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ABSTRACT

In 1988, a follow-up study was conducted to describe and evaluate the academic progress of students who had been the subjects of fall 1986 and fall 1987 Learning Assessment Retention Consortium (LARC) student outcomes studies. The study samples included 2,012 students who had completed a remedial writing course at one of 10 participating California community colleges in fall 1986 and 1,581 students who had completed a remedial reading course at one of 17 participating colleges in fall 1987. To conduct the study, information was collected from college records, and 483 students were interviewed over the telephone. Major findings of the study included the following: (1) 85% of the former writing students and 82% of the former reading students persisted at least one semester after the outcomes studies took place; (2) there were substantial differences in semester-to-semester persistence rates among ethnic groups and between students who were successful in the initial remedial course of study and those who were not successful; (4) 45% of the fall 1986 remedial writing students had completed freshman composition by the end of the spring 1988 semester; (5) 20% of the fall 1987 remedial reading students were still enrolled in remedial reading courses in fall 1988; (6) about half of the sample consistently had grade point averages (GPA's) between 2.0 and 2.9, more than one-quarter had GPA's over 2.9, and almost one-quarter had GPA's below 2.0; (7) of the students who had departed the participating community college and who were interviewed, the majority had not re-enrolled at a community or four-year college; and (8) 74% of the former remedial reading students responded in an interview that they were reading more now or finding reading more enjoyable as a result of their class. Appendixes provide data collection instruments, college tables, a chronology of the study, and a background and description of LARC. (Author/JMC)



LARC



Fall 1988 Follow-up Study of Students Enrolled in Remedial Writing Courses in Fall 1986 and Remedial Reading Courses in Fall 1987

Learning Assessment Retention Consortium

Student Outcomes Study

Year 3 - - luly 1989

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LEARNING ASSESSMENT RETENTION CONSORTIUM

Student Outcomes Study



Fall 1988 Follow-up Study of Students Enrolled in Remedial Writing Courses in Fall 1986 and Remedial Reading Courses in Fall 1987

> Julie Slark August 1989



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College

Reading Study

Antelope Valley College

Butte College Cabrillo Coiiege Cerritos College

College of the Desert

College of the Redwoods

Compton College
Fullerton College
Gavilan College
Lake Tahoe College

Merced College Mendocino College

Mt. San Antonio College Rancho Santiago College San Joaquin Delta College Santa Rosa Junior College

Solano College

Writing Study

Solano College

Butte College
Canada College
College of the Desert
College of San Mateo
Gavilan College
Golden West College
Long Beach City College
Rio Hondo College
Skyline College

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Executive Summary

The purpose of this follow-up study was to describe and evaluate the academic progress of students who had been studied in the Fall 1986 and Fall 1987 LARC Student Outcomes Studies. The follow-up samples included 2012 students who had completed a remedial writing course at one of ten participating California community colleges in Fall 1986, and 1581 students who completed a remedial reading course at one of 17 participating colleges in Fall 1987. To conduct the study, information was collected from college records, and 483 students were interviewed over the telephone. The findings include:

- 85% of the former writing students and 82% of the former reading students
 persisted for at least one semester beyond the semester during which the
 outcomes studies took place. These are high semester-to-semester
 persistence rates.
- There are substantial differences in semester-to-semester persistence researming ethnic groups and between students who were successful (A,B,C,CR grade) in the initial remedial course of study and those who were not successful. Students who had been enrolled in the lowest levels of remediation persist in college at the same rates as those in higher levels.
- 45% of the Fall 1986 remedial writing students had completed freshman composition by the end of the Spring 1988 semester. This is the most appropriate and accessible success measure for these students, and this rate represents satisfactory progress for a large number of formerly remedial students. 40% of the students who had been enrolled in a writing course three levels below freshman composition in Fall 1986 went on to complete freshman composition.
- 20% of the Fall 1987 remedial reading students were still enrolled in remedial reading courses in Fall 1988.
- The students enrolled in increasingly larger proportions of college-level courses in subsequent semesters, demonstrating appropriate academic p.ogress.



- While about half of the sample students consistently had gpa's between 2.0 and 2.9 and more than a quarter had gpa's over 2.9, almost a quarter had gpa's below 2.0. Data is not available with which to compare this distribution to other groups of students, however.
- Of the students who had departed the participating community college and who were interviewed, the majority had not re-enrolled at a community or four-year college. 23% of the departed writing student respondent sample who had initially declared "transfer" as a goal, were attending a four-year college, however.
- 74% of the former remedial reading students responded in an interview that they were "reading more now or finding reading more enjoyable" as a result of their class.

In conclusion, these results show that most students who have been enrolled in remedial courses persist in college, progress academically, and achieve their educational goals. Thus, remedial programs appear to be appropriately preparing students for college-level work.

The students who had been enrolled in remedial reading courses did not demonstrate as high levels of success as did writing students. And finally, differences in persistence and performance rates among ethnic groups exist and should be further studied and addressed.



Introduction

The series of LARC (Learning Assessment Retention Consortium) Student Outcomes Studies began in Fall 1986 with the study of 7800 students enrolled in remedial writing courses in 29 California community colleges. In Fall 1987, the study continued with a focus on remedial reading courses (including 3500 students at 28 California community colleges), and currently and finally the study is taking place in math programs. For those studies, three student outcomes criteria were identified and evaluated: retention, skills acquisition, and student goal satisfaction. Other related research and publications have also been completed, including studies of the writing and reading curriculum, policy papers, and one follow-up study of the Fall 1986 remedial writing student sample.

This report represents a follow-up study of the Fall 1986 students who were enrolled in remedial writing and the Fall 1987 students who were enrolled in remedial reading. This study took place in Fall 1988; hence, it reflects the two years of educational activities of the writing students since their enrollment in the initial Fall 1986 remedial course and one such year for the former remedial reading students.

While the original reports included valuable, comprehensive, and positive student outcomes information, it was necessary to monitor the academic performance of the students in the original samples for a longer period of time in order to more completely evaluate student outcomes of remedial students. The purpose of this follow-up effort, then, was to evaluate the progress of community college students after they had completed some remedial coursework and to determine if the formerly remedial students were indeed advancing successfully in college-level work.



Method

All of the colleges who participated in the original writing and reading outcomes studies were invited during Spring 1988 to participate in this Fall 1988 follow-up activity, and they were informed that they would be compensated a nominal amount for each original study sample student for whom they submitted follow-up records and interview information. Ten of the 29 Year 1/Writing colleges and 17 of the 28 Year 2/Reading colleges participated in this follow-up.

The Rancho Santiago Research Center again coordinated the research and processed all of the data. The LARC Executive Committee served as the Advisory Committee to the study, which was funded by the California Community Colleges' Fund for Instructional Improvement.

Colleges were asked to collect and submit academic performance and retention data from college records for students in the original samples who had completed the <u>original remedial course</u>. Table 1 lists the colleges participating in the follow-up and displays their response rates, 95% representing 2,012 students for the writing study colleges and 97% representing 1,581 students for the reading study colleges.

Participating college representatives were additionally asked to telephone interview students from the sample who were no longer enrolled at their college during Fall 1988. The major purpose of the interviews was to determine whether the students had enrolled at another college. Because it was not known in early Fall 1988 whether project funding would be adequately augmented to compensate colleges for



interviewing, only three of the ten writing follow-up study colleges and ten of the reading follow-up study colleges interviewed students. The response rates for the interviews were 26% (n=236) and 46% (n=247) respectively for former writing and reading students. (Refer to the original study reports for a description of the student samples.)

There are two parts to the "Findings" chapter of this report, one describing the retention and academic performance of students, and the second describing responses from the interviews of the students who had left the original study college after completing the initial remedial course.

All data and report tables are available for individual participating colleges in Appendix B. Colleges are not identified by name, however.



Findings

Part 1

Retention

Table 2 and Graph 1 show that 85% of the writing follow-up study students and 82% of the reading follow-up study students persisted for at least one additional semester after completing the initial remedial course. The persistence rates dropped the greatest amounts from that first semester of persistence to the second semester: to 59% for writing study students and to 61% for reading study students. The persistence rate for writing study students into their fourth semester after the initial study semester (Fall 1986) was 44%.

There is very little consistent difference among semester-to-semester persistence rates for students who were enrolled in different levels of remediation during the initial study semester. It is encouraging to learn that those who had been enrolled in the lower levels of remedial coursework do not appear to drop out of college at higher rates. Ideally, their persistence rates would be higher than those who were enrolled in less remedial courses, assuming that they were not as academically advanced and, thus, required more community college work before completing their college work or transferring to a four-year college. Nonetheless, these semester-to-semester persistence rates for all groups studied remain higher than the average rate found in other studies for all students. The high rates suggest that students who receive needed basic skills education more often persist in college.



Another analysis (Table 2A) of semester-to-semester persistence rates was conducted which isolated students who had declared a transfer-related goal and who were in their first semester of college during the first semesters of the studies. As expected, their persistence rates were higher than those for the entire sample (which also included non-first-semester students): 87% for writing students and 86% for reading students to their first semesters of persistence.

Semester-to-semester persistence rates were also calculated separately for those who successfully completed (A, B, C, or CR grade) the initial writing or reading course and for those who did not successfully complete the course (D, F, NCR grade), and Table 3 shows the results of that analysis. There is a significant difference between the two groups, with the successful student group persisting to a first subsequent semester at a much higher rate (90% for writing and 88% for reading) than the non-successful group.

An analysis of persistence rates by ethnicity is shown in Table 4. Asian students persist in college at higher rates than all other groups, 91% compared to the 85% sample average for persistence to the first semester after completion of the initial remedial writing course. Black students from the writing study demonstrated significantly lower persistence rates for each subsequent semester.



- Academic Progress and Performance

Tables 5, 6, and 7 show the percentage of former remedial writing students who completed freshman composition, through Spring 1988, by initial course level, initial writing course success or non-success, and ethnicity. By the end of Spring 1988, or four semesters after completion of the Fall 1986 remedial writing course, 45% of the students had completed freshman composition. Most of these students, 29%, completed freshman composition in Spring 1987, or within one semester of completing the remedial writing course. Students who successfully completed the initial remedial writing course were much more likely to complete freshman composition, 50% compared to 21% for the non-successful.

Students who had been enrolled in the Fall 1986 writing course which was one level below freshman composition completed freshman composition at a higher rate, 53%, than lower level students. Forty percent of the students in the course three levels below freshman composition later completed freshman composition. It is very possible that some of those students enrolled in the writing course one level below freshman composition in Fall 1986 had also completed lower levels of remediation. Consequently, analysis according to initial course level during the Fall 1986 study is difficult. But it is encouraging to learn that 40% of students who were at one time enrolled in the lowest levels of remediation succeeded.

There were significant differences among ethnic groups on rates of freshman composition completion. This completion rate for white students was 50%. Hispanics demonstrated the lowest rate of completion, 36%.



Table 8 shows the number of students in the reading study who enrolled in subsequent reading courses. A total of 20% were enrolled in reading courses in Fall 1988, two semesters after the study began. As expected, students who demonstrated lower reading ability at the beginning of Fall 1987 more frequently continued their reading coursework enrollment in Fall 1988.

The purpose for providing remedial courses in community colleges is to prepare students for college-level work. Ideally, students who complete remedial coursework will subsequently enroll and succeed in non-remedial coursework. This study monitored that progress by determining the change in the average percentage of non-remedial units in which the students were enrolled from Fall 1986 through Fall 1988 for the writing students and from Fall 1987 through Fall 1988 for the reading students. (See Table 9.) An average of 70% of the units in which the writing students were enrolled in Fall 1986 were non-remedial; this percentage changed to 100% four semesters later, showing that these students did progress, on the average, to be enrolled in all college-level coursework.

The reading students were enrolled in an average of 54% non-remedial units during the first semester of the reading study; two semesters later that percentage changed to 85%. On the average, students enrolled in remedial reading courses appear to be enrolled in a higher percentage of remedial coursework than students enrolled in remedial writing courses.



Table 10 shows the distribution of grade point averages of the students for each semester. The greatest percentage of students, 45% to 47%, maintained average gpa's, between 2.0 and 2.9. From 21% to 26%, however, have gpa's below 2.0, and from 29% to 32% have gpa's above 2.9. There is a slight increase in the average gpa for writing students during the Spring 1988 semester. There is a slightly higher percentage of reading students with gpa's below 2.0, and their average gpa is slightly lower than that of the writing student sample. It would be necessary to know the gpa distribution of all community college students to further analyze the relative academic progress of these students for this measure. Of concern, however, are the students who make up almost one quarter of these samples: those who have gpa's below 2.0.



Interview Responses

Table 11 shows subsequent college enrollment status by employment status. It shows that, of the students interviewed who were no longer attending the original study community college, 39% of the writing students and 21% of the reading students were attending another college during Fall 1988. The largest number of those attending college were attending another community college; only 16% of the writing students and 3% of reading students were attending a four-year college.

(It is possible that the interviewee sample was biased in favor of students who had not left the area to "go away" to a four-year college insofar as these respondents were accessible to interview; in other words, students who transferred to a four-year college may have been more likely to have left the area and be inaccessible for an interview. Analysis of the respondents, however, reveals that they are similar in demographic characteristics to the group of all non-returning students.)

The majority of the non-returning students were employed full-time, and students who were employed full-time were most frequently not enrolled in college.

Table 12 shows that of the interview respondents from the writing study who had originally identified "transfer" as their long-term educational objective, 23% had indeed transferred to a four-year college. This percentage coupled with the large percentage of former writing students who were still enrolled in the original study community college (44%, see Table 3) indicates that these students are remaining in college, successfully pursuing their transfer objective.



Of the reading students who were no longer attending the original study community college, a larger percentage than that from the writing student sample, 79%, were not enrolled in any college during Fall 1988. However, 28% of the former students with a "transfer" objective were enrolled at some college.

Former remedial reading students were asked if, as a result of taking a reading course, they "read more now" or "enjoyed reading more now", and 74% responded "yes" to this question. Only 16% responded "no", and 10% said they "don't know." If they indeed responded conscientiously to this question, the reading courses are contributing to the quality of students' lives by enhancing their appreciation of reading.

#53-B:LARC



Table 1
Sample Description and Response Rates
by College

| Name of Follow-up College | # in original sample | • | # follow up forms returned | response | # not enrolled Fall 88 | # interv. returned | response |
|------------------------------|----------------------------|------|----------------------------------|----------|------------------------------|--------------------|----------|
| YEAR 1 - WRITING | | | | | | | |
| Butte | 379 | 312 | 307 | 98% | 4 | 62 | * |
| Canada | 218 | 153 | 153 | 100 | 96 | 0 | |
| College of the Desert | 240 | 210 | 207 | 99 | 123 | Ö | 0 |
| College of San Mateo | 264 | 208 | 189 | 91 | 111 | ŏ | Ö |
| Gavilan | 252 | 182 | 145 | 80 | 4 | 37 | * |
| Golden West | 313 | 201 | 195 | 97 | 125 | o o | 0 |
| Long Beach City | 243 | 236 | 232 | 99 | 141 | 52 | 37% |
| Rio Hondo | 213 | 206 | 202 | 98 | 113 | 53 | 47 |
| Skyline | 319 | 214 | 203 | 95 | 116 | Ö | 0 |
| Solano | 238 | 203 | 203 | 100 | 113 | 32 | 29 |
| TOTAL | 2679 | 2125 | 2012 | 95% | 946 | 236 | 26% |
| YEAR 2 - READING | | | | | | | |
| Antelope Valley | 107 | 69 | 52 | 75% | 14 | 9 | 64% |
| Butte | 150 | 93 | 93 | 100 | 39 | 14 | 36 |
| Cabrillo | 95 | 80 | 79 | 99 | ő | 23 | * |
| Cerritos | 174 | 136 | 136 | 100 | 46 | 29 | 63 |
| College of the Desert | 107 | 101 | 75 | 75 | 24 | ő | 0 |
| College of the Redwoods | 49 | 42 | 39 | 93 | 2 | Ö | ŏ |
| Compton | 106 | 73 | 73 | 100 | 32 | 8 | 25 |
| Fullerton | 146 | 120 | 120 | 100 | 44 | 25 | 57 |
| Gavilan | 130 | 114 | 113 | 99 | 0 | 12 | * |
| Lake Tahoe | 10 | 7 | 7 | 100 | ī | 2 | * |
| Merced | 154 | 104 | 104 | 100 | 37 | ō | 0 |
| Mendocino | 43 | 35 | 34 | 97 | 21 | ō | ō |
| Mount San Antonio | 128 | 121 | 118 | 98 | 41 | 31 | 76 |
| Rancho Santiago | 130 | 96 | 96 | 100 | 43 | 15 | 35 |
| San Joaquin Delta | 147 | 138 | 138 | 100 | 72 | 46 | 64 |
| Santa Rosa Junior | 169 | 162 | 162 | 100 | 60 | 11 | 18 |
| Solano | 153 | 144 | 142 | 99 | 60 | 20 | 33 |
| TOTAL | 2000 | 1638 | 1581 | 97% | 536 | 247 | 46% |

^{*}college submitted records data only for those who were enrolled Fall 88; thus, enrollment status is not known for their total sample.

Table 2 Persistence Rates for Remedial Writing Students² Spring 1987 through Fall 1988 by Fall 1986 English Course Level

| Fall 1986 English Writing Course Level | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|---|-------------|-----------|-------------|-----------|
| 3 Levels Below FC' (n=137) | 91% | 67% | 55% | 498 |
| 2 Levels Below FC (n=571) | 83 | 59 | 54 | 43 |
| 1 Level Below FC (n=880) | 86 | 58 | 55 | 43 |
| TOTAL (n=1588) | 85% | 59% | 55% | 44% |

Persistence Rates for Fall 1987 Remedial Reading Students Spring 1988 through Fall 1988 by Pre-Test Percentile Group

| Pre-Test Percentile | Spring 1988 | Fall 1988 | |
|-------------------------|-------------|-----------|-----|
| Stanford Diagnostic low | n 501 | 81% | 60% |
| middle | 156 | 83 | 64 |
| high | 20 | 80 | 70 |
| NJBSCT's | 168 | 82% | 61% |
| middle | 254 | 85 | 59 |
| high | 145 | 84 | 59 |
| TOTAL | 1244 | 82% | 61% |

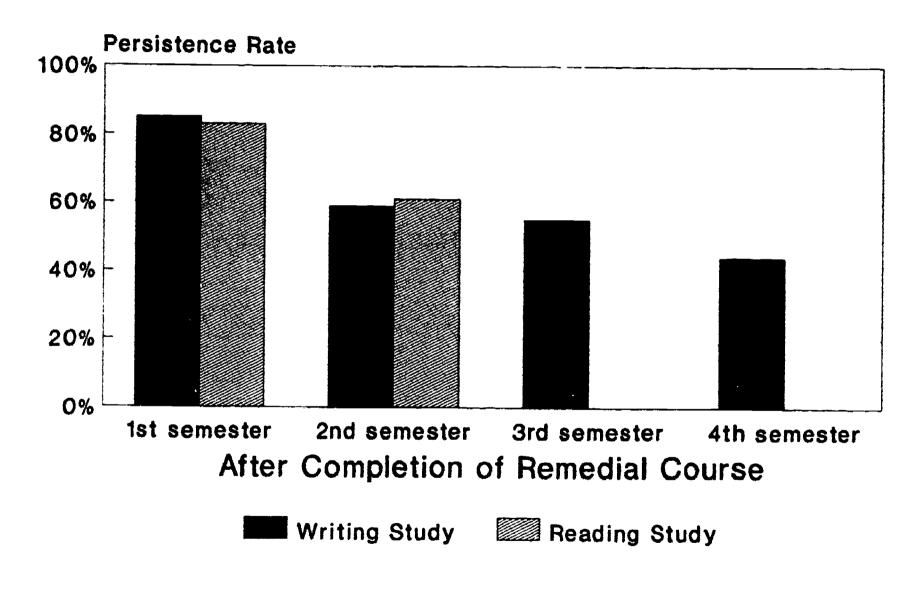
¹ Freshman Composition

New Jersey Basic Skills Competency Tests/Reading Comprehension



² course completers, for all tables

Graph 1 Semesters of Persistence





Persistence Rates for Fall 1986 Remedial Writing Students With Transfer-Related Goals and Who Were in First Semester of College at Start of Study

| | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|---------------|-------------|-----------|-------------|-----------|
| Total n = 653 | 87% | 65% | 60% | 47% |

Persistence Rates for Fall 1987 Remedial Reading Students with Transfer-Related Goals and Who Were in First Semester of College at Start of Study

| | Spring 1988 | Fall 1988 |
|---------------|-------------|-----------|
| Total n = 454 | 86% | 66\$ |

Table 3
Persistence Rates for Fall 1986 Remedial Writing Students
by Success in Fall 1986 Writing Course

| | | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|------------------------------|------|-------------|-----------|-------------|-----------|
| | n | | | | |
| Successful (A,B,C,Cr) | 1262 | 90% | 63% | 59% | 48% |
| Non-Successful (D,F,NCr,W,I) | 326 | 67 | 43 | 39 | 27 |
| TOTAI. | 1588 | 85% | 59% | 55% | 44% |

Persistence Rates for Fall 1987 Remedial Reading Students by Success in Fall 1987 Reading Course

| | | Spring 1988 | Fall 1988 |
|------------------------------|------|-------------|-----------|
| | n | | |
| Successful (A,B,C,Cr) | 1030 | 88% | 65% |
| Non-Su-cessful (D,F,NCr,W,I) | 214 | 58 | 37 |
| TOTAL | 1244 | 83% | 51% |

Table 4
Persistence Rates for Fall 1986 Remedial Writing Students by Ethnicity

| Ethnicity | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|-----------|------|-------------|-----------|-------------|-----------|
| Hispanic | 361 | 82% | 56% | 57% | 42% |
| Black | 138 | 79 | 50 | 45 | 28 |
| Asian | 160 | 91 | 64 | 59 | 48 |
| White | 798 | 86 | 60 | 54 | 45 |
| Other | 112 | 84 | 63 | 55 | 46 |
| Unknown | 19 | 90 | 68 | 68 | 58 |
| TOTAL | 1588 | 85% | 59% | 55% | 44% |

Persistence Rates for Fall 1987 Reading Students by Ethnicity

| Ethnicity | n | Spring 1988 | Fall 1988 |
|-----------|------|-------------|-----------|
| Hispanic | 334 | 84% | 62% |
| Black | 135 | 82 | 59 |
| Asian | 185 | 85 | 62 |
| White | 480 | 82 | 60 |
| Other | 86 | 74 | 58 |
| Unknown | 24 | 79 | 67 |
| TOTAL | 1244 | 82% | 61% |

Table 5
Former Remedial Writing Students Who Completed Freshman Composition
Spring 1987 through Spring 1988
by Course Success

| | | Completed Freshman Composition | | | | | | · • · • · • | |
|--------------------------------------|------|--------------------------------|-----|-----------|-----|-------------|----|-------------|-----|
| Success in Fall 86 Writing Course | 86 | Spring 1987 | | Fall 1987 | | Spring 1988 | | Total | |
| | n | 8 | n | * | n | ક | n | * | |
| Successful (A,B,C,Cr) n= | 1113 | 368 | 33% | 133 | 12% | 61 | 5% | 562 | 50% |
| Non-Successful (D,F,NCr) n= | 242 | 20 | 8 | 20 | 8 | 11 | 5 | 51 | 21 |
| TOTAL n= | 1355 | 388 | 29% | 153 | 11% | 72 | 5% | 613 | 45% |

Table 6
Former Remedial Writing Students Who Completed Freshman Composition
Spring 1987 through Spring 1988
by Course Level in Fall 1986 Writing Course

| all 1987 | Spring 1988 To | otal |
|----------|----------------|---------------|
| | | 260T |
| 8 | n % n | * |
| 9% | 29 4% 403 | 53% |
| 12 | 34 7 164 | 34 |
| 25 | 9 8 46 | 40 |
| | | 45% |
| • | 11% | 11% 72 5% 613 |

¹ level below freshman composition



Table 7
Former Remedial Writing Students Who Completed Freshman Composition
Spring 1987 through Spring 1988
by Ethnicity

| | | Sprin | g 1987 | Fall | 1987 | Spring | 1988 | TOT | AL |
|-----------|----------|-------|--------|------|------|--------|------|-----|-----|
| Ethnicity | 7 | n | * | n | * | n | * | n | * |
| Hispanic | n 321 | 68 | 21% | 28 | 9% | 19 | 6% | 115 | 36% |
| Black | 110 | 28 | 26 | 10 | 9 | 6 | 5 | 44 | 40 |
| Asian | 131 | 28 | 21 | 19 | 15 | 12 | 9 | 59 | 45 |
| White | 685 | 230 | 34 | 84 | 12 | 31 | 5 | 345 | 50 |
| Other | 89 | 28 | 32 | 9 | 10 | 3 | 3 | 40 | 45 |
| Unknown | 19 | 6 | 32 | 3 | 16 | 1 | 5 | 10 | 53 |
| TOTAL | 1355 | 388 | 29% | 153 | 11% | 72 | 5% | 613 | 45% |

Table 8
Fall 1987 Remedial Reading Students Enrolled in Reading Course
Fall 1988
by Pre-Test Percentile Group

| | Enrolled | l in Reading | Course l | Fall 88 |
|------------------------------|----------|--------------|----------|---------|
| Pre-Test Percentile Group | n | es % | n No | 8 |
| Stanford Diagnostic | | | | |
| low | 86 | 21% | 331 | 79% |
| middle | 14 | 10 | 125 | 90 |
| high | 1 | 6 | 16 | 94 |
| NJBSCT | | | | |
| low | 43 | 32% | 91 | 68% |
| middle | 56 | 23 | 186 | 77 |
| high | 19 | 14 | 121 | 86 |
| TOTAL | 219 | 20% | 870 | 78% |

R

Table 9 Percentage of Non-Remedial Units Enrolled In Fall 1986 - Fall 1988 by Level

| Fall 1986 English Writi Course Level | Fall 86 % non- ng remedial units | Spring 87 % non- remedial units | Fall 87 % non- remedial units | Spring 88 % non- remedial units | Fall 88 % non- remedial units |
|---|---|--|--|--|--|
| WRITING STUDENTS 3 Levels Below n= 125 2 Levels Below n= 512 1 Level Below n= 751 TOTAL n=1388 | 70% 55 77 70% | 91% 82 92 91% | 89% 88 . 100 89% | 100% 100 100 100% | 100% 100 100 100% |
| AVERAGE # OF NON- REMEDIAL UNITS | 7 | 10 | 8 | 7 | 5 |

| | 87 Pre-Test tile Group | Fall 87 % non- remedial units | Spring 88 % non- remedial units | Fall 88 % non- remedial units |
|----------------|---------------------------|--|--|--|
| STANFORD DIAGN | OSTIC | | | |
| low | n= 484 | 54% | 77% | 85% |
| middle | n= 162 | 58 | 77 | 85 85 |
| high | n= 21 | 54 | 88 | 100 |
| NJBSCT | | | | |
| low | n= 174 | 50 | 75 | 0.3 |
| middle | n= 265 | 54 | 88 | 83 |
| high | n= 145 | 72 | 90 | 100 |
| • | | / / | 30 | 100 |
| TOTAL | n=1252 | 54% | 808 | 85% |
| AVERAGE # OF 1 | NON- | | | |
| REMEDIAL UNITS | 5 | 6 | 8 | 6 |

Table 10
Grade Point Average Distribution for Fall 1986 Remedial Writing Students
Spring 1987 through Spring 1988

| Grade Point Average | Fall 1986 | Spring 1987 | Fall 1987 | Spring 1988 |
|-----------------------------|-----------|-------------|-----------|-------------|
| Below 1.0 | 5% | 5% | 3% | 3% |
| 1.0 - 1.9 | 18 | 19 | 20 | 18 |
| 2.0 - 2.9 | 46 | 45 | 46 | 47 |
| 3.0 - 3.9 | 26 | 26 | 26 | 25 |
| 4.0 | 6 | 5 | 5 | 7 |
| Average Grade Point Average | 2.49 | 2.46 | 2.47 | 2.50 |

Grade Point Average Distribution for Fall 1987 Remedial Reading Students Spring 1988

| Grade Point Average | Spring 1988 |
|-----------------------------|-------------|
| Below 1.0 | 4% |
| 1.0 - 1.9 | 22 |
| 2.0 - 2.9 | 45 |
| 3.0 - 3.9 | 24 |
| 4.0 | 5 |
| Average Grade Point Average | 2.40 |

Table 11
College Enrollment Status for Fall 1986 Remedial Writing Course Students in Fall 1988
by Employment Status*

| College Enrollment Status | Working F/T | Working P/T | Not Working | TOTAL |
|---|------------------------|-------------------------------|-------------------------------|--------------------------------|
| Yes, in college community college four-year college other SUB-TOTAL | n=113 11% 5 1 | n=53 40% 25 4 69% | n=58 22% 29 2 53% | n=224 21% 16 2 39% |
| No, not in college | 83% | 31% | 47% | 61% |
| TOTAL | 50% | 24% | 26% | 100% |

College Enrollment Status for Fall 1987 Remedial Reading Course Students in Fall 1988 by Employment Status*

| College Enrollment Status | Working F/T | Working P/T | Not Working | TOTAL |
|---|------------------------------|-------------------------------|------------------------------|-------------------------------|
| Yes, in college community college four-year college other SUB-TOTAL | n=110 8% 2 3 13% | n=41 24% 5 15 44% | n=73 10% 7 6 23% | n=224 12% 3 6 21% |
| No, not in college | 87% | 56% | 77% | 79% |
| TOTAL | 49% | 18% | 33% | 100% |

*for students who were no longer enrolled in study community college and who responded to questionnaire/interview.



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Table 12
College Enrollment Status for Fall 1986 Remedial Writing Course Students in Fall 1988
by Educational Goal in Fall 1986*

| | Fall | 1986 Educational G | ioal |
|---|--------------------------------|-------------------------------|--------------------------------|
| College Enrollment Status | Transfer-Related | Other | TOTAL |
| Yes, in college community college four-year college other SUB-TOTAL | n=139 19% 23 1 43% | n=93 22% 10 2 34% | n=232 21% 16 2 39% |
| No, not in college | 57% | 66% | 61% |
| TOTAL | 60% | 40% | 100% |

College Enrollment Status for Fall 1987 Remedial Reading Course Students in Fall 1988 by Educational Goal in Fall 1987*

| | Fall | 1987 Educational (| Goal |
|---|-------------------------------|----------------------|-------------------------------|
| College Enrollment Status | Transfer-Related | Other | TOTAL |
| Yes, in college community college four-year college other SUB-TOTAL | n=119 16% 4 8 28% | n=73 6% 1 3 | n=192 12% 3 6 21% |
| No, not in college | 72% | 90% | 79% |
| TOTAL | 62% | 38% | 100% |

^{*}for students who were no longer enrolled in study community college and who responded to questionnaire/interview.

Table 13
Students "Reading More Now or Finding Reading More Enjoyable"
by Pre-Test Percentile Group*

| Pro Most | Read More Now or Find Reading More Enjoyable | | |
|----------------------------------|--|-----|----------------------|
| Pre-Test Percentile Groups | Yes | No | Other/ Don't Know |
| Stanford Diagnostic: | | | |
| Low(n=84) | 83% | 6% | 11% |
| Middle(n=27) | 59 | 33 | 7 |
| High(n=4) | 100 | o | 0 |
| NJBSCT: Low(n=29) | 62% | 21% | 17% |
| Middle(n=41) | 73 | 17 | 10 |
| High(n=26) | 69 | 27 | 4 |
| TOTAL(n=211) | 74% | 16% | 10% |

^{*}for students who were no longer enrolled in study community college and who responded to questionnaire/interview.

Conclusions

California's 1960 Master Plan for Higher Education crafted the concept that high school graduates and other adults in need of further college preparatory work would attend community colleges to acquire this preparation and their general postsecondary education prior to transferring to a state four-year college or university. Since that Plan was developed, questions have persisted regarding the viability of the community colleges in fulfilling this function: Do students needing basic skills remediation succeed in postsecondary education? What are the learning outcomes resulting from community college remedial programs?

These questions and interest in student outcomes assessment prompted the series of LARC Student Outcomes Studies which was initiated in 1986. The findings of these studies also address issues raised most recently by the Joint Committee for Review of the Master Plan in <u>California Faces....California's Future</u>, which focusses upon questions of student access, equity, and success. That report reaffirms that, "The California Community Colleges are the gateway to equity, providing access to top quality lower division transfer and vocational education" and addresses the transfer function thusly:

"Transfer is the promise at the center of California's entire system of higher education. The idea is deceptively simple. Wherever you start, whatever your past scores or grades, no matter whether you bring a history of 'achievement' or the promise of your initiative and commitment: we [community colleges] will provide an opportunity for you.....transfer programs gave otherwise excluded students a way back into our educational system."

For these studies, a selected number of outcomes criteria for students enrolled in remedial writing and reading courses was identified and studied. For the most part, it can now be demonstrated that students with remedial education needs who enroll in



community colleges have high rates of success in postsecondary education. Findings to document this conclusion are outlined both in reports of the first studies and again in this study, which followed the original groups of remedial students for additional semesters.

A most important conclusion is that, although efforts may be labor-intensive and costly, community college student outcomes information can be collected and analyzed. In addition to the generous funding provided by the California Community Colleges Chancellor's Office for these studies, the participating colleges contributed both human and fiscal resources. Faculty, staff, administrators, and students worked beyond their normal responsibilities to collectively document the results of their efforts. Significantly, it was a voluntary consortium of colleges, the Learning Assessment Retention Consortium, which provided the leadership needed to demonstrate the success of community college programs.

Demonstrating the success of community colleges in fulfilling that unique portion of their mission which is to prepare students to succeed in postsecondary education, this follow-up study has found the following:

• 45% of the students who were enrolled in remedial writing courses during Fall 1986 had completed a freshman composition course by Fall 1988. Thus, 45% had succeeded in completing the English baccalaureate requirement. This percentage would be even greater if it were possible to "track" students' accomplishments at students' subsequent colleges of enrollment or if this study continued for a longer period of time.

- Rates of persistence in college for students who have enrolled in remedial courses are high; more than 80% of these students persisted for at least one additional semester.
- Further, students who had been enrolled in remedial courses, subsequently enroll in increasingly larger proportions of college-level coursework and eventually enroll, on the average, in all non-remedial coursework.
- 23% of the respondent sample who had departed the community college
 and who had identified transfer to a four-year college as a goal had indeed
 transferred within four semesters after enrollment in the remedial writing
 course.

While persistence rates were similar, there were other differences between the samples of remedial writing students and remedial reading students. Reading students:

- Were enrolled, on the average, in a greater percentage of remedial courses.
- Had a lower average gpa.
- More often did not re-enroll in another college after leaving the college of study.

The findings revealed the following issues as ones of concern and topics for future studies:

- The differences in various success measures for underrepresented minorities, Hispanics and Blacks.
- The students who do not demonstrate success, either by dropping out of college or by failing to achieve in community colleges.



The data generated by these studies are rich, and readers are encouraged to review the other reports listed in the appendix for additional student outcomes information. In all, the community colleges and their staff who contributed to this research can be assured that their teaching, learning, and research efforts have been productive.



Appendix A Data Collection Instruments



LARC STUDENT OUTCOMES STUDY Follow-Up of Year One/Writing

| | ID# | | |
|------------|---|-------------|-------------|
| | Name | | |
| A. | Fall 1986 1. Semester g.p.a. | | |
| В. | Spring 1987 | | • |
| | 2. Semester g.p.a. | | |
| | 3. Completed Freshman Composition | yes_ | no |
| c. | Fall 1987 | | |
| | 4. # remedial units enrolled in | | |
| | 5. # non-remedial units enrolled in | | |
| | 6. Semester g.p.a. | | |
| | 7. Completed Freshman Composition | yes_ | no |
| D. | Spring 1988 | | |
| | 8. # remedial units enrolled in | | |
| | 9. # non-remedial units enrolled in | | |
| | 10. Semester g.p.a. | | |
| | 11. Completed Freshman Composition | yes_ | no |
| E.F | `all 1988* | | |
| | 12. # remedial units enrolled in | | |
| | 13. # non-remedial units enrolled in | | |
| *Al ove | l students not enrolled in Fall 1988 are r the telephone. | to be | interviewed |
| | | | |

Instructions & Definitions:

- 1) # of units enrolled in as of first census week
 (usually 4th week of semester)
- 2) remedial units = those in basic subjects (English, reading and math) defined by Title V as remedial. This includes English writing courses at least two levels below college-level English (not including ESL) and Math courses at least one level below beginning algebra.
- 3) Non-remedial units = all units not included in #2 above.
- 4) If student is not enrolled for given semester, enter zeros in questions about units. Enter "NA" in g.p.a. question.
- 5) Round # of units to whole numbers, where necessary.

#22-B:LARCINST



Telephone Interview Year One/Writing

This interview is for any student in the original Fall 1986 sample who completed the Fall 1986 writing course who is NOT enrolled at your college during Fall 1988.

| | | ID# | |
|------------------|---|---|--|
| | | Name | |
| | ı | Telephone #() | · · · · · · · · · · · · · · · · · · · |
| | | Contact information | |
| you we cla | were enrolled in an E are calling all of t ss in order to study w | and I'm c Office. Inglish writing class at the students who were that happens to students ou four short questions | our college, and enrolled in that after they leave |
| 1) | First, are you enroll | ed in a college now? | Yes No |
| 2) | If yes, what college | are you enrolled in? | Community college 4-year |
| | Name of college | | college Other |
| 3) | Are you currently emp | loyed? | Yes |
| 4) | If yes, do you work f 20 hours a week) or p do you do? | | Full-time |
| | Position and title | | |
| <u>Opt</u> | iona: | | |
| 5) | Do you have any other experiences in our En | r comments you want to m glish class or in our co | make about your ollege? |
| | | | |
| | | [Ple | ease turn over] |



| ther questions added by college: | |
|----------------------------------|--|
| | |
| | |
| | |
| | |

#35-A:\WRITINT



LARC STUDENT OUTCOMES STUDY Follow-Up of Year Two/Reading

| ID# | |
|--|-------------------|
| Name | |
| A. <u>Spring 1988</u> 1. Semester g.p.a. | * |
| B. Fall 1988* 2. # remedial units enrolled in 3. # non-remedial units enrolled in 4. Enrolled in a reading course | yesno |
| * All students <u>not</u> enrolled in Fall 1988 are over the telephone. | to be interviewed |
| | |

Instructions & Definitions:

- 1) # of units enrolled in as of first census
 week (usually 4th week of semester)
- 2) remedial units = those in basic subjects (English, reading and math) defined by Title V as remedial. This includes English writing courses at least two levels below college-level English (not including ESL) and Mathicourses at least one level below beginning algebra.
- 3) Non-remedial units = all units not included in #2 above.
- 4) If student is not enrolled for given semester, enter zeros in questions about units. Enter "NA" in g.p.a. question.
- 5) Round # of units to whole numbers, where necessary.



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IARC Student Outcomes Study Telephone Interview Year Two/Reading

This interview is for any student in the original Fall 1987 sample who completed the Fall 1987 reading course and who is NOT enrolled at your college during Fall 1988.

| | ID# | |
|------------|---|---------------------------------------|
| | Name | |
| | Telephone #() | |
| | Contact Information | · · · · · · · · · · · · · · · · · · · |
| Hel | llo, my name is and I'm College Offic | calling from the |
| cal ord | re enrolled in a reading course at our co ling all of the students who were enrolled der to study what happens to students afte lege. May I ask you six short questions? | in that class in |
| 1) | First, are you enrolled in a college now? | Yes No |
| 2) | If yes, what college are you enrolled in? | conmunity college 4-year college |
| | Name of college | Other |
| 3) | Are you currently employed? | Yes No |
| 4) | If yes, do you work full-time (more than 20 hours a week) or part-time, and what do you do? | Full-time Part-time |
| | Position, title | |
| 5) | As a result of taking a reading class, do you read more now or enjoy reading more? | Yes No Other Don't know |
| | [| Please turn over] |



| | (at least weekly) read: [Read list] | for scl Magazi Newspa Materia for my Books include novels Other |
|------------|---|---|
| <u>Opt</u> | ional: | |
| 7) | Do you have any other comments you want experiences in our reading class or in | |
| | | |
| oth | ner questions added by college: | |
| oth 8) | ner questions added by college: | ,,, |
| , | er questions added by college: | |
| , | ner questions added by college: | |
| 8) | | |
| 8) | er questions added by college: ce and time of interview nature of interviewer | |

#35:A:\READINT



Appendix B
College Tables



Persistence Rates for Fall 1986 Remedial Writing Students by Fall 1986 Remedial Writing Course Level

| Fall 1986 Writing Course Level | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 | Fall 1986 Writing Course Level | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|-----------------------------------|--|----------------|--------------|----------------|--------------|-----------------------------------|-------------|----------------|--------------|----------------|--------------|
| COLLEGE 1 | | | | | | COLLEGE 19 | | | | | |
| 1 Level Below | 145 | 90% | 52% | 48% | 40% | 1 Level Below | 140 | 80\$ | 59≹ | 51% | 36% |
| 2 Levels Below | 39 | 100 | 67 | 54 | 41 | 2 Levels Below | 37 | 81 | 57 | 51 | 38 |
| 3 Levels Below | • | _ | | | - | 3 Levels Below | - | | _ | - | |
| TOTAL | 184 | 92% | 55% | 50% | 40% | TOTAL | 177 | 80% | 59% | 51% | 37\$ |
| COLLEGE 7 | * • • | | | | | COLLEGE 24 | | | | |] |
| 1 Level Below | 77 | 961 | 65% | 56% | 30% | 1 Level Below | 163 | 81% | 46% | 47% | 34% |
| 2 Levels Below | 55 | 89 | 71 | 67 | 46 | 2 Levels Below | - | _ | _ | _ | - |
| 3 Levels Below | 55 | 93 | 80 | 64 | 51 | 3 Levels Below | - | - | - | - | _ |
| TOTAL | 187 | 931 | 71% | 62% | 411 | TOTAL | 163 | 81% | 46% | 47% | 34% |
| COLLEGE 10 | | | | | | COLLEGE 26 | | | | | |
| 1 Level Below | 40 | 95% | 78% | 73% | 45% | 1 Level Below | 56 | 84% | 55% | 48% | 34% |
| 2 Levels Below | 90 | 79 | 51 | 42 | 33 | 2 Levels Below | 86 | 79 | 64 | 56 | 31 |
| 3 Levels Below | 63 | 91 | 54 | 43 | 32 | 3 Levels Below | | _ | _ | _ | _ |
| TOTAL | 193 | 86% | 58 | 49% | 35% | TOTAL | 142 | 81% | 61% | 53% | 32% |
| COLLEGE 14 | ·· · · · · · · · · · · · · · · · · · · | | | 1 | | COLLEGE 27 | | | | | _ |
| 1 Level Below | 98 | 81% | 59% | 64% | 50% | 1 Level Below | 34 | 94% | 77% | 85% | 91% |
| 2 Levels Below | 104 | 75 | 55 | 52 | 39 | 2 Levels Below | 36 | 97 | 72 | 78 | 97 |
| 3 Levels Below | _ | - | _ | _ | _ | 3 Levels Below | 19 | 84 | 74 | 68 | 100 |
| TOTAL | 202 | 78% | 57% | 58% | 448 | TOTAL | 89 | 93% | 74% | 79% | 96% |
| COLLEGE 15 | | | | — | | COLLEGE 28 | | | | | |
| 1 Level Below | 93 | 83% | 54% | 48% | 42% | 1 Level Below | 34 | 88% | 85% | 94% | 91% |
| 2 Levels Below | 109 | 82 | 50 | 47 | 43 | 2 Levels Below | 15 | 87 | 73 | 80 | 93 |
| 3 Levels Below | | - | | | 1 - | 3 Levels Below | - | _ | _ | | - |
| TOTAL | 202 | 82% | 52% | 48% | 43% | TOTAL | 49 | 88% | 82% | 90% | 92% |



Persistence Rates for Fall 1987 Remedial Reading Students by Pre-Test Percentile Group

| Pre-Test Percentile Groups | n | Spring 1988 | Fall 1988 | Pre-Test Percentile Groups | n | Spring 1988 | Fall 1988 | Pre-Test Percentile Groups | n | Spring 1988 | Fall 1988 |
|---|-----------------------|------------------------|------------------------|--|----------------------|----------------------------|----------------------------|--|----------------------|----------------------------|---|
| COLLEGE 2 Low Middle High | 23 53 24 | 87% 85 79 | 57% 74 46 | COLLEGE 16 Low Middle High | 28 52 17 | 86 % 90 76 | 64 % 48 53 | COLLEGE 23 Low Middle High | 35 21 | 94 % 90 | 100% |
| TOTAL | 100 | 84% | 63% | TOTAL | 97 | 87% | 54% | TOTAL | 56 | 93% | 100% |
| COLLEGE 3 Low Middle High TOTAL | 83 39 9 131 | 89% 80 89 86% | 66% 56 90 65% | COLLEGE 17 Low Middle High TOTAL | 14 28 25 67 | 93% 96 100 97% | 57% 75 68 69% | COLLEGE 24 Low Middle High TOTAL | 82 18 2 102 | 82 72 100 80% | 68 50 50 65% |
| COLLEGE 4 Low Middle High TOTAL | 126 | 72% - - 72% | 47% - - 47% | COLLEGE 19 Low Middle High TOTAL | 12 14 1 27 | 92% 93 100 93% | 75% 50 100 63% | COLLEGE 26 Low Middle High TOTAL | 22 9 1 32 | 64 67 100 66% | 27 44 100 34% |
| COLLEGE 5 Low Middle High TOTAL | 71 15 1 87 | 76% 73 0 75% | 52% 47 0 51% | COLLEGE 20 Low Middle High TOTAL | 23 17 6 46 | 96% 94 83 94% | 100% 100 100 100% | COLLEGE 27 Low Middle High TOTAL | 53 31 3 87 | 83% 90 33 84% | 54 \$ 64 0 56 \$ |
| COLLEGE 7 Low Middle High TOTAL | 7 25 14 46 | 71% 64 64 65% | 43% 8 7 13% | COLLEGE 21 Low Middle High TOTAL | 16 8 2 26 | 100% 100 100 100% | 88% 100 100 92% | COLLEGE 28 Low Middle High TOTAL | 1 1 1 3 | 100% 100 100 100% | 0 100% 100 100% |
| COLLEGE 9 Low Middle High TOTAL | 29 58 59 146 | 32% 79 86 79% | 48% 62 70 62% | COLLEGE 22 Low Middle High TOTAL | 44 21 - 65 | 82% 86 - 83% | 55% 52 - 54% | | , | | L |



Persistence Rates for Fall 1986 Remedial Writing Students by Success in Fall 1986 Remedial Writing Course

| Success in Remedial Writing Course | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 | Success in Remedial Writing Course | n | Spring 1987 | Fall 1987 | Spring 1988 | Fal: 198 |
|------------------------------------|---------------------------------------|----------------|--------------|----------------|--------------|------------------------------------|-----|----------------|----------------|----------------|-------------|
| COLLEGE 1 | | | | | | COLLEGE 19 | | | | | |
| Successful | 162 | 94% | 561 | 52% | 43% | Successful | 130 | 88\$ | 65% | 561 | 44 |
| Non-Successful | 22 | 77 | 46 | 32 | 23 | Non-Successful | 46 | 61 | 44 | 35 | 17 |
| TOTAL | 184 | 92% | 55\$ | 50% | 40% | TOTAL | 176 | 80% | 59\$ | 51% | 37 |
| COLLEGE 7 | | | | | | COLLEGE 24 | | | | | |
| Successful | 156 | 95% | 75% | 66\$ | 47% | Successful | 109 | 881 | 53% | 52% | 42 |
| Non-Successful | 31 | 84 | 52 | 39 | 10 | Non-Successful | 54 | 67 | 32 | 35 | 19 |
| TOTAL | 187 | 93% | 71% | 62% | 40% | TOTAL | 163 | 814 | 46\$ | 47% | 34 |
| COLLEGE 10 | | | | | | COLLEGE 26 | | | | | |
| Successful | 154 | 90% | 62% | 52% | 36% | Successful | 131 | 82% | 61\$ | 531 | 34 |
| Non-Successful | 39 | 72 | 41 | 36 | 31 | Non-Successful | 11 | 64 | 55 | 55 | 18 |
| TOTAL | 193 | 86% | 58% | 49% | 35% | TOTAL | 142 | 81% | 61\$ | 53\$ | 32 |
| COLLEGE 14 | · · · · · · · · · · · · · · · · · · · | | | | | COLLEGE 27 | | | | | |
| Successful | 130 | 88% | 63\$ | 67% | 51% | Successful | 85 | 941 | 75% | 20% | 97 |
| Non-Successful | 72 | 60 | 46 | 42 | 32 | Non-Successful | 4 | 75 | 50 | 50 | 7: |
| TOTAL | 202 | 78% | 57\$ | 58% | 44% | TOTAL | 89 | 931 | 74% | 21% | 96 |
| COLLEGE 15 | · - | | | | | COLLEGE 28 | | | | | |
| Successful | 169 | 86% | 54% | 52% | 46% | Successful | 36 | 921 | 86 | 92\$ | 94 |
| Non-Successful | 33 | 61 | 36 | 27 | 27 | Non-Successful | 13 | 77 | 6 9 | 85 | 8 |
| TOTAL | 202 | 82% | 52% | 48% | 43% | TOTAL | 49 | 88\$ | 82% | 90\$ | 92 |

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Full Text Provided by ERIC

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Persistence Rates for Fall 1987 Remedial Reading Students by Success in Fall 1987 Remedial Reading Course

| Success in Fall Reading Course | 87 n | Spring 1988 | Fall 1988 | Success in Fall 87 Reading Course | 7 n | Spring 1988 | Fall 1988 | Success in Fall Reading Course | 87 n | Spring 1988 | Fall 1988 |
|---|------------------|------------------|-------------------|---|----------------|-------------------|-------------------|--|----------------|--------------------|---------------------|
| COLLEGE 2 Successful Non-Successful | 77 23 | 90% 65 | 66 % 52 | COLLEGE 16 Successful Non-Successful | 89 8 | 89% 63 | 56% 25 | COLLEGE 23 Successful Non-Successful | 51 5 | 92 % 100 | 100 % 100 |
| TOTAL | 100 | 84% | 63% | TOTAL | 97 | 87% | 54% | TOTAL | 56 | 93% | 100% |
| COLLEGE 3 Successful Non-Successful TOTAL | 110 21 131 | 93% 52 86% | 74% 19 65% | COLLEGE 17 Successful Non-Successful TOTAL | 57 10 67 | 100% 80 97% | 70% 60 69% | COLLEGE 24 Successful Non-Successful TOTAL | 94 8 102 | 82% 63 80% | 65% 63 |
| COLLEGE 4 Successful Non-Successful | 69 57 | 84% | 55 % 37 | COLLEGE 19 Successful Non-Successful | 20 7 | 90% | 65% 57 | COLLEGE 26 Successful Non-Successful | 23 9 | 74% | 39% |
| TOTAL | 126 | 72% | 47% | TOTAL | 27 | 93% | 63% | TOTAL | 32 | 663 | 34% |
| COLLEGE 5 Successful Non-Successful TOTAL | 77 10 87 | 81% 30 75% | 56% 10 51% | COLLEGE 20 Successful Non-Successful TOTAL | 45 1 46 | 93% 100 | 100% 100 | COLLEGE 27 Successful Non-Successful TOTAL | 79 8 | 86% 63 84% | 57% 50 56% |
| COLLEGE 7 Successful Non-Successful TOTAL | 36 10 46 | 75% 30 65% | 17% 0 | COLLEGE 21 Successful Non-Successful TOTAL | 24 2 26 | 100% 100 | 92% 100 92% | COLLEGE 28 Successful Non-Successful TOTAL | 3 - 3 | 100% | 67% |
| COLLEGE 9 Successful Non-Successful | 115 31 | 88% 45 | 70% 32 | COLLEGE 22 Successful Non-Successful | 61 | 85 % 50 | 56% 25 | | | <u> </u> | |
| TOTAL | 146 | 79% | 62% | TOTAL | 65 | 83\$ | 54% | | | | |



Persistence Rates for Fall 1986 Remedial Writing Students by Ethnicity

| Ethnicity | n | Spring 1987 | Fall 1987 | Spring | Fall 1988 | Ethnicity | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|------------------|-------------|----------------|--------------|--------|--------------|------------|--------------|----------------|--|----------------|--------------|
| COLLEGE 1 | | | 1 | 1 | | COLLEGE 15 | | | | | |
| Hispanic | 26 | 96% | 54% | 621 | 39% | Hispanic | 50 | 90% | 48% | 40% | 28% |
| Black | 32 | 84 | 44 | 38 | 25 | Black | 22 | 73 | 32 | 32 | 32 |
| Asian | 11 | 91 | 73 | 73 | 55 | Asian | 21 | 91 | 48 | 52 | 48 |
| Vhite | 100 | 93 | 54 | 46 | 42 | White | 71 | 79 | 62 | 56 | 52 |
| Other | 12 | 100 | 75 | 67 | 50 | Other | 36 | 81 | 50 | 47 | 47 |
| Unknown | 3 | 100 | 67 | 33 | 68 | Unknowr. | 2 | 50 | 50 | 50 | 50 |
| TOTAL | 184 | 92% | 55% | 50% | 40% | TOTAL | 202 | 82% | 52% | 48% | 438 |
| COLLEGE 7 | | | | | | COLLEGE 19 | | | | | 1 |
| Hi spanic | 20 | 75% | 60% | 60% | 20% | Hispanic | 11 | 91% | 73% | 64% | 468 |
| Black | 10 | 100 | 80 | 70 | 40 | Black | 29 | 79 | 55 | 45 | 31 |
| A sian | 34 | 91 | 77 | 74 | 50 | Asian | 19 | 95 | 79 | 79 | 53 |
| Vhite | 105 | 96 | 71 | 57 | 38 | White | 97 | 77 | 52 | 44 | 33 |
| Other | 18 | 94 | 72 | 61 | 61 | Other | 15 | 73 | 67 | 53 | 40 |
| Unknown | - | - | _ | - | - | Unknown | 6 | 83 | 83 | 67 | 50 |
| TOTAL | 187 | 93% | 71% | 62% | 41% | TOTAL | 177 | 80% | 59% | 51% | 378 |
| COLLEGE 10 | | | | 1 | | COLLEGE 24 | | | <u>. </u> | | |
| Hispanic | 16 | 888 | 63% | 63% | 38% | Hispanic | 52 | 77% | 48% | 52% | 428 |
| Black | 3 | 100 | 67 | 33 | 0 | Black | 14 | 86 | 43 | 36 | 14 |
| sian | 45 | 96 | 56 | 42 | 40 | Asian | 4 | 75 | 50 | 25 | 25 |
| Mite | 121 | 82 | 57 | 50 | 35 | White | 83 | 82 | 45 | 45 | 35 |
| ther | 6 | 83 | 50 | 50 | 17 | Other | 8 | 88 | 63 | 50 | 13 |
| Jnknown | 2 | 100 | 100 | 50 | 50 | Unknown | 2 | 100 | 0.5 | 100 | 50 |
| TOTAL | 193 | 86% | 58¥ | 49% | 35% | TOTAL | 163 | 81% | 46% | 47% | 34% |
| COLLEGE 14 | | | | | | COLLEGE 26 | | | | | |
| lispanic | 143 | 78% | 55% | 44% | 57% | Hispanic | 22 | 86% | 77% | 68% | 418 |
| lack | 5 | 60 | 60 | 40 | 60 | Black | 21 | 62 | 57 | 57 | 24 |
| sian | 7 | 100 | 86 | 14 | 29 | Asian | 13 | 69 | 31 | 23 | 23 |
| hite | 38 | 74 | 58 | 40 | 58 | White | 82 | 87 | 61 | 52 | 33 |
| ther | 7 | 86 | 57 | 57 | 57 | Other | 3 | 67 | 100 | 33 | 33 |
| nknown | ź | 100 | 100 | ó | 5 <i>7</i> | Unknown | 3 | 100 | 100 | 100 | |
| TOTAL | 202 | 78% | 57 % | 42% | 56% | TOTAL | 142 | 81% | 61% | 53% | 100 32% |

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Persistence Rates for Fall 1986 Remedial Writing Students by Ethnicity

| Ethnicity | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 | Ethnicity | n | Spring 1987 | Fall 1987 | Spring 1988 | Fall 1988 |
|-----------------|----|----------------|--------------|----------------|--------------|------------|----|----------------|--------------|----------------|--------------|
| COLLEGE 27 | | | - | | | COLLEGE 28 | | | | | |
| Hispanic | 3 | 100% | 67% | 100% | 100% | Hispanic | 18 | 83% | 67% | 89% | 100% |
| Black | 2 | 100 | 50 | 100 | 50 | Black | | - | _ | - | |
| Asian | 4 | 100 | 100 | 100 | 100 | Asian | 2 | 50 | 100 | 100 | 100 |
| White | 76 | 93 | 75 | 75 | 96 | White | 25 | 96 | 88 | 92 | 88 |
| Other | 4 | 75 | 50 | 100 | 100 | Other | 3 | 67 | 100 | 67 | 67 |
| U nknown | - | _ | _ | - | - | Unknown | ì | 100 | 100 | 100 | 100 |
| TOTAL | 89 | 93% | 74% | 79% | 96% | TOTAL | 49 | 888 | 82% | 90% | 92% |



Persistence Rates for Fall 1987 Remedial Reading Students by Ethnicity

| Ethnicity | n | Spring 1988 | Fall 1988 | Ethnicity | n | spring 1988 | Fall 1988 | Ethnicity | n | Spring 1988 | Fall 1988 |
|-----------------|-----|----------------|--------------|------------|----------------|----------------|--------------|------------|----|----------------|--------------|
| COLLEGE 2 | | | | COLLEGE 7 | | | | COLLEGE 19 | | | |
| Hispanic | 36 | 94% | 698 | Hispanic | 16 | 638 | 12% | Hispanic | 5 | 100\$ | 60% |
| Black | 9 | 89 | 44 | Black | 1 | 0 | 0 | Black | 2 | 100 | 50 |
| Asian | 5 | 100 | 60 | Asian | 2 | 50 | 0 | Asian | 3 | 100 | 33 |
| White | 37 | 70 | 57 | White | 23 | 74 | 13 | White | 16 | 88 | 69 |
| Other | 11 | 91 | 82 | Other | 3 | 33 | 33 | Other | 1 | 100 | 100 |
| Unknown | 2 | 50 | 50 | Unknown | ī | 100 | 0 | Unknown | - | - | - |
| TOTAL | 100 | 84% | 63% | TOTAL | 46 | 65% | 13% | TOTAL | 27 | 93% | 63% |
| COLLEGE 3 | | 1 | | COLLEGE 9 | | | | COLLEGE 20 | | | |
| Eispanic | 51 | 92% | 61% | Hispanic | 7 | 578 | 57% | Hispanic | 21 | 95% | 100% |
| Black | 12 | 92 | 83 | Black | 4 | 100 | 25 | Black | 2 | 100 | 100 |
| Asian | 15 | 87 | 80 | Asian | 2 | 100 | 50 | Asian | _ | _ | _ |
| White | 37 | 78 | 65 | White | 121 | 79 | 62 | White | 20 | 95 | 100 |
| Other | 11 | 91 | 55 | Other | 9 | 78 | 78 | Other | 2 | 50 | 100 |
| Unknown | 5 | 60 | 40 | Unknown | 3 | 100 | 100 | Unknown | 1 | 100 | 100 |
| TOTAL | 131 | 86% | 65% | TOTAL | 146 | 79% | 62% | TOTAL | 46 | 941 | 100% |
| COLLEGE 4 | | | | COLLEGE 16 | | | | COLLEGE 21 | | | |
| Hispanic | 17 | 65% | 35% | Hispanic | 7 | 100% | 86% | Hispanic | _ | _ | _ |
| Black | 11 | 55 | 46 | Black | 19 | 84 | 63 | Black | 2 | 100% | 50% |
| Asian | 63 | 84 | 49 | Asian | 19 | 84 | 68 | Asian | 2 | 100 | 50 |
| White | 22 | 73 | 59 | White | 36 | 89 | 36 | White | 15 | 100 | 100 |
| Other | 11 | 28 | 27 | Other | 14 | 86 | 50 | Other | 5 | 100 | 100 |
| Unknown | 2 | 100 | 50 | Unknown | 2 | 50 | 50 | Unknown | 2 | 100 | 100 |
| TOTAL | 126 | 72% | 47% | TOTAL | 9 7 | 13% | 54% | TOTAL | 26 | 100% | 92% |
| COLLEGE 5 | _ | | | COLLEGE 17 | | | | COLLEGE 22 | | | |
| Hispanic | 44 | 73% | 55% | Hispanic | 27 | 100% | 59% | Hispanic | 19 | 79% | 63% |
| Black | 4 | 75 | 75 | Black | 4 | 75 | 50 | Black | 45 | 84 | 51 |
| Asian | 28 | 82 | 50 | Asian | 2 | 100 | 100 | Asian | - | - | - |
| White | 8 | 75 | 38 | White | 32 | 97 | 78 | White | 1 | 100 | 0 |
| Other | 2 | 50 | 0 | Other | 2 | 100 | 50 | Other | _ | - | - |
| Unknown | 1 | 0 | 0 | Unknown | - | _ | _ | Unknown | - | - | ļ - |
| TOTAL | 87 | 75% | 51% | TOTAL | 67 | 97% | 69% | TOTAL | 65 | 83% | 54% |



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Persistence Rates for Fall 1987 Remedial Reading Students by Ethnicity

| Ethnicity | n | Spring 1988 | Fall 1988 | Ethnicity | n | Spring 1988 | Fall 1988 | Ethnicity | n | Spring 1988 | Fall 1988 |
|---|--------------------------------|----------------------------------|-----------------------------|---|-------------------------------|--|--|---|-------|----------------|--------------|
| COLLEGE 23 Hispanic Black Asian White | 27 2 6 17 | 96% 100 100 82 | 100% 100 100 | COLLEGE 26 Hispanic Black Asian White | 8 3 - | 63 % 0 - | 38% 33 - | COLLEGE 28 Hispanic Black Asian White | 1 - 2 | 100 | 100 |
| Other Unknown TOTAL | 2 2 56 | 100 100 93% | 100 100 100% | Other Unknown TOTAL | 5 1 32 | 60 100 66\$ | 20 100 34% | Other Unknown TOTAL | 3 | 100% | 67% |
| COLLEGE 24 Hispanic Black Asian White Other Unknown TOTAL | 34 13 26 26 3 - | 79% 85 85 77 67 - | 56% 85 77 54 67 | COLLEGE 27 Hispanic Black Asian White Other Unknown TOTAL | 15 1 12 52 5 2 | 80% 100 83 85 80 100 84% | 47% 100 83 50 60 100 56% | | | | |



Former Remedial Writing Students Who Completed Freshman Composition by Success in Fall 1986 Remedial Writing Course

| Success in Fall 86 Writing Course | n | | ing 87 | | 11 | Spr 19 | | TO | TAL | Success in Fall 86 Writing Course | n | | ing 87 | Fa 19 | 11 87 | | ing 88 | T | OTAL |
|---|------------------|--------------------|-----------------------|---------------|--------------------|------------------|-----------------------|--------------------|-------------------------|---|-----------------|--------------------|------------------------|-------------|------------------------------------|-------|------------------------|---------------------|--------------------|
| COLLEGE 1 Successful Non-Successful TOTAL | 157 20 177 | n 37 0 37 | \$ 248 0 218 | 0 | % 6% 0 7% | n 4 1 5 | \$ 3\$ 5 3\$ | n 53 1 54 | \$ 34\$ 5 31\$ | COLLEGE 19 Successful Non-Successful TOTAL | 72 14 86 | n 69 3 72 | \$ 928 27 848 | n 8 5 | 114 45 154 | 2 | \$ 8\$ 18 9\$ | n 83 10 93 | 1114 91 1084 |
| COLLEGE 7 Successful Non-Successful TOTAL | 147 25 172 | 48 3 51 | 33% 12 30% | 2 | 20% 8 19% | 1 | 10% 4 9% | 92 6 98 | 63% 24 57% | COLLEGE 24 Successful Non-Successful TOTAL | 97 36 133 | 45 5 50 | 46% 14 38% | 2 | 4% 6 5% | 0 1 1 | 3 | 49 8 57 | 51% 22 43% |
| COLLEGE 10 Successful Non-Successful TOTAL | 114 35 149 | 3 0 3 | 3% 0 2% | 15 6 21 | 138 17 148 | 1 | 7% 3 6% | 7 | 23% 20 22% | COLLEGE 26 Successful Non-Successful TOTAL | 108 7 115 | 40 0 40 | 37% 0 35% | 0 | 12% 0 11% | 0 | 11% 0 10% | 0 | 60% 0 57% |
| COLLEGE 14 Successful Non-Successful TOTAL | 116 44 160 | 45 4 49 | 39% 9 31% | 1 | 9% 2 7% | 6 3 9 | 5% 7 6% | 61 8 69 | | COLLEGE 27 Successful Non-Successful TOTAL | 62 10 72 | 26 3 29 | 42% 30 40% | 4 | 27 \$ 40 29 \$ | 0 | 8% 0 7% | 48 7 55 | 77% 70 76% |
| COLLEGE 15 Ficessful Non-Successful TOTAL | 147 21 168 | 20 0 20 | 14% 0 12% | 0 | 7% 0 6% | 4 0 4 | 0 | 34 0 34 | 23% 0 20% | COLLEGE 28 Successful Non-Successful TOTAL | 90 33 123 | 35 2 37 | 39% 6 30% | 0 | 16% 0 11% | 2 | 2% 6 3% | 51 4 55 | 57% 12 45% |



Former Remedial Writing Students Who Completed Freshman Composition by Fall 1986 Remedial Writing Course Level

| Fall 86 Writing Course Level | ח | | ing 87 | Fa 19 | | | ing 88 | TC | | Fall 86 Writing Course Level | n | Spr 19 | | Fa 19 | | | ing 88 | TO | TAL |
|--|-----------------------|-------------------------|-----------------------|-------------------------|-----------------------------|-----------------------|----------------------|-------------------------|------------------------|--|----------------------|-------------------------|------------------------|-------------------|------------------------------------|-----------------------|-------------------------------|---------------------|--|
| COLLEGE 1 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 139 38 - | n 37 0 - 37 | 27% 0 - 21% | n 11 1 - 12 | \$ 8 3 - 7 8 | n 4 1 - 5 | \$ 3 3 - | n 52 2 - 54 | 5 | COLLEGE 19 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 72 14 - 86 | n 64 8 - 72 | 881 62 - 841 | n 9 4 - | \$ 12\$ 31 15\$ | n 5 3 - 8 | * 7* 23 | 15 | \$ 107\$ 115 |
| COLLEGE 7 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 71 51 50 172 | 28 22 1 51 | 39% 41 2 30% | 8 18 | 8% 16 36 19% | 5 5 | 7% 14 10 9% | 39 34 24 98 | 67 | COLLEGE 24 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 133 | 50 - - 50 | 38% | 6 - 6 | 5 % - - 5 % | 1 - 1 | 1% | - | 43% |
| COLLEGE 10 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 28 73 48 149 | 1 0 2 3 | 4 % 0 4 2 % | 10 8 | 11% 14 17 15% | 0 8 1 9 | 0% 11 2 6% | 7 18 11 33 | 19% 25 23 23% | COLLEGE 26 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 48 67 - | 33 7 - 40 | 69% 10 - 35% | 3 10 - | 6% 15 - | 2 10 - | 4\$ 15 10\$ | 38 27 - 65 | 79 \$ 40 57 \$ |
| COLLEGE 14 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 82 78 - 160 | 36 13 - 49 | 44% 17 - 31% | 3 | 10% 4 - 7% | 4 - | 6% 5 - 6% | 49 20 - 69 | | COLLEGE 27 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 26 30 16 72 | 6 17 6 29 | 23% 57 38 40% | 9 | 38% 30 13 29% | 1 1 3 5 | 4 \$ 3 50 72 \$ | 27 11 | 65 % 90 69 76 % |
| COLLEGE 15 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 77 91 - | 20 0 - 20 | 26% 0 - | 4 6 - | 5% 7 - 6% | 3 1 - 4 | 4% 1 - 2% | 27 7 - 34 | - | COLLEGE 28 1 Level Below 2 Levels Below 3 Levels Below TOTAL | 79 44 - 123 | 33 4 - 37 | 42* 9 - 30* | 6 8 - 14 | 8% 18 - | 3 1 - 4 | 4 t 2 - 3 t | 42 13 ~ 55 | 53% 30 45% |



Former Remedial Writing Students Who Completed Freshman Composition by Ethnicity

| Ethnicity | n | Sp | ring 987 | | 87 | | ring 988 | T | OTAL | Ethnicity | n | | ring 987 | | 11 | | ring 88 | T | IATO |
|---|----------------------------------|------------------------------------|-------------------------------------|------------------------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|---------------------------------|---|-------------------------------------|------------------------------------|--|---------------------------------|-------------------------------------|----------------------------|--------------------------------------|-----------------------------------|----------------------------|
| COLLEGE 1 Hispanic Black Asian White | 24 31 11 96 | n 6 5 1 20 | \$ 25% 16 9 | n 2 1 2 6 | \$ 8 3 18 6 | n 0 0 2 3 | \$ 0 0 18\$ | n 8 6 5 29 | 33% 19 45 30 | COLLEGE 15 Hispanic Black Asian White | 46 18 19 | n 4 1 2 | \$ 9\$ 6 11 | n 0 0 | \$ 0 5 | n 2 0 | 48 | n 6 1 | 1 |
| Other Unknown TOTAL | 12 3 177 | 4 1 37 | 33 33 21% | 0 | 0 33 7% | 1005 | 0 0 3% | 4 2 | 33 67 31% | Other Unknown | 54 30 1 168 | 12 1 0 20 | 22 3 0 12\$ | 6 2 1 10 | 11 7 100 6% | 2 0 0 4 | 4 0 0 2 | 20 3 1 34 | 10 |
| COLLEGE 7 Hispanic Black Asian White Other Unknown TOTAL | 14 10 30 101 17 0 | 1 5 8 30 7 - | 7% 50 27 30 41 - | 1 6 20 4 - 32 | 7% 10 20 20 24 - | 3 2 0 8 2 - | 21% 20 0 8 12 - 9% | 5 8 14 58 13 - | 36% 80 47 57 76 | COLLEGE 19 Hispanic Black Asian White Other Unknown TOTAL | 4 14 10 48 7 3 86 | 4 10 7 43 5 3 72 | 100% 71 70 90 71 100 84% | 2 4 1 4 1 1 1 1 1 3 | 50% 29 10 8 14 33 | 2 0 2 3 1 0 8 | 50% 0 20 6 14 0 9% | 7 4 | 100 |
| COLLEGE 10 Hispanic Black Asian White Other Unknown TOTAL | 14 3 33 97 1 1 | 0 0 1 2 0 0 3 | 0 0 3 % 2 0 0 2 % | 3 1 3 14 0 0 | 21% 33 9 14 0 0 | 1 1 4 2 0 1 9 | 7% 33 12 2 0 100 5% | 4 2 8 18 1 0 33 | 67 24 | COLLEGE 24 Hispanic Black Asian White Other Unknown TOTAL | 39 13 2 71 6 2 | 12 1 1 33 2 1 50 | 31% 8 50 46 33 50 38% | 2 2 0 1 1 0 6 | 5% 15 0 1 17 0 5% | 010000001 | 0% 8 0 0 0 | 14 4 1 34 3 | 3: 3: 5: 4: 5: |
| COLLEGE 14 Hispanic Black Asian Thite Ther Thknown TOTAL | 114 4 6 29 5 2 | 30 0 2 13 3 1 49 | 26% 0 33 45 60 50 | 7 0 0 4 0 0 | 6% 0 0 14 0 0 | 5 0 2 2 0 0 9 | 4% 0 33 7 0 6% | 42 0 4 19 3 1 | 0 67 66 60 | COLLEGE 26 Hispanic Black Asian White Other Unknown TOTAL | 18 14 9 71 2 1 | 2 4 3 29 2 0 40 | 11% 29 33 41 100 0 35% | 1 1 2 9 0 0 | 6% 7 22 13 0 0 | 3 2 1 6 0 0 | 17% 14 11 8 0 10 | 6 7 6 44 2 0 65 | 5 6 6 |



Former Remedial Writing Students Who Completed Freshman Composition by Ethnicity

| Ethnicity | ת | , - | ring 987 | | 87 | | ing 88 | T | OTAL | Ethnicity | n | | ing | 1 | 11 87 | Spri 198 | _ | то | TAL |
|------------------------|--------|--------|-------------|--------|-----------------|---|----------------|--------|------------|------------------------|--------|--------|----------|----|-----------|-------------|-----------|---------|----------|
| COLLEGE 27 Hispanic | 4 | n 2 | \$ 50\$ | n 3 | % 75% | n | % 0% | n 5 | - | COLLEGE 28 Hispanic | 44 | n 7 | * 16* | n | \$ 16% | n | \$ 7\$ | n 17 | 39 |
| Black Asian | 1 6 | 1 2 | 100 | 0 | 0 67 | 0 | 0 17 | | 100 117 | Black Asian | 2 | 1 | 50 20 | 0 | 0 | 0 | 0 | 1 | 50 |
| White Other | 57 | 24 | 42 | 13 | 23 50 | 4 | 7 | 41 | 72 | White | 61 | 24 | 39 | 7 | 11 | 1 | 2 | 32 | 20 52 |
| Unknown | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 0 | Other Unknown | 6 5 | 0 | 67 0 | 0 | 0 | 0 | 0 | 0 | 67 0 |
| TOTAL | 72 | 29 | 40% | 21 | 29₺ | 5 | 7% | 55 | 76% | TOTAL | 123 | 37 | 30€ | 14 | 11% | 4 | 3% | 55 | 45 |





Fall 1987 Remedial Reading Students Enrolled in Reading Course Fall 1988 by Pre-Test Percentile Group

| | | Enrol | led Read | ing Fal | 1 1988 | | | Enrol | led in Re | ading F | all 1988 |
|------------------------------|-----|-------|--------------|---------|--------|------------------------------|----|-------|-----------|---------|-------------|
| Pre-Test Percentile Group | n | מ | es & | ת | No % | Pre-Test Percentile Group | n | n | Yes | n | No t |
| COLLEGE 3 | | | | | | COLLEGE 23 | | | | | |
| Low | 82 | 13 | 16% | 69 | 841 | Low | 35 | 4 | 11% | 31 | 89% |
| Middle | 37 | 2 | 5 | 35 | 95 | Middle | 21 | 1 | 5 | 20 | 95 |
| High | 9 | 0 | 0 | 9 | 100 | High | - | - | _ | - | - |
| TOTAL | 129 | 15 | 12% | 114 | 88\$ | TOTAL | 56 | 5 | 9\$ | 51 | 918 |
| COLLEGE 4 | - | | | | | COLLEGE 24 | | | | | |
| Low | 100 | 24 | 24% | 76 | 76% | Low | 63 | 25 | 40% | 38 | 60% |
| Middle | - | _ | - | - | - | Middle | 14 | 4 | 29 | 10 | 71 |
| High | _ | - | _ | _ | _ | High | 1 | 1 | 100 | 0 | 0 |
| TOTAL | 100 | 24 | 248 | 76 | 76% | TOTAL | 78 | 30 | 39\$ | 48 | 62% |
| COLLEGE 5 | | | | 1 | | COLLEGE 26 | | | | | |
| Low | 38 | 11 | 29% | 27 | 71% | Low | 22 | 1 | 5% | 21 | 96% |
| Middle | 7 | 3 | 43 | 4 | 57 | Middle | 9 | 0 | 0 | 9 | 100 |
| High | - | - | _ | _ | _ | High | 1 | 0 | 0 | 1 | 100 |
| TOTAL | 45 | 14 | 31% | 31 | 69% | TOTAL | 32 | 1 | 3\$ | 31 | 97% |
| COLLEGE 19 | | | | | | COLLEGE 27 | | | | | |
| Low | 11 | 2 | 18% | 9 | 82% | Low | 49 | 4 | 8% | 45 | 928 |
| Middle | 14 | 0 | 0 | 14 | 100 | Middle | 28 | 4 | 14 | 24 | 86 |
| High | 1 | 0 | 0 | 1 | 100 | High | 3 | 0 | 0 | 3 | 100 |
| TOTAL | 26 | 2 | 8% | 24 | 928 | TOTAL | 80 | 8 | 10% | 72 | 90% |
| COLLEGE 21 | | | | | | COLLEGE 28 | | | | | |
| Low | 16 | 2 | 13% | 14 | 88% | Low | 1 | _ | - | 1 | 100% |
| Middle | 7 | o | 0 | 7 | 100 | Middle | 2 | _ | - | 2 | 100 |
| High | í | 0 | ō | 1 | 100 | High | ī | _ | - | 1 | 100 |
| TOTAL | 24 | 2 | 8% | 22 | 92% | TOTAL | 4 | _ | _ | 4 | 100% |



Percentage of Non-Remedial Units Enrolled in for Fall 1986 Remedial Writing Course Students by Fall 1986 Remedial Writing Course Level

| | Percen | tage of Non- | Remedial U | nits Enrolle | d In |
|--------------------------------|---------|--------------|-------------|--------------|---------|
| Fall 1986 Writing Course Level | Fall 86 | Spring 87 | Fall 87 | Spring 88 | Fall 88 |
| COLLEGE 1 | | | | | • |
| 3 Levels Below | | | | 1 | |
| 2 Levels Below n= 39 | 48% | 94% | 94% | 948 | 99\$ |
| l Level Below n=119 | 97 | 98 | 99 | 100 | 100 |
| TOTAL n=158 | 85% | 97% | 98% | 991 | 993 |
| Av. # of Non-Remedial Units | 11 | 13 | 7 | 5 | 5 |
| COLLEGE 7 | | | | | |
| 3 Levels Below n= 58 | 65% | 80% | 96% | 100% | 100% |
| 2 Levels Below n= 58 | 62 | 93 | 99 | 99 | 99 |
| 1 Level Below n= 36 | 72 | 96 | 98 | 98 | 99 |
| TOTAL n=196 | 67% | 90% | 97 % | 991 | 998 |
| Av. # of Non-Remedial Units | 9 | 11 | 9 | 8 | 5 |
| COLLEGE 10 | | | | | |
| 3 Levels Below n= 57 | 98% | 99% | 97% | 100 | 100% |
| 2 Levels Below n= 81 | 63 | 94 | 99 | 100 | 93 |
| 1 Leyel Below n= 36 | 99 | 100 | 100 | 100 | 100 |
| TOTAL n=174 | 82% | 97% | 99% | 100% | 978 |
| Av. # of Non-Remedial Units | 10 | 11 | 9 | 6 | 3 |
| COLLEGE 14 | | | | | |
| 3 Levels Below | | | | 1 | |
| 2 Levels Below n= 78 | 45% | 66% | 98% | 97% | 99% |
| 1 Level Below n= 72 | 53 | 72 | 99 | 98 | 100 |
| TOTAL n=150 | 49% | 69% | 98% | 98% | 100% |
| Av. # of Non-Remedial Units | 6 | 8 | 10 | 7 | 6 |
| COLLEGE 15 | | | | | |
| 3 Levels Below | | | | [[| |
| 2 Levels Below n=105 | 59% | 85% | 99% | 98% | 97% |
| l Level Below n= 91 | 96 | 97 | 97 | 97 | |
| TOTAL n=196 | 76% | 91% | 98% | 98% | 100 |
| Av. * of Non-Remedial Units | 10 | 10 | 7 | 6 | 99% |
| | | 10 | | 0 | 5 |



Percentage of Non-Remedial Units Enrolled in for Fall 1987 Remedial Reading Course Students by Pre-Test Percentile Group Stanford Diagnostic Test Group

| Pre-Test Percenti | le Group | Fall 87 | Spring 88 | Fall 88 | Pre-Test Percentil | e Group | Fall 87 | Spring 88 | Fall 88 |
|--------------------|----------|---------|-----------|---------|--------------------|---------|---------|-----------|---------|
| COLLEGE 3 | | | | | COLLEGE 20 | - | | | |
| Low | n= 83 | 33% | 51% | 50% | Low | n= 35 | 59% | 82% | 91% |
| Middle | n= 39 | 41 | 55 | 47 | Middle | ກ≈ 22 | 59 | 78 | 92 |
| High | ח= 9 | 20 | 76 | 86 | High | _ | - | - | - |
| TOTAL | n=131 | 37% | 54% | 52% | TOTAL | ת≖ 57 | 59% | 81% | 913 |
| Av. # Non-Remedia | | 4 | 6 | 5 | Av. # Non-Remedial | Units | 8 | 10 | 11 |
| COLLEGE 4 | , | | | | COLLEGE 24 | | | | |
| Low | n=108 | 51% | 59% | 428 | Low | n= 82 | 54% | 67% | 52% |
| Middle | - | - | - | - | Middle | n= 18 | 58 | 53 | 38 |
| High | - | _ | - | _ | High | n= 2 | 89 | 79 | 21 |
| TOTAL | n=108 | 51% | 59% | 428 | TOTAL | n=102 | 56% | 65% | 49% |
| Av. = Non-Remedia | l Units | 7 | 8 | 6 | Av. # Non-Remedial | Units | 7 | 8 | 6 |
| COLLEGE 5 | | | | | COLLEGE 26 | | | | |
| Low | n= 64 | 27% | 55% | 46% | Low | n= 22 | 56% | 42% | 24% |
| Middle | n= 12 | 31 | 60 | 53 | Middle | n= 10 | 73 | 53 | 45 |
| High | n= 1 | 43 | 0 | 0 | High | n= 1 | 70 | 100 | 100 |
| TOTAL | n= 77 | 28% | 55% | 46% | TOTAL | n=33 | 62% | 47% | 33% |
| Av. # Non-Remedia | l Units | 4 | 6 | 5 | Av Non-Remedial | Units | 7 | 5 | 4 |
| COLLEGE 19 | | | 1 | | COLLEGE 27 | | | | |
| Low | n= 18 | 498 | 37% | 42% | Low | n= 53 | 43% | 68% | 43% |
| Middle | n= 21 | 79 | 47 | 49 | Middle | n= 31 | 45 | 81 | 51 |
| High | n= 2 | 75 | 50 | 75 | High | n= 3 | 35 | 33 | 0 |
| TOTAL | n = 41 | 65% | 438 | 47% | TOTAL | n= 87 | 43% | 718 | 44% |
| Av. # Non-Remedia | l Units | 8 | 5 | 4 | Av. # Non-Remedial | Units | 6 | 9 | 5 |
| COLLEGE 21 | | | | | COLLEGE 28 | | | | |
| Low | n= 18 | 623 | 87% | 72% | Low | n= 1 | 0% | 08 | 0% |
| Middle | n= 8 | 68 | 90 | 89 | Middle | n= 1 | 21 | 50 | 100 |
| High | n= 2 | 84 | 100 | 100 | High | n= 1 | 0 | 44 | 100 |
| TOTAL | n= 28 | 65% | 89% | 79% | TOTAL | n≈ 3 | 78 | 32% | 67% |
| Av. # Non-Remedia: | l Units | 9 | 13 | 9 | Av. # Non-Remedial | Units | 1 | 3 | 7 |



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Percentage of Non-Remedial Units Enrolled In for Fall 1987 Remedial Reading Course Students by Pre-Test Percentile Group NJBSCT Group

| Pre-Test Percentile Group | | Fall 1987 | Spring 1988 | Fall 1988 | Pre-Test Percentile Group | | Fall 1987 | Spring 1988 | Fall 1988 |
|------------------------------|----------|--------------|----------------|--------------|------------------------------|-------|--------------|----------------|--------------|
| COLLEGE 2 | | | | | COLLEGE 17 | _ | | | |
| Low | n≈ 24 | 23% | 63% | 46% | Low | n= 22 | 48% | 54% | 50% |
| Middle | n≖ 55 | 23 | 71 | 69 | Middle | n= 41 | 50 | 58 | 65 |
| High | n= 24 | 19 | 71 | 46 | High | n= 29 | 59 | 84 | 66 |
| TOTAL | n=103 | 22% | 698 | 58% | TOTAL | n= 92 | 521 | 65% | 621 |
| Av. | al Units | 2 | 7 | 7 | Av. # Non-Remedial | Units | 7 | 8 | 7 |
| COLLEGE 7 | | | | | COLLEGE 20 | | | | |
| Low | n= 7 | 38% | 31% | 26% | Low | n≈ 24 | 591 | 79% | 81% |
| Middle | n= 25 | 54 | 52 | 6 | Middle | n= 17 | 52 | 85 | 93 |
| High | n= 14 | 67 | 64 | 7 | High | n= 6 | 55 | 83 | 100 |
| TOTAL | n= 46 | 55% | 53% | 10% | TOTAL | n= 47 | 56% | 81% | 88% |
| Av. # Non-Remedia | al Units | 6 | 5 | 1 | Av. # Non-Remedial | Units | 7 | 10 | 11 |
| COLLEGE 9 | | | | | COLLEGE 22 | | | | |
| Low | n= 29 | 63% | 57% | 47% | Low | n= 44 | 42\$ | 45% | 41% |
| Middle | ກ= 58 | 76 | 77 | 62 | Middle | n= 22 | 42 | 56 | 42 |
| High | n= 59 | 88 | 84 | 70 | High | - | - | - | - |
| TOTAL | n=146 | 78% | 76% | 62% | TOTAL | n= 66 | 42% | 48% | 41% |
| Av. # Non-Remedia | al Units | 9 | 9 | 8 | Av. # Non-Remedial | Units | 5 | 5 | 4 |
| COLLEGE 16 | | | | | | | | | |
| Low | n= 24 | 60% | 83% | 61% | | | | | |
| Middle | n= 47 | 47 | 84 | 48 | | | | | |
| High | n= 13 | 58 | 97 | 54 | 1 | | | | |
| TOTAL | n= 84 | 52% | 86% | 52% | I | | | | |
| Av. # Non-Remedia | l Units | 6 | 10 | 5 | | | | | |



Percentage of Non-Remedial Units Enrolled In for Fall 1986 Remedial Writing Course Students by Fall 1986 Remedial Writing Course Level

| | Percen | tage of Non- | Remedial U | nits Enrolle | d In |
|--------------------------------|---------|--------------|------------|--------------|---------|
| Fall 1986 Writing Course Level | Fall 86 | Spring 87 | Fall 87 | Spring 88 | Fall 88 |
| COLLECE 19 | | | | | |
| 3 Levels Below | | | | | |
| 2 Levels Below n= 30 | 48% | 83% | 948 | 978 | 95\$ |
| 1 Level Below n=110 | 93 | 98 | 95 | 95 | 99 |
| TOTAL n=140 | 81.3 | 95% | 95% | 95% | 98\$ |
| Av. # of Non-Remedial Units | 9 | 11 | 8 | 6 | 4 |
| COLLEGE 24 | | | | | |
| 3 Levels Below | | | | | |
| 2 Levels Below | | | | | |
| 1 Level Below n=130 | 91% | 100% | 100% | 96% | 100% |
| TOTAL n=130 | 918 | 100% | 100% | 96\$ | 100% |
| Av. # of Non-Remedial Units | 11 | 10 | 6 | 5 | 4 |
| COLLEGE 26 | | | | | |
| 3 Levels Below | | 1 | | | |
| 2 Levels Below n= 82 | 51% | 72% | 77% | 91% | 96\$ |
| 1 Level Below n= 53 | 59 | 82 | 80 | 94 | 97 |
| TOTAL n=135 | 54% | 76% | 78% | 228 | 97% |
| Av. # of Non-Remedial Units | 8 | 8 | 7 | 6 | 4 |
| COLLEGE 27 | | | | | |
| 3 Levels Below n= 10 | 59% | 68% | 94% | 76% | 80% |
| 2 Levels Below n= 27 | 60 | 74 | 93 | 88 | 93 |
| l Level Below n= 27 | 70 | 90 | 97 | 95 | 96 |
| TOTAL n= 64 | 64% | 80% | 95% | 89% | 92% |
| Av. # of Non-Remedial Units | 9 | 10 | 10 | 11 | 10 |
| COLLEGE 28 | | | | | |
| 3 Levels Below | | | | | |
| 2 Levels Below n= 12 | 73% | 75% | 89% | 98% | 100% |
| 1 Level Below n= 33 | 95 | 99 | 98 | 100 | 100 |
| TOTAL n= 45 | 89% | 93% | 96% | 100% | 100% |
| Av. # of Non-Remedial Units | 13 | 12 | 12 | 12 | 10 |



Grade Point Average Distribution for Fall 1986 Remedial Writing Students Fall 1986 through Spring 1988

| GPA | Fall 1986 | Spring 1987 | Fall 1987 | Spring 1988 | GPA | Fall 1986 | Spring 1987 | Fall 1987 | Spring 1988 |
|------------|-----------|-------------|-----------|-------------|------------|-----------|-------------|-----------|-------------|
| COLLEGE 1 | | | | | COLLEGE 19 | | | | |
| <1.0 | 21 | 4% | 18 | 0% | <1.0 | 6\$ | 8% | 34 | 14 |
| 1.0-1.9 | 13 | 18 | 23 | 24 | 1.0-1.9 | 18 | 16 | 14 | 16 |
| 2.0-2.9 | 57 | 53 | 40 | 48 | 2.0-2.5 | 44 | 41 | 48 | 42 |
| 3.0-3.9 | 25 | 20 | 32 | 20 | 3.0-3.9 | 24 | 30 | 32 | 34 |
| 4.0 | 2 | 5 | 5 | 8 | 4.0 | 8 | 5 | 3 | 7 |
| COLLEGE 7 | | | | | COLLEGE 24 | | | | |
| <1.0 | 5% | 5% | 2% | 48 | <1.0 | 7\$ | 10% | 5% | 78 |
| 1.0-1.9 | 24 | 20 | 15 | 11 | 1.0-1.9 | 17 | 23 | 30 | 26 |
| 2.0-2.9 | 55 | 50 | 53 | 62 | 2.0-2.9 | 41 | 35 | 29 | 40 |
| 3.0-3.9 | 13 | 21 | 28 | 20 | 3.0-3.9 | 25 | 22 | 30 | 16 |
| 4.0 | 3 | 4 | 2 | 3 | 4.0 | 10 | 9 | 6 | 11 |
| COLLEGE 10 | | | | | COLLEGE 26 | | | | |
| <1.0 | 6% | 3% | 28 | 0% | <1.0 | 14 | 18 | 0% | 0% |
| 1.0-1.9 | 19 | 17 | 18 | 20 | 1.0-1.9 | 13 | 16 | 18 | 18 |
| 2.0-2.9 | 37 | 37 | 44 | 42 | 2.0-2.9 | 45 | 45 | 55 | 44 |
| 3.0-3.9 | 28 | 36 | 23 | 30 | 3.0-3.9 | 38 | 34 | 17 | 26 |
| 4.0 | 11 | 6 | 12 | 8 | 4.0 | 4 | 5 | 10 | 11 |
| COLLEGE 14 | | | | | COLLEGE 27 | | | | |
| <1.0 | 7% | 5% | 5% | 3% | <1.0 | 3% | 1% | 3\$ | 2% |
| 1.0-1.9 | 22 | 16 | 17 | 15 | 1.0-1.9 | 12 | 16 | 27 | 14 |
| 2.0-2.9 | 36 | 47 | 51 | 45 | 2.0-2.9 | 48 | 47 | 38 | 50 |
| 3.0-3.9 | 30 | 23 | 23 | 30 | 3.0-3.9 | 32 | 29 | 25 | 31 |
| 4.0 | 5 | 6 | 4 | 7 | 4.0 | 6 | 6 | 8 | 3 |
| COLLEGE 15 | | | | | COLLEGE 28 | | | | |
| <1.0 | 1% | 6% | 3% | 48 | <1.0 | 11% | 6% | 8% | 5% |
| 1.0-1.9 | 20 | 24 | 25 | 18 | 1.0-1.9 | 19 | 23 | 17 | 24 |
| 2.0-2.9 | 45 | 44 | 50 | 45 | 2.0-2.9 | 43 | 47 | 46 | 51 |
| 3.0-3.9 | 25 | 26 | 22 | 27 | 3.0-3.9 | 26 | 22 | 21 | 13 |
| 4.0 | 8 | 4 | 0 | 7 | 4.0 | 1 | 6 | 8 | 8 |

Grade Point Average Distribution for Fall 1987 Remedial Reading Students Spring 1988

| Spring 88 GPA | College 2 | College 3 | College 4 | College 5 | College 7 | College 9 | College 17 | College 19 | College 20 |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|-------------|
| <1.0 | 1% | 0% | 1% | 4% | 3% | 5% | 10% | 8 % | 22 % |
| 1.0-1.9 | 15 | 24 | 16 | 24 | 23 | 21 | 26 | 27 | 16 |
| 2.0-2.9 | 50 | 39 | 52 | 46 | 51 | 51 | 44 | 31 | 28 |
| 3.0-3.9 | 24 | 27 | 25 | 17 | 19 | 22 | 18 | 27 | 24 |
| 4.0 | 9 | 10 | 6 | 9 | 3 | 2 | 2 | 8 | 9 |

| ľ | | 2 | |
|---|--|---|--|

| Spring 88 GPA | College 21 | College 22 | College 23 | College 24 | College 26 | College 27 | College 28 |
|------------------|------------|------------|------------|------------|------------|------------|------------|
| <1.0 | 3% | 2% | 48 | 3% | 0% | 3% | 0% |
| 1.0-1.9 | 36 | 18 | 25 | 26 | 13 | 15 | 0 |
| 2.0-2.9 | 26 | 41 | 47 | 50 | 54 | 52 | 60 |
| 3.0-3.9 | 32 | 30 | 23 | 17 | 29 | 25 | 40 |
| 4.0 | 3 | 9 | 1 | 5 | 4 | 6 | 0 |



College Enrollment Status for Fail 1986 Remedial Writing Course Students in Fall 1988 by Employment Status*

| | | Employmen | t Status | | | | Employmen | it Status | |
|--|-------------------------------------|-------------------------------------|------------------------------------|--------------------------------------|--|------------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|
| College Enrollment | working full-time | working part-time | not working | TOTAL | College Enrollment | working full-time | working part-time | not working | TOTAL |
| COLLEGE 1 Yes, community coll. Yes, four-year coll. yes, other No, not in college TOTAL | n=21 24% 14 5 57 41% | n=14 36% 43 7 14 28% | n=16 13% 50 6 31 | n=51 24% 33 6 37 100% | COLLEGE 27 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=30 0% 10 - 90 50% | n=14 21\$ 21 - 57 23\$ | n=16 38\$ 19 44 27\$ | n=60 15% 15 70 100% |
| COLLEGE 14 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=25 12% 0 0 88 53% | n=11 46% 18 9 27 23% | n=11 9% 18 0 73 23% | n=47 19\$ 9 2 70 | COLLEGE 28 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=18 11% 0 - 89 51% | n= 8 75% 13 - 13 23% | n= 9 11% 33 | n=35 26% 11 63 100% |
| COLLEGE 19 Yes, community coll. Yes, four-year coll. Yes, other college | n=19 11% 0 - | n= 6 33% 17 | n= 6 50% 17 | n=31 23% 7 | | 1 | <u> </u> | | |

71

100%



No, not in college TOTAL

90

61%

50

19%

33

19%

^{*}for students who were no longer enrolled in study community college and who responded to questionnaire/interview.

College Enrollment Status for Fall 1987 Remedial Reading Course Students in Fall 1988 by Employment Status*

| | | Employmen | nt Status | | | | Employmen | t Status | |
|---|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--|------------------------------------|-------------------------------------|------------------------------------|--------------------------------------|
| College Enrollment | working full-time | working part-time | not working | TOTAL | College Enrollment | working full-time | working part-time | not working | TOTAL |
| COLLEGE 2 Yes, community coll. Yes, four-year coll. yes, other No, not in college TOTAL | n=13 8% 8 15 69 50% | n= 5 40% 20 0 40 19% | n= 8 0% 0 13 88 31 | n=26 12% 8 12 69 100 | COLLEGE 9 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 2 0% 0 100 25% | n= 3 33% - 33 33 38% | n= 3 0% - 0 100 38% | n= 8 13% - 13 75 100% |
| COLLEGE 3 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=20 5% - 0 95 71% | n= 3 0% - 0 100 11% | n= 5 40% 20 40 18% | n=28 11% - 4 86 100% | COLLEGE 16 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=10 20% - - 80 53% | n= 5 20% - - 80 26% | n= 4 0% - 100 21% | n=19 16% - - 84 100% |
| COLLEGE 4 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 8 - 0% 0 100 20% | n= 9 - 0% 22 18 22% | n=24 - 13% 0 88 59% | n=41 - 7% 5 88 100% | COLLEGE 19 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 5 - - - 100% 71% | n= 1 - - 100% 14% | n= 1 - - 100% 14% | n= 7 - - 100% 100% |
| COLLEGE 5 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 9 22% - - 78 69% | n= 1 100% - - 0 78% | n= 3 33% - - 67 23% | n=13 31% - 69 100% | COLLEGE 20 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=13 8% 0 - 92 59% | n= 1 0% 100 - 0 5% | n= 8 25% 0 - 75 36% | n=22 14% 5 - 82 100% |
| COLLEGE 7 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=16 6% 6 88 62% | n= 6 67% - 33 0 23% | n≈ 4 25% - 50 25 15% | - 19 | COLLEGE 22 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 3 - - 100% 43% | n= 1 - - 100% 14% | n= 3 - - 100% 43% | n= 7 - - 100% 100% |

^{*}for students who were no longer enrolled in study communtiy college and who responded to questionnaire/interview.



College Enrollment Status for Fall 1987 Remedial Reading Course Students in Fall 1988 by Employment Status*

| | | Employmen | t Status | | | | Employmen | nt Status | |
|--|-------------------|------------------------------------|------------------------------------|--------------------------------------|--|-------------------------------|-------------------------------|----------------|------------------------|
| College Enrollment | working full-time | working part-time | not working | TOTAL | College Enrollment | working full-time | working part-time | not working | TOTAL |
| COLLEGE 23 Yes, community coll. Yes, four-year coll. yes, other No, not in college TOTAL | 4 | n= 2 0% - 50 50 18% | n= 3 33% - 0 67 27% | | COLLEGE 28 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 1 - - 100% 50% | n= 1 - - 100% 50% | | n= 2 - - 100% |
| COLLEGE 27 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | | n= 3 33% 0 - 67 21% | n= 7 0% 29 - 71 50% | n=14 14% 21 - 64 100% | | - | | | |

^{*}for students who were no longer enrolled in study community college and who responded to questionnaire/interview.



103

No, not in college

105

TCTAL

College Enrollment Status for Fall 1986 Remedial Writing Course Students in Fall 1988 by Educational Goal in Fall 1986*

| | Fall 19 | 86 Education | nal Goal | | Fall 1986 Educational Goal | | | |
|----------------------|----------------------|--------------|----------|----------------------|----------------------------|-------|-------|--|
| College Enrollment | Transfer- Related | Other | TOTAL | College Enrollment | Transfer- Related | Other | TOTAL | |
| COLLEGE 1 | n=42 | n=10 | n=52 | COLLEGE 27 | n=30 | n=31 | n=61 | |
| Yes, community coll. | 21% | 30% | 23% | Yes, community coll. | 13% | 16% | 15% | |
| Yes, four-year coll. | 41 | O | 33 | Yes, four-year coll. | 27 | 3 | 15 | |
| yes, other | 2 | 20 | 6 | Yes, other college | - | - | - | |
| No, not in college | 36 | 50 | 39 | No, not in college | 60 | 81 | 71 | |
| TOTAL | 81% | 19% | 100% | TOTAL | 49% | 51% | 100% | |
| COLLEGE 14 | n=35 | n=17 | n=52 | COLLEGE 28 | n=14 | n=22 | n=36 | |
| Yes, community coll. | 14% | 24% | 17% | Yes, community coll. | 29% | 23% | 25% | |
| Yes, four-year coll. | 17 | 12 | 15 | Yes, four-year coll. | 7 | 18 | 14 | |
| Yes, other college | 3 | 0 | 2 | Yes, other college | - | - | - | |
| No, not in college | 66 | 65 | 65 | No.not in college | 64 | 59 | 61 | |
| TOTAL | 67% | 33% | 100% | TOTAL | 39% | 618 | 100% | |
| COLLEGE 19 | n=18 | n=13 | n=31 | 1 | · | | | |
| Yes, community coll. | 22% | 23% | 23% | ľ | | | | |
| Yes, four-year coll. | 0 | 15 | 7 | | | | | |
| Yes, other college | - | | - | H | | | | |
| | | | | <u>Li</u> | | | | |

*for students who were no longer enrolled in study community college and who responded to questionnaire/interview.

71

100%

62

42%

78

58%



College Enrollment Status for Fall 1987 Remedial Reading Course Students in Fall 1988 by Educational Goal in Fall 1987*

| | Fall 1 | 987 Education | nal Goal | | Fall 19 | 87 Education | al Goal |
|---|--------------------------------------|--------------------------------------|--|--|------------------------------------|------------------------------------|-------------------------------------|
| College Enrollment | Transfer- Related | Other | TOTAL | College Enrollment | Transfer- Related | Other | TOTAL |
| COLLEGE 2 Yes, community coll. Yes, four-year coll. yes, other No, not in college TOTAL | n=20 15% 10 15 60 83% | n= 4 0% 0 0 100 17% | n=24 13\$ 8 13 67 100\$ | COLLEGE 9 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 6 - - 17% 83 75% | n= 2 - 0% 100 25% | n= 8 - 13% 88 100% |
| COLLEGE 3 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=16 13% - 6 81 76% | n= 5 0% - 0 100 24% | n=21 10% - 5 86 100% | COLLEGE 16 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 6 17% - - 83 46% | n= 7 29% - 71 54% | n=13 23% - - 77 100% |
| COLLEGE 4 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=15 - 7% 7 87 50% | n=15 - 0% 7 93 50% | n=30 - 3% 7 90 100% | COLLEGE 17 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 1 - - 100 100% | | n= 1 - - 100% 100% |
| COLLEGE 5 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n≈ 7 14% - - 86 50% | n= 7 29% - - 71 50% | n=14 21* - 79 100% | COLLEGE 19 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 4 25% - 75 57% | n= 3 0% - - 100 43% | n= 7 14% - - 86 100% |
| COLLEGE 7 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=16 31% - 25 44 70% | n= 7 0\$ - 14 86 30\$ | n=23 22\$ 22 57 100\$ | COLLEGE 20 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n=10 30% 0 - 70 48% | n=11 0% 9 - 91 52% | n=21 14% 5 - 81 100% |

^{*}for students who were no longer enrolled in study community college and who responded to questionnaire/interview.



College Enrollment Status for Fall 1987 Remedial Reading Course Students in Fall 1988 by Educational Goal in Fall 1987*

| | Fall 19 | 87 Education | al Goal | | Fall 19 | Fall 1987 Educational Goal | | | |
|--|--------------------------------|------------------------------------|--------------------------------|--|-------------------------------------|------------------------------------|--------------------------------------|--|--|
| College Enrollment | Transfer- Related | Other | TOL: L | College Enrollment | Transfer- Related | Other | TOTAL | | |
| COLLEGE 21 Yes, community coll. Yes, four-year coll. yes, other No, not in college TOTAL | n= 1 - - 100% 100% | | n= 1 - - 100% | COLLEGE 27 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 7 29% 29 - 43 58% | n= 5 0% 0 - 100 42% | n=12 17% 17 - 67 100% | | |
| Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 5 - - 100% 71% | n= 2 - - - 100% 29% | n= 7 - - 100% 100% | COLLEGE 28 Yes, community coll. Yes, four-year coll. Yes, other college No, not in college TOTAL | n= 1 - - 100% 50% | n= 1 - - 100% 50% | n= 2 - - 100% | | |
| COLLEGE 23 Yes, community coll. Yes, four-year coll. | n= 5 20% | n= 3 0% | n= 8 13% | | - | | <u> </u> | | |

88

100%



8

109

Yes, other college No, not in college

TOTAL

80

63%

100

38%

^{*}for students who were no longer enrolled in study communtiy college and who responded to questionnaire/interview.

Students "Reading More Now or Finding Reading More Enjoyable" by Pre-Test Percentile Group* Stanford Diagnostic Test Group

| Dua (Fair | | Read More N | ow/Reading N | iore Enjoyable | | | Read More No | w/Reading M | ore Enjoyable |
|----------------------------------|----|-------------|--------------|----------------------|----------------------------------|----|--------------|-------------|----------------------|
| Pre-Test Percentile Groups | | Yes | No | Other/ Don't Know | Pre-Test Percentile Groups | n | Yes | No | Other/ Don't Know |
| COLLEGE 3 | | | | | COLLEGE 23 | | | _ | |
| Low | 17 | 88\$ | 6% | 63 | Low | 4 | 100% | 0% | 0 |
| Middle | 11 | 64 | 27 | 9 | Middle | 3 | 33 | 67 | 0 |
| High | 1 | 100 | 0 | 0 | High | 2 | 100 | 0 | 0 |
| TOTAL | 29 | 79* | 14% | 78 | TOTAL | 9 | 78% | 22% | 0\$ |
| COLLEGE 4 | | | | | COLLEGE 27 | | | | |
| Low | 40 | 80% | 5% | 15% | Low | 9 | 78% | 11\$ | 118 |
| Middle | | | | | Middle | 5 | 40 | 40 | 20 |
| High | | | | } | High | _ | | | |
| TOTAL | 40 | 80\$ | 5% | 15% | TOTAL | 14 | 64% | 218 | 14% |
| COLLEGE 5 | | | | | COLLEGE 28 | | | | |
| Low | 13 | 92\$ | 0% | 84 | Low | | | | |
| Middle | 3 | 33 | 67 | 0 | Middle | 1 | 100% | 0 | 0 |
| High | | | | | High | 1 | 100 | 0 | 0 |
| TOTAL | 16 | 81% | 13% | 16% | TOTAL | 2 | 100% | 0 | 0 |
| COLLEGE 19 | | | | | | | | | |
| Low | 1 | 0% | 100% | 0 | | | | | |
| Middle High | 4 | 100 | 0 | Ö | | | | | |
| TOTAL | 5 | 808 | 20% | 0 | 1 | | | | |
| | | ī | i | B . | H | | | | |



111

^{*}for students who were no longer enrolled in study community college and who responded to questionnaire/interview.

Students "Reading More Now or Finding Reading More Enjoyable" by Pre-Test Percentile Group* NJBSCT Group

| Due Meet | | Read More N | ow/Reading M | ore Enjoyable | | | Read More No | w/Reading M | ore Enjoyable |
|---------------------------------|----|-------------|--------------|----------------------|----------------------------------|----|--------------|-------------|----------------------|
| Pre-Test Percentil Groups | | Yes | No | Other/ Don't Know | Pre-Test Percentile Groups | n | Yes | No | Other/ Don't Know |
| COLLEGE 2 | | | | | COLLEGE 16 | | | | |
| Low | 6 | 83% | 17% | 08 | Low | 3 | 67% | 0\$ | 33\$ |
| Middle | 12 | 83 | 17 | 0 | Middle | 8 | 100 | 0 | 0 |
| High | 9 | 78 | 11 | 11 | High | 3 | 67 | 33 | 0 |
| TOTAL | 27 | 82% | 15% | 4% | TOTAL | 14 | 86% | 7% | 7% |
| COLLEGE 7 | | | 1 | | COLLEGE 20 | | 1 | | |
| Low | 3 | 0% | 67% | 33% | Low | 9 | 67% | 118 | 228 |
| Middle | 12 | 75 | 17 | 8 | Middle | 5 | 40 | 20 | 40 |
| High | 8 | 50 | 50 | 0 | High | 4 | 100 | 0 | 0 |
| TOTAL | 23 | 57% | 35% | 8\$ | TOTAL | 18 | 67% | 118 | 22\$ |
| COLLEGE 9 | | | | | COLLEGE 22 | | | | |
| Low | 3 | 67% | 23% | 0% | Low | 5 | 60% | 20% | 20\$ |
| Middle | 3 | 33 | 67 | 0 | Middle | 1 | 0 | 0 | 100 |
| High | 2 | 50 | 50 | 0 | High | | | | |
| TOTAL | 8 | 50% | 50% | 0% | TOTAL | 6 | 50% | 17% | 33\$ |

*for students who were no longer enrolled in study community college and who responded to questionnaire/interview.



Appendix C

LARC

Student Outcomes Study Chronology



Student Outcomes & Curriculum Studies Chronology 1986-1989

- 1. Student Outcomes Study, Year 1/Writing, Fall 1986, 29 colleges, 7500 students, directed by Julie Slark, preliminary and final report available.
- 2. Writing Curriculum Study, Fall 1986, directed by Mary Ann Cox.
- 3. Student Outcomes Follow-up Study, Fall 1987, directed by Julie Slark, final report available.
- 4. Student Outcomes Study, Policy Paper #1, March 1988, available.
- 5. Student Outcomes Study, Year 2/Reading, Fall 1987, 28 colleges 3500 students, directed by Julie Slark, preliminary and final report available.
- 6. Reading Curriculum Study, Fall 1987, directed by Bob Barr and Carol Bogue, available.
- 7. Student Outcomes Study, Year 3/Math, Fall 1988, 23 colleges, 11,275 students directed by Bob Barr, final report available Fall 1989.
- 8. Student Outcomes & Curriculum Studies Policy Paper #2, March 1989, available.
- 9. Student Outcomes Follow-up Study, Fall 1988, directed by Julie Slark, available.



Appendix D

LARC

Background and Description



LARC Learning, Assessment, Retention Consortium of California

INTRODUCTION

Increasing student success is a major goal of the California community colleges. This goal is also the focus of LARC, the Learning, Assessment, Retention Consortium. Toward this goal, LARC provides a network for individual community colleges to address three major themes: 1) learning, 2) assessment, and 3) retention. Originating in 1981 with fourteen colleges in Northern California, the Consortium now includes six regional groups with more than 80 institutions comprising the LARC State Network in California. Each regional group is an autonomous consortium of colleges with its own officers, operating principles, and agenda. The common purpose of these groups is to translate concerns about student learning into action.

The original goal of the Consortium was to examine assessment as a framework for improving learning and retention. Four goals now guide LARC Network activities:

- 1. To maintain an information network among the member colleges.
- 2. To conduct and coordinate research activities.
- 3. To continue to refine comprehensive assessment/placement/retention models for member colleges.
- 4. To involve staff at all levels in college networks through participation in steering committees, college teams, and research projects

LARC COLLEGES

- Participate in statewide research and develop service delivery models in assessment, placement, and retention.
- Develop local and regional short- and long-term goals to improve student success.
- Develop college teams for assessment, placement, and retention.
- Contribute resources to promote training, staff development, and networking.
- Send representatives to the LARC Statewide Steering Committee.

LARC RESEARCH

- Cooperative data collection, including information on college practices in learning skills and assessment/placement activities.
- Student outcomes, follow-up, and curriculum studies in reading, writing, mathematics.



LARC ACTIVITIES

- COLLEGE TEAMS/PLANS: Many LARC colleges have organized a team of faculty and staff to develop a college plan related to learning, retention, assessment, placement and guidance. Teams review LARC data and information to apply to their own college's needs.
- MUTUAL ASSISTANCE: Through frequent contact, colleges receive information from colleagues who have established programs or plans which they might replicate.
- STATEWIDE/REGIONAL WORKSHOPS: Workshops or conferences are planned to consider issues or develop concepts useful to the member colleges. Topics have included legal issues, holistic scoring, research, evaluation, retention, assessment/ placement, student outcomes, and basic skills.
- ADVOCACY: Working with policy-makers and statewide agencies, LARC monitors and influences educational policy.

SELECTED RESEARCH PUBLICATIONS

- 1982-85 Program Guides
- Matriculation Practices, Kangas, 1986
- LARC Student Outcomes Study Final Report. Year 1, September, 1987
- LARC Student Outcomes Study: Policy Implications and Recommendations, March, 1988
- Meeting the Challenge of a Changing California, April, 1988
- Curriculum Practices in Writing Courses, Powers and Cox, April, 1988

SELECTED CONFERENCES

- Learning Skills Definitions for California Community Colleges, Statewide Conference, November, 1982
- Directions for Learning Assessment and Retention, Statewide Conference, November, 1983
- Defining Retention and Persistence, Statewide Conference, November, 1984
- LARC Regional Presentations: Admissions, Orientation, Assessment, Advisement, 1985
- Policies Plus Practices in Assessment: Today and Tomorrow, Statewide Conference, 1986
- Student Outcomes and Student Success, Statewide Conference, 1987
- Beyond Testing, San Jose, May, 1988

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ERIC Clearinghouse for Junior Colleges

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