

ACCESS TO HIGH-QUALITY, AFFORDABLE EDUCATION FOR ALL COLORADANS

# REMEDIAL EDUCATION: One-Third of Incoming College Students UNPREPARED BY K-12 High Schools 

Report to the Governor and General Assembly

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Executive Director

This report is prepared pursuant to Colorado Revised Statute C.R.S. 23-1-113.3. The report's purpose is to describe the condition of basic skills instruction in Colorado's public colleges and universities, including statewide needs for basic skills and data on assessed and remediated students collected from Colorado public higher education institutions on students assigned to college- vs. remedial-level courses.

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For information on specific high schools and their student achievement rates, including remediation data, visit: http://highered.colorado.gov/findhighschool.asp

# Remedial Education: One-Third of Incoming College Students Unprepared by K-12 High Schools 

## EXECUTIVE SUMMARY

Enrollments in Colorado's public colleges and universities are on the rise ${ }^{1}$, validating reports that more students today aspire to college than at any other time, but so too is the demand for remedial (basic skills) courses in mathematics, writing and reading, suggesting that many college-bound students continue to be inadequately prepared in high school.

According to ACT research, only 24 percent of Colorado seniors are prepared for college level biology, 36 percent for college Algebra, and 62 percent for college English (ACT Office of Policy Research, 2004b, page 3) ${ }^{2}$. In each of these categories, Colorado ranks below the national average for preparation (ACT Office of Policy Research, 2004b, page 2).

Complicating matters are the impending demographic shifts that may alter the student composition of K-12 education in Colorado. Hispanic/Latino students currently represent roughly $14 \%$ of all students enrolled in the K-12 education in Colorado. Ten years from now, in 2015, the Western Interstate Commission on Higher Education predicts that the Hispanic/Latino share of students will grow to roughly $25 \%$, raising the overall minority proportion to $36 \%$ (Western Interstate Commission on Higher Education, 2004).

In light of evidence that African-American and Hispanic/Latino students matriculate to (National Center for Education Statistics, 2005, on-line) and persist in (Colorado Commission on Higher Education, 2005, on-line) college at generally lower rates and have higher remedial education rates compared to Caucasian students (see Table 11 herein), it appears that K-12 instruction and services need to be improved to assist minority students and close the achievement gap.

The situation is compounded by the fact that students needing remediation enjoy lower graduation rates compared to students requiring none. That is, longitudinal evidence reported by the National Center for Education Statistics shows that students placed in remedial courses are less likely to earn a degree or certificate in college ( $30-57 \%$ of enrolling cohort, depending on types and amount of remediation) compared to students needing no remediation ( $69 \%$; National Center for Education Statistics, 2005a, on-line).

So why are so few Coloradans adequately prepared for and succeeding in college, and why do so many students matriculate to college needing remediation in basic subjects? The

[^0]answer may be partially explained by the fact that graduation requirements at many high schools are incongruent with contemporary postsecondary admission requirements.

Completing a rigorous high school curriculum in "core" academic subjects such as English, mathematics, natural science, and the social sciences is a necessary precondition to success in college. Recent research from the ACT Office of Policy Research corroborates this, revealing that specific courses have a profound influence on student performance in college. According to "Crisis at the Core: Preparing All Students for College and Work: Executive Summary for Colorado," courses "such as Biology, Chemistry, Physics, and upper-level mathematics beyond Algebra II—have a startling effect on student performance and college readiness" (ACT Office of Policy Research, 2004b, page 1).

Across all ethnic groups, students in Colorado who complete core academic courses perform better on college entrance examinations (Table 1), and, presumably, less often require remedial instruction. The problem is that too few high school students actually complete adequate coursework in core subjects.

Remedial education is a complicated topic, encompassing institutional, economic, social, and personal elements. Though the topic is complex, the general questions answered in this report are not. Simply, the broad goal of this report is to provide descriptive evidence to answer the following questions:
a. How well have the state's high schools prepared students for successful academic transitions to college?
b. Who needed remedial education and where did they enroll?
c. How much does remedial education cost the state and its students?

In investigating these basic questions, Commission staff uncovered the following findings:

- Between 2002-03 and 2003-04, total demand for remedial instruction among first-time students increased from $28 \%$ of all such students to $30 \%$.
- The subject with the most students assigned to remedial instruction was mathematics, but the largest one-year change was in writing.
- School districts and high schools vary considerably concerning their proportions of recent graduates assigned to remedial instruction.
- The rate of assignment to remedial instruction among two-year college students declined between 2002-03 and 2003-04, while the rate of assignment to remedial instruction among four-year college students increased during the same time.
- Female students were more often assigned to remedial instruction compared to males.
- African-American, Hispanic/Latino, and Native American students were more often assigned to remedial instruction compared to Caucasian or Asian/Pacific Islander students.
- Total General Fund (state) support for remedial instruction in 2003-04 was roughly $\$ 10.5$ million.

In summary, remedial education is a widespread challenge that cuts across all ethnic, gender, and income groups. In light of the fact that the National Center For Education Statistics believes that remediation, specifically in reading, is the "most serious barrier to degree completion" (2005a, on-line) facing our students, successfully addressing this issue is a statewide imperative requiring multi-agency collaboration and response, for access to college should not be encumbered by contradictory policies between the K-12 and postsecondary education sectors. It is time for the state to take an earnest look at the root causes of and determine the best approach to minimize remedial instructional needs among its recent high school graduates.

## How Well Does Your High School Prepare Students for College?

- How many incoming college freshmen had to take remedial courses?
- How many ninth graders were enrolled in high school fours years later?
- How well do students perform on the ACT college entrance exam?
- How many students are proficient in reading, math and writing?

To find out the answers, visit:
http://highered.colorado.gov/findhighschool.asp

# REMEDIAL EDUCATION: One-Third of Incoming College Students Unprepared by K-12 High Schools 

## INTRODUCTION

This report portrays the enrollment, placement, achievement, and persistence of entering students. Thus this report presents first the basic skills needs for the fall 2004 cohort of first-time enrolling students from Colorado public high schools, disaggregated by school district and high school. Second, this report presents two years' data on students assigned to remedial instruction, disaggregated by sector (two-year and four-year) and institution, as well as one year's data disaggregated by gender, ethnicity, and income (based upon financial aid application information). Then, this report presents data on student performance in remedial courses, including one-year institutional retention. Finally, this report concludes with the presentation of information on the costs associated with remedial education.

## I. COLLEGE PREPARATION IN COLORADO

According to a recent report entitled "The Governance Divide: A Report on a Four-State Study on Improving College Readiness and Success," published by the National Center for Public Policy and Higher Education, more than $90 \%$ of all high school seniors today aspire to higher education (Venezia et al, 2005, page viii). In spite of this encouraging figure, the reality is that too few students are well prepared for the academic rigors of college.

Academic success in postsecondary environments is related to a number of noncognitive factors, including institutional type and control (two-year or four-year, public or private), environmental engagement, personal self-efficacy and intentions, support, finances, and others (Lotkowski et al., 2004). However, no single variable has greater predictive validity with regard to readiness for and success in college than the intensity and quality of academic preparation (Adelman, 1999).

Completing a rigorous high school curriculum in "core" academic subjects such as English, mathematics, natural science, and social sciences is a necessary precondition to success in college. Recent research from the ACT Office of Policy Research corroborates this, revealing that specific courses have a profound effect on student performance in college. According to "Crisis at the Core: Preparing All Students for College and Work: Executive Summary for Colorado," courses "such as Biology, Chemistry, Physics, and upper-level mathematics beyond Algebra II—have a startling effect on student performance and college readiness" (ACT Office of Policy Research, 2004b, page 1).

Across all ethnic groups, students in Colorado who complete core academic courses perform better on college entrance examinations (Table 1), and, presumably, less often require remedial instruction. The problem is that too few students actually complete adequate coursework in core subjects.

While the foregoing may seem to suggest that a rigorous high school curriculum should be limited to students with superior abilities and motivation, a closer examination reveals that this not necessarily the case. Indeed, completing a rigorous core curriculum is an essential precondition to preparing for and succeeding in college. However, the performance of all students is improved by their enrolling in rigorous courses. Results of research by The Education Trust-West (2004) suggest that, while somewhat counterintuitive, lower performing students improve their academic performance when they are enrolled in rigorous, college preparatory courses, suggesting that there is a positive effect from simply being exposed to an engaging, rigorous curriculum.

So why are so few Coloradans adequately prepared for and succeeding in college, and why do so many students that matriculate to college eventually need remediation in basic subjects? The answer may be partially explained by the fact that graduation requirements at many high schools are incongruent with contemporary postsecondary admission requirements.

Though all of the curriculums found in Colorado's high schools are comprised of courses meeting the State Board of Education's model content standards, according to ACT research, only 24 percent of Colorado seniors are prepared for college level Biology, 36 percent are ready for college Algebra, and 62 percent for college English (ACT Office of Policy Research, 2004b, page 3$)^{3}$. In each of these categories, Colorado ranks below the national average for preparation (ACT Office of Policy Research, 2004b, page 2).

Furthermore, among Colorado high school seniors, students that are members of certain ethnic groups are much less likely to be college ready:

Colorado's Native Americans are about one and a half times less likely than the total state population to be ready for college Biology. Hispanic Americans are about two and a half times less likely, and African Americans are about five times less likely to be ready. For college Algebra, the percentages for these groups meeting the benchmark were not much higher...[And] Native Americans, Hispanic Americans, and African Americans were about one and a half to two times less likely to meet [the college readiness] benchmark than all ACT-tested Colorado students (ACT Office of Policy Research, 2004b, page 2).

The positive effect of a rigorous high school curriculum is apparent in the performance on the ACT college test, a compulsory assessment for Colorado's $11^{\text {th }}$ grade students. In 2004 (Table 1), high school juniors that enrolled in a rigorous college preparatory curriculum, or "core" curriculum, performed better on the ACT assessment compared to students not enrolled in a core curriculum. A similar disparity was found among high school seniors. That is, the "core difference" persists across the entire population of $11^{\text {th }}$ and $12^{\text {th }}$ grade students (see ACT Office of Policy Research, 2004a).

[^1]TABLE 1: ACT PERFORMANCE, 2003-04 COLORADO STUDENTS

| Class Level in <br> 2003-04 <br> Academic Year | Number <br> Tested | Average <br> Composite <br> Score | Core <br> Completers <br> Composite <br> Score | Non-Core <br> Completers <br> Composite <br> Score | Core <br> Difference |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Colorado Juniors | 47,412 | 18.8 | 21.6 | 17.7 | +3.9 |
| Colorado Seniors | 46,183 | 20.3 | 22.1 | 18.5 | +3.6 |
| National Overall | $1,171,460$ | 20.9 | 21.9 | 19.4 | +2.5 |

Source: ACT

Disparities were also found across all racial/ethnic groups among Colorado's recent high school graduates (Table 2)

TABLE 2: ACT PERFORMANCE, 2003-04 COLORADO STUDENTS, BY RACE/ETHNICITY.

| Race/Ethnicity | Core Completers <br> Composite Score | Non-Core <br> Completers <br> Composite Score | Core Difference |
| :--- | :--- | :--- | :--- |
| African American | 17.9 | 16.4 | +1.5 |
| Asian American | 21.9 | 18.3 | +3.6 |
| Caucasian | 22.9 | 19.5 | +3.4 |
| Hispanic/Latino | 18.9 | 16.1 | +2.8 |
| Native American | 19.8 | 17.2 | +2.7 |

Source: ACT

To address directly this crisis of preparation and send clear, unambiguous signals to students, parents, teachers, and counselors about how to prepare adequately for success in college, the Colorado Commission on Higher Education adopted new higher education admission requirements in 2003 (see CCHE Academic Affairs Policy I:F). According to this policy, effective fall 2008, all students seeking admission to a public four-year institution must complete fours years of English, three years of mathematics (at the Algebra I level and higher), three years of science (two years in lab-based courses), and three years of social sciences in order to qualify. Moreover, effective 2010 and all years thereafter, the mathematics requirement increases to four years at the Algebra I level or higher and two years of foreign language in the same language will be required (see Table 3).

TABLE 3: COLORADO COMMISSION ON HIGHER EDUCATION HIGHER EDUCATION ADMISSION REQUIREMENTS, 2008 \& 2010.

| Discipline | 2008 | 2010 |
| :--- | :--- | :--- |
| English (College preparatory) | 4 Years | 4 Years |
| Mathematics (Algebra I and above) | 3 Years | 4 Years |
| Natural/Physical Science (2 years lab-based) | 3 Years | 3 Years |
| History/Social Science | 3 Years | 3 Years |
| Foreign Language (In same language) | -- | 2 Years |
| Academic Electives | 2 Years | 2 Years |
| Total Years (Credits) | 15 | 18 |
| Source: CCHE Academic Affairs Policies |  |  |

Source: CCHE Academic Affairs Policies
If the 2008 admission standards had been applied to the 2004 cohort of high school seniors, only 53 percent of these students would have been eligible for regular admission to four-year institutions, according to data reported by ACT. Moreover, only 53 percent scored above the CCHE math remediation cut score (score: 19) and only 62 percent scored above the writing remediation cut score (18) (ACT Office of Policy Research, 2004a).

These discouraging statistics suggest that more needs to be done to align Colorado's $\mathrm{K}-12$ and postsecondary educational systems. Resulting from local control-a rule provided by the Colorado Constitution-Colorado's school districts have been free to adopt academic requirements often unaligned with contemporary college admission standards. Similarly culpable, prior to the adoption of the CCHE's higher education admission requirements in 2003, the postsecondary sector in Colorado historically provided only vague guidance to students and parents on how to navigate secondary curriculums and prepare for college. These circumstances, complicated unnecessarily by years of separation, impose needless barriers to curriculum alignment between high school and college that can ultimately undermine students' success.

It is a fact: If curriculums in the K-12 and postsecondary sectors are not better aligned, and students are not better prepared for college, the Colorado Paradox ${ }^{4}$ will intensify. Doing nothing in spite the evidence presented herein ensures this.

## II. COMPARISON OF STATEWIDE REMEDIATION NEEDS, FY2003 AND FY 2004

In fall 2003, the total number of first-time recent high school graduates assessed and assigned to remedial education was 7,061 or roughly 28 percent of the cohort. In fall 2004,

[^2]the number of first-time recent high school graduates assessed and assigned to remedial education increased to 8,366 students or roughly 30 percent of the cohort (Table 4). Overall, the one-year change in the remediation rate increased $5.8 \%$.

TABLE 4: COMPARISON OF STATEWIDE REMEDIATION NEEDS, BY ACADEMIC SUBJECT, 2003 AND 2004

|  | Total in Cohort | Assigned to Remediation |  | Math |  | Writing |  | Reading |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \# | \# | \% | \# | \% | \# | \% | \# | \% |
| 2003 | 25,246 | 7,061 | 27.97\% | 6,088 | 24.11\% | 2,883 | 11.42\% | 2,927 | 11.59\% |
| 2004 | 28,268 | 8,366 | 29.60\% | 6,953 | 24.60\% | 3,994 | 14.13\% | 3,834 | 13.56\% |
| ACTUAL CHANGE | +3,022 | +1,305 | $\begin{array}{r} +1.63 \\ \text { points } \\ \hline \end{array}$ | +865 | $\begin{array}{r} +0.48 \\ \text { points } \\ \hline \end{array}$ | +1,111 | $\begin{array}{r} +2.71 \\ \text { points } \\ \hline \end{array}$ | +907 | $\begin{array}{r} +1.97 \\ \text { points } \\ \hline \end{array}$ |
| CHANGE IN ENROLLMMENT | +12.0\% | +18.5\% |  | +14.2\% |  | +38.5\% |  | +31.0\% |  |
| CHANGE IN RATE |  |  | +5.8\% |  | +2.0\% |  | +23.7\% |  | +17.0\% |

Turning to the individual subjects in which students were assessed and assigned to remedial instruction, in 2004 the most common subject for remedial instruction was math, as had also been the case in 2003, but the largest change was in writing. The total proportion of students needing remedial instruction in math increased somewhat by 0.48 percentage points to 24.60 percent of all enrolling students or $2 \%$ change overall. The proportion of students assessed and assigned to writing and reading remedial instruction increased more markedly by 2.71 percentage points ( $24 \%$ change) and 1.97 percentage points ( $17 \%$ change), respectively.

Importantly, the information tabulated above is not disaggregated by instructional level. That is, because all course data are collapsed into generic categories, we cannot compare, for example, the number of students assigned to a basic arithmetic course versus a pre-college Algebra course. As a result, the numbers presented in Table 4 above and elsewhere throughout this report underestimate total remedial instruction demand, as some students may have needed only one remedial course within an academic area while others may have needed several.

## III. REMEDIATION NEEDS, BY SCHOOL DISTRICT AND HIGH SCHOOL

The need for remediation for entering students varies considerably by school district and high school. Table 5 below presents five large, medium, and small school districts ${ }^{5}$ with the highest need for remediation (see Appendix A for a complete list of school level data and Appendix B for a complete list of district level data). Table 6 shows the same information

[^3]for school districts with the lowest need for remediation. Importantly, caution should be used in interpreting the results below, as statistics for schools within school districts can vary dramatically. For example, in the state's largest school district, Jefferson County 1, the remediation need for recent college enrollees by high school varies from $1.39 \%$ at D'Evelyn High School to $72.01 \%$ at Jefferson County Open High School (see Appendix A), though the overall remedial assessment rate was $31.43 \%$. Moreover, remediation rates reflect the skills of graduates that matriculated to public colleges and universities only; that is, nonmatriculating high school graduates, dropouts, and students that enrolled in private or out-of-state colleges are not considered in the analysis.

TABLE 5: COLORADO SCHOOL DISTRICTS WITH THE HIGHEST REMEDIATION RATES,
BY NUMBER OF STUDENTS ENROLLED AT PUBLIC COLLEGES, 20046.

| School District | Enrolled <br> Students | Assigned to Remediation |  |
| :---: | :---: | :---: | :---: |
| Large School Districts (>300 Enrolled Students) |  |  |  |
| PUEBLO CITY 60 | 507 | 262 | 51.68\% |
| DENVER COUNTY 1 | 1,093 | 540 | 49.41\% |
| ADAMS-ARAPAHOE 28J | 533 | 244 | 45.78\% |
| MESA COUNTY VALLEY 51 | 592 | 223 | 37.67\% |
| NORTHGLENN-THORNTON 12 | 887 | 318 | 35.85\% |


| Medium School Districts (100 - 299 Enrolled Students) |  |  |  |
| :--- | ---: | ---: | ---: |
| HARRISON 2 | 170 | 88 | $51.76 \%$ |
| ENGLEWOOD 1 | 121 | 59 | $48.76 \%$ |
| WESTMINSTER 50 | 215 | 103 | $47.91 \%$ |
| WIDEFIELD 3 | 238 | 114 | $47.90 \%$ |
| BRIGHTON 27J | 131 | 56 | $42.75 \%$ |
| Small School Districts (25 - 99 Enrolled Students) |  |  |  |
| EAST OTERO R-1 | 73 | 47 | $64.38 \%$ |
| LAS ANIMAS RE-1 | 25 | 15 | $60.00 \%$ |
| ADAMS COUNTY 14 | 62 | 36 | $58.06 \%$ |
| TRINIDAD 1 | 53 | 30 | $56.60 \%$ |
| MAPLETON 1 | 82 | 46 | $56.10 \%$ |

[^4]TABLE 6: COLORADO SCHOOL DISTRICTS WITH THE LOWEST REMEDIATION RATES, BY NUMBER OF STUDENTS ENROLLED AT PUBLIC COLLEGES, $2004{ }^{7}$.

| School District | Enrolled <br> Students | Assigned to Remediation |  |
| :---: | :---: | :---: | :---: |
| Large School Districts (>300 Enrolled Students) |  |  |  |
| BOULDER VALLEY RE 2 | 1030 | 212 | 20.58\% |
| DOUGLAS COUNTY RE 1 | 1280 | 267 | 20.86\% |
| LITTLETON 6 | 631 | 145 | 22.98\% |
| ACADEMY 20 | 704 | 168 | 23.86\% |
| CHERRY CREEK 5 | 1684 | 437 | 25.95\% |
| Medium School Districts (100-299 Enrolled Students) |  |  |  |
| LEWIS-PALMER 38 | 188 | 28 | 14.89\% |
| CHEYENNE MOUNTAIN 12 | 164 | 26 | 15.85\% |
| ROARING FORK RE-1 | 138 | 26 | 18.84\% |
| FORT MORGAN RE-3 | 104 | 21 | 20.19\% |
| MONTROSE COUNTY RE-1J | 119 | 31 | 26.05\% |
| Small School Districts (25-99 Enrolled Students) |  |  |  |
| EAST GRAND 2 | 45 | 8 | 17.78\% |
| STRASBURG 31J | 32 | 6 | 18.75\% |
| PARK (ESTES PARK) R-3 | 39 | 8 | 20.51\% |
| BUENA VISTA R-31 | 29 | 6 | 20.69\% |
| JOHNSTOWN-MILLIKEN RE-5J | 28 | 6 | 21.43\% |

Tables $7 \& 8$ refocus the unit of analysis from the school district to the high school ${ }^{8}$, including information on remedial instruction by subject.

[^5]TABLE 7: HIGHEST REMEDIATION RATES FOR ENTERING FIRST-TIME STUDENTS, BY HIGH SCHOOL AND NUMBER OF ENROLLED STUDENTS, 200 T $^{\circ}$

| Large ( $>150$ Enrolled Students) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| High School | School District | Enrolled <br> Students |  | gned to <br> diation | Math | Writing | Reading |
| JOHN F KENNEDY HIGH SCHOOL | DENVER COUNTY 1 | 160 | 77 | 48.13\% | 66 | 40 | 29 |
| SOUTH HIGH SCHOOL | PUEBLO CITY 60 | 178 | 79 | 44.38\% | 72 | 38 | 39 |
| ARVADA HIGH SCHOOL | JEFFERSON COUNTY R-1 | 163 | 68 | 41.72\% | 60 | 22 | 25 |
| THORNTON HIGH SCHOOL | NORTHGLENN-THORNTON 12 | 186 | 76 | 40.86\% | 55 | 38 | 39 |
| RANGEVIEW HIGH SCHOOL | ADAMS-ARAPAHOE 28J | 196 | 79 | 40.31\% | 73 | 35 | 34 |
| EAST HIGH SCHOOL | DENVER COUNTY 1 | 170 | 66 | 38.82\% | 62 | 33 | 37 |
| LITTLETON HIGH SCHOOL | LITTLETON 6 | 156 | 60 | 38.46\% | 55 | 27 | 30 |
| NORTHGLENN HIGH SCHOOL | NORTHGLENN-THORNTON 12 | 202 | 76 | 37.62\% | 60 | 44 | 34 |
| STANDLEY LAKE HIGH SCHOOL | JEFFERSON COUNTY R-1 | 230 | 84 | 36.52\% | 62 | 45 | 39 |
| POMONA HIGH SCHOOL | JEFFERSON COUNTY R-1 | 236 | 84 | 35.59\% | 72 | 38 | 35 |
| Medium (50-149 Enrolled Students) |  |  |  |  |  |  |  |
| High School | School District | Enrolled <br> Students |  | gned to diation | Math | Writing | Reading |
| WEST HIGH SCHOOL | DENVER COUNTY 1 | 94 | 63 | 67.02\% | 60 | 48 | 40 |
| ABRAHAM LINCOLN HIGH SCHOOL | DENVER COUNTY 1 | 65 | 43 | 66.15\% | 37 | 30 | 28 |
| LA JUNTA HIGH SCHOOL | EAST OTERO R-1 | 73 | 47 | 64.38\% | 41 | 29 | 26 |
| SIERRA HIGH SCHOOL | HARRISON 2 | 69 | 44 | 63.77\% | 40 | 21 | 25 |
| ADAMS CITY HIGH SCHOOL | ADAMS COUNTY 14 | 57 | 36 | 63.16\% | 32 | 25 | 18 |
| EAST HIGH SCHOOL | PUEBLO CITY 60 | 67 | 42 | 62.69\% | 36 | 18 | 24 |
| CENTRAL HIGH SCHOOL | PUEBLO CITY 60 | 121 | 75 | 61.98\% | 69 | 41 | 38 |
| MONTBELLO HIGH SCHOOL | DENVER COUNTY 1 | 73 | 42 | 57.53\% | 38 | 24 | 24 |
| NORTH HIGH SCHOOL | DENVER COUNTY 1 | 82 | 47 | 57.32\% | 42 | 22 | 30 |
| TRINIDAD HIGH SCHOOL | TRINIDAD 1 | 53 | 30 | 56.60\% | 27 | 17 | 18 |
| Small (25-49 Enrolled Students) |  |  |  |  |  |  |  |
| High School | School District | Enrolled <br> Students |  | gned to diation | Math | Writing | Reading |
| JEFFERSON COUNTY OPEN HIGH SCH | JEFFERSON COUNTY R-1 | 29 | 21 | 72.41\% | 21 | 5 | 5 |
| JEFFERSON HIGH SCHOOL | JEFFERSON COUNTY R-1 | 49 | 32 | 65.31\% | 30 | 21 | 25 |
| COLORADO'S FINEST ALTERNATIVE | ENGLEWOOD 1 | 27 | 17 | 62.96\% | 17 | 7 | 7 |
| LAS ANIMAS HIGH SCHOOL | LAS ANIMAS RE-1 | 25 | 15 | 60.00\% | 12 | 10 | 7 |
| CROWLEY COUNTY HIGH SCHOOL | CROWLEY COUNTY RE-1-J | 27 | 15 | 55.56\% | 14 | 8 | 7 |
| CENTAURI HIGH SCHOOL | NORTH CONEJOS RE-1J | 47 | 24 | 51.06\% | 21 | 13 | 16 |
| FREDERICK SENIOR HIGH SCHOOL | ST VRAIN VALLEY RE 1J | 36 | 18 | 50.00\% | 13 | 10 | 10 |
| PAGOSA SPRINGS HIGH SCHOOL | ARCHULETA COUNTY 50 JT | 46 | 23 | 50.00\% | 20 | 11 | 8 |
| MONTE VISTA SENIOR HIGH SCHOOL | MONTE VISTA C-8 | 39 | 19 | 48.72\% | 19 | 9 | 8 |
| BAYFIELD HIGH SCHOOL | BAYFIELD 10 JT-R | 37 | 18 | 48.65\% | 13 | 7 | 8 |

[^6]TABLE 8: LOWEST REMEDIATION RATES FOR ENTERING FIRST-TIME STUDENTS, BY HIGH SCHOOL AND NUMBER OF ENROLLED STUDENTS, $2004^{10}$.

| Large (>150 Enrolled Students) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| High School | School District | Enrolled <br> Students |  | ned to <br> diation | Math | Writing | Reading |
| FAIRVIEW HIGH SCHOOL | BOULDER VALLEY RE 2 | 223 | 22 | 9.87\% | 13 | 9 | 6 |
| ARAPAHOE HIGH SCHOOL | LITTLETON 6 | 207 | 21 | 10.14\% | 19 | 5 | 1 |
| LEWIS-PALMER HIGH SCHOOL | LEWIS-PALMER 38 | 188 | 28 | 14.89\% | 24 | 13 | 13 |
| CHERRY CREEK HIGH SCHOOL | CHERRY CREEK 5 | 413 | 62 | 15.01\% | 44 | 26 | 26 |
| CHEYENNE MOUNTAIN HIGH SCHOOL | CHEYENNE MOUNTAIN 12 | 164 | 26 | 15.85\% | 18 | 12 | 14 |
| PONDEROSA HIGH SCHOOL | DOUGLAS COUNTY RE 1 | 235 | 41 | 17.45\% | 26 | 24 | 21 |
| CHAPARRAL HIGH SCHOOL | DOUGLAS COUNTY RE 1 | 196 | 37 | 18.88\% | 30 | 16 | 16 |
| BOULDER HIGH SCHOOL | BOULDER VALLEY RE 2 | 205 | 40 | 19.51\% | 30 | 23 | 20 |
| HIGHLANDS RANCH HIGH SCHOOL | DOUGLAS COUNTY RE 1 | 271 | 55 | 20.30\% | 37 | 26 | 24 |
| MONARCH HIGH SCHOOL | BOULDER VALLEY RE 2 | 221 | 45 | 20.36\% | 33 | 21 | 19 |
| Medium (50-149 Enrolled Students) |  |  |  |  |  |  |  |
| High School | School District | Enrolled <br> Students |  | ned to <br> diation | Math | Writing | Reading |
| D'EVELYN SENIOR HIGH SCHOOL | JEFFERSON COUNTY R-1 | 72 | 1 | 1.39\% | 0 | 0 | 1 |
| GLENWOOD SPRINGS HIGH SCHOOL | ROARING FORK RE-1 | 72 | 10 | 13.89\% | 9 | 6 | 4 |
| PLATTE CANYON HIGH SCHOOL | PLATTE CANYON 1 | 52 | 9 | 17.31\% | 8 | 6 | 2 |
| SUMMIT HIGH SCHOOL | SUMMIT RE-1 | 65 | 13 | 20.00\% | 8 | 6 | 3 |
| GREELEY CENTRAL HIGH SCHOOL | GREELEY 6 | 84 | 18 | 21.43\% | 9 | 8 | 10 |
| BRUSH HIGH SCHOOL | BRUSH RE-2(J) | 60 | 13 | 21.67\% | 10 | 5 | 9 |
| FORT MORGAN HIGH SCHOOL | FORT MORGAN RE-3 | 96 | 21 | 21.88\% | 17 | 12 | 9 |
| MONTROSE HIGH SCHOOL | MONTROSE COUNTY RE-1J | 98 | 22 | 22.45\% | 19 | 13 | 10 |
| EVERGREEN HIGH SCHOOL | JEFFERSON COUNTY R-1 | 117 | 27 | 23.08\% | 24 | 12 | 8 |
| CONIFER SENIOR HIGH SCHOOL | JEFFERSON COUNTY R-1 | 142 | 34 | 23.94\% | 30 | 13 | 10 |
| Small (25-49 Enrolled Students) |  |  |  |  |  |  |  |
| High School | School District | Enrolled <br> Students |  | ned to <br> diation | Math | Writing | Reading |
| BATTLE MOUNTAIN HIGH SCHOOL | EAGLE COUNTY RE 50 | 40 | 3 | 7.50\% | 3 | 0 | 0 |
| MIDDLE PARK HIGH SCHOOL | EAST GRAND 2 | 45 | 8 | 17.78\% | 7 | 4 | 4 |
| STRASBURG HIGH SCHOOL | STRASBURG 31J | 32 | 6 | 18.75\% | 6 | 3 | 2 |
| HOTCHKISS HIGH SCHOOL | DELTA COUNTY 50(J) | 36 | 7 | 19.44\% | 6 | 3 | 3 |
| ESTES PARK HIGH SCHOOL | PARK (ESTES PARK) R-3 | 39 | 8 | 20.51\% | 7 | 3 | 5 |
| BUENA VISTA HIGH SCHOOL | BUENA VISTA R-31 | 29 | 6 | 20.69\% | 5 | 2 | 0 |
| JEFFERSON CHARTER ACADEMY SENI | JEFFERSON COUNTY R-1 | 29 | 6 | 20.69\% | 6 | 1 | 2 |
| ROOSEVELT HIGH SCHOOL | JOHNSTOWN-MILLIKEN RE-5J | 28 | 6 | 21.43\% | 5 | 4 | 1 |
| LIMON JUNIOR-SENIOR HIGH SCHOO | LIMON RE-4J | 27 | 6 | 22.22\% | 5 | 1 | 2 |
| YUMA HIGH SCHOOL | YUMA 1 | 25 | 6 | 24.00\% | 5 | 1 | 3 |

[^7]
## IV. REMEDIATION NEEDS, BY ENROLLING INSTITUTION AND STUDENT DEMOGRAPHICS

With the notable exception of the state's combined two- and four-year institutions (Mesa State College and Adams State College), four-year institutions of higher education are prohibited from offering remedial instruction on a state-funded basis (though several offer remedial education on a cash-funded [state funds ineligible] basis or through interinstitutional agreements with community colleges). As a result, students who are enrolled at a four-year institution and assessed and assigned to remedial instruction must either (a) retake and pass an approved basic skills assessment, (b) take a basic skills course though a cash-funded program, if available, or (c) enroll in and complete required remedial instruction at a community college. Note that credit hours earned in completed remedial-level courses are not transferable into academic degree programs, such as the associate of arts or bachelor of science. Consequently, students assigned to remedial courses may fall behind their peers in amassing credit hours that apply to degree programs.

While the total proportion of students assigned to remedial instruction increased in 2004 (Table 9), the proportion of students assigned to remedial instruction within each sector type (two-year and four-year) changed in different ways. The proportion of students assigned to remedial instruction who were enrolled at two-year institutions decreased from $59.50 \%$ in 2003 to $55.06 \%$ in 2004, though the total number of students assigned to remedial instruction increased in magnitude from 3,876 students to 4,879 , reflecting overall enrollment growth or an increase in the proportion of first-time students or both in the twoyear sector. The total proportion of students assigned to remedial instruction in the fouryear sector increased by nearly one full percentage point, from $17.00 \%$ in 2003 to $17.97 \%$ in 2004.

Changes in the total proportion of students assigned to remedial instruction vary more dramatically by institution within sectors. Several smaller two-year institutions experienced dramatic changes in the proportion of students assigned to remediation, though 13 of the 15 institutions experienced overall declines in the proportion of students assigned to remedial instruction, suggesting that community colleges attracted more able and better prepared firsttime 17, 18, and 19 year-old students in 2004 compared to the previous year. Generally speaking, and excluding the institutions enrolling fewer than 200 students in 2004, which are very susceptible to dramatic statistical swings resulting from their smaller size, the proportion of students assigned to remedial instruction in the two-year sector ranges from about $52 \%$ to $68 \%$, with an overall mean rate of $55.06 \%$.

Again excluding Adams State College and Mesa State College, both of which maintain twoyear and four-year academic programs, the total proportion of students assigned to remedial instruction at four-year institutions varied dramatically between $.53 \%$ at the University of Colorado at Colorado Springs to $52.44 \%$ at Metropolitan State College of Denver, the state's only "modified open enrollment" institution. To a large degree, the differences in proportions of students assigned to remedial instruction reflect institutions' varying, statutorily defined roles and missions. That is, the "modified open" and "moderately
selective" institutions (Adams State College, Fort Lewis College ${ }^{11}$, Mesa State College, Metropolitan State College of Denver, and Western State College) typically had higher proportions, while the "selective" and "highly selective institutions" (Colorado School of Mines, Colorado State University System, University of Colorado System, and the University of Northern Colorado) typically had smaller proportions. Nonetheless, regardless of institutional selectivity, every institution in the Colorado public higher education system assigned at least one first time student to remedial instruction.

[^8]TABLE 9: FIRST-TIME FRESHMAN ASSIGNED TO REMEDIAL COURSES, BY SECTOR AND INSTITUTION, $2003 \& 2004$.

|  | 2004 |  |  | 2003 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sector / Institution | Number of 1st Time Students* | Assigned to Remediation in at least one subject |  | Number of 1st Time Students* | Assigned to Remediation in at least one subject |  |
| Two Year Public | \# | \# | \% | \# | \# | \% |
| Aims Community College | 475 | 245 | 51.58\% | 395 | 154 | 38.99\% |
| Arapahoe Community College | 732 | 448 | 61.20\% | 496 | 329 | 66.33\% |
| Colorado Mountain College | 89 | 39 | 43.82\% | 28 | 15 | 53.57\% |
| Colorado Northwestern Community College | 159 | 37 | 23.27\% | 130 | 71 | 54.62\% |
| Community College of Aurora | 523 | 309 | 59.08\% | 389 | 258 | 66.32\% |
| Community College of Denver | 1,203 | 500 | 41.56\% | 536 | 454 | 84.70\% |
| Front Range Community College | 2,023 | 1,147 | 56.70\% | 1,576 | 932 | 59.14\% |
| Lamar Community College | 258 | 133 | 51.55\% | 126 | 73 | 57.94\% |
| Morgan Community College | 139 | 18 | 12.95\% | 76 | 42 | 55.26\% |
| Northeastern Junior College | 379 | 222 | 58.58\% | 422 | 251 | 59.48\% |
| Otero Junior College | 248 | 160 | 64.52\% | 242 | 160 | 66.12\% |
| Pikes Peak Community College | 1,218 | 765 | 62.81\% | 915 | 311 | 33.99\% |
| Pueblo Community College | 377 | 258 | 68.44\% | 328 | 273 | 83.23\% |
| Red Rocks Community College | 763 | 410 | 53.74\% | 596 | 359 | 60.23\% |
| Trinidad State Junior College | 276 | 188 | 68.12\% | 259 | 194 | 74.90\% |
| Two Year Total | 8,862 | 4,879 | 55.06\% | 6,514 | 3,876 | 59.50\% |
| Four Year Public | \# | \# | \% | \# | \# | \% |
| Adams State College | 367 | 195 | 53.13\% | 383 | 125 | 32.64\% |
| Colorado School of Mines | 732 | 31 | 4.23\% | 678 | 19 | 2.80\% |
| Colorado State University | 4,024 | 134 | 3.33\% | 3,728 | 113 | 3.03\% |
| Colorado State University - Pueblo | 729 | 360 | 49.38\% | 635 | 346 | 54.49\% |
| Fort Lewis College | 918 | 423 | 46.08\% | 868 | 271 | 31.22\% |
| Mesa State College | 1,063 | 541 | 50.89\% | 927 | 368 | 39.70\% |
| Metropolitan State College of Denver | 1,947 | 1,021 | 52.44\% | 1,746 | 1,068 | 61.17\% |
| University of Colorado - Boulder | 5,115 | 59 | 1.15\% | 5,542 | 87 | 1.57\% |
| University of Colorado - Colorado Springs | 945 | 5 | 0.53\% | 913 | 9 | 0.99\% |
| University of Colorado - Denver | 706 | 188 | 26.63\% | 644 | 313 | 48.60\% |
| University of Northern Colorado | 2,382 | 353 | 14.82\% | 2,064 | 278 | 13.47\% |
| Western State College | 478 | 177 | 37.03\% | 604 | 188 | 31.13\% |
| Four Year Total | 19,406 | 3,487 | 17.97\% | 18,732 | 3,185 | 17.00\% |
| Grand Total | 28,268 | 8,366 | 29.60\% | 25,246 | 7,061 | 27.97\% |

Source: CCHE SURDS UAF 2003 \& 2004
Turning to differences in remedial instructional needs based upon demographics of enrolling students, Table 10 presents data on the differences in students assigned to remedial instruction disaggregated by gender and institutional sector. This table reveals that female students, as a group, were more often assigned to remedial instruction than were male students. This disparity is present at both the two-year and four-year institutional sectors.

TABLE 10: FIRST-TIME MATRICULATED HIGH SCHOOL STUDENTS ASSIGNED TO AT LEAST ONE REMEDIAL COURSE, BY SECTOR AND GENDER, 2004.

|  | \# of Students | Students Assigne at Least O | Remediation in iscipline | Students Re Remed | $\begin{aligned} & \text { uiring No } \\ & \text { tion } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \# of Students | \% of Group | \# of Students | \% of Group |
| Two Year Public Institution |  |  |  |  |  |
| Female | 4,653 | 2,643 | 56.80\% | 860 | 18.48\% |
| Male | 4,198 | 2,227 | 53.05\% | 990 | 23.58\% |
| Total | 8,851 | 4,870 | 55.02\% | 1,850 | 20.90\% |
| Four Year Public Institution |  |  |  |  |  |
| Female | 10,092 | 2,015 | 19.97\% | 7,568 | 74.99\% |
| Male | 9,314 | 1,472 | 15.80\% | 7,513 | 80.66\% |
| TOTAL | 19,406 | 3,487 | 17.97\% | 15,081 | 77.71\% |

Disparities in remedial instructional needs are also found when the data are disaggregated by ethnicity (Table 11). Excluding Non-resident Alien students, African-American, Hispanic/Latino, and Native American students were assigned to remedial instruction more often than were Asian or Pacific Islander and White, non-Hispanic students. And at the two-year sector level, seven out of ten (70.41\%) first-time African-American students were assigned to remedial instruction.

At the four-year sector level, the proportions of African-American, Hispanic/Latino, and Native American students assigned to remedial instruction were two to three times greater than the similar proportion of White, non-Hispanic or Asian or Pacific Islander students.

## TABLE 11: FIRST-TIME MATRICULATED HIGH SCHOOL STUDENTS ASSIGNED TO AT LEAST ONE REMEDIAL COURSE, BY SECTOR AND ETHNICITY, 2004

|  | \# of Students | Students Assigned to Remediation in at Least One Discipline |  | Students Requiring No Remediation |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \# of Students | \% of Group | \# of Students | \% of Group |
| Two Year Public Institution |  |  |  |  |  |
| ASIAN OR Pacific Islander | 269 | 134 | 49.81\% | 56 | 20.82\% |
| African-American, non-Hispanic | 463 | 326 | 70.41\% | 34 | 7.34\% |
| Hispanic/Latino | 1,509 | 950 | 62.96\% | 192 | 12.72\% |
| Native American | 118 | 68 | 57.63\% | 20 | 16.95\% |
| Non-Resident Alien | 109 | 86 | 78.90\% | 9 | 8.26\% |
| White, non-Hispanic | 6,052 | 3,157 | 52.16\% | 1,452 | 23.99\% |
| Unknown Ethnicity | 342 | 158 | 46.20\% | 88 | 25.73\% |
| Total | 8,862 | 4,879 | 55.06\% | 1,851 | 20.89\% |
| Four Year Public Institution |  |  |  |  |  |
| Asian or Pacific Islander | 914 | 159 | 17.40\% | 733 | 80.20\% |
| African-American, non-Hispanic | 510 | 216 | 42.35\% | 281 | 55.10\% |
| Hispanic/Latino | 1,821 | 637 | 34.98\% | 1,114 | 61.18\% |
| Native American | 317 | 149 | 47.00\% | 162 | 51.10\% |
| Non-Resident Alien | 98 | 23 | 23.47\% | 52 | 53.06\% |
| White, NON-HISPANIC | 14,932 | 2,155 | 14.43\% | 12,112 | 81.11\% |
| Unknown Ethnicity | 814 | 148 | 18.18\% | 627 | 77.03\% |
| Total | 19,406 | 3,487 | 17.97\% | 15,081 | 77.71\% |

Finally, Figure 1 illustrates the relationship between students' adjusted gross income (AGI) and assignment to remedial courses. Though the data used in this analysis are limited to financial aid recipients only and therefore are not representative of all students enrolled in remedial courses, the data in this sample are constructive nonetheless. Data in Figure 1 are disaggregated into each of four AGI ranges-under $\$ 25,000, \$ 25,000-44,999, \$ 45,000-$ 75,000 , and greater than $\$ 75,000$-and then again by college sector (two-year and four-year). As has been seen elsewhere in this report, community college students were more often assigned to remedial courses compared to students at four-year institutions. Several other trends within the data are worth mentioning, however.

First, the proportions of students from the lowest AGI group ( $<\$ 25,000$ ) assigned to remedial courses were dramatically lower compared to corresponding groups within the other AGI categories. While a full analytical exploration of this point is beyond the scope of this descriptive report, this somewhat counterintuitive finding is perhaps explained by the fact that students from the lowest income families are less likely to complete high school compared to students from more affluent families (National Center for Education Statistics, 2000, on-line) and, for those who do complete high school, are less likely to matriculate to college (National Center for Education Statistics, 2005a, on-line). Consequently, it is possible that the lower remediation rate for the lowest AGI group illustrates that only the most well prepared students from very low income families enroll in college immediately following high school, or, stated conversely, the less well prepared or able high school
graduates from the lowest AGI families are more inclined to pursue work over postsecondary education.

FIGURE 1: REMEDIATION RATES, BY SECTOR AND ADJUSTED GROSS INCOME ${ }^{12}$, 2004.


Source: CCHE SURDS Financial Aid Files, 2004.

Another point of interest is that, while the total proportion of students from the highest three AGI categories who enrolled in community colleges needing remediation is relatively consistent, the remediation rate for these students at the four-year sector and, consequently the overall remediation rate, decline steadily from the $\$ 25,000-45,000$ AGI group to the $>\$ 75,000$ AGI group. This trend is noteworthy, as preparation for college-level work appears to be related to income. Nonetheless, the fact remains: remedial education is a widespread need that cuts across all ethnic, gender, and income groups.

[^9]
## V. REMEDIATION ACHIEVEMENT, BY ENROLLING INSTITUTION

Data in Tables 12 and 13 below illustrate students' achievement in remedial-level courses, by sector and institution, for both the spring 2004 (Table 12) and fall 2004 (Table 13) academic terms. While institutional differences exist, perhaps the most salient aspect of the table is the fact that the two-year sector overall enjoyed a higher overall pass rate in remedial-level courses in English and reading compared to the four-year sector, in spite of the fact that many more students in the two-year sector enrolled in remedial level courses.

TABLE 12: ACHIEVEMENT IN REMEDIAL-LEVEL COURSES, BY SECTOR AND INSTITUTION, SPRING 2004.

| Institution Name | Mathematics |  |  | English |  |  | READING |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Passed |  | Total | $\begin{gathered} \# \\ \text { Passed } \end{gathered}$ | \% Passed | Total | Passed | Passed |
| Two Year Public |  |  |  |  |  |  |  |  |  |
| Aims Community College | 429 | 301 | 70.16\% | 81 | 54 | 66.67\% | 163 | 113 | 69.33\% |
| Arapahoe Community College | 670 | 486 | 72.54\% | 356 | 223 | 62.64\% | 250 | 167 | 66.80\% |
| Colorado Mountain College | 230 | 189 | 82.17\% | 124 | 98 | 79.03\% | 86 | 69 | 80.23\% |
| Colorado Northwestern CC | 139 | 106 | 76.26\% | 52 | 39 | 75.00\% | 33 | 30 | 90.91\% |
| Community College of Aurora | 822 | 548 | 66.67\% | 490 | 349 | 71.22\% | 275 | 205 | 74.55\% |
| Community College of Denver | 2,200 | 1,364 | 62.00\% | 1,065 | 674 | 63.29\% | 768 | 547 | 71.22\% |
| Front Range CC | 1,933 | 1,291 | 66.79\% | 1,066 | 804 | 75.42\% | 304 | 222 | 73.03\% |
| Lamar Community College | 80 | 50 | 62.50\% | 36 | 23 | 63.89\% | 24 | 12 | 50.00\% |
| Morgan Community College | 125 | 108 | 86.40\% | 42 | 34 | 80.95\% | 24 | 19 | 79.17\% |
| Northeastern Junior College | 188 | 134 | 71.28\% | 87 | 76 | 87.36\% | 43 | 37 | 86.05\% |
| Otero Junior College | 200 | 145 | 72.50\% | 159 | 119 | 74.84\% | 139 | 112 | 80.58\% |
| Pikes Peak Community College | 1,908 | 1,254 | 65.72\% | 817 | 516 | 63.16\% | 267 | 200 | 74.91\% |
| Pueblo Community College | 1,383 | 923 | 66.74\% | 587 | 383 | 65.25\% | 370 | 239 | 64.59\% |
| Red Rocks Community College | 594 | 427 | 71.89\% | 215 | 168 | 78.14\% | 80 | 58 | 72.50\% |
| Trinidad State Junior College | 232 | 158 | 68.10\% | 103 | 68 | 66.02\% | 95 | 75 | 78.95\% |
| 2 YEAR SUBTOTAL | 11,133 | 7,484 | 67.22\% | 5,280 | 3,628 | 68.71\% | 2,921 | 2,105 | 72.06\% |
| Four Year Public |  |  |  |  |  |  |  |  |  |
| Adams State College | 170 | 83 | 48.82\% | 22 | 5 | 22.73\% | 16 | 10 | 62.50\% |
| Colorado School of Mines* | -- | -- | -- | 4 | 4 | 100.00\% | -- | -- | -- |
| CSU - Pueblo | 346 | 147 | 42.49\% | 53 | 38 | 71.70\% | 25 | 17 | 68.00\% |
| Fort Lewis College | 237 | 175 | 73.84\% | 23 | 21 | 91.30\% | 12 | 11 | 91.67\% |
| Mesa State College | 634 | 378 | 59.62\% | 177 | 99 | 55.93\% | -- | -- | -- |
| CU - Colorado Springs | 12 | 8 | 66.67\% | 9 | 8 | 88.89\% | -- | -- | -- |
| University of Northern CO | 57 | 30 | 52.63\% | -- | -- | -- | -- | -- | -- |
| Western State College | 71 | 40 | 56.34\% | 20 | 13 | 65.00\% | -- | -- | -- |
| 4 YEAR SUBTOTAL | 1,527 | 861 | 56.39\% | 308 | 188 | 61.04\% | 53 | 38 | 71.70\% |
| GRAND TOTAL | 12,660 | 8,345 | 65.92\% | 5,588 | 3,816 | 68.29\% | 2,974 | 2,143 | 72.06\% |

*CSM course is in basic skills.
Source: CCHE SURDS Remedial Course File, Spring 2004

TABLE 13: ACHIEVEMENT IN REMEDIAL-LEVEL COURSES, BY SECTOR AND INSTITUTION, FALL 2004.

| Institution Name | Mathematics |  |  | ENGLISH |  |  | Reading |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | $\begin{gathered} \# \\ \text { Passed } \end{gathered}$ | $\begin{gathered} \% \\ \text { Passed } \end{gathered}$ | Total | $\begin{gathered} \# \\ \text { Passed } \end{gathered}$ | \% Passed | Total | $\begin{gathered} \# \\ \text { Passed } \end{gathered}$ | $\begin{gathered} \% \\ \text { Passed } \end{gathered}$ |
| Two Year Public |  |  |  |  |  |  |  |  |  |
| Aims Community College | 543 | 363 | 66.85\% | 160 | 110 | 68.75\% | 236 | 163 | 69.07\% |
| Arapahoe Community College | 905 | 618 | 68.29\% | 524 | 355 | 67.75\% | 375 | 266 | 70.93\% |
| Colorado Mountain College | 501 | 288 | 57.49\% | 294 | 180 | 61.22\% | 206 | 120 | 58.25\% |
| Colorado Northwestern CC | 197 | 160 | 81.22\% | 86 | 64 | 74.42\% | 60 | 52 | 86.67\% |
| Community College of Aurora | 861 | 591 | 68.64\% | 533 | 397 | 74.48\% | 264 | 198 | 75.00\% |
| Community College of Denver | 2,476 | 1,601 | 64.66\% | 1,399 | 964 | 68.91\% | 1,102 | 804 | 72.96\% |
| Front Range Community College | 2,099 | 1,431 | 68.18\% | 1,246 | 954 | 76.57\% | 364 | 289 | 79.40\% |
| Lamar Community College | 101 | 59 | 58.42\% | 61 | 42 | 68.85\% | 46 | 28 | 60.87\% |
| Morgan Community College | 119 | 103 | 86.55\% | 57 | 43 | 75.44\% | 40 | 31 | 77.50\% |
| Northeastern Junior College | 276 | 209 | 75.72\% | 158 | 123 | 77.85\% | 92 | 70 | 76.09\% |
| Otero Junior College | 264 | 213 | 80.68\% | 190 | 143 | 75.26\% | 137 | 104 | 75.91\% |
| Pikes Peak Community College | 2,193 | 1,447 | 65.98\% | 1,035 | 744 | 71.88\% | 401 | 302 | 75.31\% |
| Pueblo Community College | 1,562 | 1,094 | 70.04\% | 668 | 477 | 71.41\% | 487 | 324 | 66.53\% |
| Red Rocks Community College | 677 | 471 | 69.57\% | 285 | 219 | 76.84\% | 97 | 76 | 78.35\% |
| Trinidad State Junior College | 291 | 211 | $72.51 \%$ | 159 | 124 | 77.99\% | 165 | 125 | 75.76\% |
| 2 YEAR SUBTOTAL | 13,065 | 8,859 | 67.81\% | 6,855 | 4,939 | 72.05\% | 4,072 | 2,952 | $72.50 \%$ |
| Four Year Public |  |  |  |  |  |  |  |  |  |
| Adams State College | 219 | 84 | 38.36\% | 55 | 33 | 60.00\% | 59 | 38 | 64.41\% |
| Colorado School of Mines* | 1 | 0 | 0.00\% | 18 | 18 | 100.00\% | -- | -- | -- |
| CSU - Pueblo | 418 | 169 | 40.43\% | 211 | 157 | 74.41\% | 99 | 83 | 83.84\% |
| Fort Lewis College | 454 | 343 | 75.55\% | 183 | 155 | 84.70\% | 91 | 81 | 89.01\% |
| Mesa State College | 694 | 436 | 62.82\% | 465 | 342 | 73.55\% | -- | -- | -- |
| CU - Colorado Springs | 41 | 12 | 29.27\% | 43 | 42 | 97.67\% | -- | -- | -- |
| University of Northern CO | 163 | 88 | 53.99\% | -- | -- | -- | -- | -- | -- |
| Western State College | 72 | 44 | 61.11\% | 20 | 15 | 75.00\% | -- | -- | - |
| 4 YEAR SUBTOTAL | 2,062 | 1,176 | 57.03\% | 995 | 762 | 76.58\% | 249 | 202 | 81.12\% |
| GRAND TOTAL | 15,127 | 10,035 | 66.34\% | 7,850 | 5,701 | 72.62\% | 4,321 | 3,154 | 72.99\% |

*CSM course is in basic skills.
Source: CCHE SURDS Remedial Course File, Fall 2004

The retention rates of students assigned to remedial courses are presented in Table 14 and Figure 2 below. Students at four-year institutions were retained at higher rates compared to students at two-year institutions. This is not altogether unexpected, as students at four-year institutions generally have fewer academic deficiencies compared to students at two-year institutions. Excluding Colorado Mountain College, where few students were assigned to remediation, most two-year institutions enjoyed strong retention of students assigned to remedial courses. As Figure 2 shows, in fall 2004, the retention rate of two-year students assigned to remedial instruction ( $59 \%$ ) surpassed the overall two-year sector retention rate (55\%).

The retention rates of students assigned to remediation at four-year institutions varied considerably, but follow predictable patterns related to institutional selectivity; that is, more selective institutions enroll fewer students needing remedial instruction and, historically, enjoy higher overall retention rates. Consequently, retention rates at Colorado State University ( $85 \%$ ), the University of Colorado - Boulder ( $90 \%$ ), and the Colorado School of Mines (79\%) were roughly ten to twenty percentage points higher than those at moderately selective institutions.

FIGURE 2: COMPARISON OF ONE-YEAR RETENTION RATES, BY SECTOR: STUDENTS ASSIGNED TO REMEDIATION VERSUS ALL STUDENTS, FALL 2003 TO FALL 2004.


Source: CCHE SURDS Enrollment Files

TABLE 14: ONE-YEAR RETENTION OF FIRST-TIME RECENT HIGH SCHOOL GRADUATES ASSIGNED TO REMEDIAL COURSES, BY SECTOR AND INSTITUTION, FALL 2003 TO FALL 2004.

| Institution Name/Sector | Assigned to remediation in at least one subject | Retained After One Year* | Percent <br> Retained |
| :---: | :---: | :---: | :---: |
| Two Year Public Institutions | \# | \# | \% |
| Aims Community College | 154 | 85 | 55.19\% |
| Arapahoe Community College | 329 | 177 | 53.80\% |
| Colorado Mountain College | 15 | 1 | 6.67\% |
| Colorado Northwestern Community College | 71 | 36 | 50.70\% |
| Community College of Aurora | 258 | 147 | 56.98\% |
| Community College of Denver | 454 | 274 | 60.35\% |
| Front Range Community College | 932 | 550 | 59.01\% |
| Lamar Community College | 73 | 45 | 61.64\% |
| Morgan Community College | 42 | 30 | 71.43\% |
| Northeastern Junior College | 251 | 166 | 66.14\% |
| Otero Junior College | 160 | 102 | 63.75\% |
| Pikes Peak Community College | 311 | 179 | 57.56\% |
| Pueblo Community College | 273 | 155 | 56.78\% |
| Red Rocks Community College | 359 | 216 | 60.17\% |
| Trinidad State Junior College | 194 | 103 | 53.09\% |
| Two Year Total | 3,876 | 2,266 | 58.46\% |
| Four Year Public Institutions | \# | \# | \% |
| Adams State College | 125 | 86 | 68.80\% |
| Colorado School of Mines | 19 | 15 | 78.95\% |
| Colorado State University | 113 | 96 | 84.96\% |
| Colorado State University - Pueblo | 346 | 243 | 70.23\% |
| Fort Lewis College | 271 | 167 | 61.62\% |
| Mesa State College | 368 | 244 | 66.30\% |
| Metropolitan State College of Denver | 1,068 | 726 | 67.98\% |
| University of Colorado - Boulder | 87 | 78 | 89.66\% |
| University of Colorado - Colorado Springs | 9 | 6 | 66.67\% |
| University of Colorado - Denver | 1 | - | 0.00\% |
| University of Northern Colorado | 278 | 234 | 84.17\% |
| Western State College | 188 | 130 | 69.15\% |
| Four Year Total | 2,873 | 2,025 | 70.48\% |
| Grand Total | 6,749 | 4,291 | 63.58\% |

## VI. REMEDIATION COSTS, BY ENROLLING INSTITUTION

Data presented in Table 15 reveal the total costs of providing remedial instruction in fiscal year 2003-04. Overall, the general fund tax dollars spent on remediation totaled nearly $\$ 11$ million. Local district colleges-Aims Community College and Colorado Mountain College-spent $\$ 707,000$ on remedial instruction, and cash funded (state funds ineligible) courses offered by the University of Colorado at Colorado Springs, the University of Northern Colorado, and Western State College cost a total of $\$ 84,000$. Overall, the public and cash-funded direct investment in remedial instruction totaled $\$ 11.4$ million.

Importantly, the figures presented in Table 15 do not take into consideration total direct and indirect costs to students enrolled in remedial courses. In other words, the figures do not consider tuition and fees above state or local district support, housing costs, books and other like expenses, or, perhaps most costly in the long run, earnings foregone. Concerning this final cost type, it is important to appreciate that being placed in remedial instruction can have a high indirect cost to students. The time spent in non-transferable courses (i.e., not applicable to a degree program) can impede students' academic progress, may increase time to degree, and can lead to increased earnings foregone (time out of the workforce).

To better appreciate this cost type, assume that the average college graduate earns an income consistent with the current national median for adults with a bachelor's degree, currently $\$ 42,087$ according to the Current Population Study of the U.S. Census and Bureau of Labor Statistics (2005, on-line). This salary is equivalent to $\$ 3,507$ in monthly earnings or $\$ 877$ per week. Therefore, for each 15 -week semester that a would-be college graduate remains in college and not in the workforce, the long term cost in earnings foregone to the student is $\$ 13,152$ minus any income the student earns while in college. Equivalently, the cost to the state for the same student is tax revenues foregone on the student's earnings while enrolled in college compared to his or her potential earnings as a college graduate. And, if the student never finishes college, the costs to the student and the state "increase," as the sunk costs may be irretrievable through individual and state returns to degree ${ }^{13}$. Indeed, the costs of remedial instruction can be high.

[^10]TABLE 15: REMEDIAL EDUCATION EXPENDITURES, BY SECTOR, FUND TYPE, AND INSTITUTION, 2004.

| Institution Name | Total Credit Hours | Total Remedial FTE | Remedial <br> Instruction Cost |
| :---: | :---: | :---: | :---: |
| TWO YEAR PUBLIC |  |  |  |
| Arapahoe Community College | 9,010 | 300 | \$577,825 |
| Colorado Northwestern Community College | 1,805 | 60 | 283,747 |
| Community College of Aurora | 9,715 | 324 | 623,615 |
| Community College of Denver | 26,583 | 886 | 1,723,804 |
| Front Range Community College | 22,262 | 742 | 1,159,279 |
| Lamar Community College | 1,022 | 34 | 149,863 |
| Morgan Community College | 1,498 | 50 | 181,197 |
| Northeastern Junior College | 2,533 | 84 | 319,660 |
| Otero Junior College | 3,484 | 116 | 369,076 |
| Pikes Peak Community College | 19,811 | 660 | 1,228,014 |
| Pueblo Community College | 14,914 | 497 | 1,177,266 |
| Red Rocks Community College | 5,934 | 198 | 371,077 |
| Trinidad State Junior College | 3,060 | 102 | 377,806 |
| Two Year Subtotal | 121,631 | 4,054 | \$8,542,230 |


| FOUR YEAR PUBLIC |  |  |  |
| :--- | ---: | ---: | ---: |
| Adams State College | 1,548 | 52 | $\$ 354,080$ |
| Colorado State University - Pueblo* | 4,220 | 141 | 510,372 |
| Fort Lewis College*\# | 2,174 | 72 | 197,146 |
| Mesa State College | 8,434 | 281 | $1,034,650$ |
|  | 16,376 | 546 | $\$ 2,096,249$ |
| Four Year Subtotal |  |  |  |
| Grand Total Public General Fund | 138,007 | 4,600 | $\$ 10,638,478$ |

TWO YEAR LOCAL DISTRICT COLLEGES

| Aims Community College | 4,500 | 150 | \$270,900 |
| :---: | :---: | :---: | :---: |
| Colorado Mountain College | 5,318 | 177 | 436,076 |
| Local District College Subtotal | 9,818 | 327 | \$706,976 |
| FOUR YEAR PUBLIC - CASH FUNDED COURSES |  |  |  |
| University of Colorado - Colorado Springs** | 209 | 7 | \$15,750 |
| University of Northern Colorado*** | 660 | 22 | 46,200 |
| Western State College**** | 366 | 12 | 21,960 |
| 4 Year Cash Funded Subtotal | 1235 | 41 | \$83,910 |
| Grand Total Tuition \& General Fund Costs | 149,060 | 4,969 | \$11,429,364 |

*Remedial Courses Offered by PCC
** Students pay a flat fee of $\$ 150.00 /$ course
***Students pay $\$ 70.00 /$ credit hour
**** Students pay a flat fee of $\$ 180.00 /$ course
\# does not include FLC's Spring 05 students taking remedial courses Source: CCHE SURDS Fall 2004 FTE Enrollment File \& Remedial Files.

## VIII CONCLUSIONS AND RECOMMENDATIONS

College enrollments are on the rise, confirming reports that more students today aspire to college than at any other time, but so too is the demand for remedial (basic skills) courses in mathematics, writing and reading, suggesting that the state's "college-bound" students are not being adequately prepared in high school.

Complicating matters, the need for remediation is differentially related to distinct groups of students: female students require remediation more often than male students; AfricanAmerican, Hispanic/Latino, and Native American students require remediation more often than Asian and Caucasian students; and students enrolled at two-year and less-selective fouryear colleges need remediation more often compared to students enrolled at selective and highly selective four-year colleges.

Placement in remedial courses varies considerably across school districts and high schools throughout the state, possibly illustrating the effect of secondary curriculum policies incongruent with postsecondary preparation expectations.

In total, the annual direct costs to provide basic skills instruction exceeds ten million dollars of general fund tax dollar support and nearly an additional one million dollars in cash-funded courses paid for by students and parents or local district college tax revenues. However, the long-term costs to students and the state in the form of earnings and tax revenues foregone likely exceed the direct costs many times over.

It is plain: reducing the need for remediation among Colorado's first-time students is a noteworthy public policy matter that, if successfully addressed, could lead to improved student performance in college, reduced time to complete a college degree, and diminished disparities regarding participation and success across gender and racial/ethnic groups.

The following represent specific actions items state policymakers and educators should consider to reduce the demand for remedial instruction:

Improve Alignment As a matter of routine, postsecondary and K-12 instructors and administrators should discuss and align the content standards between in the secondary and college-level sectors. Aligning standards and expectations in critical content areas like mathematics, English, science, history (social sciences), and foreign languages would make apparent the skills needed to prepare for and succeed in college.

College Prep Curriculum Default High schools and school districts could increase students' readiness for college-level coursework or the workforce by simply requiring each high school graduate to complete the state's higher education admission requirements as part of his or her compulsory secondary-level curriculum.

Raise Expectations If standards are held at the level of the lowest common educational denominator, students will likely respond accordingly, resulting in less than optimal outcomes and protracting the Colorado Paradox. State policymakers, educators, school board members, and, most important, parents, should raise their expectations, insisting that
all students are offered the opportunity to enroll in and complete a curriculum that, minimally, meets the higher education admission requirements.

Improve College Knowledge: Today, we know more about what it takes to succeed in college than we did twenty years ago when "A Nation at Risk" (National Commission on Excellence in Education, 1983) sounded the alarm regarding the inferior quality of education that our current high school students' parents received. To complicate matters, school district policies seemingly assume that parents today have the requisite knowledge (i.e., social capital) to make appropriate academic decisions for their children. This is often mistaken and contradicts the rhetoric about proactively addressing the Colorado Paradox. Improving parents' knowledge of contemporary expectations concerning college preparation should be a principal state goal.

Create Early Warning Systems Students struggle with challenging and abstract concepts. This is normal. Choosing to dropout or tune out, however, is not. If the Colorado Paradox is ever to be reversed, then our K-12 system must do a better job identifying and dealing with basic academic deficiencies before the student's first year in college. Teachers and school administrators should use currently administered assessments like the ACT or CSAP to determine the likelihood that a student will need remediation in college. This information should be shared with students' parents as early and often as is practical.

Permit the Sharing of Data Various state agencies currently house millions and millions of records on students, employees, entitlement beneficiaries, and so on. The amount of information maintained by state data systems is enormous. In spite of this embarrassment of information riches, few state agencies share data for research purposes. If policymakers and government administrators are serious about accountability and longitudinal, outcomesbased research, then matching data systems should be a state priority. Whether accomplished through a central state agency or by way of memoranda of understanding, matching state records for the purposes of accountability and research should be considered seriously.

Improve Teacher Preparation and Performance Perhaps most important of all, high quality classroom teachers must be in every college preparatory course in every high school. In addition to being "highly qualified" in a content area, teachers in today's classrooms must understand how to prepare students for college, be familiar with higher education admission requirements, and be equipped to identify and deal with students' academic deficiencies before they become acute.

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## APPENDIX A:

## HIGH SCHOOL LEVEL DATA ${ }^{14}$

Individual high schools and district remediation data, as well as ACT scores, retention rates and CSAP scores may easily be searched at:
http://highered.colorado.gov/findhighschool.asp

[^11]| DISTRICT NAME | SCHOOL NAME | ENROLLED <br> STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACADEMY 20 | AIR ACADEMY HIGH SCHOOL | 163 | 34 | 20.86\% | 30 | 14 | 16 |
| ACADEMY 20 | ASPEN VALLEY HIGH SCHOOL | 14 | x | x | x | X | X |
| ACADEMY 20 | LIBERTY HIGH SCHOOL | 167 | 39 | 23.35\% | 36 | 18 | 14 |
| ACADEMY 20 | PINE CREEK HIGH SCHOOL | 158 | 39 | 24.68\% | 36 | 13 | 14 |
| ACADEMY 20 | RAMPART HIGH SCHOOL | 180 | 44 | 24.44\% | 36 | 16 | 24 |
| ACADEMY 20 | THE CLASSICAL ACADEMY CHARTER | 22 | x | x | x | X | X |
| ADAMS COUNTY 14 | ADAMS CITY HIGH SCHOOL | 57 | 36 | 63.16\% | 32 | 25 | 18 |
| ADAMS COUNTY 14 | LESTER R ARNOLD HIGH SCHOOL | 5 | x | x | x | x | x |
| ADAMS-ARAPAHOE 28J | AURORA CENTRAL HIGH SCHOOL | 76 | 41 | 53.95\% | 34 | 21 | 26 |
| ADAMS-ARAPAHOE 28J | GATEWAY HIGH SCHOOL | 124 | 54 | 43.55\% | 34 | 32 | 21 |
| ADAMS-ARAPAHOE 28J | HINKLEY HIGH SCHOOL | 127 | 62 | 48.82\% | 55 | 38 | 32 |
| ADAMS-ARAPAHOE 28J | RANGEVIEW HIGH SCHOOL | 196 | 79 | 40.31\% | 73 | 35 | 34 |
| ADAMS-ARAPAHOE 28J | WILLIAM SMITH HIGH SCHOOL | 10 | x | x | x | x | x |
| AGATE 300 | AGATE JUNIOR-SENIOR HIGH SCHOOL | 2 | x | x | X | X | X |
| AGUILAR REORGANIZED 6 | AGUILAR JUNIOR-SENIOR HIGH SCHOOL | 6 | X | x | X | X | X |
| AKRON R-1 | AKRON HIGH SCHOOL | 19 | x | X | X | X | X |
| ALAMOSA RE-11J | ALAMOSA HIGH SCHOOL | 88 | 40 | 45.45\% | 34 | 18 | 18 |
| ALAMOSA RE-11J | ALAMOSA OPEN SCHOOL | 7 | x | x | x | X | x |
| ARCHULETA COUNTY 50 JT | PAGOSA SPRINGS HIGH SCHOOL | 46 | 23 | 50.00\% | 20 | 11 | 8 |
| ARICKAREE R-2 | ARICKAREE UNDIVIDED HIGH SCHOOL | 4 | x | x | x | X | X |
| ARRIBA-FLAGLER C-20 | FLAGLER SENIOR HIGH SCHOOL | 9 | x | x | X | X | X |
| ASPEN 1 | ASPEN HIGH SCHOOL | 40 | 10 | 25.00\% | 9 | 6 | 4 |
| AULT-HIGHLAND RE-9 | HIGHLAND HIGH SCHOOL | 24 | x | X | x | x | X |
| BAYFIELD 10 JT-R | BAYFIELD HIGH SCHOOL | 37 | 18 | 48.65\% | 13 | 7 | 8 |
| BENNETT 29J | BENNETT HIGH SCHOOL | 23 | x | x | x | x | x |
| BETHUNE R-5 | BETHUNE JUNIOR-SENIOR HIGH SCHOOL | 4 | X | x | X | X | X |
| BIG SANDY 100J | SIMLA HIGH SCHOOL | 13 | x | x | x | X | x |
| BOULDER VALLEY RE 2 | ARAPAHOE RIDGE HIGH SCHOOL | 11 | x | x | x | X | X |
| BOULDER VALLEY RE 2 | BOULDER HIGH SCHOOL | 205 | 40 | 19.51\% | 30 | 23 | 20 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BOULDER VALLEY RE 2 | BOULDER PREP CHARTER HIGH SCHOOL | 4 | X | X | X | X | X |
| BOULDER VALLEY RE 2 | BROOMFIELD HIGH SCHOOL | 191 | 47 | 24.61\% | 38 | 0 | 20 |
| BOULDER VALLEY RE 2 | CENTAURUS HIGH SCHOOL | 122 | 37 | 30.33\% | 29 | 20 | 18 |
| BOULDER VALLEY RE 2 | FAIRVIEW HIGH SCHOOL | 223 | 22 | 9.87\% | 13 | 9 | 6 |
| BOULDER VALLEY RE 2 | MONARCH HIGH SCHOOL | 221 | 45 | 20.36\% | 33 | 21 | 19 |
| BOULDER VALLEY RE 2 | NEDERLAND MIDDLE-SENIOR HIGH SCHOOL | 27 | 8 | 29.63\% | 6 | 2 | 3 |
| BOULDER VALLEY RE 2 | NEW VISTA HIGH SCHOOL | 26 | 7 | 26.92\% | 6 | 2 | 2 |
| BRANSON REORGANIZED 82 | BRANSON ALTERNATIVE SCHOOL | 1 | x | x | x | x | x |
| BRANSON REORGANIZED 82 | BRANSON UNDIVIDED HIGH SCHOOL | 8 | X | X | X | x | X |
| BRIGGSDALE RE-10 | BRIGGSDALE UNDIVIDED HIGH SCHOOL | 6 | x | X | X | x | X |
| BRIGHTON 27J | BRIGHTON CHARTER SCHOOL | 4 | x | X | X | x | X |
| BRIGHTON 27J | BRIGHTON HIGH SCHOOL | 127 | 56 | 44.09\% | 47 | 25 | 21 |
| BRUSH RE-2(J) | BRUSH HIGH SCHOOL | 60 | 13 | 21.67\% | 10 | 5 | 9 |
| BUENA VISTA R-31 | BUENA VISTA HIGH SCHOOL | 29 | 6 | 20.69\% | 5 | 2 | 0 |
| BUFFALO RE-4 | MERINO JUNIOR SENIOR HIGH SCHOOL | 11 | x | x | x | x | x |
| BURLINGTON RE-6J | BURLINGTON HIGH SCHOOL | 23 | X | X | X | x | X |
| BYERS 32J | BYERS JUNIOR-SENIOR HIGH SCHOOL | 13 | x | X | x | x | x |
| CALHAN RJ-1 | CALHAN HIGH SCHOOL | 22 | x | x | x | x | X |
| CAMPO RE-6 | CAMPO UNDIVIDED HIGH SCHOOL | 6 | X | X | X | X | X |
| CANON CITY RE-1 | CANON CITY HIGH SCHOOL | 128 | 48 | 37.50\% | 39 | 18 | 17 |
| CANON CITY RE-1 | GARDEN PARK HIGH SCHOOL | 1 | X | x | x | x | x |
| CENTENNIAL BOCES | WELD OPPORTUNITY HIGH SCHOOL | 3 | X | X | X | x | X |
| CENTENNIAL R-1 | CENTENNIAL HIGH SCHOOL | 8 | X | X | X | X | X |
| CENTER 26 JT | CENTER HIGH SCHOOL | 12 | x | X | X | X | X |
| CHERAW 31 | CHERAW HIGH SCHOOL | 13 | X | X | X | X | X |
| CHERRY CREEK 5 | CHERRY CREEK HIGH SCHOOL | 413 | 62 | 15.01\% | 44 | 26 | 26 |
| CHERRY CREEK 5 | EAGLECREST HIGH SCHOOL | 349 | 119 | 34.10\% | 97 | 52 | 49 |
| CHERRY CREEK 5 | GRANDVIEW HIGH SCHOOL | 338 | 73 | 21.60\% | 57 | 31 | 37 |
| CHERRY CREEK 5 | OVERLAND HIGH SCHOOL | 249 | 88 | 35.34\% | 71 | 44 | 49 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CHERRY CREEK 5 | P.R.E.P. (ALTERNATIVE) HIGH SCHOOL | 6 | X | X | X | X | X |
| CHERRY CREEK 5 | SMOKY HILL HIGH SCHOOL | 329 | 95 | 28.88\% | 71 | 54 | 44 |
| CHEYENNE COUNTY RE-5 | CHEYENNE WELLS HIGH SCHOOL | 18 | X | X | X | X | X |
| CHEYENNE MOUNTAIN 12 | CHEYENNE MOUNTAIN HIGH SCHOOL | 164 | 26 | 15.85\% | 18 | 12 | 14 |
| CLEAR CREEK RE-1 | CLEAR CREEK HIGH SCHOOL | 24 | X | X | X | X | X |
| COLORADO SCHOOL FOR THE DEAF AND BLIND | COLORADO SCHOOL FOR THE DEAF AND BLIND | 8 | X | X | X | X | X |
| COLORADO SPRINGS 11 | CIVA CHARTER SCHOOL | 14 | X | X | X | X | X |
| COLORADO SPRINGS 11 | COMMUNITY PREP CHARTER SCHOOL | 2 | X | X | X | X | X |
| COLORADO SPRINGS 11 | CORONADO HIGH SCHOOL | 167 | 40 | 23.95\% | 35 | 18 | 17 |
| COLORADO SPRINGS 11 | DOHERTY HIGH SCHOOL | 249 | 83 | 33.33\% | 78 | 40 | 32 |
| COLORADO SPRINGS 11 | GLOBE CHARTER SCHOOL | 5 | X | X | X | X | X |
| COLORADO SPRINGS 11 | MITCHELL HIGH SCHOOL | 88 | 36 | 40.91\% | 30 | 22 | 17 |
| COLORADO SPRINGS 11 | NIKOLA TESLA EDUCATION OPPORTUNITY CENTER | 7 | X | X | X | X | X |
| COLORADO SPRINGS 11 | PALMER HIGH SCHOOL | 190 | 44 | 23.16\% | 36 | 22 | 25 |
| COLORADO SPRINGS 11 | WASSON HIGH SCHOOL | 95 | 43 | 45.26\% | 37 | 18 | 18 |
| COTOPAXI RE-3 | COTOPAXI JUNIOR-SENIOR HIGH SCHOOL | 21 | X | X | X | X | X |
| CREEDE CONSOLIDATED 1 | CREEDE JUNIOR-SENIOR HIGH SCHOOL | 6 | X | X | X | X | X |
| CRIPPLE CREEK-VICTOR RE-1 | CRIPPLE CREEK-VICTOR JUNIOR-SENIOR HIGH SCHOOL | 11 | X | X | X | X | X |
| CROWLEY COUNTY RE-1-J | CROWLEY COUNTY HIGH SCHOOL | 27 | 15 | 55.56\% | 14 | 8 | 7 |
| CUSTER COUNTY S.D. | CUSTER COUNTY HIGH SCHOOL | 22 | X | X | X | X | X |
| DE BEQUE 49JT | DE BEQUE UNDIVIDED HIGH SCHOOL | 5 | X | X | X | X | X |
| DEER TRAIL 26J | DEER TRAIL JUNIOR-SENIOR HIGH SCHOOL | 6 | X | X | X | X | X |
| DEL NORTE C-7 | DEL NORTE HIGH SCHOOL | 22 | X | X | X | X | X |
| DELTA COUNTY 50(J) | CEDAREDGE HIGH SCHOOL | 37 | 10 | 27.03\% | 7 | 5 | 5 |
| DELTA COUNTY 50(J) | DELTA HIGH SCHOOL | 42 | 13 | 30.95\% | 10 | 3 | 5 |
| DELTA COUNTY 50(J) | HOTCHKISS HIGH SCHOOL | 36 | 7 | 19.44\% | 6 | 3 | 3 |
| DELTA COUNTY 50(J) | PAONIA HIGH SCHOOL | 25 | 9 | 36.00\% | 7 | 4 | 3 |
| DENVER COUNTY 1 | ABRAHAM LINCOLN HIGH SCHOOL | 65 | 43 | 66.15\% | 37 | 30 | 28 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | $\underset{\text { RATE }}{\text { REMEDIATION }}$ | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DENVER COUNTY 1 | COLORADO HIGH SCHOOL | 21 | x | x | x | x | X |
| DENVER COUNTY 1 | CONTEMPORARY LEARNING ACADEMY HIGH SCHOOL | 1 | X | X | X | x | X |
| DENVER COUNTY 1 | DENVER SCHOOL OF THE ARTS | 26 | 9 | 34.62\% | 8 | 3 | 5 |
| DENVER COUNTY 1 | EAST HIGH SCHOOL | 170 | 66 | 38.82\% | 62 | 33 | 37 |
| DENVER COUNTY 1 | EMILY GRIFFITH OPPORTUNITY SCHOOL | 10 | x | x | x | x | x |
| DENVER COUNTY 1 | FLORENCE CRITTENTON HIGH SCHOOL | 1 | x | x | x | x | x |
| DENVER COUNTY 1 | FRED N THOMAS CAREER EDUCATION CENTER | 9 | x | x | X | X | X |
| DENVER COUNTY 1 | GEORGE WASHINGTON HIGH SCHOOL | 141 | 49 | 34.75\% | 41 | 25 | 33 |
| DENVER COUNTY 1 | JOHN F KENNEDY HIGH SCHOOL | 160 | 77 | 48.13\% | 66 | 40 | 29 |
| DENVER COUNTY 1 | MILLENIUM QUEST SCIENCE ACADEMY AT MANUAL | 2 | X | X | X | X | X |
| DENVER COUNTY 1 | MONTBELLO HIGH SCHOOL | 73 | 42 | 57.53\% | 38 | 24 | 24 |
| DENVER COUNTY 1 | NORTH HIGH SCHOOL | 82 | 47 | 57.32\% | 42 | 22 | 30 |
| DENVER COUNTY 1 | P.S. 1 CHARTER SCHOOL | 1 | x | x | x | x | X |
| DENVER COUNTY 1 | SOUTH HIGH SCHOOL | 117 | 63 | 53.85\% | 58 | 34 | 33 |
| DENVER COUNTY 1 | THOMAS JEFFERSON HIGH SCHOOL | 120 | 60 | 50.00\% | 50 | 21 | 18 |
| DENVER COUNTY 1 | WEST HIGH SCHOOL | 94 | 63 | 67.02\% | 60 | 48 | 40 |
| DOLORES COUNTY RE NO. 2 | DOLORES COUNTY HIGH SCHOOL | 10 | x | x | x | X | x |
| DOLORES RE-4A | DOLORES HIGH SCHOOL | 20 | x | x | x | X | x |
| DOUGLAS COUNTY RE 1 | CHAPARRAL HIGH SCHOOL | 196 | 37 | 18.88\% | 30 | 16 | 16 |
| DOUGLAS COUNTY RE 1 | DANIEL C OAKES HIGH SCHOOL--CASTLE ROCK | 2 | x | x | x | x | X |
| DOUGLAS COUNTY RE 1 | DANIEL C OAKES HIGH SCHOOL--CA | 5 | X | x | x | x | x |
| DOUGLAS COUNTY RE 1 | DOUGLAS COUNTY HIGH SCHOOL | 281 | 69 | 24.56\% | 58 | 20 | 26 |
| DOUGLAS COUNTY RE 1 | EAGLE ACADEMY | 13 | X | X | x | X | X |
| DOUGLAS COUNTY RE 1 | HIGHLANDS RANCH HIGH SCHOOL | 271 | 55 | 20.30\% | 37 | 26 | 24 |
| DOUGLAS COUNTY RE 1 | MOUNTAIN VISTA HIGH SCHOOL | 1 | x | x | x | x | x |
| DOUGLAS COUNTY RE 1 | PONDEROSA HIGH SCHOOL | 235 | 41 | 17.45\% | 26 | 24 | 21 |
| DOUGLAS COUNTY RE 1 | THUNDERRIDGE HIGH SCHOOL | 276 | 58 | 21.01\% | 52 | 23 | 21 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DURANGO 9-R | DURANGO HIGH SCHOOL | 128 | 48 | 37.50\% | 44 | 20 | 13 |
| DURANGO 9-R | THE EXCEL CHARTER SCHOOL | 3 | X | X | X | X | X |
| EADS RE-1 | EADS HIGH SCHOOL | 20 | X | X | X | X | X |
| EAGLE COUNTY RE 50 | BATTLE MOUNTAIN HIGH SCHOOL | 40 | 3 | 7.50\% | 3 | 0 | 0 |
| EAGLE COUNTY RE 50 | EAGLE VALLEY HIGH SCHOOL | 58 | 18 | 31.03\% | 16 | 7 | 10 |
| EAGLE COUNTY RE 50 | RED CANYON HIGH SCHOOL | 1 | X | X | X | X | X |
| EAST GRAND 2 | MIDDLE PARK HIGH SCHOOL | 45 | 8 | 17.78\% | 7 | 4 | 4 |
| EAST OTERO R-1 | LA JUNTA HIGH SCHOOL | 73 | 47 | 64.38\% | 41 | 29 | 26 |
| EATON RE-2 | EATON HIGH SCHOOL | 36 | 13 | 36.11\% | 11 | 5 | 6 |
| EDISON 54 JT | EDISON JUNIOR-SENIOR HIGH SCHOOL | 2 | X | X | X | X | X |
| ELBERT 200 | ELBERT JUNIOR-SENIOR HIGH SCHOOL | 10 | X | X | X | X | X |
| ELIZABETH C-1 | ELIZABETH HIGH SCHOOL | 98 | 29 | 29.59\% | 24 | 13 | 10 |
| ELLICOTT 22 | ELLICOTT SENIOR HIGH SCHOOL | 17 | X | X | X | X | X |
| ENGLEWOOD 1 | $\begin{aligned} & \text { COLORADO'S FINEST ALTERNATIVE HIGH } \\ & \text { SCHOOL } \end{aligned}$ | 27 | 17 | 62.96\% | 17 | 7 | 7 |
| ENGLEWOOD 1 | ENGLEWOOD HIGH SCHOOL | 94 | 42 | 44.68\% | 38 | 19 | 14 |
| EXPEDITIONARY BOCES | EXPEDITIONARY LEARNING SCHOOL | 5 | X | X | X | X | X |
| FALCON 49 | FALCON HIGH SCHOOL | 73 | 27 | 36.99\% | 23 | 16 | 16 |
| FALCON 49 | SAND CREEK HIGH SCHOOL | 118 | 34 | 28.81\% | 26 | 18 | 18 |
| FLORENCE RE-2 | FLORENCE HIGH SCHOOL | 57 | 25 | 43.86\% | 20 | 11 | 11 |
| FORT MORGAN RE-3 | FORT MORGAN HIGH SCHOOL | 96 | 21 | 21.88\% | 17 | 12 | 9 |
| FORT MORGAN RE-3 | LINCOLN HIGH SCHOOL | 8 | X | X | X | X | X |
| FOUNTAIN 8 | FOUNTAIN-FORT CARSON HIGH SCHOOL | 96 | 43 | 44.79\% | 35 | 24 | 22 |
| FOWLER R-4J | FOWLER HIGH SCHOOL | 9 | X | X | X | X | X |
| FRENCHMAN RE-3 | FLEMING HIGH SCHOOL | 5 | X | X | X | X | X |
| GARFIELD 16 | GRAND VALLEY HIGH SCHOOL | 12 | X | X | X | X | X |
| GARFIELD RE-2 | RIFLE HIGH SCHOOL | 52 | 18 | 34.62\% | 12 | 9 | 6 |
| GENOA-HUGO C113 | GENOA-HUGO SENIOR HIGH SCHOOL | 2 | X | X | X | X | X |
| GILPIN COUNTY RE-1 | GILPIN COUNTY UNDIVIDED HIGH SCHOOL | 9 | X | X | X | X | X |


| DISTRICT NAME | SCHOOL NAME | ENROLLED <br> STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GRANADA RE-1 | GRANADA UNDIVIDED HIGH SCHOOL | 14 | x | x | x | x | x |
| GREELEY 6 | COLORADO HIGH SCHOOL OF GREELEY | 15 | x | x | x | X | X |
| GREELEY 6 | FRONTIER CHARTER ACADEMY | 2 | X | X | X | X | X |
| GREELEY 6 | GREELEY CENTRAL HIGH SCHOOL | 84 | 18 | 21.43\% | 9 | 8 | 10 |
| GREELEY 6 | GREELEY WEST HIGH SCHOOL | 130 | 40 | 30.77\% | 29 | 17 | 21 |
| GREELEY 6 | NORTHRIDGE HIGH SCHOOL | 77 | 24 | 31.17\% | 17 | 9 | 13 |
| GREELEY 6 | TRADEMARK LEARNING CENTER | 1 | x | x | x | x | x |
| GREELEY 6 | UNION COLONY PREPATORY SCHOOL | 4 | x | x | X | x | X |
| GREELEY 6 | UNIVERSITY SCHOOLS | 28 | 8 | 28.57\% | 6 | 2 | 0 |
| GUNNISON WATERSHED RE1J | CRESTED BUTTE COMMUNITY SCHOOL | 12 | x | x | x | x | x |
| GUNNISON WATERSHED RE1J | GUNNISON HIGH SCHOOL | 40 | 10 | 25.00\% | 8 | 4 | 1 |
| GUNNISON WATERSHED RE1J | GUNNISON VALLEY SCHOOL | 2 | x | x | x | x | X |
| HANOVER 28 | HANOVER JUNIOR-SENIOR HIGH SCHOOL | 5 | x | x | x | x | x |
| HARRISON 2 | HARRISON HIGH SCHOOL | 79 | 39 | 49.37\% | 36 | 26 | 19 |
| HARRISON 2 | JAMES IRWIN CHARTER HIGH SCHOOL | 22 | x | x | x | x | X |
| HARRISON 2 | SIERRA HIGH SCHOOL | 69 | 44 | 63.77\% | 40 | 21 | 25 |
| HAXTUN RE-2J | HAXTUN HIGH SCHOOL | 14 | x | x | x | x | x |
| HAYDEN RE-1 | HAYDEN HIGH SCHOOL | 16 | X | X | X | x | x |
| HI-PLAINS R-23 | HI PLAINS UNDIVIDED HIGH SCHOOL | 2 | x | x | x | X | X |
| HOEHNE REORGANIZED 3 | HOEHNE HIGH SCHOOL | 12 | x | X | X | X | X |
| HOLLY RE-3 | HOLLY JUNIOR-SENIOR HIGH SCHOOL | 30 | 14 | 46.67\% | 12 | 9 | 7 |
| HOLYOKE RE-1J | HOLYOKE JUNIOR-SENIOR HIGH SCHOOL | 17 | x | x | x | x | x |
| HUERFANO RE-1 | JOHN MALL HIGH SCHOOL | 21 | x | x | x | X | X |
| IDALIA RJ-3 | IDALIA JUNIOR-SENIOR HIGH SCHOOL | 7 | x | X | X | X | X |
| IGNACIO 11 JT | IGNACIO HIGH SCHOOL | 17 | x | X | X | X | X |
| JEFFERSON COUNTY R-1 | ALAMEDA HIGH SCHOOL | 88 | 44 | 50.00\% | 32 | 16 | 18 |
| JEFFERSON COUNTY R-1 | ARVADA HIGH SCHOOL | 163 | 68 | 41.72\% | 60 | 22 | 25 |
| JEFFERSON COUNTY R-1 | ARVADA WEST HIGH SCHOOL | 209 | 73 | 34.93\% | 60 | 32 | 31 |
| JEFFERSON COUNTY R-1 | BEAR CREEK HIGH SCHOOL | 204 | 64 | 31.37\% | 52 | 25 | 28 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| JEFFERSON COUNTY R-1 | CENTER FOR DISCOVERY LEARNING CHARTER SCHOOL | 1 | X | X | X | X | X |
| JEFFERSON COUNTY R-1 | CHATFIELD HIGH SCHOOL | 295 | 67 | 22.71\% | 54 | 25 | 31 |
| JEFFERSON COUNTY R-1 | COLLEGIATE CHARTER ACADEMY | 17 | X | X | X | X | X |
| JEFFERSON COUNTY R-1 | COLUMBINE HIGH SCHOOL | 281 | 73 | 25.98\% | 59 | 32 | 25 |
| JEFFERSON COUNTY R-1 | CONIFER SENIOR HIGH SCHOOL | 142 | 34 | 23.94\% | 30 | 13 | 10 |
| JEFFERSON COUNTY R-1 | DAKOTA RIDGE SENIOR HIGH SCHOOL | 236 | 79 | 33.47\% | 64 | 33 | 25 |
| JEFFERSON COUNTY R-1 | D'EVELYN SENIOR HIGH SCHOOL | 72 | 1 | 1.39\% | 0 | 0 | 1 |
| JEFFERSON COUNTY R-1 | EVERGREEN HIGH SCHOOL | 117 | 27 | 23.08\% | 24 | 12 | 8 |
| JEFFERSON COUNTY R-1 | GOLDEN HIGH SCHOOL | 144 | 41 | 28.47\% | 38 | 21 | 14 |
| JEFFERSON COUNTY R-1 | GREEN MOUNTAIN HIGH SCHOOL | 216 | 69 | 31.94\% | 52 | 35 | 22 |
| JEFFERSON COUNTY R-1 | JEFFERSON CHARTER ACADEMY SENIOR HIGH SCHOOL | 29 | 6 | 20.69\% | 6 | 1 | 2 |
| JEFFERSON COUNTY R-1 | JEFFERSON COUNTY OPEN HIGH SCHOOL | 29 | 21 | 72.41\% | 21 | 5 | 5 |
| JEFFERSON COUNTY R-1 | JEFFERSON HIGH SCHOOL | 49 | 32 | 65.31\% | 30 | 21 | 25 |
| JEFFERSON COUNTY R-1 | LAKEWOOD HIGH SCHOOL | 165 | 47 | 28.48\% | 42 | 17 | 16 |
| JEFFERSON COUNTY R-1 | LONGVIEW HIGH SCHOOL | 2 | X | X | X | X | X |
| JEFFERSON COUNTY R-1 | MC LAIN HIGH SCHOOL | 19 | X | X | X | X | X |
| JEFFERSON COUNTY R-1 | POMONA HIGH SCHOOL | 236 | 84 | 35.59\% | 72 | 38 | 35 |
| JEFFERSON COUNTY R-1 | RALSTON VALLEY SENIOR HIGH SCHOOL | 234 | 61 | 26.07\% | 57 | 30 | 28 |
| JEFFERSON COUNTY R-1 | STANDLEY LAKE HIGH SCHOOL | 230 | 84 | $36.52 \%$ | 62 | 45 | 39 |
| JEFFERSON COUNTY R-1 | WHEAT RIDGE HIGH SCHOOL | 172 | 58 | 33.72\% | 51 | 23 | 24 |
| JOHNSTOWN-MILLIKEN RE-5J | ROOSEVELT HIGH SCHOOL | 28 | 6 | 21.43\% | 5 | 4 | 1 |
| JULESBURG RE-1 | JULESBURG HIGH SCHOOL | 9 | X | X | X | X | X |
| KARVAL RE-23 | KARVAL JUNIOR-SENIOR HIGH SCHOOL | 2 | X | X | X | X | X |
| KEENESBURG RE-3(J) | WELD CENTRAL SENIOR HIGH SCHOOL | 28 | 10 | 35.71\% | 9 | 8 | 5 |
| KIM REORGANIZED 88 | KIM UNDIVIDED HIGH SCHOOL | 7 | X | X | X | X | X |
| KIOWA C-2 | KIOWA HIGH SCHOOL | 13 | X | X | X | X | X |
| KIT CARSON R-1 | KIT CARSON JUNIOR-SENIOR HIGH SCHOOL | 15 | X | X | X | X | X |
| LA VETA RE-2 | LA VETA JUNIOR-SENIOR HIGH SCHOOL | 10 | X | X | X | X | X |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| LAKE COUNTY R-1 | LAKE COUNTY HIGH SCHOOL | 13 | X | X | x | X | x |
| LAMAR RE-2 | LAMAR HIGH SCHOOL | 64 | 25 | 39.06\% | 22 | 14 | 16 |
| LAS ANIMAS RE-1 | LAS ANIMAS HIGH SCHOOL | 25 | 15 | 60.00\% | 12 | 10 | 7 |
| LEWIS-PALMER 38 | LEWIS-PALMER HIGH SCHOOL | 188 | 28 | 14.89\% | 24 | 13 | 13 |
| LIBERTY J-4 | LIBERTY JUNIOR-SENIOR HIGH SCHOOL | 3 | x | x | x | X | x |
| LIMON RE-4J | LIMON JUNIOR-SENIOR HIGH SCHOOL | 27 | 6 | 22.22\% | 5 | 1 | 2 |
| LITTLETON 6 | ARAPAHOE HIGH SCHOOL | 207 | 21 | 10.14\% | 19 | 5 | 1 |
| LITTLETON 6 | HERITAGE HIGH SCHOOL | 268 | 64 | 23.88\% | 51 | 35 | 22 |
| LITTLETON 6 | LITTLETON HIGH SCHOOL | 156 | 60 | 38.46\% | 55 | 27 | 30 |
| LONE STAR 101 | LONE STAR UNDIVIDED HIGH SCHOOL | 2 | x | x | x | x | x |
| MANCOS RE-6 | MANCOS HIGH SCHOOL | 7 | x | x | x | X | X |
| MANITOU SPRINGS 14 | MANITOU SPRINGS HIGH SCHOOL | 58 | 19 | 32.76\% | 18 | 11 | 8 |
| MANZANOLA 3J | MANZANOLA JUNIOR-SENIOR HIGH SCHOOL | 10 | x | x | x | x | x |
| MAPLETON 1 | SKYVIEW HIGH SCHOOL | 82 | 46 | 56.10\% | 37 | 33 | 28 |
| MC CLAVE RE-2 | MC CLAVE UNDIVIDED HIGH SCHOOL | 16 | x | x | x | x | x |
| MEEKER RE1 | MEEKER HIGH SCHOOL | 12 | x | X | X | X | X |
| MESA COUNTY VALLEY 51 | CENTRAL HIGH SCHOOL | 148 | 58 | 39.19\% | 44 | 37 | 25 |
| MESA COUNTY VALLEY 51 | FRUITA MONUMENT HIGH SCHOOL | 187 | 66 | 35.29\% | 54 | 35 | 32 |
| MESA COUNTY VALLEY 51 | GATEWAY SCHOOL | 3 | x | x | x | x | x |
| MESA COUNTY VALLEY 51 | GRAND JUNCTION HIGH SCHOOL | 179 | 58 | 32.40\% | 41 | 38 | 24 |
| MESA COUNTY VALLEY 51 | PALISADE HIGH SCHOOL | 64 | 33 | 51.56\% | 26 | 19 | 11 |
| MESA COUNTY VALLEY 51 | R-5 HIGH SCHOOL | 11 | x | x | x | x | x |
| MIAMI/YODER 60 JT | MIAMI/YODER JUNIOR-SENIOR HIGH SCHOOL | 6 | X | x | x | X | x |
| MOFFAT 2 | MOFFAT SENIOR HIGH SCHOOL | 6 | X | X | x | X | X |
| MOFFAT COUNTY RE:NO 1 | MOFFAT COUNTY HIGH SCHOOL | 83 | 30 | 36.14\% | 26 | 18 | 16 |
| MONTE VISTA C-8 | BYRON SYRING DELTA CENTER | 3 | x | x | x | x | x |
| MONTE VISTA C-8 | MONTE VISTA ON-LINE ACADEMY | 2 | X | X | X | X | X |
| MONTE VISTA C-8 | MONTE VISTA SENIOR HIGH SCHOOL | 39 | 19 | 48.72\% | 19 | 9 | 8 |
| MONTEZUMA-CORTEZ RE-1 | MONTEZUMA-CORTEZ HIGH SCHOOL | 51 | 15 | 29.41\% | 12 | 8 | 9 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION <br> RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MONTEZUMA-CORTEZ RE-1 | SOUTHWEST OPEN CHARTER SCHOOL | 2 | X | X | x | X | X |
| MONTROSE COUNTY RE-1J | MONTROSE HIGH SCHOOL | 98 | 22 | 22.45\% | 19 | 13 | 10 |
| MONTROSE COUNTY RE-1J | OLATHE HIGH SCHOOL | 20 | x | x | x | x | x |
| MONTROSE COUNTY RE-1J | VISTA ADULT HIGH SCHOOL | 1 | x | X | X | x | X |
| MOUNTAIN BOCES | YAMPAH MOUNTAIN SCHOOL | 1 | x | X | X | X | x |
| MOUNTAIN VALLEY RE 1 | MOUNTAIN VALLEY SENIOR HIGH SCHOOL | 5 | X | X | X | X | X |
| NORTH CONEJOS RE-1j | CENTAURI HIGH SCHOOL | 47 | 24 | 51.06\% | 21 | 13 | 16 |
| NORTH PARK R-1 | NORTH PARK JUNIOR-SENIOR HIGH SCHOOL | 5 | X | X | X | x | X |
| NORTHGLENN-THORNTON 12 | ACADEMY OF CHARTER SCHOOLS | 27 | 7 | 25.93\% | 6 | 3 | 3 |
| NORTHGLENN-THORNTON 12 | HORIZON HIGH SCHOOL | 225 | 77 | $34.22 \%$ | 61 | 41 | 39 |
| NORTHGLENN-THORNTON 12 | LEGACY HIGH SCHOOL | 239 | 82 | 34.31\% | 70 | 46 | 41 |
| NORTHGLENN-THORNTON 12 | NORTHGLENN HIGH SCHOOL | 202 | 76 | 37.62\% | 60 | 44 | 34 |
| NORTHGLENN-THORNTON 12 | PINNACLE CHARTER SCHOOL | 4 | x | x | x | X | X |
| NORTHGLENN-THORNTON 12 | THORNTON HIGH SCHOOL | 186 | 76 | 40.86\% | 55 | 38 | 39 |
| NORTHGLENN-THORNTON 12 | VANTAGE POINT | 4 | x | x | x | x | x |
| NORWOOD R-2J | NORWOOD HIGH SCHOOL | 11 | x | X | X | x | x |
| OTIS R-3 | OTIS JUNIOR-SENIOR HIGH SCHOOL | 8 | X | X | X | x | x |
| OURAY R-1 | OURAY SENIOR HIGH SCHOOL | 5 | X | X | X | X | X |
| PARK (ESTES PARK) R-3 | ESTES PARK HIGH SCHOOL | 39 | 8 | 20.51\% | 7 | 3 | 5 |
| PARK COUNTY RE-2 | SOUTH PARK HIGH SCHOOL | 15 | X | x | x | x | x |
| PAWNEE RE-12 | PAWNEE JUNIOR-SENIOR HIGH SCHOOL | 3 | X | X | X | X | X |
| PEYTON 23 JT | PEYTON HIGH SCHOOL | 26 | 9 | 34.62\% | 8 | 2 | 3 |
| PLAINVIEW RE-2 | PLAINVIEW JUNIOR-SENIOR HIGH SCHOOL | 2 | X | x | x | x | x |
| PLATEAU RE-5 | PEETZ JUNIOR-SENIOR HIGH SCHOOL | 4 | x | X | X | x | X |
| PLATEAU VALLEY 50 | GRAND MESA HIGH SCHOOL | 1 | x | X | X | X | x |
| PLATEAU VALLEY 50 | PLATEAU VALLEY HIGH SCHOOL | 8 | X | X | X | X | X |
| PLATTE CANYON 1 | PLATTE CANYON HIGH SCHOOL | 52 | 9 | 17.31\% | 8 | 6 | 2 |
| PLATTE VALLEY RE-3 | REVERE JUNIOR-SENIOR HIGH SCHOOL | 2 | X | X | X | x | X |
| PLATTE VALLEY RE-7 | PLATTE VALLEY HIGH SCHOOL | 28 | 10 | 35.71\% | 5 | 5 | 7 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| POUDRE R-1 | CENTENNIAL HIGH SCHOOL | 10 | X | X | X | X | X |
| POUDRE R-1 | FORT COLLINS HIGH SCHOOL | 264 | 64 | 24.24\% | 51 | 32 | 36 |
| POUDRE R-1 | FRONTIER HIGH SCHOOL | 4 | X | X | X | X | X |
| POUDRE R-1 | POUDRE HIGH SCHOOL | 233 | 67 | 28.76\% | 55 | 29 | 35 |
| POUDRE R-1 | RIDGEVIEW CLASSICAL CHARTER SCHOOLS | 2 | X | X | X | X | X |
| POUDRE R-1 | ROCKY MOUNTAIN HIGH SCHOOL | 333 | 82 | 24.62\% | 69 | 30 | 28 |
| PRAIRIE RE-11 | PRAIRIE JUNIOR-SENIOR HIGH SCHOOL | 6 | X | X | X | X | X |
| PRIMERO REORGANIZED 2 | PRIMERO JUNIOR-SENIOR HIGH SCHOOL | 6 | X | X | X | X | X |
| PRITCHETT RE-3 | PRITCHETT HIGH SCHOOL | 12 | X | X | X | X | X |
| PUEBLO CITY 60 | CENTENNIAL HIGH SCHOOL | 140 | 66 | 47.14\% | 57 | 36 | 33 |
| PUEBLO CITY 60 | CENTRAL HIGH SCHOOL | 121 | 75 | 61.98\% | 69 | 41 | 38 |
| PUEBLO CITY 60 | EAST HIGH SCHOOL | 67 | 42 | 62.69\% | 36 | 18 | 24 |
| PUEBLO CITY 60 | KEATING CONTINUING EDUCATION | 1 | X | X | X | X | X |
| PUEBLO CITY 60 | SOUTH HIGH SCHOOL | 178 | 79 | 44.38\% | 72 | 38 | 39 |
| PUEBLO COUNTY RURAL 70 | PUEBLO COUNTY HIGH SCHOOL | 112 | 42 | 37.50\% | 38 | 13 | 11 |
| PUEBLO COUNTY RURAL 70 | PUEBLO TECHNICAL ACADEMY | 5 | X | X | X | X | X |
| PUEBLO COUNTY RURAL 70 | PUEBLO WEST HIGH SCHOOL | 99 | 46 | 46.46\% | 40 | 14 | 20 |
| PUEBLO COUNTY RURAL 70 | RYE HIGH SCHOOL | 31 | 11 | 35.48\% | 9 | 6 | 6 |
| RANGELY RE-4 | RANGELY HIGH SCHOOL | 28 | 9 | 32.14\% | 7 | 4 | 2 |
| RIDGWAY R-2 | RIDGWAY HIGH SCHOOL | 12 | X | X | X | X | X |
| ROARING FORK RE-1 | BASALT HIGH SCHOOL | 37 | 12 | $32.43 \%$ | 10 | 4 | 3 |
| ROARING FORK RE-1 | BRIDGES | 7 | X | X | X | X | X |
| ROARING FORK RE-1 | GLENWOOD SPRINGS HIGH SCHOOL | 72 | 10 | 13.89\% | 9 | 6 | 4 |
| ROARING FORK RE-1 | ROARING FORK HIGH SCHOOL | 22 | X | X | X | X | X |
| ROCKY FORD R-2 | ROCKY FORD HIGH SCHOOL | 22 | X | X | X | X | X |
| SALIDA R-32 | SALIDA HIGH SCHOOL | 24 | X | X | X | X | X |
| SANFORD 6J | SANFORD JUNIOR/SENIOR HIGH SCHOOL | 12 | X | X | X | X | X |
| SANGRE DE CRISTO RE-22J | SANGRE DE CRISTO UNDIVIDED HIGH SCHOOL | 16 | X | X | X | X | X |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SARGENT RE-33J | SARGENT JUNIOR-SENIOR HIGH SCHOOL | 15 | X | X | X | X | X |
| SHERIDAN 2 | SHERIDAN HIGH SCHOOL | 33 | 16 | 48.48\% | 14 | 8 | 8 |
| SIERRA GRANDE R-30 | SIERRA GRANDE SENIOR HIGH SCHOOL | 11 | X | X | X | X | X |
| SILVERTON 1 | SILVERTON HIGH SCHOOL | 3 | X | X | X | X | X |
| SOUTH CONEJOS RE-10 | ANTONITO HIGH SCHOOL | 11 | X | X | X | X | X |
| SOUTH ROUTT RE 3 | SOROCO HIGH SCHOOL | 15 | X | X | X | X | X |
| SPRINGFIELD RE-4 | SPRINGFIELD HIGH SCHOOL | 21 | X | X | X | X | X |
| ST VRAIN VALLEY RE 1J | ADULT EDUCATION/LINCOLN CENTER | 7 | X | X | X | X | X |
| ST VRAIN VALLEY RE 1J | ERIE MIDDLE/SENIOR HIGH SCHOOL | 39 | 15 | 38.46\% | 15 | 5 | 6 |
| ST VRAIN VALLEY RE 1J | FREDERICK SENIOR HIGH SCHOOL | 36 | 18 | 50.00\% | 13 | 10 | 10 |
| ST VRAIN VALLEY RE 1J | LONGMONT HIGH SCHOOL | 165 | 46 | 27.88\% | 39 | 15 | 20 |
| ST VRAIN VALLEY RE 1J | LYONS MIDDLE/SENIOR HIGH SCHOOL | 25 | 10 | 40.00\% | 5 | 3 | 4 |
| ST VRAIN VALLEY RE 1J | NIWOT HIGH SCHOOL | 162 | 35 | 21.60\% | 30 | 8 | 7 |
| ST VRAIN VALLEY RE 1J | OLDE COLUMBINE HIGH SCHOOL | 4 | X | X | X | X | X |
| ST VRAIN VALLEY RE 1J | SILVER CREEK SCHOOL | 97 | 32 | 32.99\% | 30 | 12 | 9 |
| ST VRAIN VALLEY RE 1J | SKYLINE HIGH SCHOOL | 133 | 55 | 41.35\% | 38 | 30 | 26 |
| ST VRAIN VALLEY RE 1J | UTE CREEK SECONDARY CHARTER ACADEMY | 20 | X | X | X | X | X |
| STEAMBOAT SPRINGS RE-2 | STEAMBOAT SPRINGS HIGH SCHOOL | 61 | 16 | 26.23\% | 13 | 7 | 5 |
| STRASBURG 31J | STRASBURG HIGH SCHOOL | 32 | 6 | 18.75\% | 6 | 3 | 2 |
| STRATTON R-4 | STRATTON SENIOR HIGH SCHOOL | 9 | X | X | X | X | X |
| SUMMIT RE-1 | SUMMIT HIGH SCHOOL | 65 | 13 | 20.00\% | 8 | 6 | 3 |
| SWINK 33 | SWINK JUNIOR-SENIOR HIGH SCHOOL | 20 | X | X | X | X | X |
| TELLURIDE R-1 | TELLURIDE HIGH SCHOOL | 11 | X | X | X | X | X |
| THOMPSON R-2J | BERTHOUD HIGH SCHOOL | 82 | 23 | 28.05\% | 20 | 9 | 8 |
| THOMPSON R-2J | HAROLD FERGUSON HIGH SCHOOL | 8 | X | X | X | X | X |
| THOMPSON R-2J | LOVELAND HIGH SCHOOL | 170 | 44 | 25.88\% | 28 | 22 | 27 |
| THOMPSON R-2J | MOUNTAIN VIEW HIGH SCHOOL | 112 | 38 | 33.93\% | 33 | 16 | 15 |
| THOMPSON R-2J | THOMPSON VALLEY HIGH SCHOOL | 169 | 43 | 25.44\% | 34 | 20 | 19 |
| TRINIDAD 1 | TRINIDAD HIGH SCHOOL | 53 | 30 | 56.60\% | 27 | 17 | 18 |


| DISTRICT NAME | SCHOOL NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| VALLEY RE-1 | CALICHE JUNIOR-SENIOR HIGH SCHOOL | 12 | X | X | X | X | X |
| VALLEY RE-1 | SMITH HIGH SCHOOL | 1 | X | X | X | X | X |
| VALLEY RE-1 | STERLING HIGH SCHOOL | 80 | 26 | 32.50\% | 23 | 11 | 12 |
| VILAS RE-5 | VILAS UNDIVIDED HIGH SCHOOL | 14 | X | X | X | X | X |
| WALSH RE-1 | WALSH HIGH SCHOOL | 13 | X | X | X | X | X |
| WELD COUNTY RE-1 | VALLEY HIGH SCHOOL | 47 | 12 | 25.53\% | 10 | 5 | 4 |
| WELD COUNTY S/D RE-8 | FORT LUPTON HIGH SCHOOL | 49 | 19 | 38.78\% | 17 | 11 | 7 |
| WELDON VALLEY RE-20(J) | WELDON VALLEY HIGH SCHOOL | 9 | X | X | X | X | X |
| WEST END RE-2 | NUCLA HIGH SCHOOL | 8 | X | X | X | X | X |
| WEST GRAND 1-JT. | WEST GRAND HIGH SCHOOL | 12 | X | X | X | X | X |
| WESTMINSTER 50 | IVER C. RANUM HIGH SCHOOL | 101 | 47 | 46.53\% | 41 | 29 | 26 |
| WESTMINSTER 50 | WESTMINSTER HIGH SCHOOL | 114 | 56 | 49.12\% | 47 | 33 | 23 |
| WIDEFIELD 3 | DISCOVERY HIGH SCHOOL | 1 | X | X | X | X | X |
| WIDEFIELD 3 | MESA RIDGE HIGH SCHOOL | 127 | 64 | 50.39\% | 58 | 26 | 37 |
| WIDEFIELD 3 | WIDEFIELD HIGH SCHOOL | 110 | 50 | 45.45\% | 42 | 25 | 28 |
| WIGGINS RE-50(J) | WIGGINS JUNIOR-SENIOR HIGH SCHOOL | 23 | X | X | X | X | X |
| WILEY RE-13 JT | WILEY JUNIOR-SENIOR HIGH SCHOOL | 16 | X | X | X | X | X |
| WINDSOR RE-4 | WINDSOR HIGH SCHOOL | 85 | 32 | 37.65\% | 23 | 14 | 20 |
| WOODLAND PARK RE-2 | WOODLAND PARK HIGH SCHOOL | 96 | 29 | $30.21 \%$ | 27 | 14 | 16 |
| WOODLIN R-104 | WOODLIN UNDIVIDED HIGH SCHOOL | 2 | X | X | X | X | X |
| WRAY RD-2 | WRAY HIGH SCHOOL | 26 | 7 | 26.92\% | 5 | 4 | 2 |
| YUMA 1 | YUMA HIGH SCHOOL | 25 | 6 | 24.00\% | 5 | 1 | 3 |

## APPENDIX B:

## SCHOOL DISTRICT LEVEL DATA ${ }^{15}$

[^12]| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACADEMY 20 | 704 | 168 | 23.86\% | 147 | 69 | 73 |
| ADAMS COUNTY 14 | 62 | 36 | 58.06\% | 32 | 25 | 18 |
| ADAMS-ARAPAHOE 28J | 533 | 244 | 45.78\% | 204 | 129 | 118 |
| AGATE 300 | 2 | X | X | X | X | X |
| AGUILAR REORGANIZED 6 | 6 | X | X | X | X | X |
| AKRON R-1 | 19 | X | X | X | X | X |
| ALAMOSA RE-11J | 95 | 40 | 42.11\% | 34 | 18 | 18 |
| ARCHULETA COUNTY 50 JT | 46 | 23 | 50.00\% | 20 | 11 | 8 |
| ARICKAREE R-2 | 4 | X | X | X | X | X |
| ARRIBA-FLAGLER C-20 | 9 | X | X | X | X | X |
| ASPEN 1 | 40 | 10 | 25.00\% | 9 | 6 | 4 |
| AULT-HIGHLAND RE-9 | 24 | X | X | X | X | X |
| BAYFIELD 10 JT-R | 37 | 18 | 48.65\% | 13 | 7 | 8 |
| BENNETT 29J | 23 | X | X | X | X | X |
| BETHUNE R-5 | 4 | X | X | X | X | X |
| BIG SANDY 100J | 13 | X | X | X | X | X |
| BOULDER VALLEY RE 2 | 1030 | 212 | 20.58\% | 159 | 81 | 92 |
| BRANSON REORGANIZED 82 | 9 | X | X | X | X | X |
| BRIGGSDALE RE-10 | 6 | X | X | X | X | X |
| BRIGHTON 27J | 131 | 56 | 42.75\% | 47 | 25 | 21 |
| BRUSH RE-2(J) | 60 | 13 | 21.67\% | 10 | 5 | 9 |
| BUENA VISTA R-31 | 29 | 6 | 20.69\% | 5 | 2 | 0 |
| BUFFALO RE-4 | 11 | X | X | X | X | X |
| BURLINGTON RE-6J | 23 | X | X | X | X | X |
| BYERS 32J | 13 | X | X | X | X | X |
| CALHAN RJ-1 | 22 | X | X | X | X | X |
| CAMPO RE-6 | 6 | X | X | X | X | X |
| CANON CITY RE-1 | 129 | 48 | 37.21\% | 39 | 18 | 17 |


| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CENTENNIAL BOCES | 3 | X | X | X | X | X |
| CENTENNIAL R-1 | 8 | X | X | X | X | X |
| CENTER 26 JT | 12 | X | X | X | X | X |
| CHERAW 31 | 13 | X | X | X | X | X |
| CHERRY CREEK 5 | 1684 | 437 | 25.95\% | 340 | 207 | 205 |
| CHEYENNE COUNTY RE-5 | 18 | X | X | X | X | X |
| CHEYENNE MOUNTAIN 12 | 164 | 26 | 15.85\% | 18 | 12 | 14 |
| CLEAR CREEK RE-1 | 24 | X | X | X | X | X |
| COLORADO SCHOOL FOR THE DEAF AND BLIND | 8 | X | X | X | X | X |
| COLORADO SPRINGS 11 | 817 | 254 | 31.09\% | 224 | 121 | 112 |
| COTOPAXI RE-3 | 21 | X | X | X | X | X |
| CREEDE CONSOLIDATED 1 | 6 | X | X | X | X | X |
| CRIPPLE CREEK-VICTOR RE-1 | 11 | X | X | X | X | X |
| CROWLEY COUNTY RE-1-J | 27 | 15 | 55.56\% | 14 | 8 | 7 |
| CUSTER COUNTY SCHOOL DISTRICT | 22 | X | X | X | X | X |
| DE BEQUE 49JT | 5 | X | X | X | X | X |
| DEER TRAIL 26J | 6 | X | X | X | X | X |
| DEL NORTE C-7 | 22 | X | X | X | X | X |
| DELTA COUNTY 50(J) | 140 | 39 | 27.86\% | 30 | 15 | 16 |
| DENVER COUNTY 1 | 1093 | 540 | 49.41\% | 482 | 286 | 285 |
| DOLORES COUNTY RE NO. 2 | 10 | X | X | X | X | X |
| DOLORES RE-4A | 20 | X | X | X | X | X |
| DOUGLAS COUNTY RE 1 | 1280 | 267 | 20.86\% | 210 | 111 | 110 |
| DURANGO 9-R | 131 | 48 | 36.64\% | 44 | 20 | 13 |
| EADS RE-1 | 20 | X | X | X | X | X |
| EAGLE COUNTY RE 50 | 99 | 21 | 21.21\% | 19 | 7 | 10 |
| EAST GRAND 2 | 45 | 8 | 17.78\% | 7 | 4 | 4 |
| EAST OTERO R-1 | 73 | 47 | 64.38\% | 41 | 29 | 26 |


| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EATON RE-2 | 36 | 13 | 36.11\% | 11 | 5 | 6 |
| EDISON 54 JT | 2 | X | X | X | X | X |
| ELBERT 200 | 10 | X | X | X | X | X |
| ELIZABETH C-1 | 98 | 29 | 29.59\% | 24 | 13 | 10 |
| ELLICOTT 22 | 17 | X | X | X | X | X |
| ENGLEWOOD 1 | 121 | 59 | 48.76\% | 55 | 26 | 21 |
| EXPEDITIONARY BOCES | 5 | X | X | X | X | X |
| FALCON 49 | 191 | 61 | 31.94\% | 49 | 34 | 34 |
| FLORENCE RE-2 | 57 | 25 | 43.86\% | 20 | 11 | 11 |
| FORT MORGAN RE-3 | 104 | 21 | 20.19\% | 17 | 12 | 9 |
| FOUNTAIN 8 | 96 | 43 | 44.79\% | 35 | 24 | 22 |
| FOWLER R-4J | 9 | X | X | X | X | X |
| FRENCHMAN RE-3 | 5 | X | X | X | X | X |
| GARFIELD 16 | 12 | X | X | X | X | X |
| GARFIELD RE-2 | 52 | 18 | 34.62\% | 12 | 9 | 6 |
| GENOA-HUGO C113 | 2 | X | X | X | X | X |
| GILPIN COUNTY RE-1 | 9 | X | X | X | X | X |
| GRANADA RE-1 | 14 | X | X | X | X | X |
| GREELEY 6 | 341 | 102 | 29.91\% | 73 | 41 | 50 |
| GUNNISON WATERSHED RE1J | 54 | 11 | 20.37\% | 8 | 5 | 1 |
| HANOVER 28 | 5 | X | X | X | X | X |
| HARRISON 2 | 170 | 88 | 51.76\% | 78 | 49 | 46 |
| HAXTUN RE-2J | 14 | X | X | X | X | X |
| HAYDEN RE-1 | 16 | X | X | X | X | X |
| HI-PLAINS R-23 | 2 | X | X | X | X | X |
| HOEHNE REORGANIZED 3 | 12 | X | X | X | X | X |
| HOLLY RE-3 | 30 | 14 | 46.67\% | 12 | 9 | 7 |
| HOLYOKE RE-1J | 17 | X | X | X | X | X |


| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HUERFANO RE-1 | 21 | X | X | X | X | X |
| IDALIA RJ-3 | 7 | X | X | X | X | X |
| IGNACIO 11 JT | 17 | X | X | X | X | X |
| JEFFERSON COUNTY R-1 | 3350 | 1053 | 31.43\% | 884 | 450 | 421 |
| JOHNSTOWN-MILLIKEN RE-5J | 28 | 6 | 21.43\% | 5 | 4 | 1 |
| JULESBURG RE-1 | 9 | X | X | X | X | X |
| KARVAL RE-23 | 2 | X | X | X | X | X |
| KEENESBURG RE-3(J) | 28 | 10 | 35.71\% | 9 | 8 | 5 |
| KIM REORGANIZED 88 | 7 | X | X | X | X | X |
| KIOWA C-2 | 13 | X | X | X | X | X |
| KIT CARSON R-1 | 15 | X | X | X | X | X |
| LA VETA RE-2 | 10 | X | X | X | X | X |
| LAKE COUNTY R-1 | 13 | X | X | X | X | X |
| LAMAR RE-2 | 64 | 25 | 39.06\% | 22 | 14 | 16 |
| LAS ANIMAS RE-1 | 25 | 15 | 60.00\% | 12 | 10 | 7 |
| LEWIS-PALMER 38 | 188 | 28 | 14.89\% | 24 | 13 | 13 |
| LIBERTY J-4 | 3 | X | X | X | X | X |
| LIMON RE-4J | 27 | 6 | 22.22\% | 5 | 1 | 2 |
| LITTLETON 6 | 631 | 145 | 22.98\% | 125 | 67 | 53 |
| LONE STAR 101 | 2 | X | X | X | X | X |
| MANCOS RE-6 | 7 | X | X | X | X | X |
| MANITOU SPRINGS 14 | 58 | 19 | 32.76\% | 18 | 11 | 8 |
| MANZANOLA 3J | 10 | X | X | X | X | X |
| MAPLETON 1 | 82 | 46 | 56.10\% | 37 | 33 | 28 |
| MC CLAVE RE-2 | 16 | X | X | X | X | X |
| MEEKER RE1 | 12 | X | X | X | X | X |
| MESA COUNTY VALLEY 51 | 592 | 223 | 37.67\% | 172 | 132 | 94 |
| MIAMI/YODER 60 JT | 6 | X | X | X | X | X |


| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MOFFAT 2 | 6 | X | X | X | X | X |
| MOFFAT COUNTY RE:NO 1 | 83 | 30 | 36.14\% | 26 | 18 | 16 |
| MONTE VISTA C-8 | 44 | 19 | 43.18\% | 19 | 9 | 8 |
| MONTEZUMA-CORTEZ RE-1 | 53 | 15 | 28.30\% | 12 | 8 | 9 |
| MONTROSE COUNTY RE-1J | 119 | 31 | 26.05\% | 27 | 15 | 13 |
| MOUNTAIN BOCES | 1 | X | X | X | X | X |
| MOUNTAIN VALLEY RE 1 | 5 | X | X | X | X | X |
| NORTH CONEJOS RE-1J | 47 | 24 | 51.06\% | 21 | 13 | 16 |
| NORTH PARK R-1 | 5 | X | X | X | X | X |
| NORTHGLENN-THORNTON 12 | 887 | 318 | 35.85\% | 252 | 172 | 156 |
| NORWOOD R-2J | 11 | X | X | X | X | X |
| OTIS R-3 | 8 | X | X | X | X | X |
| OURAY R-1 | 5 | X | X | X | X | X |
| PARK (ESTES PARK) R-3 | 39 | 8 | 20.51\% | 7 | 3 | 5 |
| PARK COUNTY RE-2 | 15 | X | X | X | X | X |
| PAWNEE RE-12 | 3 | X | X | X | X | X |
| PEYTON 23 JT | 26 | 9 | 34.62\% | 8 | 2 | 3 |
| PLAINVIEW RE-2 | 2 | X | X | X | X | X |
| PLATEAU RE-5 | 4 | X | X | X | X | X |
| PLATEAU VALLEY 50 | 9 | X | X | X | X | X |
| PLATTE CANYON 1 | 52 | 9 | 17.31\% | 8 | 6 | 2 |
| PLATTE VALLEY RE-3 | 2 | X | X | X | X | X |
| PLATTE VALLEY RE-7 | 28 | 10 | 35.71\% | 5 | 5 | 7 |
| POUDRE R-1 | 846 | 221 | 26.12\% | 182 | 93 | 102 |
| PRAIRIE RE-11 | 6 | X | X | X | X | X |
| PRIMERO REORGANIZED 2 | 6 | X | X | X | X | X |
| PRITCHETT RE-3 | 12 | X | X | X | X | X |
| PUEBLO CITY 60 | 507 | 262 | 51.68\% | 234 | 133 | 134 |


| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PUEBLO COUNTY RURAL 70 | 247 | 99 | 40.08\% | 87 | 33 | 37 |
| RANGELY RE-4 | 28 | 9 | 32.14\% | 7 | 4 | 2 |
| RIDGWAY R-2 | 12 | X | X | X | X | X |
| ROARING FORK RE-1 | 138 | 26 | 18.84\% | 23 | 10 | 7 |
| ROCKY FORD R-2 | 22 | X | X | X | X | X |
| SALIDA R-32 | 24 | X | X | X | X | X |
| SANFORD 6J | 12 | X | X | X | X | X |
| SANGRE DE CRISTO RE-22J | 16 | X | X | X | X | X |
| SARGENT RE-33J | 15 | X | X | X | X | X |
| SHERIDAN 2 | 33 | 16 | 48.48\% | 14 | 8 | 8 |
| SIERRA GRANDE R-30 | 11 | X | X | X | X | X |
| SILVERTON 1 | 3 | X | X | X | X | X |
| SOUTH CONEJOS RE-10 | 11 | X | X | X | X | X |
| SOUTH ROUTT RE 3 | 15 | X | X | X | X | X |
| SPRINGFIELD RE-4 | 21 | X | X | X | X | X |
| ST VRAIN VALLEY RE 1J | 688 | 218 | 31.69\% | 176 | 86 | 84 |
| STEAMBOAT SPRINGS RE-2 | 61 | 16 | 26.23\% | 13 | 7 | 5 |
| STRASBURG 31J | 32 | 6 | 18.75\% | 6 | 3 | 2 |
| STRATTON R-4 | 9 | X | X | X | X | X |
| SUMMIT RE-1 | 65 | 13 | 20.00\% | 8 | 6 | 3 |
| SWINK 33 | 20 | X | X | X | X | X |
| TELLURIDE R-1 | 11 | X | X | X | X | X |
| THOMPSON R-2J | 541 | 148 | 27.36\% | 115 | 67 | 69 |
| TRINIDAD 1 | 53 | 30 | 56.60\% | 27 | 17 | 18 |
| VALLEY RE-1 | 93 | 31 | 33.33\% | 28 | 14 | 14 |
| VILAS RE-5 | 14 | X | X | X | X | X |
| WALSH RE-1 | 13 | X | X | X | X | X |
| WELD COUNTY RE-1 | 47 | 12 | 25.53\% | 10 | 5 | 4 |


| DISTRICT NAME | ENROLLED STUDENTS | ASSESSED FOR REMEDIATION | REMEDIATION RATE | MATH | WRITING | READING |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WELD COUNTY S/D RE-8 | 49 | 19 | 38.78\% | 17 | 11 | 7 |
| WELDON VALLEY RE-20(J) | 9 | X | X | X | X | X |
| WEST END RE-2 | 8 | X | X | X | X | X |
| WEST GRAND 1-JT. | 12 | X | X | X | X | X |
| WESTMINSTER 50 | 215 | 103 | 47.91\% | 88 | 62 | 49 |
| WIDEFIELD 3 | 238 | 114 | 47.90\% | 100 | 51 | 65 |
| WIGGINS RE-50(J) | 23 | X | X | X | X | X |
| WILEY RE-13 JT | 16 | X | X | X | X | X |
| WINDSOR RE-4 | 85 | 32 | 37.65\% | 23 | 14 | 20 |
| WOODLAND PARK RE-2 | 96 | 29 | 30.21\% | 27 | 14 | 16 |
| WOODLIN R-104 | 2 | X | X | X | X | X |
| WRAY RD-2 | 26 | 7 | 26.92\% | 5 | 4 | 2 |
| YUMA 1 | 25 | 6 | 24.00\% | 5 | 1 | 3 |

APPENDIX C:
CCHE POLICIES AND DEFINITIONS

## a. Remedial Policy

In August 2000, the Commission on Higher Education adopted its remedial policy (CCHE Policy I-Part E), which was designed to determine whether all enrolled first-time undergraduate students are prepared to succeed in collegelevel courses, that students assessed as needing remedial instruction have accurate information regarding course availability and options to meet the college entry-level competencies, and that Colorado public high schools are informed about the level of college readiness of their recent high school graduates.

The policy applies to all state-supported institutions of higher education (fouryear and two-year colleges), and governing boards and institutions of the public system of higher education in Colorado are obligated to conform to the policies set by the Commission within the authorities delegated to it by C.R.S. 23-1-113.3, which include the following:

1) adopt and implement a remedial policy;
2) develop funding policies for remediation appropriate to institutional roles and missions;
3) design a reporting system that provides the General Assembly with information on the number, type, and costs of remediation;
4) establish comparability of placement or assessment tests; and
5) ensure each student identified as needing remediation is provided with written notification regarding cost and availability of remedial courses.

All public institutions of postsecondary education employ the following standard assessment "cut scores" (Table 12) to determine students" needs for remedial courses. Importantly, public four-year institutions-with the notable exceptions of Adams State College and Mesa State College, which have both two- and fouryear academic programs-are statutorily prohibited from offering basic skills courses for state funding. It is possible for a student to be deemed admissible to a four-year institution yet be assessed for placement in a remedial level course.

TABLE 12: CCHE BASIC SKILLS CUT SCORES

| SKILLS <br> AREA | ACT SUBSCORE | SAT SUBSCORE | ACCUPLACER <br> SCORE |
| :--- | :--- | :--- | :--- |
| MATHEMATICS | 19 (Math) | 460 (Math) | 85 (Elem. Algebra) |
| READING | 17 (Reading) | 430 (Verbal) | 80 (Reading Comp) |
| WRITING | 18 (English) | 440 (Verbal) | 95 (Sentence Skills) |

## b. FTE Policy

The Commission revised its FTE Policy in March 2001 ${ }^{16}$, clearly identifying the public institutions that may claim state support for remedial educationColorado community colleges, Adams State College, and Mesa State Collegeand the circumstances under which it may be claimed. A separate FTE reporting form was added to enable monitoring of state costs associated with the delivery of basic skills courses.

## c. Definitions

The following terms are used in this report.
Assessment: Pursuant to Commission policy I-E, all first-time entering students must be assessed for basic skills instructional needs. Colorado accepts three assessment instruments for determining if the first-time student is college ready in mathematics, reading, and writing: ACT, SAT, and Accuplacer (math: Elementary Algebra; writing: Sentence Skills; reading: Reading Comprehension).

Cohort: The data found herein reflect a cohort approach rather than matching data from graduating high school seniors to that of entering freshman. For the purposes of this report, a cohort is defined as all first-time students ages 17 to 19 from Colorado high schools. Stated inversely, this report excludes information on adult (non-traditional) and out-of-state enrolling students. In addition, this report is limited to only those students that applied and enrolled in a public college or university in Colorado. Students that applied but did not enroll, did not apply at all, or enrolled in a private or out-of-state institution, are excluded from the research sample.

Remedial Instruction: According to statute (23-1-113.3 C.R.S.), this report is intended to present information on "basic skills" courses, which is a classification that, technically speaking, includes remedial instruction as well as other subcollege level work, such as English as a Second Language courses. Nonetheless, the focus of this report is on remedial education needs (or college-level proficiencies) of entering first-time students from Colorado high schools for writing (English), mathematics, and reading. As a result, the terms "remedial instruction" and "remedial courses" are used to describe, generically, basic skills courses in mathematics, reading, and English only.

During FY 2001, CCHE staff and representatives from the governing boards developed a reporting system in order to provide the General Assembly with information on remediated students and the type of remediation needed. Beginning Summer/ Fall 2001, institutions submitted the first data files.

[^13]School District/High School Information: Information on school districts and high schools was provided to the Colorado Commission on Higher Education by the Colorado Department of Education. No attempt was made by the Commission on Higher Education to modify, change, or exclude any school district or high school, except for information from districts or schools enrolling fewer than 25 students, which was excluded from this report to protect the identities of students from those institutions.


[^0]:    ${ }^{1}$ Fall headcount enrollment in 2002: 213,676; fall headcount in 2004: 220,024. Data source: Colorado Commission on Higher Education Student Unit Record Data System (SURDS).
    ${ }^{2}$ This statistic employs preparation standards developed by ACT. This figure is not reflective of students’ ability to meet the Colorado State Board of Education's curriculum standards or admission requirements adopted by the Colorado Commission on Higher Education.

[^1]:    ${ }^{3}$ This statistic employs preparation standards developed by ACT. This figure is not reflective of students' ability to meet the Colorado State Board of Education's curriculum standards or admission requirements adopted by the Colorado Commission on Higher Education.

[^2]:    ${ }^{4}$ The "Colorado Paradox" is the expression used to describe the following situation: that Colorado, as a state, has one of the nation's most educated populations (according to reports from the U.S. Census) and a belowaverage college-going rate among recent high school graduates.

[^3]:    ${ }^{5}$ For the purpose of this analysis, district size was determined based upon the number of students enrolling at public colleges, not actual district enrollment.

[^4]:    ${ }^{6}$ Table excludes schools districts with fewer than 25 enrolling students.

[^5]:    ${ }^{7}$ Table excludes schools districts with fewer than 25 enrolling students.
    ${ }^{8}$ For the purpose of this analysis, school size was determined based upon the number of students enrolling at public colleges, not actual enrollment.

[^6]:    ${ }^{9}$ Excludes schools with fewer than 25 enrolling students.

[^7]:    ${ }^{10}$ Excludes schools with fewer than 25 enrolling students.

[^8]:    ${ }^{11}$ Fort Lewis College's statutorily defined selectivity changed from "moderately selective" to "selective" in 2005.

[^9]:    ${ }^{12}$ Records used in this analysis were limited to public high school graduates from Colorado who were first-time enrollees in fall 2003; were dependents; were classified as in-state students for tuition purposes; were 17, 18 \& 19 years of age; and whose information was reported in the CCHE SURDS remedial and financial aid (FY 2004) files. The following data were used to derive the remediation rates illustrated in Figure 1: Total HC $<\$ 25,000=11,407$ [4,536 2-year; 6,871 4-year]; Total HC $\$ 25,000-44,999=4,860[1,850 ; 3,010]$; Total HC $\$ 45,000-75,000=6,284$ [1,777; 4,507]; Total HC $>\$ 75,000=7,428$ [1,272; 6,156]; Remedial Assignment HC: Rem HC $<\$ 25,000=773$ [444 2-year; 329 4-year]; Rem HC $\$ 25,000-44,999=976$ [588; 388]; Rem HC $\$ 45,000-75,000=1,065[558 ; 507] ;$ Rem HC >\$75,000 $=922$ [436; 486].

[^10]:    ${ }^{13}$ For a more complete discussion on individual and social returns to degree, see Leslie, L. \& P. Brinkman. (1988). The economic value of higher education. New York: MacMillan Publishing Company.

[^11]:    ${ }^{14}$ Data from schools with fewer than 25 enrolling students are not included herein.

[^12]:    ${ }^{15}$ Data from districts with fewer than 25 enrolling students are not reported herein.

[^13]:    ${ }^{16}$ The CCHE FTE Policy is currently being revised to reflect the changes in funding structures as a result of the implementation of the College Opportunity Fund (COF) stipend program.

