘	=	2	ā	a	8		!
Apr. 26 - May 21 Max. scholl days=15)	8	<u> </u>	27 28	<u> </u>	8	9		5	•	₽	2	=	2	↓ _	2	20	= 0	20	80	~ o		╅
May 24 - June 18 (No scheduled days)	20		25 0		27 28	T 0	-0	0	60	70	٥ م	• 0	0	20	Œ o	70	20	9 0	$oxed{+}$	₽.		
		1	ł	-	ł	1										\$ \$ \$	(Maximum Schedu (Maximum Served TOTAL LE89	(Maximum Scheduled = 148) (Maximum Served = 148) TOTAL LESSONS	- 8 - 45 - 45 - 45		TO Scheduled	T T T
SERVICE CODES:						_	RACE/ETHNIC CODES:	THINGS	CODES									F				1
0 = Pupil Not Scheduled (Inservice, Teacher Illness, Personal Day, Grow Day, Parent Conference Day, etc.) 1 = Pupil Scheduled and Not Served (Absent from School/Clase) 2 = Pupil Served - Cing Lescon 3 = Pupil Served - Ting Lescon 9 = Pupil Rosming in the Known	Bervice, Te Day, Paren It Served Cleas) Ion Ion Ione	nt Coni	Iliness, ference i	Day, et	(;	- 0 C 4 R	1 = Non Minority 2 = Black 3 = Spanish Sumame 4 = Asian American 5 = American Indian	nority h Suma kmerica an India	• E = 9					Date Transferred to Early Literacy 1 M M D D ママ	Literac Literac	red licy 1 ∀ ₹	1]	_		Date Disco	
P:\F602CALENDWS 8-19-92			V						i											-		

BEST COPY AVAILABLE

REVISED 02/18/93

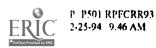
ESEA - Chapter 1 Parent Involvement Log 1992-93

Program Code Parent Name		Nam	e of Pupil	Grade Phone Number	
		Add	7055		
THE C	OLLECTION O	F PARENT INVOLVE	MENT DATA IS REQUIRED	BY CHAPTER 1	
ease check if	the following tv	vo activities occurred fo	or this pupil anytime this year	<i>.</i>	
		siped child with homew ad to child or child rea			
DIRECTIONS:	Please indicate in the fields below the date, activity, name of parent/guardian, and (I lours) you spent with the parent(s). ROUND HOURS TO THE NEAREST Obviously, you may keep expanded notes about activities somewhere else.				
	Date MMDDYY	Activity* (1-5)	<u>Attendee(s)</u> Parent/Guardian	- <u>Hours</u> - 00.0	
-			-		
-					
-					
-					
-					
-					
-					
-					
-					
-					
					
-					

(1) Involved in planning (do not include advisory council)
(2) Group meetings (do not include advisory council)
(3) Individual conferences (telephone conferences included)
(4) Parental classroom visits
(5) Home visits

Appendix E

Pupil Data Sheet



SHEET

PUPIL DATA SHEET

SCHOOL CODE PROG	RAM CODE 9 3 3 0 4	SSN	
SCHOOL NAME PROG	RAM NAME	TEACHER NA	AME
1. STUDENT NAME			first ' m
2. STUDENT NO	_ GRADE _ BIRTH		
3. AVERAGE HOURS PER WEEK	OF INSTRUCTION		
4. PUPIL PROGRESS		NONE	SOME MUCH
5. IS THIS PUPIL ENGLISH	SPEAKING?	NO	YES
6. WAS THIS PUPIL DISCONT (CAREFULLY READ GUIDEL		NO	YES
7. PARENT HELPED WITH HON	NEWORK?	NO	YES
8. PARENT READS TO CHILD TO PARENT? .	OR CHILD READS	NO	YES
FOR NUMBERS 9-13, FILL IN IN EACH ACTIVITY DURING TH	THE NUMBER OF THIS PL HE YEAR AND TOTAL NUMB	JPIL'S PARI SER OF CON	ENTS INVOLVED
	NO. OF PARENTS	OTAL NO.	OF CONTACTS
9. PLANNING	•		
10. GROUP MEETINGS	5 1		
11. INDIVIDUAL CONFERENCES	5		
12. CLASSROOM VISITS	\$		
13. HOME VISITS	5		
	THRU 05-	-14-93	
14. NUMBER OF DAYS SERVICE (CAREFULLY READ INSTRU			
15. NUMBER OF DAYS SERVICE (CAREFULLY READ INSTRU			
16 WHILE IN YOUR CLASS, Text Reading Level Gre	tne Number of Books Re Bater than 7	ed at	<u> </u>
17. NUMBER OF LESSONS THRU	J 05-14-93		
	1	Λ	

