



# Profile Report - State

Graduating Class 2015

Massachusetts





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This report provides information about the performance of your 2015 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2015. Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included in the report.

This report focuses on:

**Performance** - student test performance in the context of college readiness

**Access** - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

**Course Selection** - percent of students pursuing a core curriculum

**Course Rigor** - impact of rigorous coursework on achievement

**College Readiness** - percent of students meeting ACT College Readiness Benchmark Scores in each content area

**Awareness** - extent to which student aspirations match performance

**Articulation** - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students who met or exceeded ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

**The ACT is a curriculum-based measure of college readiness. ACT components include:**

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

**The ACT:**

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at [www.act.org/standard/infoserv.html](http://www.act.org/standard/infoserv.html).

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores, updated in August of 2013, are:

| College Course/Course Area | ACT Test    | Benchmark Score |
|----------------------------|-------------|-----------------|
| English Composition        | English     | 18              |
| Algebra                    | Mathematics | 22              |
| Social Sciences            | Reading     | 22              |
| Biology                    | Science     | 23              |

For more information, go to [www.act.org](http://www.act.org)

## How to Improve Scores and Increase College Readiness

51% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

**PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT:** 19,617 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

**MAKING CORE CURRICULUM A PRIORITY:** Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 62% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

**MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES:** Table 3.2 reports 1% of the cohort took less than three years of math courses. Of these students, 45% were college ready. 4% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 26% of these students were college ready. In comparison, 74% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 4% of the cohort took less than three years of natural science courses. 39% of these students were college ready. In comparison, 62% of students who took at least three years of science coursework were college ready.

**EVALUATING RIGOR OF COURSES:** Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 21% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS:** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact ACT Customer Service at 319-337-1309 or [customerservices@act.org](mailto:customerservices@act.org).

# Section I

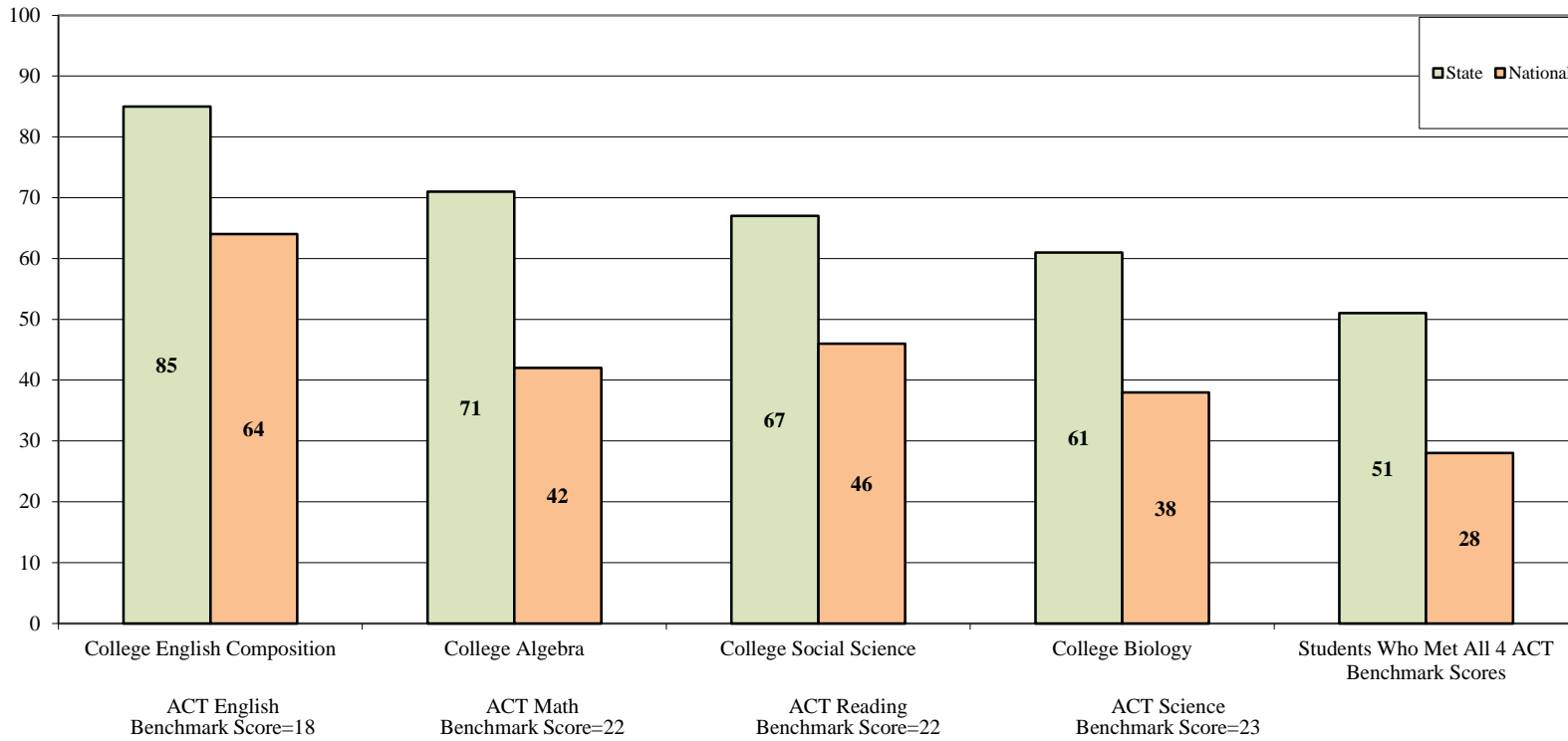
## Executive Summary

Beginning in August of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning in August 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

To find the results of only standard time or extended time test takers, refer to Tables 1.7 and 1.8 on page 10.

Figure 1.1. Percent of Your Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.



Total Students in Report: 19,617

**Table 1.1. Five Year Trends—Percent of Students Who Met College Readiness Benchmarks**

| Year        | Number of Students Tested |                  | Percent Who Met Benchmarks |           |             |           |           |           |           |           |              |           |
|-------------|---------------------------|------------------|----------------------------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|--------------|-----------|
|             |                           |                  | English                    |           | Mathematics |           | Reading   |           | Science   |           | Met All Four |           |
|             | State                     | National         | State                      | National  | State       | National  | State     | National  | State     | National  | State        | National  |
| 2011        | 14,975                    | 1,623,112        | 86                         | 66        | 73          | 45        | 74        | 52        | 47        | 30        | 43           | 25        |
| 2012        | 15,398                    | 1,666,017        | 86                         | 67        | 73          | 46        | 72        | 52        | 48        | 31        | 44           | 25        |
| 2013        | 16,058                    | 1,799,243        | 84                         | 64        | 72          | 44        | 66        | 44        | 55        | 36        | 46           | 26        |
| 2014        | 16,651                    | 1,845,787        | 85                         | 64        | 72          | 43        | 65        | 44        | 58        | 37        | 47           | 26        |
| <b>2015</b> | <b>19,617</b>             | <b>1,924,436</b> | <b>85</b>                  | <b>64</b> | <b>71</b>   | <b>42</b> | <b>67</b> | <b>46</b> | <b>61</b> | <b>38</b> | <b>51</b>    | <b>28</b> |

**Table 1.2. Five Year Trends—Average ACT Scores**

| Year        | Number of Students Tested |                  | Average ACT Scores |             |             |             |             |             |             |             |             |             |
|-------------|---------------------------|------------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|             |                           |                  | English            |             | Mathematics |             | Reading     |             | Science     |             | Composite   |             |
|             | State                     | National         | State              | National    | State       | National    | State       | National    | State       | National    | State       | National    |
| 2011        | 14,975                    | 1,623,112        | 24.1               | 20.6        | 24.6        | 21.1        | 24.4        | 21.3        | 23.2        | 20.9        | 24.2        | 21.1        |
| 2012        | 15,398                    | 1,666,017        | 23.9               | 20.5        | 24.5        | 21.1        | 24.2        | 21.3        | 23.2        | 20.9        | 24.1        | 21.1        |
| 2013        | 16,058                    | 1,799,243        | 23.8               | 20.2        | 24.4        | 20.9        | 24.4        | 21.1        | 23.2        | 20.7        | 24.1        | 20.9        |
| 2014        | 16,651                    | 1,845,787        | 24.0               | 20.3        | 24.6        | 20.9        | 24.5        | 21.3        | 23.5        | 20.8        | 24.3        | 21.0        |
| <b>2015</b> | <b>19,617</b>             | <b>1,924,436</b> | <b>24.2</b>        | <b>20.4</b> | <b>24.6</b> | <b>20.8</b> | <b>24.6</b> | <b>21.4</b> | <b>23.8</b> | <b>20.9</b> | <b>24.4</b> | <b>21.0</b> |

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

| Year        | Number of Students Tested | Average ACT Scores |             |             |             |             |
|-------------|---------------------------|--------------------|-------------|-------------|-------------|-------------|
|             |                           | English            | Mathematics | Reading     | Science     | Composite   |
| 2011        | 1,623,112                 | 20.6               | 21.1        | 21.3        | 20.9        | 21.1        |
| 2012        | 1,666,017                 | 20.5               | 21.1        | 21.3        | 20.9        | 21.1        |
| 2013        | 1,799,243                 | 20.2               | 20.9        | 21.1        | 20.7        | 20.9        |
| 2014        | 1,845,787                 | 20.3               | 20.9        | 21.3        | 20.8        | 21.0        |
| <b>2015</b> | <b>1,924,436</b>          | <b>20.4</b>        | <b>20.8</b> | <b>21.4</b> | <b>20.9</b> | <b>21.0</b> |

Total Students in Report: 19,617

**Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation**

| Year        | Number of Students Tested |                | Percent <sup>2</sup> |                | Average ACT Scores |                |              |                |              |                |              |                |              |                |
|-------------|---------------------------|----------------|----------------------|----------------|--------------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|
|             | Core or More <sup>1</sup> | Less than Core | Core or More         | Less than Core | English            |                | Mathematics  |                | Reading      |                | Science      |                | Composite    |                |
|             |                           |                |                      |                | Core or More       | Less than Core | Core or More | Less than Core | Core or More | Less than Core | Core or More | Less than Core | Core or More | Less than Core |
| 2011        | 9,685                     | 5,076          | 65                   | 34             | 24.2               | 24.1           | 24.6         | 24.7           | 24.5         | 24.4           | 23.3         | 23.2           | 24.3         | 24.2           |
| 2012        | 9,840                     | 5,373          | 64                   | 35             | 24.1               | 23.7           | 24.6         | 24.3           | 24.4         | 23.9           | 23.4         | 23.0           | 24.2         | 23.9           |
| 2013        | 9,979                     | 5,708          | 62                   | 36             | 24.1               | 23.3           | 24.6         | 24.3           | 24.7         | 24.0           | 23.4         | 23.0           | 24.3         | 23.8           |
| 2014        | 10,450                    | 5,897          | 63                   | 35             | 24.2               | 23.9           | 24.6         | 24.7           | 24.7         | 24.4           | 23.5         | 23.5           | 24.4         | 24.2           |
| <b>2015</b> | <b>12,172</b>             | <b>7,052</b>   | <b>62</b>            | <b>36</b>      | <b>24.3</b>        | <b>24.1</b>    | <b>24.6</b>  | <b>24.7</b>    | <b>24.8</b>  | <b>24.5</b>    | <b>23.8</b>  | <b>23.9</b>    | <b>24.5</b>  | <b>24.4</b>    |

<sup>1</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

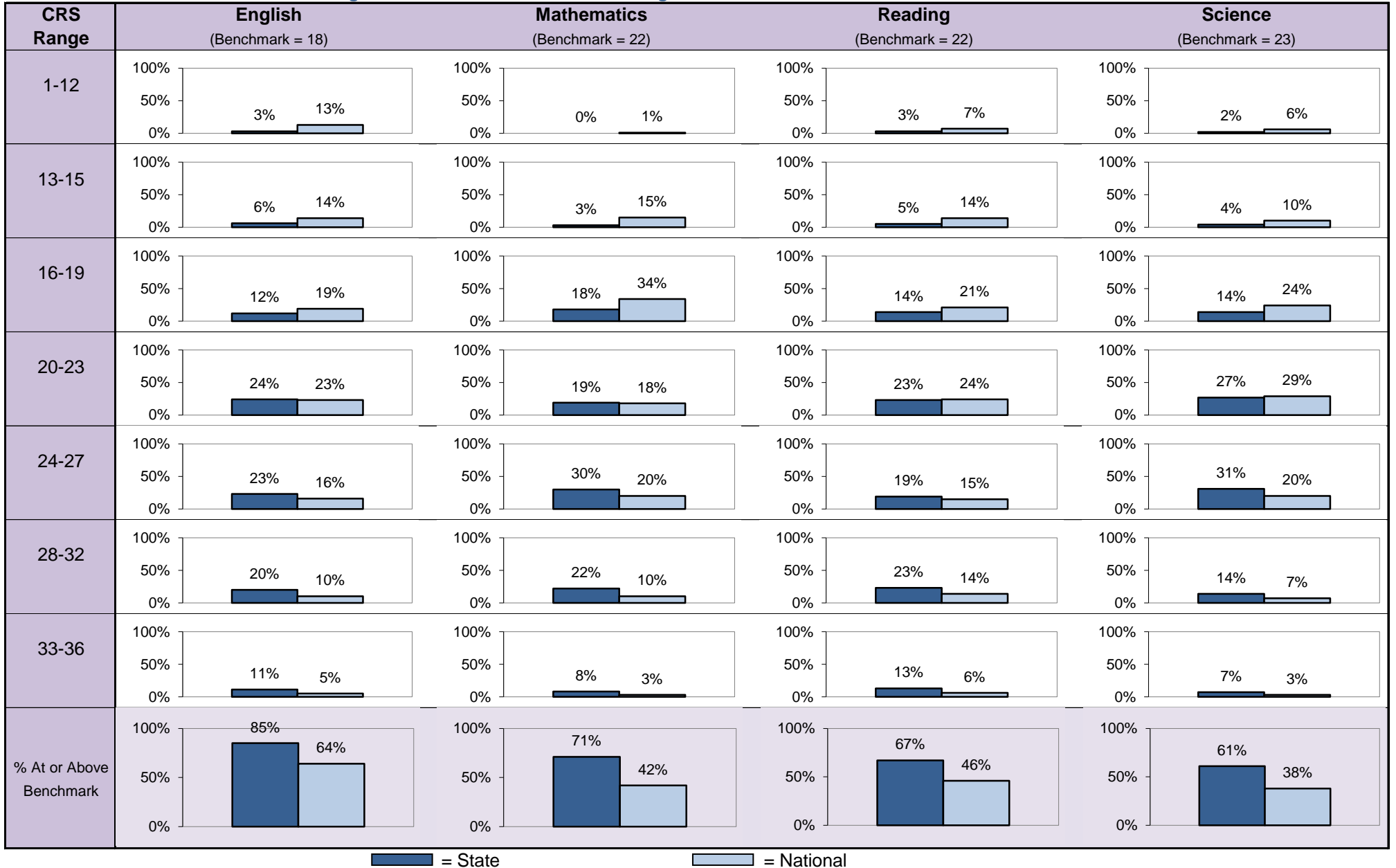
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

**Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity**

|  | 2011          |            |             | 2012          |            |             | 2013          |            |             | 2014          |            |             | 2015          |            |             |
|--|---------------|------------|-------------|---------------|------------|-------------|---------------|------------|-------------|---------------|------------|-------------|---------------|------------|-------------|
|  | N             | %          | Avg         | N             | %          | Avg         | N             | %          | Avg         | N             | %          | Avg         | N             | %          | Avg         |
| <b>All Students</b>                    | <b>14,975</b> | <b>100</b> | <b>24.2</b> | <b>15,398</b> | <b>100</b> | <b>24.1</b> | <b>16,058</b> | <b>100</b> | <b>24.1</b> | <b>16,651</b> | <b>100</b> | <b>24.3</b> | <b>19,617</b> | <b>100</b> | <b>24.4</b> |
| Black/African American                 | 573           | 4          | 19.4        | 651           | 4          | 19.2        | 691           | 4          | 19.0        | 688           | 4          | 19.2        | 820           | 4          | 19.6        |
| American Indian/Alaska Native          | 23            | 0          | 23.8        | 34            | 0          | 22.3        | 25            | 0          | 22.9        | 34            | 0          | 22.4        | 32            | 0          | 22.2        |
| White                                  | 11,460        | 77         | 24.5        | 11,296        | 73         | 24.3        | 11,633        | 72         | 24.5        | 11,985        | 72         | 24.6        | 13,833        | 71         | 24.7        |
| Hispanic/Latino                        | 675           | 5          | 21.1        | 819           | 5          | 21.4        | 844           | 5          | 21.0        | 953           | 6          | 21.3        | 1,173         | 6          | 21.6        |
| Asian                                  | 836           | 6          | 25.5        | 1,016         | 7          | 25.1        | 1,054         | 7          | 25.0        | 1,204         | 7          | 25.4        | 1,562         | 8          | 25.7        |
| Native Hawaiian/Other Pacific Islander | 4             | 0          | 21.5        | 12            | 0          | 24.4        | 15            | 0          | 24.8        | 6             | 0          | 24.2        | 17            | 0          | 21.8        |
| Two or more races                      | 302           | 2          | 25.0        | 361           | 2          | 24.6        | 353           | 2          | 23.9        | 404           | 2          | 24.5        | 480           | 2          | 25.2        |
| Prefer not to respond/No response      | 1,102         | 7          | 24.5        | 1,209         | 8          | 24.9        | 1,443         | 9          | 24.5        | 1,377         | 8          | 25.2        | 1,700         | 9          | 24.8        |

Total Students in Report: 19,617

**Table 1.6. Percent of Students in College Readiness Standards Score Ranges**



Total Students in Report: 19,617

**Table 1.7. Average ACT College Reportable Scores by Test Session Duration**

| Student Group | Test Session Duration | N         | Percent | Average ACT Scores |             |         |         |           |
|---------------|-----------------------|-----------|---------|--------------------|-------------|---------|---------|-----------|
|               |                       |           |         | English            | Mathematics | Reading | Science | Composite |
| State         | Standard Time         | 18,574    | 95      | 24.2               | 24.7        | 24.6    | 23.8    | 24.5      |
|               | Extended Time         | 1,043     | 5       | 23.1               | 23.0        | 25.3    | 23.4    | 23.8      |
|               | Total                 | 19,617    | 100     | 24.2               | 24.6        | 24.6    | 23.8    | 24.4      |
| National      | Standard Time         | 1,838,433 | 96      | 20.6               | 21.0        | 21.5    | 21.1    | 21.2      |
|               | Extended Time         | 86,003    | 4       | 16.5               | 18.1        | 18.8    | 18.3    | 18.1      |
|               | Total                 | 1,924,436 | 100     | 20.4               | 20.8        | 21.4    | 20.9    | 21.0      |

**Table 1.8. Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration**

| Student Group | Test Session Duration | Percent of Students |             |         |         | Met All Four |
|---------------|-----------------------|---------------------|-------------|---------|---------|--------------|
|               |                       | English             | Mathematics | Reading | Science |              |
| State         | Standard Time         | 85                  | 72          | 67      | 61      | 51           |
|               | Extended Time         | 79                  | 58          | 70      | 58      | 47           |
|               | Total                 | 85                  | 71          | 67      | 61      | 51           |
| National      | Standard Time         | 65                  | 43          | 47      | 39      | 28           |
|               | Extended Time         | 38                  | 22          | 32      | 23      | 16           |
|               | Total                 | 64                  | 42          | 46      | 38      | 28           |

# Section II

## Academic Achievement

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 19,617

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages**

| ACT Scale Score | English    |     | Mathematics |     | Reading    |     | Science    |     | Composite  |     | ACT Scale Score |
|-----------------|------------|-----|-------------|-----|------------|-----|------------|-----|------------|-----|-----------------|
|                 | N          | CP  | N           | CP  | N          | CP  | N          | CP  | N          | CP  |                 |
| 36              | 146        | 100 | 234         | 100 | 340        | 100 | 262        | 100 | 34         | 100 | 36              |
| 35              | 599        | 99  | 348         | 99  | 381        | 98  | 349        | 99  | 222        | 100 | 35              |
| 34              | 859        | 96  | 537         | 97  | 813        | 96  | 454        | 97  | 435        | 99  | 34              |
| 33              | 599        | 92  | 418         | 94  | 1,030      | 92  | 384        | 95  | 562        | 96  | 33              |
| 32              | 838        | 89  | 588         | 92  | 901        | 87  | 609        | 93  | 685        | 94  | 32              |
| 31              | 756        | 84  | 541         | 89  | 798        | 82  | 335        | 90  | 766        | 90  | 31              |
| 30              | 613        | 81  | 732         | 86  | 1,014      | 78  | 520        | 88  | 932        | 86  | 30              |
| 29              | 642        | 78  | 933         | 83  | 882        | 73  | 547        | 85  | 1,026      | 81  | 29              |
| 28              | 999        | 74  | 1,501       | 78  | 831        | 69  | 766        | 82  | 1,208      | 76  | 28              |
| 27              | 808        | 69  | 1,545       | 70  | 884        | 64  | 1,001      | 78  | 1,217      | 70  | 27              |
| 26              | 1,140      | 65  | 1,815       | 62  | 864        | 60  | 1,367      | 73  | 1,280      | 64  | 26              |
| 25              | 1,393      | 59  | 1,250       | 53  | 883        | 55  | 1,765      | 66  | 1,399      | 57  | 25              |
| 24              | 1,177      | 52  | 1,354       | 47  | 1,193      | 51  | 1,999      | 57  | 1,383      | 50  | 24              |
| 23              | 1,301      | 46  | 1,252       | 40  | 1,202      | 45  | 1,642      | 47  | 1,347      | 43  | 23              |
| 22              | 1,099      | 39  | 897         | 33  | 1,176      | 39  | 1,096      | 39  | 1,330      | 36  | 22              |
| 21              | 1,285      | 34  | 648         | 29  | 1,126      | 33  | 1,523      | 33  | 1,140      | 30  | 21              |
| 20              | 1,090      | 27  | 871         | 26  | 1,011      | 27  | 1,059      | 25  | 1,000      | 24  | 20              |
| 19              | 644        | 22  | 861         | 21  | 900        | 22  | 1,027      | 20  | 893        | 19  | 19              |
| 18              | 625        | 18  | 805         | 17  | 780        | 17  | 654        | 15  | 728        | 14  | 18              |
| 17              | 472        | 15  | 1,043       | 13  | 504        | 13  | 562        | 12  | 596        | 10  | 17              |
| 16              | 654        | 13  | 741         | 7   | 516        | 11  | 504        | 9   | 490        | 7   | 16              |
| 15              | 692        | 10  | 410         | 4   | 464        | 8   | 355        | 6   | 343        | 5   | 15              |
| 14              | 338        | 6   | 172         | 1   | 359        | 6   | 236        | 4   | 282        | 3   | 14              |
| 13              | 212        | 4   | 83          | 1   | 237        | 4   | 229        | 3   | 160        | 2   | 13              |
| 12              | 177        | 3   | 25          | 1   | 274        | 3   | 142        | 2   | 84         | 1   | 12              |
| 11              | 174        | 2   | 10          | 1   | 94         | 1   | 101        | 1   | 46         | 1   | 11              |
| 10              | 145        | 1   | 1           | 1   | 95         | 1   | 49         | 1   | 19         | 1   | 10              |
| 9               | 76         | 1   | 0           | 1   | 9          | 1   | 41         | 1   | 7          | 1   | 9               |
| 8               | 28         | 1   | 1           | 1   | 28         | 1   | 18         | 1   | 1          | 1   | 8               |
| 7               | 22         | 1   | 0           | 1   | 16         | 1   | 4          | 1   | 1          | 1   | 7               |
| 6               | 9          | 1   | 0           | 1   | 8          | 1   | 3          | 1   | 0          | 1   | 6               |
| 5               | 2          | 1   | 0           | 1   | 0          | 1   | 10         | 1   | 1          | 1   | 5               |
| 4               | 2          | 1   | 1           | 1   | 4          | 1   | 1          | 1   | 0          | 1   | 4               |
| 3               | 0          | 1   | 0           | 1   | 0          | 1   | 2          | 1   | 0          | 1   | 3               |
| 2               | 1          | 1   | 0           | 1   | 0          | 1   | 1          | 1   | 0          | 1   | 2               |
| 1               | 0          | 1   | 0           | 1   | 0          | 1   | 0          | 1   | 0          | 1   | 1               |
| Avg (SD)        | 24.2 (6.2) |     | 24.6 (5.3)  |     | 24.6 (6.3) |     | 23.8 (5.4) |     | 24.4 (5.2) |     | Avg (SD)        |

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 19,617

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subscore Averages**

| ACT Scale Score | English          |     |                   |     | Reading                  |     |                  |     | Mathematics            |     |                              |     |                              |     | ACT Scale Score |
|-----------------|------------------|-----|-------------------|-----|--------------------------|-----|------------------|-----|------------------------|-----|------------------------------|-----|------------------------------|-----|-----------------|
|                 | Usage/ Mechanics |     | Rhetorical Skills |     | Social Studies/ Sciences |     | Arts/ Literature |     | Pre/Elementary Algebra |     | Algebra/ Coordinate Geometry |     | Plane Geometry/ Trigonometry |     |                 |
|                 | N                | CP  | N                 | CP  | N                        | CP  | N                | CP  | N                      | CP  | N                            | CP  | N                            | CP  |                 |
| 18              | 1,760            | 100 | 684               | 100 | 1,296                    | 100 | 1,843            | 100 | 1,872                  | 100 | 443                          | 100 | 558                          | 100 | 18              |
| 17              | 2,283            | 91  | 653               | 97  | 1,790                    | 93  | 1,829            | 91  | 1,702                  | 90  | 503                          | 98  | 213                          | 97  | 17              |
| 16              | 1,171            | 79  | 2,202             | 93  | 1,850                    | 84  | 1,920            | 81  | 2,367                  | 82  | 1,051                        | 95  | 1,997                        | 96  | 16              |
| 15              | 1,917            | 73  | 2,009             | 82  | 1,711                    | 75  | 2,310            | 71  | 1,750                  | 70  | 2,337                        | 90  | 2,337                        | 86  | 15              |
| 14              | 1,152            | 64  | 1,826             | 72  | 1,359                    | 66  | 1,754            | 60  | 1,738                  | 61  | 3,142                        | 78  | 2,679                        | 74  | 14              |
| 13              | 1,572            | 58  | 2,271             | 62  | 2,113                    | 59  | 1,618            | 51  | 2,316                  | 52  | 2,565                        | 62  | 2,448                        | 60  | 13              |
| 12              | 1,571            | 50  | 2,157             | 51  | 1,968                    | 48  | 1,554            | 43  | 2,114                  | 40  | 1,854                        | 49  | 2,205                        | 48  | 12              |
| 11              | 2,150            | 42  | 2,238             | 40  | 1,737                    | 38  | 1,337            | 35  | 1,170                  | 29  | 2,462                        | 39  | 1,988                        | 37  | 11              |
| 10              | 1,634            | 31  | 1,487             | 28  | 1,759                    | 30  | 1,222            | 28  | 1,390                  | 23  | 1,998                        | 27  | 1,991                        | 26  | 10              |
| 9               | 1,233            | 22  | 1,626             | 21  | 1,091                    | 21  | 1,151            | 22  | 1,084                  | 16  | 1,613                        | 17  | 1,462                        | 16  | 9               |
| 8               | 1,077            | 16  | 999               | 13  | 1,249                    | 15  | 896              | 16  | 907                    | 11  | 778                          | 8   | 733                          | 9   | 8               |
| 7               | 803              | 11  | 544               | 7   | 901                      | 9   | 749              | 11  | 797                    | 6   | 469                          | 4   | 466                          | 5   | 7               |
| 6               | 607              | 7   | 383               | 5   | 361                      | 4   | 766              | 7   | 281                    | 2   | 101                          | 2   | 257                          | 3   | 6               |
| 5               | 357              | 4   | 296               | 3   | 214                      | 2   | 382              | 3   | 76                     | 1   | 164                          | 2   | 115                          | 1   | 5               |
| 4               | 208              | 2   | 143               | 1   | 86                       | 1   | 208              | 1   | 34                     | 1   | 46                           | 1   | 68                           | 1   | 4               |
| 3               | 87               | 1   | 76                | 1   | 44                       | 1   | 50               | 1   | 14                     | 1   | 68                           | 1   | 65                           | 1   | 3               |
| 2               | 30               | 1   | 20                | 1   | 53                       | 1   | 27               | 1   | 4                      | 1   | 3                            | 1   | 2                            | 1   | 2               |
| 1               | 5                | 1   | 3                 | 1   | 35                       | 1   | 1                | 1   | 1                      | 1   | 20                           | 1   | 33                           | 1   | 1               |
| Avg (SD)        | 12.5 (3.8)       |     | 12.2 (3.2)        |     | 12.5 (3.5)               |     | 12.8 (3.7)       |     | 13.2 (3.3)             |     | 12.3 (2.8)                   |     | 12.4 (2.9)                   |     | Avg (SD)        |

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

**Table 2.3. ACT Score Quartile Values**

| Quartile             | English | Mathematics | Reading | Science | Composite |
|----------------------|---------|-------------|---------|---------|-----------|
| Q3 (75th Percentile) | 29      | 28          | 30      | 27      | 28        |
| Q2 (50th Percentile) | 24      | 25          | 24      | 24      | 24        |
| Q1 (25th Percentile) | 20      | 20          | 20      | 20      | 21        |

Total Students in Report: 19,617

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation**

| Student Group | Race/Ethnicity                  | Number of Students Tested | Percent Taking Core or More <sup>1</sup> | Average ACT Composite Score |                |
|---------------|---------------------------------|---------------------------|--|-----------------------------|----------------|
|               |                                 |                           |  | Core or More                | Less Than Core |
| State         | <b>All Students</b>             | <b>19,617</b>             | <b>62</b>                                | <b>24.5</b>                 | <b>24.4</b>    |
|               | Black/African American          | 820                       | 57                                       | 19.7                        | 19.5           |
|               | American Indian/Alaska Native   | 32                        | 47                                       | 23.0                        | 22.0           |
|               | White                           | 13,833                    | 64                                       | 24.7                        | 24.8           |
|               | Hispanic/Latino                 | 1,173                     | 56                                       | 22.0                        | 21.1           |
|               | Asian                           | 1,562                     | 55                                       | 25.7                        | 25.7           |
|               | Native Hawaiian/Other Pac. Isl. | 17                        | 65                                       | 21.7                        | 23.4           |
|               | Two or more races               | 480                       | 63                                       | 25.2                        | 25.2           |
|               | Prefer not/No Response          | 1,700                     | 57                                       | 25.5                        | 25.0           |
| National      | <b>All Students</b>             | <b>1,924,436</b>          | <b>72</b>                                | <b>21.9</b>                 | <b>18.9</b>    |
|               | Black/African American          | 252,566                   | 67                                       | 17.8                        | 15.9           |
|               | American Indian/Alaska Native   | 14,711                    | 61                                       | 19.0                        | 16.5           |
|               | White                           | 1,057,803                 | 76                                       | 23.2                        | 20.2           |
|               | Hispanic/Latino                 | 299,920                   | 71                                       | 19.6                        | 17.4           |
|               | Asian                           | 87,499                    | 79                                       | 24.5                        | 22.0           |
|               | Native Hawaiian/Other Pac. Isl. | 6,090                     | 62                                       | 20.3                        | 16.5           |
|               | Two or more races               | 76,066                    | 73                                       | 22.0                        | 19.3           |
|               | Prefer not/No Response          | 129,781                   | 54                                       | 22.6                        | 18.5           |

<sup>1</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

**Table 2.5. Average ACT Scores by Race/Ethnicity**

| Student Group | Race/Ethnicity                  | English | Mathematics | Reading | Science | Composite |
|---------------|---------------------------------|---------|-------------|---------|---------|-----------|
| State         | <b>All Students</b>             | 24.2    | 24.6        | 24.6    | 23.8    | 24.4      |
|               | Black/African American          | 19.0    | 20.1        | 19.8    | 19.1    | 19.6      |
|               | American Indian/Alaska Native   | 21.7    | 22.2        | 21.9    | 22.7    | 22.2      |
|               | White                           | 24.6    | 24.7        | 25.0    | 24.1    | 24.7      |
|               | Hispanic/Latino                 | 21.0    | 21.8        | 22.0    | 21.0    | 21.6      |
|               | Asian                           | 24.8    | 27.6        | 24.7    | 25.1    | 25.7      |
|               | Native Hawaiian/Other Pac. Isl. | 21.7    | 20.6        | 23.2    | 20.6    | 21.8      |
|               | Two or more races               | 25.1    | 25.1        | 25.7    | 24.4    | 25.2      |
|               | Prefer not/No Response          | 24.7    | 24.9        | 25.2    | 24.1    | 24.8      |
| National      | <b>All Students</b>             | 20.4    | 20.8        | 21.4    | 20.9    | 21.0      |
|               | Black/African American          | 15.9    | 17.2        | 17.4    | 17.3    | 17.1      |
|               | American Indian/Alaska Native   | 16.6    | 18.1        | 18.4    | 18.2    | 17.9      |
|               | White                           | 22.1    | 21.9        | 22.9    | 22.2    | 22.4      |
|               | Hispanic/Latino                 | 17.8    | 19.1        | 19.2    | 19.0    | 18.9      |
|               | Asian                           | 23.0    | 25.0        | 23.3    | 23.6    | 23.9      |
|               | Native Hawaiian/Other Pac. Isl. | 17.7    | 19.2        | 18.9    | 18.8    | 18.8      |
|               | Two or more races               | 20.7    | 20.8        | 21.8    | 21.1    | 21.2      |
|               | Prefer not/No Response          | 19.9    | 20.5        | 21.1    | 20.5    | 20.6      |



Total Students in Report: 19,617

**Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges**

| Student Group | CRS Range | English |    | Mathematics |    | Reading |    | Science |    |
|---------------|-----------|---------|----|-------------|----|---------|----|---------|----|
|               |           | N       | %  | N           | %  | N       | %  | N       | %  |
| State         | 33 to 36  | 2,203   | 11 | 1,537       | 8  | 2,564   | 13 | 1,449   | 7  |
|               | 28 to 32  | 3,848   | 20 | 4,295       | 22 | 4,426   | 23 | 2,777   | 14 |
|               | 24 to 27  | 4,518   | 23 | 5,964       | 30 | 3,824   | 19 | 6,132   | 31 |
|               | 20 to 23  | 4,775   | 24 | 3,668       | 19 | 4,515   | 23 | 5,320   | 27 |
|               | 16 to 19  | 2,395   | 12 | 3,450       | 18 | 2,700   | 14 | 2,747   | 14 |
|               | 13 to 15  | 1,242   | 6  | 665         | 3  | 1,060   | 5  | 820     | 4  |
|               | 01 to 12  | 636     | 3  | 38          | 0  | 528     | 3  | 372     | 2  |
| National      | 33 to 36  | 100,774 | 5  | 54,201      | 3  | 114,663 | 6  | 62,731  | 3  |
|               | 28 to 32  | 198,676 | 10 | 185,515     | 10 | 261,565 | 14 | 140,666 | 7  |
|               | 24 to 27  | 303,299 | 16 | 384,130     | 20 | 281,364 | 15 | 388,063 | 20 |
|               | 20 to 23  | 444,997 | 23 | 352,854     | 18 | 463,232 | 24 | 559,967 | 29 |
|               | 16 to 19  | 357,690 | 19 | 646,399     | 34 | 409,189 | 21 | 462,353 | 24 |
|               | 13 to 15  | 277,710 | 14 | 283,831     | 15 | 264,288 | 14 | 200,383 | 10 |
|               | 01 to 12  | 241,290 | 13 | 17,506      | 1  | 130,135 | 7  | 110,273 | 6  |

**Table 2.7. Average ACT Scores by Gender**

| Student Group | Gender  | N         | Percent | Average ACT Scores |             |         |         |           |
|---------------|---------|-----------|---------|--------------------|-------------|---------|---------|-----------|
|               |         |           |         | English            | Mathematics | Reading | Science | Composite |
| State         | Males   | 8,706     | 44      | 24.0               | 25.4        | 24.7    | 24.4    | 24.8      |
|               | Females | 10,910    | 56      | 24.3               | 23.9        | 24.5    | 23.3    | 24.1      |
|               | Missing | 1         | 0       | 35.0               | 27.0        | 35.0    | 36.0    | 33.0      |
| National      | Males   | 895,775   | 47      | 20.0               | 21.3        | 21.2    | 21.3    | 21.1      |
|               | Females | 1,013,212 | 53      | 20.8               | 20.4        | 21.6    | 20.6    | 21.0      |
|               | Missing | 15,449    | 1       | 15.7               | 17.7        | 17.6    | 17.5    | 17.3      |

**Table 2.8. Percent of Students Who Met College Readiness Benchmark Scores by Gender**

| Student Group | Gender  | Percent of Students |             |         |         | Met All Four |
|---------------|---------|---------------------|-------------|---------|---------|--------------|
|               |         | English             | Mathematics | Reading | Science |              |
| State         | Males   | 84                  | 76          | 68      | 66      | 54           |
|               | Females | 85                  | 67          | 67      | 58      | 48           |
| National      | Males   | 61                  | 46          | 45      | 42      | 30           |
|               | Females | 66                  | 39          | 47      | 36      | 26           |

Total Students in Report: 19,617

**Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum**

| Student Group | Curriculum Taken <sup>1</sup> | N         | English |      | Mathematics |      | Reading |      | Science |      | Composite          |      |
|---------------|-------------------------------|-----------|---------|------|-------------|------|---------|------|---------|------|--------------------|------|
|               |                               |           | CRB %   | Avg  | CRB %       | Avg  | CRB %   | Avg  | CRB %   | Avg  | CRB % <sup>4</sup> | Avg  |
| State         | Core or More <sup>2</sup>     | 12,172    | 86      | 24.3 | 72          | 24.6 | 68      | 24.8 | 61      | 23.8 | 51                 | 24.5 |
|               | Less than Core                | 7,052     | 83      | 24.1 | 71          | 24.7 | 66      | 24.5 | 62      | 23.9 | 51                 | 24.4 |
|               | Missing <sup>3</sup>          | 393       | 70      | 21.4 | 48          | 21.5 | 58      | 23.3 | 49      | 22.1 | 37                 | 22.2 |
| National      | Core or More                  | 1,389,338 | 71      | 21.4 | 49          | 21.7 | 52      | 22.3 | 44      | 21.8 | 33                 | 21.9 |
|               | Less than Core                | 424,562   | 48      | 18.0 | 27          | 18.9 | 32      | 19.3 | 24      | 19.0 | 16                 | 18.9 |
|               | Missing                       | 110,536   | 38      | 16.3 | 19          | 17.8 | 25      | 18.0 | 19      | 17.8 | 11                 | 17.6 |

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.

<sup>2</sup> "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

<sup>3</sup> Zero years or no coursework information reported in one or more content areas.

<sup>4</sup> Composite CRB% results reflect students who met all four subject-area benchmarks.

**Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum**

| Student Group | Curriculum Taken <sup>1</sup> | English   |       |      | Mathematics |       |      | Reading   |       |      | Science   |       |      |
|---------------|-------------------------------|-----------|-------|------|-------------|-------|------|-----------|-------|------|-----------|-------|------|
|               |                               | N         | CRB % | Avg  | N           | CRB % | Avg  | N         | CRB % | Avg  | N         | CRB % | Avg  |
| State         | Core or More <sup>2</sup>     | 18,938    | 85    | 24.3 | 19,046      | 72    | 24.7 | 12,716    | 68    | 24.6 | 18,521    | 62    | 23.9 |
|               | Less than Core                | 295       | 72    | 21.7 | 187         | 45    | 21.4 | 6,519     | 67    | 24.7 | 711       | 39    | 21.0 |
|               | Missing <sup>3</sup>          | 384       | 70    | 21.4 | 384         | 48    | 21.6 | 382       | 59    | 23.5 | 385       | 50    | 22.2 |
| National      | Core or More                  | 1,732,463 | 67    | 20.8 | 1,743,121   | 45    | 21.2 | 1,627,689 | 49    | 21.8 | 1,592,830 | 42    | 21.5 |
|               | Less than Core                | 93,944    | 36    | 15.9 | 78,951      | 8     | 16.3 | 194,720   | 34    | 19.5 | 227,926   | 18    | 18.1 |
|               | Missing                       | 98,029    | 40    | 16.5 | 102,364     | 20    | 17.8 | 102,027   | 26    | 18.1 | 103,680   | 20    | 18.0 |

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.

<sup>2</sup> "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

<sup>3</sup> Zero years or no coursework information reported in the specified content area.

# Section III

## College Readiness and the Impact of Course Rigor

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Figure 3.1. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ENGLISH

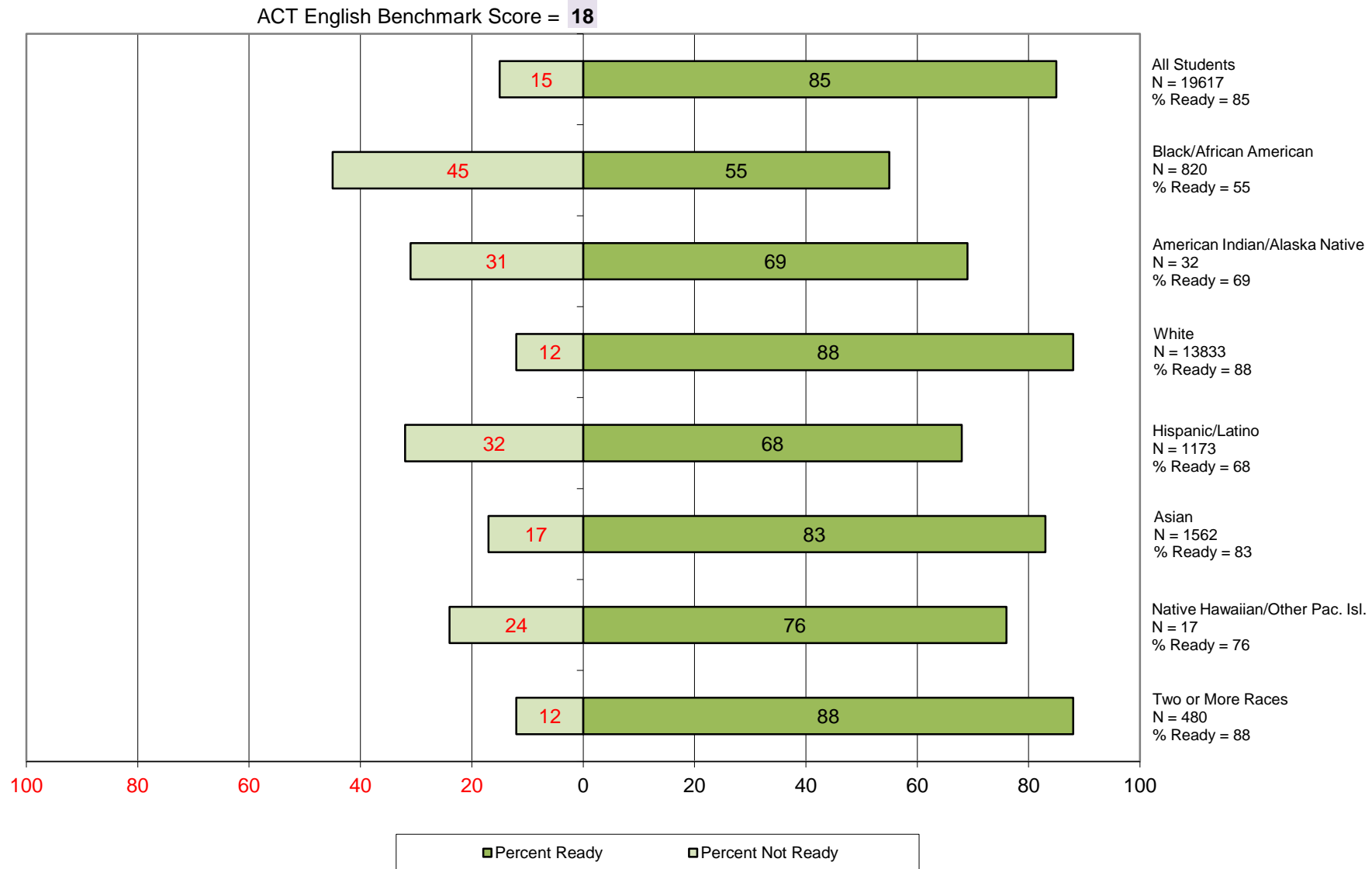


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

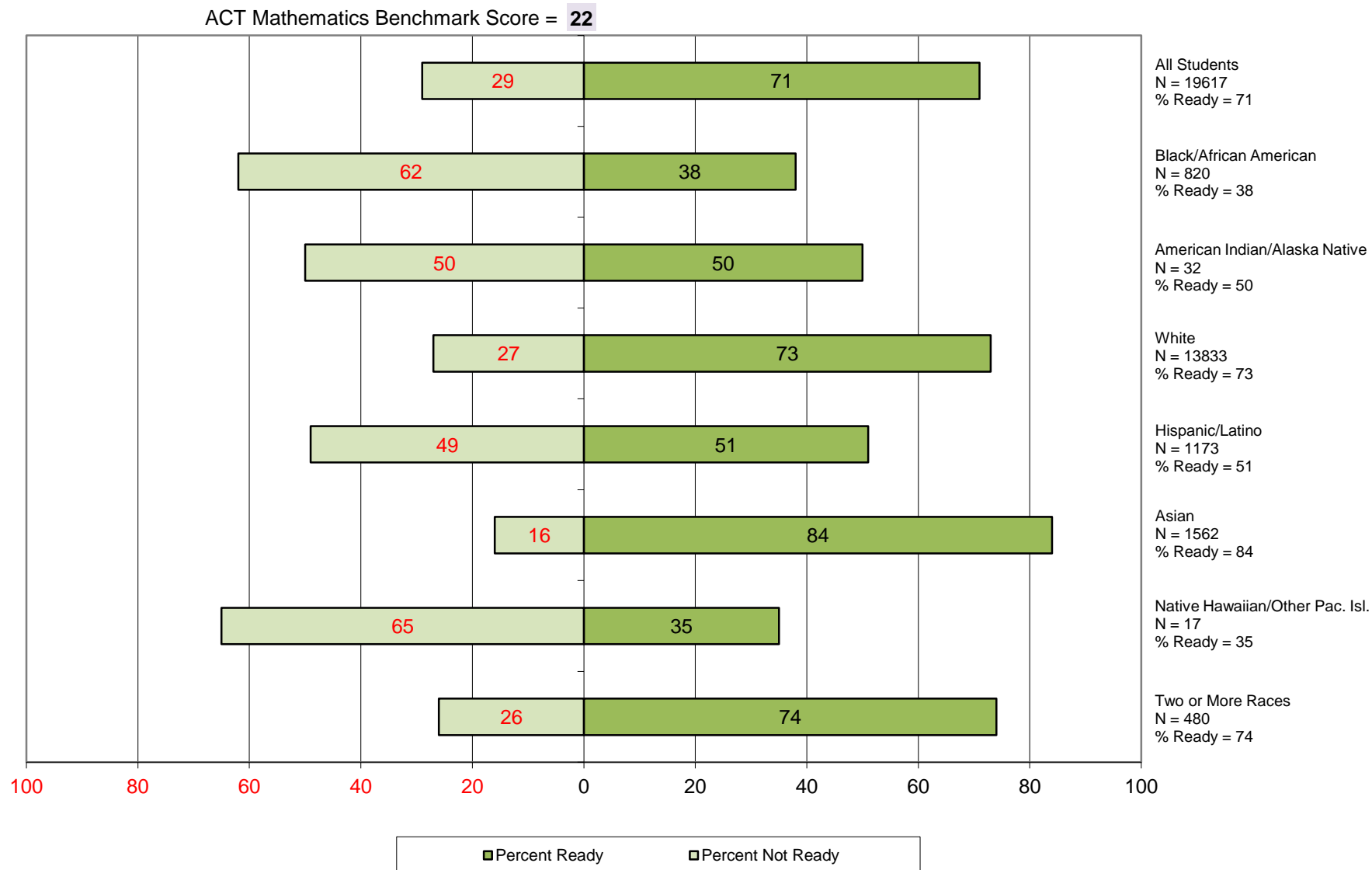


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

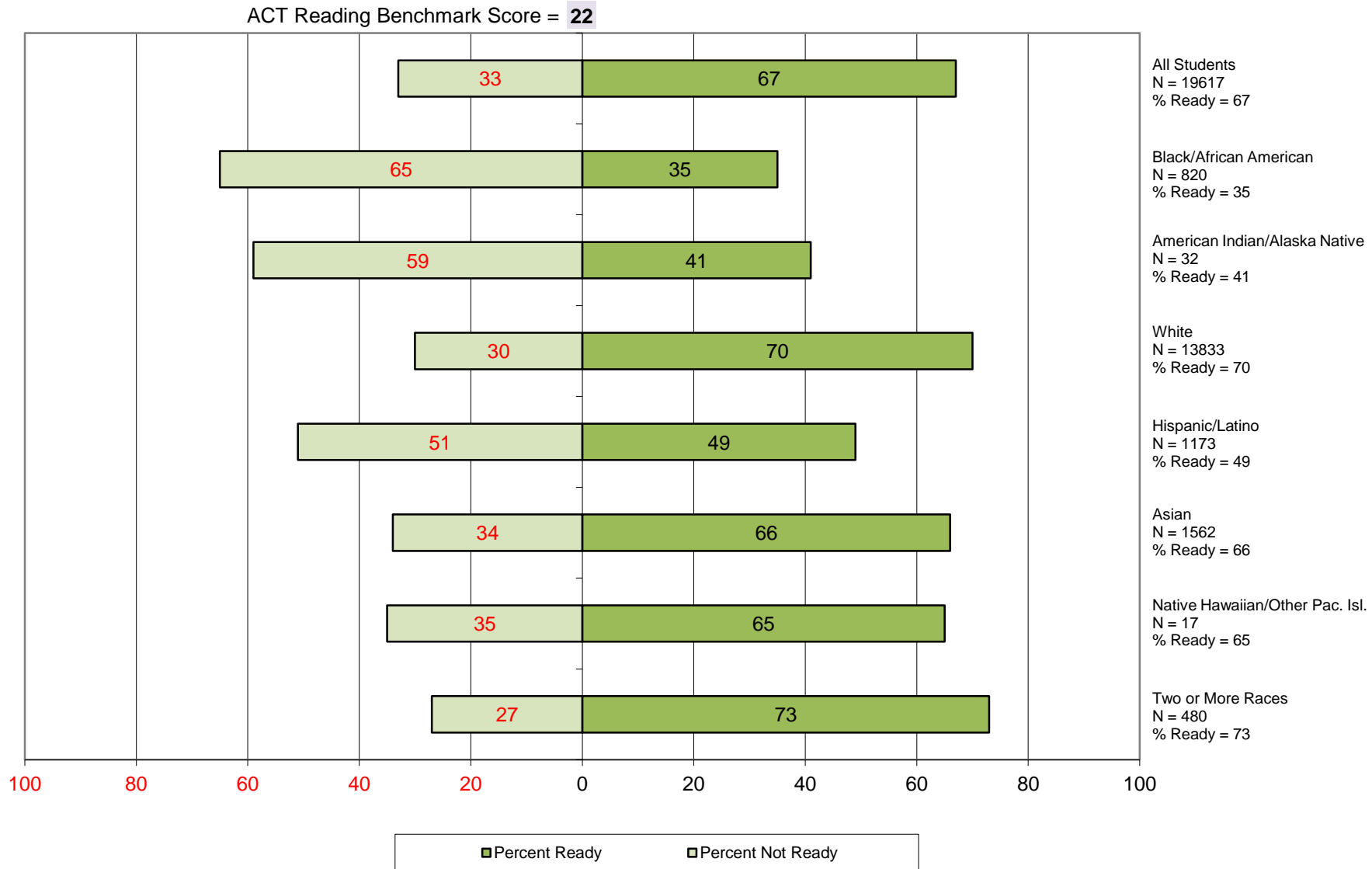


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

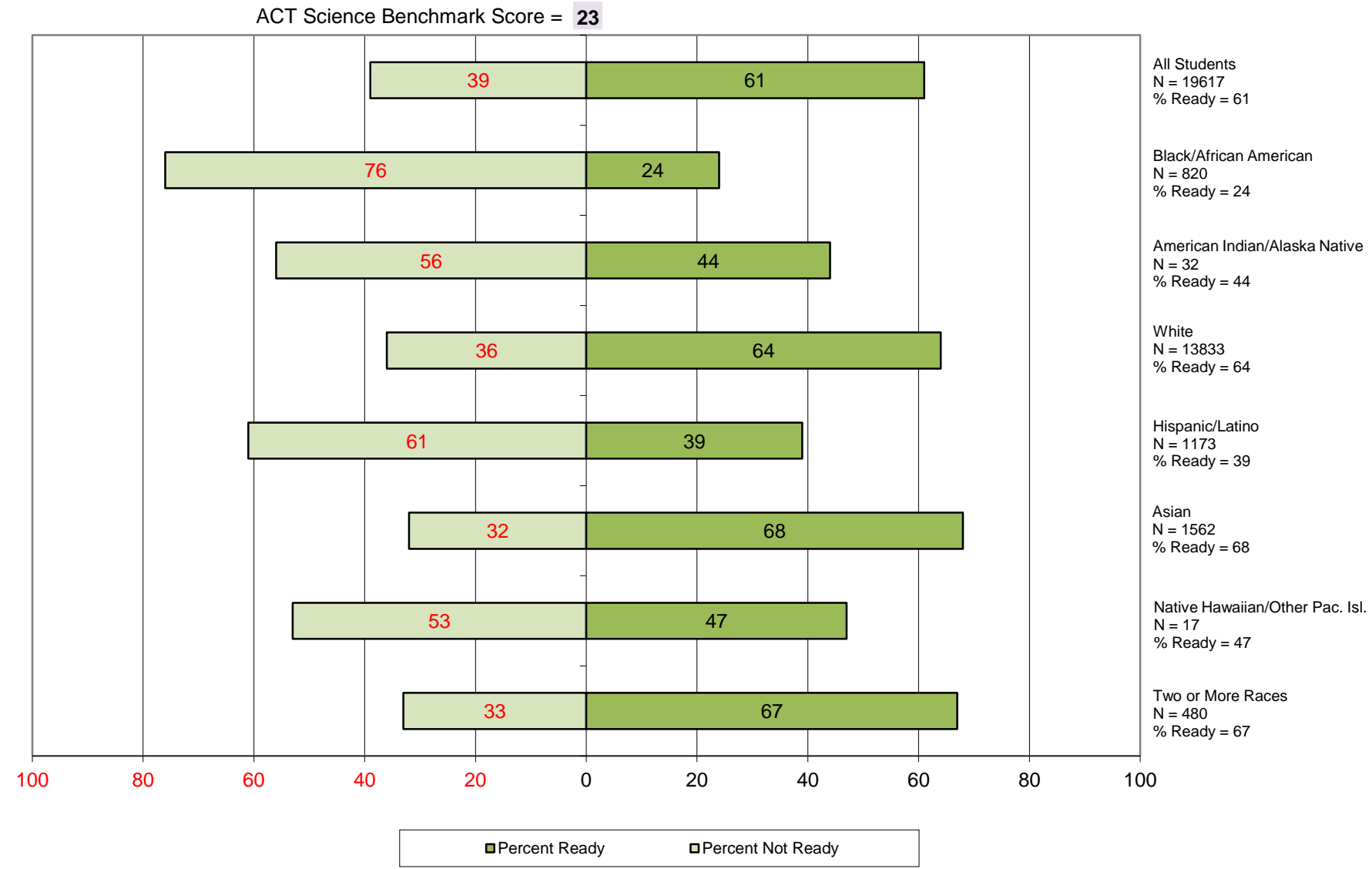
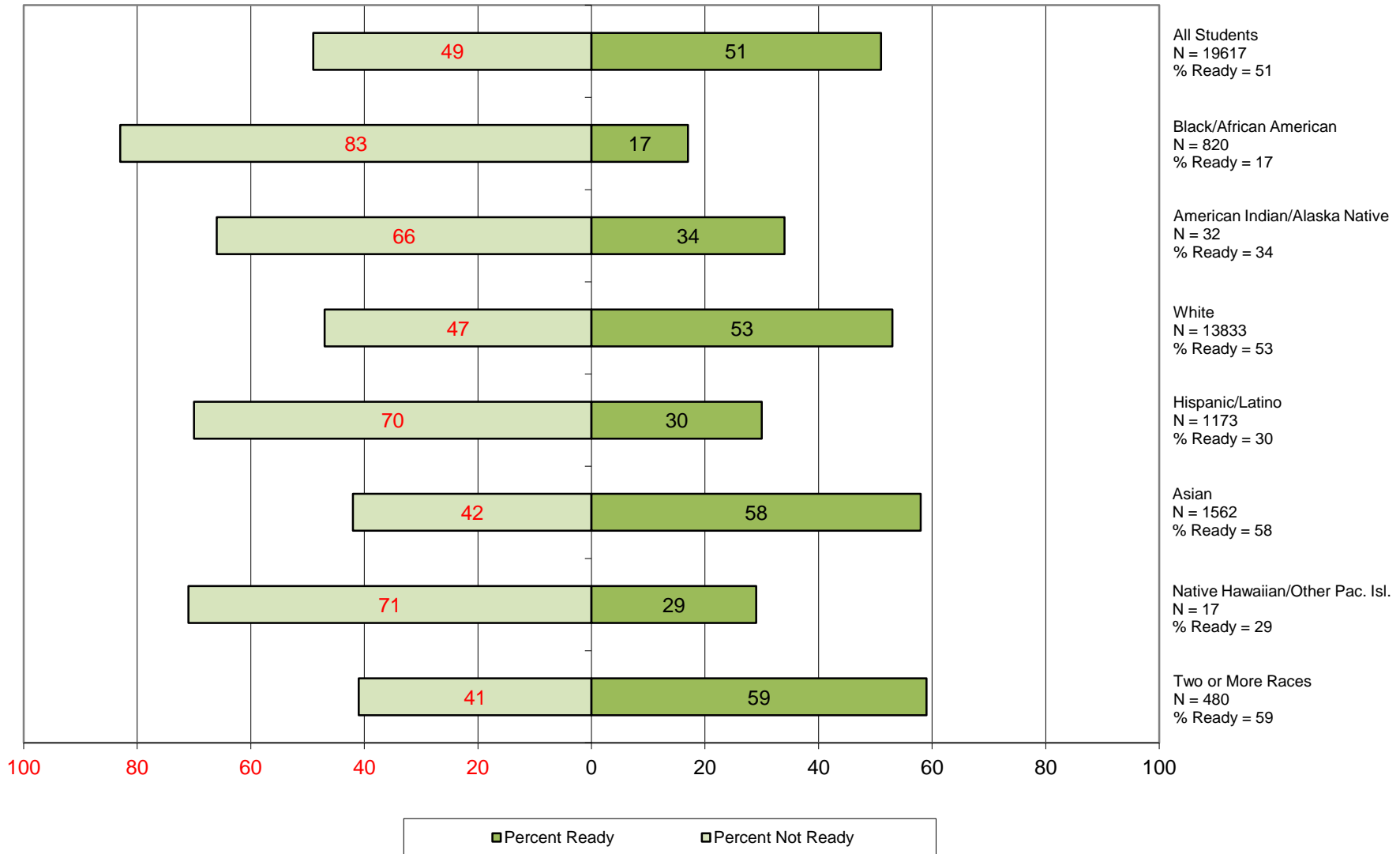


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR





Total Students in Report: 19,617

**Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns**

| Course Pattern                                   | All Students |         |             |                                 | Males |         |             |                                 | Females |         |             |                                 |
|--|--------------|---------|-------------|---------------------------------|-------|---------|-------------|---------------------------------|---------|---------|-------------|---------------------------------|
|  | N            | Percent | ACT English | Course Value Added <sup>1</sup> | N     | Percent | ACT English | Course Value Added <sup>1</sup> | N       | Percent | ACT English | Course Value Added <sup>1</sup> |
| <b>ENGLISH COURSE PATTERN</b>                    |              |         |             |                                 |       |         |             |                                 |         |         |             |                                 |
| Eng 9, Eng 10, Eng 11, Eng 12, & Other English   | 4,719        | 24      | 24.5        | 2.8                             | 1,953 | 22      | 24.2        | 2.9                             | 2,765   | 25      | 24.7        | 2.7                             |
| Eng 9, Eng 10, Eng 11, Eng 12                    | 14,219       | 72      | 24.2        | 2.5                             | 6,374 | 73      | 24.0        | 2.7                             | 7,845   | 72      | 24.3        | 2.3                             |
| Less than 4 years of English                     | 295          | 2       | 21.7        | -                               | 141   | 2       | 21.3        | -                               | 154     | 1       | 22.0        | -                               |
| Zero years / no English courses reported         | 384          | 2       | 21.4        | -                               | 238   | 3       | 21.4        | -                               | 146     | 1       | 21.3        | -                               |
| <b>MATHEMATICS COURSE PATTERN</b>                |              |         |             |                                 |       |         |             |                                 |         |         |             |                                 |
| Alg 1, Alg 2, Geom, Trig, & Calc                 | 2,268        | 12      | 26.3        | 4.9                             | 949   | 11      | 26.8        | 5.1                             | 1,319   | 12      | 26.0        | 4.7                             |
| Alg 1, Alg 2, Geom, Trig, & Other Adv Math       | 1,494        | 8       | 22.7        | 1.3                             | 556   | 6       | 23.2        | 1.5                             | 938     | 9       | 22.4        | 1.1                             |
| Alg 1, Alg 2, Geom, & Trig                       | 715          | 4       | 21.1        | -0.3                            | 277   | 3       | 21.6        | -0.1                            | 438     | 4       | 20.8        | -0.5                            |
| Alg 1, Alg 2, Geom, & Other Adv Math             | 2,415        | 12      | 21.1        | -0.3                            | 824   | 9       | 21.6        | -0.1                            | 1,591   | 15      | 20.8        | -0.5                            |
| Other comb of 4 or more years of Math            | 10,231       | 52      | 26.2        | 4.8                             | 5,012 | 58      | 27.0        | 5.3                             | 5,218   | 48      | 25.5        | 4.2                             |
| Alg 1, Alg 2, & Geom                             | 692          | 4       | 18.9        | -2.5                            | 255   | 3       | 19.2        | -2.5                            | 437     | 4       | 18.7        | -2.6                            |
| Other comb of 3 or 3.5 years of Math             | 1,231        | 6       | 23.5        | 2.1                             | 516   | 6       | 23.7        | 2.0                             | 715     | 7       | 23.3        | 2.0                             |
| Less than 3 years of Math                        | 187          | 1       | 21.4        | -                               | 77    | 1       | 21.7        | -                               | 110     | 1       | 21.3        | -                               |
| Zero years / no Math courses reported            | 384          | 2       | 21.6        | -                               | 240   | 3       | 21.8        | -                               | 144     | 1       | 21.1        | -                               |
| <b>SOCIAL SCIENCE COURSE PATTERN</b>             |              |         |             |                                 |       |         |             |                                 |         |         |             |                                 |
| US Hist, World Hist, Am Gov, & Other Hist        | 898          | 5       | 25.3        | 0.6                             | 473   | 5       | 25.0        | 0.2                             | 425     | 4       | 25.5        | 0.8                             |
| Other comb of 4 or more years Social Science     | 5,274        | 27      | 24.5        | -0.2                            | 2,572 | 30      | 24.6        | -0.2                            | 2,702   | 25      | 24.4        | -0.3                            |
| US Hist, World Hist, & Am Gov                    | 756          | 4       | 24.1        | -0.6                            | 340   | 4       | 23.8        | -1.0                            | 416     | 4       | 24.3        | -0.4                            |
| Other comb of 3 or 3.5 years of Social Science   | 5,788        | 30      | 24.7        | 0.0                             | 2,363 | 27      | 25.1        | 0.3                             | 3,425   | 31      | 24.5        | -0.2                            |
| Less than 3 years of Social Science              | 6,519        | 33      | 24.7        | -                               | 2,720 | 31      | 24.8        | -                               | 3,798   | 35      | 24.7        | -                               |
| Zero years / no Social Science courses reported  | 382          | 2       | 23.5        | -                               | 238   | 3       | 23.5        | -                               | 144     | 1       | 23.6        | -                               |
| <b>NATURAL SCIENCE COURSE PATTERN</b>            |              |         |             |                                 |       |         |             |                                 |         |         |             |                                 |
| Gen Sci <sup>2</sup> , Bio, Chem, & Phys         | 12,181       | 62      | 24.2        | 3.2                             | 5,576 | 64      | 24.8        | 3.6                             | 6,605   | 61      | 23.7        | 2.9                             |
| Bio, Chem, Phys                                  | 3,890        | 20      | 24.7        | 3.7                             | 1,824 | 21      | 25.3        | 4.1                             | 2,066   | 19      | 24.1        | 3.3                             |
| Gen Sci <sup>2</sup> , Bio, Chem                 | 2,230        | 11      | 21.4        | 0.4                             | 712   | 8       | 21.6        | 0.4                             | 1,517   | 14      | 21.4        | 0.6                             |
| Other comb of 3 years of Natural Science         | 220          | 1       | 21.5        | 0.5                             | 121   | 1       | 21.9        | 0.7                             | 99      | 1       | 21.0        | 0.2                             |
| Less than 3 years of Natural Science             | 711          | 4       | 21.0        | -                               | 233   | 3       | 21.2        | -                               | 478     | 4       | 20.8        | -                               |
| Zero years / no Natural Science courses reported | 385          | 2       | 22.2        | -                               | 240   | 3       | 22.5        | -                               | 145     | 1       | 21.7        | -                               |

<sup>1</sup>Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

<sup>2</sup>Includes General, Physical and Earth Sciences.

Total Students in Report: 19,617

**Table 3.2. College Readiness Percents by Common Course Patterns**

| Course Pattern                                   | State  |                        |                 |                           | National  |                        |                 |                           |
|--|--------|------------------------|-----------------|---------------------------|-----------|------------------------|-----------------|---------------------------|
|  | N      | Percent Taking Pattern | Avg ACT English | Percent Who Met Benchmark | N         | Percent Taking Pattern | Avg ACT English | Percent Who Met Benchmark |
| <b>ENGLISH COURSE PATTERN</b>                    |        |                        |                 |                           |           |                        |                 |                           |
| Eng 9, Eng 10, Eng 11, Eng 12, & Other English   | 4,719  | 24                     | 24.5            | 86                        | 373,145   | 19                     | 21.7            | 72                        |
| Eng 9, Eng 10, Eng 11, Eng 12                    | 14,219 | 72                     | 24.2            | 85                        | 1,359,318 | 71                     | 20.6            | 65                        |
| Less than 4 years of English                     | 295    | 2                      | 21.7            | 72                        | 93,944    | 5                      | 15.9            | 36                        |
| Zero years / no English courses reported         | 384    | 2                      | 21.4            | 70                        | 98,029    | 5                      | 16.5            | 40                        |
| <b>MATHEMATICS COURSE PATTERN</b>                |        |                        |                 |                           |           |                        |                 |                           |
| Alg 1, Alg 2, Geom, Trig, & Calc                 | 2,268  | 12                     | 26.3            | 86                        | 123,105   | 6                      | 23.5            | 65                        |
| Alg 1, Alg 2, Geom, Trig, & Other Adv Math       | 1,494  | 8                      | 22.7            | 62                        | 164,036   | 9                      | 21.7            | 53                        |
| Alg 1, Alg 2, Geom, & Trig                       | 715    | 4                      | 21.1            | 46                        | 123,192   | 6                      | 19.1            | 28                        |
| Alg 1, Alg 2, Geom, & Other Adv Math             | 2,415  | 12                     | 21.1            | 46                        | 362,476   | 19                     | 19.4            | 30                        |
| Other comb of 4 or more years of Math            | 10,231 | 52                     | 26.2            | 82                        | 655,589   | 34                     | 23.7            | 64                        |
| Alg 1, Alg 2, & Geom                             | 692    | 4                      | 18.9            | 26                        | 219,221   | 11                     | 17.1            | 11                        |
| Other comb of 3 or 3.5 years of Math             | 1,231  | 6                      | 23.5            | 65                        | 95,502    | 5                      | 19.8            | 34                        |
| Less than 3 years of Math                        | 187    | 1                      | 21.4            | 45                        | 78,951    | 4                      | 16.3            | 8                         |
| Zero years / no Math courses reported            | 384    | 2                      | 21.6            | 48                        | 102,364   | 5                      | 17.8            | 20                        |
| <b>SOCIAL SCIENCE COURSE PATTERN</b>             |        |                        |                 |                           |           |                        |                 |                           |
| US Hist, World Hist, Am Gov, & Other Hist        | 898    | 5                      | 25.3            | 71                        | 48,944    | 3                      | 22.3            | 51                        |
| Other comb of 4 or more years Social Science     | 5,274  | 27                     | 24.5            | 67                        | 942,441   | 49                     | 22.3            | 52                        |
| US Hist, World Hist, & Am Gov                    | 756    | 4                      | 24.1            | 63                        | 108,348   | 6                      | 19.7            | 35                        |
| Other comb of 3 or 3.5 years of Social Science   | 5,788  | 30                     | 24.7            | 68                        | 527,956   | 27                     | 21.4            | 46                        |
| Less than 3 years of Social Science              | 6,519  | 33                     | 24.7            | 67                        | 194,720   | 10                     | 19.5            | 34                        |
| Zero years / no Social Science courses reported  | 382    | 2                      | 23.5            | 59                        | 102,027   | 5                      | 18.1            | 26                        |
| <b>NATURAL SCIENCE COURSE PATTERN</b>            |        |                        |                 |                           |           |                        |                 |                           |
| Gen Sci <sup>1</sup> , Bio, Chem, & Phys         | 12,181 | 62                     | 24.2            | 64                        | 807,744   | 42                     | 22.2            | 48                        |
| Bio, Chem, Phys                                  | 3,890  | 20                     | 24.7            | 68                        | 217,893   | 11                     | 23.2            | 55                        |
| Gen Sci <sup>1</sup> , Bio, Chem                 | 2,230  | 11                     | 21.4            | 42                        | 512,754   | 27                     | 20.1            | 30                        |
| Other comb of 3 years of Natural Science         | 220    | 1                      | 21.5            | 43                        | 54,439    | 3                      | 19.1            | 24                        |
| Less than 3 years of Natural Science             | 711    | 4                      | 21.0            | 39                        | 227,926   | 12                     | 18.1            | 18                        |
| Zero years / no Natural Science courses reported | 385    | 2                      | 22.2            | 50                        | 103,680   | 5                      | 18.0            | 20                        |

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

## Career and Educational Aspirations

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 19,617

**Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans**

| Planned Educational Major                    | All Students   |                      |              | Plan on 2 Years or Less of College |                      |              | Plan on 4 Years or More of College |                      |              |
|--|----------------|----------------------|--------------|------------------------------------|----------------------|--------------|------------------------------------|----------------------|--------------|
|  | N <sup>1</sup> | Percent <sup>2</sup> | Avg ACT Comp | N                                  | Percent <sup>2</sup> | Avg ACT Comp | N                                  | Percent <sup>2</sup> | Avg ACT Comp |
| Agriculture & Natural Resources Conservation | 135            | 1                    | 23.7         | 3                                  | 3                    | 17.0         | 114                                | 1                    | 23.7         |
| Architecture                                 | 164            | 1                    | 23.5         | 1                                  | 1                    | 22.0         | 138                                | 1                    | 23.4         |
| Area, Ethnic, & Multidisciplinary Studies    | 40             | 0                    | 25.0         | 0                                  | 0                    | .            | 32                                 | 0                    | 24.5         |
| Arts: Visual & Performing                    | 681            | 3                    | 23.4         | 5                                  | 5                    | 18.0         | 593                                | 4                    | 23.5         |
| Business                                     | 2,747          | 14                   | 23.6         | 35                                 | 34                   | 20.2         | 2,315                              | 15                   | 23.6         |
| Communications                               | 540            | 3                    | 23.4         | 0                                  | 0                    | .            | 467                                | 3                    | 23.2         |
| Community, Family, & Personal Services       | 170            | 1                    | 20.1         | 3                                  | 3                    | 20.0         | 150                                | 1                    | 20.3         |
| Computer Science & Mathematics               | 690            | 4                    | 26.3         | 8                                  | 8                    | 21.0         | 576                                | 4                    | 26.3         |
| Education                                    | 766            | 4                    | 22.1         | 3                                  | 3                    | 19.3         | 667                                | 4                    | 22.0         |
| Engineering                                  | 1,820          | 9                    | 26.3         | 2                                  | 2                    | 16.5         | 1,555                              | 10                   | 26.3         |
| Engineering Technology & Drafting            | 114            | 1                    | 23.5         | 1                                  | 1                    | 16.0         | 96                                 | 1                    | 23.5         |
| English & Foreign Languages                  | 286            | 1                    | 26.0         | 0                                  | 0                    | .            | 237                                | 1                    | 25.9         |
| Health Administration & Assisting            | 225            | 1                    | 20.5         | 5                                  | 5                    | 19.2         | 186                                | 1                    | 20.7         |
| Health Sciences & Technologies               | 2,731          | 14                   | 23.4         | 7                                  | 7                    | 16.9         | 2,424                              | 15                   | 23.3         |
| Philosophy, Religion, & Theology             | 46             | 0                    | 23.6         | 0                                  | 0                    | .            | 40                                 | 0                    | 24.1         |
| Repair, Production, & Construction           | 31             | 0                    | 19.7         | 2                                  | 2                    | 15.5         | 24                                 | 0                    | 19.9         |
| Sciences: Biological & Physical              | 2,084          | 11                   | 26.2         | 2                                  | 2                    | 26.5         | 1,822                              | 11                   | 26.1         |
| Social Sciences & Law                        | 1,683          | 9                    | 24.1         | 7                                  | 7                    | 20.3         | 1,480                              | 9                    | 24.0         |
| Undecided                                    | 4,351          | 22                   | 25.0         | 16                                 | 16                   | 19.4         | 3,012                              | 19                   | 24.6         |
| No Response                                  | 310            | 2                    | 22.8         | 1                                  | 1                    | 13.0         | 33                                 | 0                    | 23.7         |

<sup>1</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.

<sup>2</sup>Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 19,617

**Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations**

| Educational Degree Aspirations | All Racial/Ethnic Groups Combined |         | Black/African American |         | American Indian/ Alaska Native |         | White |         | Hispanic/Latino |         |
|--------------------------------|-----------------------------------|---------|------------------------|---------|--------------------------------|---------|-------|---------|-----------------|---------|
|                                | N                                 | Average | N                      | Average | N                              | Average | N     | Average | N               | Average |
| Voc-Tech                       | 60                                | 21.3    | 1                      | 12.0    | 0                              | .       | 41    | 21.6    | 4               | 23.8    |
| 2-yr College Degree            | 42                                | 16.9    | 2                      | 14.5    | 0                              | .       | 27    | 17.0    | 5               | 17.2    |
| Bachelors Degree               | 6,679                             | 22.5    | 248                    | 17.8    | 15                             | 19.5    | 5,150 | 22.8    | 388             | 20.2    |
| Graduate Study                 | 5,256                             | 25.3    | 127                    | 20.8    | 5                              | 25.8    | 4,062 | 25.4    | 256             | 23.1    |
| Prof. Level Degree             | 4,028                             | 26.1    | 270                    | 20.9    | 6                              | 22.7    | 2,496 | 26.8    | 313             | 23.0    |
| Other                          | 150                               | 23.3    | 8                      | 19.9    | 1                              | 18.0    | 89    | 23.6    | 10              | 18.7    |
| No Response                    | 3,402                             | 25.1    | 164                    | 19.6    | 5                              | 27.0    | 1,968 | 25.9    | 197             | 20.3    |

| Educational Degree Aspirations | All Racial/Ethnic Groups Combined |         | Asian |         | Native Hawaiian/ Other Pacific Islander |         | Two or more races |         | Prefer not to respond/ No Response |         |
|--------------------------------|-----------------------------------|---------|-------|---------|---|---------|-------------------|---------|------------------------------------|---------|
|                                | N                                 | Average | N     | Average | N                                       | Average | N                 | Average | N                                  | Average |
| Voc-Tech                       | 60                                | 21.3    | 12    | 21.3    | 0                                       | .       | 0                 | .       | 2                                  | 14.5    |
| 2-yr College Degree            | 42                                | 16.9    | 7     | 17.3    | 0                                       | .       | 1                 | 13.0    | 0                                  | .       |
| Bachelors Degree               | 6,679                             | 22.5    | 367   | 22.7    | 2                                       | 23.0    | 148               | 22.8    | 361                                | 22.5    |
| Graduate Study                 | 5,256                             | 25.3    | 329   | 26.1    | 4                                       | 23.8    | 121               | 26.3    | 352                                | 25.7    |
| Prof. Level Degree             | 4,028                             | 26.1    | 498   | 27.1    | 6                                       | 20.0    | 132               | 26.4    | 307                                | 27.2    |
| Other                          | 150                               | 23.3    | 16    | 23.2    | 0                                       | .       | 8                 | 27.0    | 18                                 | 24.8    |
| No Response                    | 3,402                             | 25.1    | 333   | 26.9    | 5                                       | 21.8    | 70                | 25.9    | 660                                | 24.6    |

Total Students in Report: 19,617

**Table 4.3. Students' Score Report Preferences at Time of Testing**

| Name                                   | State         | Number of Students |              |                | Percent of Students in College Readiness Standards Ranges |          |           |           |           |           |          |
|--|---------------|--------------------|--------------|----------------|---|----------|-----------|-----------|-----------|-----------|----------|
|  |               | Total              | 1st Choice   | 2nd-6th Choice | 01-12   | 13-15    | 16-19     | 20-23     | 24-27     | 28-32     | 33-36    |
| UNIV OF MASSACHUSETTS AMHERST          | Massachusetts | 1,191              | 357          | 834            | 0   | 2        | 12        | 27        | 34        | 20        | 4        |
| NORTHEASTERN UNIVERSITY                | Massachusetts | 639                | 217          | 422            | 0   | 1        | 7         | 21        | 32        | 33        | 6        |
| BOSTON UNIVERSITY                      | Massachusetts | 527                | 154          | 373            | 0   | 3        | 11        | 22        | 32        | 28        | 5        |
| UNIV OF MASSACHUSETTS LOWELL           | Massachusetts | 452                | 123          | 329            | 1   | 5        | 24        | 31        | 24        | 15        | 1        |
| UNIVERSITY OF NEW HAMPSHIRE            | New Hampshire | 382                | 87           | 295            | 0   | 3        | 15        | 34        | 35        | 12        | 1        |
| BOSTON COLLEGE                         | Massachusetts | 329                | 121          | 208            | 0   | 2        | 7         | 19        | 32        | 34        | 5        |
| UNIV OF MASSACHUSETTS-DARTMOUTH        | Massachusetts | 291                | 58           | 233            | 0   | 9        | 26        | 39        | 16        | 10        | 0        |
| UNIVERSITY OF RHODE ISLAND             | Rhode Island  | 273                | 66           | 207            | 0   | 2        | 19        | 37        | 29        | 11        | 1        |
| UNIVERSITY OF CONNECTICUT              | Connecticut   | 267                | 61           | 206            | 0   | 1        | 7         | 29        | 40        | 21        | 2        |
| BRIDGEWATER STATE COLLEGE              | Massachusetts | 266                | 81           | 185            | 1   | 9        | 34        | 30        | 22        | 3         | 0        |
| WORCESTER POLYTECHNIC INST             | Massachusetts | 257                | 74           | 183            | 0   | 0        | 6         | 17        | 31        | 35        | 11       |
| SALEM STATE UNIVERSITY                 | Massachusetts | 241                | 70           | 171            | 2   | 11       | 40        | 31        | 13        | 2         | 0        |
| UNIVERSITY OF VERMONT                  | Vermont       | 234                | 44           | 190            | 0   | 0        | 5         | 29        | 38        | 24        | 4        |
| WESTFIELD STATE UNIVERSITY             | Massachusetts | 229                | 54           | 175            | 1   | 9        | 34        | 34        | 18        | 3         | 0        |
| TUFTS UNIVERSITY                       | Massachusetts | 214                | 80           | 134            | 0   | 1        | 4         | 10        | 28        | 45        | 12       |
| QUINNIPIAC UNIVERSITY                  | Connecticut   | 203                | 55           | 148            | 0   | 2        | 8         | 40        | 35        | 14        | 1        |
| UNIV OF MASSACHUSETTS BOSTON           | Massachusetts | 197                | 37           | 160            | 3   | 11       | 24        | 36        | 19        | 6         | 1        |
| FRAMINGHAM STATE UNIVERSITY            | Massachusetts | 161                | 37           | 124            | 4   | 15       | 35        | 26        | 17        | 4         | 0        |
| WORCESTER STATE UNIVERSITY             | Massachusetts | 160                | 43           | 117            | 1   | 13       | 32        | 36        | 16        | 3         | 0        |
| ENDICOTT COLLEGE                       | Massachusetts | 156                | 39           | 117            | 1   | 6        | 24        | 42        | 21        | 6         | 0        |
| BROWN UNIVERSITY                       | Rhode Island  | 153                | 58           | 95             | 0   | 1        | 3         | 10        | 30        | 44        | 12       |
| BENTLEY UNIVERSITY                     | Massachusetts | 152                | 52           | 100            | 0   | 1        | 8         | 28        | 43        | 19        | 1        |
| WENTWORTH INSTITUTE OF TECHNOLOGY      | Massachusetts | 141                | 39           | 102            | 3   | 2        | 15        | 26        | 33        | 19        | 2        |
| SUFFOLK UNIVERSITY                     | Massachusetts | 136                | 28           | 108            | 1   | 5        | 28        | 35        | 24        | 7         | 0        |
| FITCHBURG STATE UNIVERSITY             | Massachusetts | 125                | 32           | 93             | 2   | 13       | 34        | 34        | 14        | 3         | 0        |
| PROVIDENCE COLLEGE                     | Rhode Island  | 119                | 23           | 96             | 0   | 2        | 6         | 19        | 43        | 29        | 2        |
| HARVARD COLLEGE                        | Massachusetts | 118                | 47           | 71             | 1   | 1        | 8         | 19        | 16        | 38        | 17       |
| MERRIMACK COLLEGE                      | Massachusetts | 118                | 21           | 97             | 0   | 7        | 26        | 36        | 24        | 8         | 0        |
| MASSACHUSETTS COLL PHARM/HLTH SCIENCES | Massachusetts | 114                | 46           | 68             | 1   | 8        | 22        | 28        | 25        | 15        | 1        |
| SYRACUSE UNIVERSITY                    | New York      | 113                | 26           | 87             | 0   | 2        | 10        | 22        | 43        | 21        | 2        |
| All Other Institutions                 |               | 8,437              | 2,350        | 6,087          | 1   | 4        | 14        | 24        | 28        | 23        | 5        |
| <b>Total</b>                           |               | <b>16,395</b>      | <b>4,580</b> | <b>11,815</b>  | <b>1</b>  | <b>4</b> | <b>15</b> | <b>26</b> | <b>28</b> | <b>21</b> | <b>4</b> |

# Section V

## Optional Writing Test Results

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 19,617

**Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing**

|                                 | N             |                  | Average ACT Scores |             |            |            |                          |             |
|---------------------------------|---------------|------------------|--------------------|-------------|------------|------------|--------------------------|-------------|
|                                 |               |                  | English            |             | Essay      |            | English/Writing Combined |             |
|                                 | State         | National         | State              | National    | State      | National   | State                    | National    |
| <b>All Students</b>             | <b>17,199</b> | <b>1,108,908</b> | <b>24.6</b>        | <b>21.0</b> | <b>7.9</b> | <b>6.9</b> | <b>23.8</b>              | <b>20.2</b> |
| Black/African American          | 711           | 136,380          | 19.4               | 16.3        | 7.2        | 6.0        | 19.3                     | 15.9        |
| American Indian/Alaska Native   | 27            | 7,142            | 22.5               | 16.5        | 7.5        | 5.9        | 21.8                     | 16.0        |
| White                           | 12,039        | 567,060          | 25.1               | 22.8        | 7.9        | 7.1        | 24.2                     | 21.8        |
| Hispanic/Latino                 | 1,033         | 196,970          | 21.4               | 18.4        | 7.4        | 6.7        | 21.0                     | 18.1        |
| Asian                           | 1,450         | 68,736           | 25.2               | 23.9        | 8.0        | 7.6        | 24.3                     | 23.0        |
| Native Hawaiian/Other Pac. Isl. | 14            | 4,070            | 21.9               | 18.0        | 7.3        | 6.5        | 21.3                     | 17.6        |
| Two or more races               | 411           | 45,517           | 25.7               | 21.3        | 8.0        | 6.9        | 24.7                     | 20.4        |
| Prefer not/No Response          | 1,514         | 83,033           | 25.0               | 20.8        | 7.8        | 6.7        | 24.0                     | 19.9        |
| Males                           | 7,492         | 507,737          | 24.5               | 20.7        | 7.7        | 6.6        | 23.6                     | 19.7        |
| Females                         | 9,707         | 590,537          | 24.7               | 21.4        | 8.0        | 7.1        | 24.0                     | 20.8        |
| Missing                         | 0             | 10,634           | .                  | 16.0        | .          | 5.6        | .                        | 15.4        |





