



# Profile Report - State

Graduating Class 2015

Montana





## Table of Contents

<b>Section I: Executive Summary</b>	<b>Page 5</b>
Percent of Your Students Ready for College-Level Coursework	
Five Year Trends—Percent of Students Who Met College Readiness Benchmarks	
Five Year Trends—Average ACT Scores	
Five Year Trends—Average ACT Scores by Level of Preparation	
Five Year Trends—Percent and Average Composite Score by Race/Ethnicity	
Percent of Students in College Readiness Standards Score Ranges	
Average ACT College Reportable Scores by Test Session Duration	
Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration	
<b>Section II: Academic Achievement</b>	<b>Page 11</b>
ACT Score Distributions, Cumulative Percentages, Averages, and Quartile Values	
Average ACT Composite Scores for Race/Ethnicity by Level of Preparation	
Average ACT Scores by Race/Ethnicity	
Percent of Students in College Readiness Standards Score Ranges	
Average ACT Scores by Gender	
Percent of Students Who Met College Readiness Benchmark Scores by Gender	
College Readiness Benchmark Percent and Average ACT Scores by Overall High School Curriculum	
College Readiness Benchmark Percent and Average ACT Scores by Content-Specific Curriculum	
<b>Section III: College Readiness &amp; Impact of Course Rigor</b>	<b>Page 17</b>
Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity	
Average ACT Scores and Average ACT Score Changes by Common Course Patterns	
College Readiness Percents by Common Course Patterns	
<b>Section IV: Career and Educational Aspirations</b>	<b>Page 25</b>
Distribution of Planned Educational Majors for All Students by College Plans	
Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations	
Students' Score Report Preferences at Time of Testing	
<b>Section V: Optional Writing Test Results</b>	<b>Page 29</b>
Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing	

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

24% 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:** 9,489 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. 48% 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 15% of the cohort took less than three years of math courses. Of these students, 5% were college ready. 19% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 18% of these students were college ready. In comparison, 60% 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 33% of the cohort took less than three years of natural science courses. 17% of these students were college ready. In comparison, 48% 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 51% 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

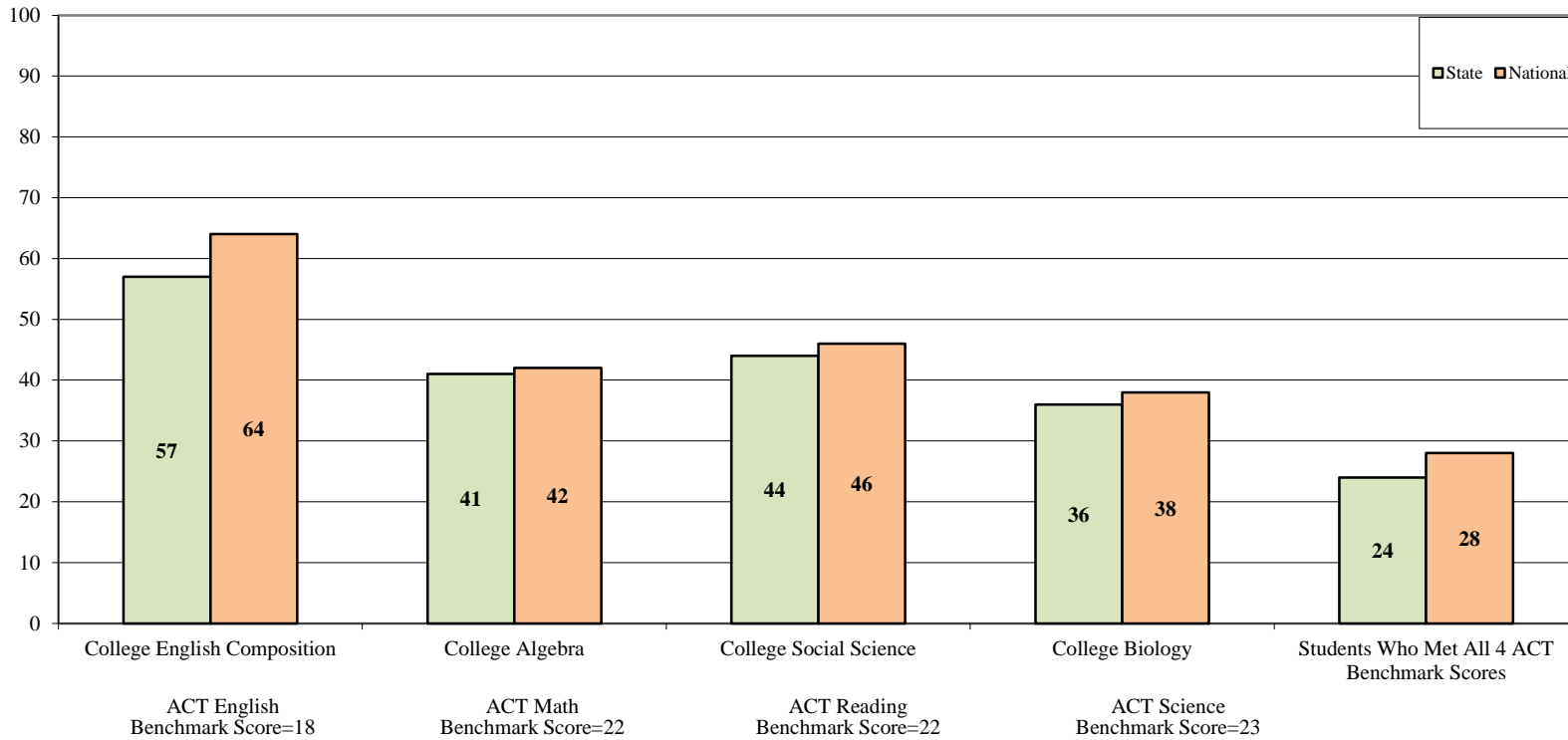
## Executive Summary

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: 9,489

**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	6,037	1,623,112	75	66	53	45	63	52	35	30	29	25
2012	6,024	1,666,017	74	67	54	46	63	52	37	31	30	25
2013	6,631	1,799,243	66	64	49	44	50	44	39	36	28	26
2014	9,611	1,845,787	60	64	39	43	44	44	33	37	23	26
<b>2015</b>	<b>9,489</b>	<b>1,924,436</b>	<b>57</b>	<b>64</b>	<b>41</b>	<b>42</b>	<b>44</b>	<b>46</b>	<b>36</b>	<b>38</b>	<b>24</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	6,037	1,623,112	21.3	20.6	21.9	21.1	22.7	21.3	22.0	20.9	22.1	21.1
2012	6,024	1,666,017	21.1	20.5	21.9	21.1	22.6	21.3	22.0	20.9	22.0	21.1
2013	6,631	1,799,243	20.2	20.2	21.4	20.9	21.9	21.1	21.2	20.7	21.3	20.9
2014	9,611	1,845,787	19.3	20.3	20.5	20.9	21.1	21.3	20.4	20.8	20.5	21.0
<b>2015</b>	<b>9,489</b>	<b>1,924,436</b>	<b>19.1</b>	<b>20.4</b>	<b>20.4</b>	<b>20.8</b>	<b>21.0</b>	<b>21.4</b>	<b>20.5</b>	<b>20.9</b>	<b>20.4</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: 9,489

**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	4,084	1,833	68	30	22.4	19.3	23.0	19.7	23.7	20.8	23.0	20.1	23.1	20.1
2012	4,193	1,735	70	29	22.1	18.9	22.9	19.7	23.5	20.6	22.8	20.1	23.0	20.0
2013	4,043	2,321	61	35	21.9	17.9	22.9	19.2	23.3	19.9	22.7	19.3	22.8	19.2
2014	4,703	4,324	49	45	21.9	17.2	22.8	18.6	23.4	19.1	22.6	18.6	22.8	18.5
<b>2015</b>	<b>4,595</b>	<b>4,002</b>	<b>48</b>	<b>42</b>	<b>21.5</b>	<b>16.9</b>	<b>22.5</b>	<b>18.5</b>	<b>23.2</b>	<b>19.1</b>	<b>22.5</b>	<b>18.7</b>	<b>22.6</b>	<b>18.4</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.

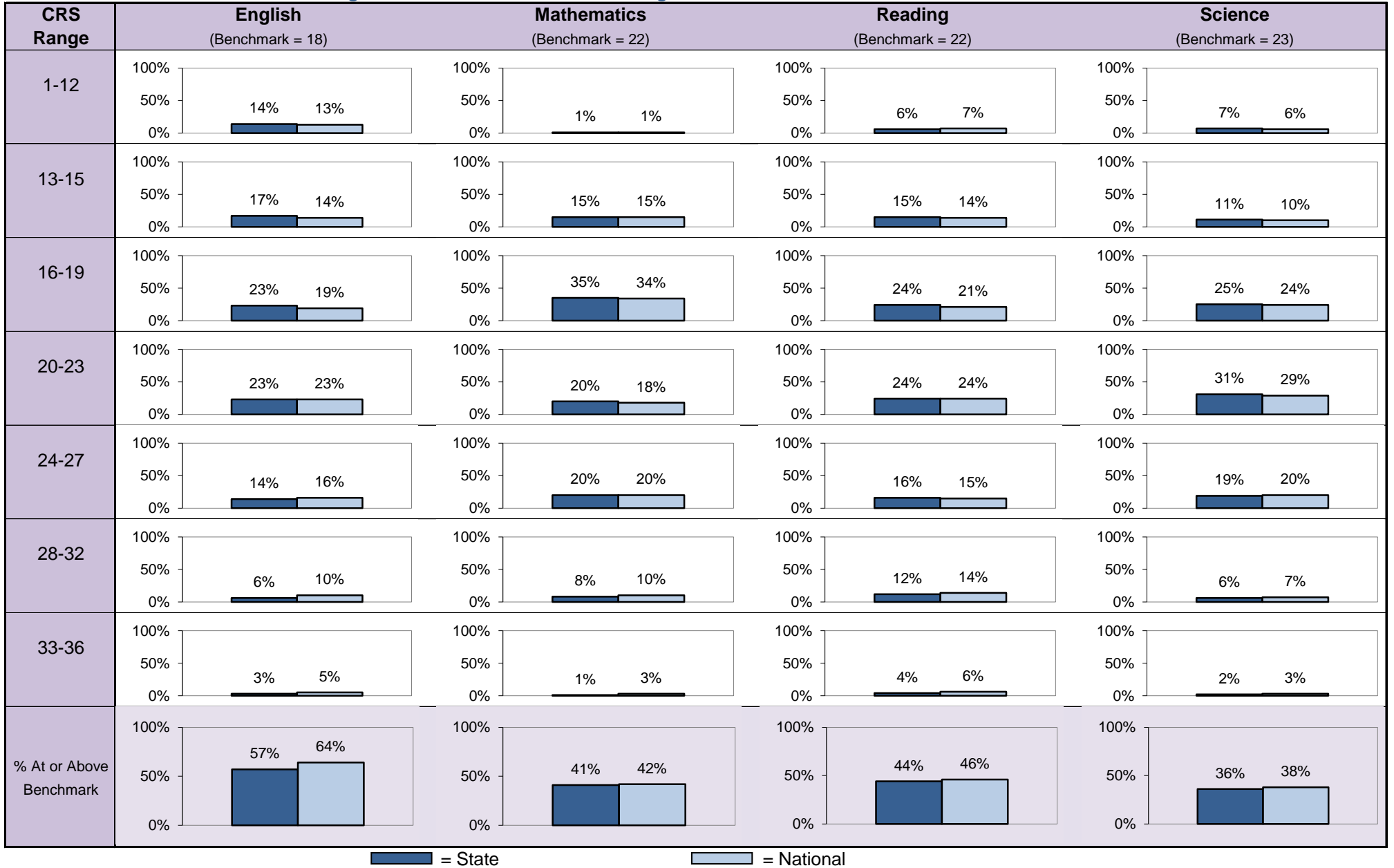
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

**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>6,037</b>	<b>100</b>	<b>22.1</b>	<b>6,024</b>	<b>100</b>	<b>22.0</b>	<b>6,631</b>	<b>100</b>	<b>21.3</b>	<b>9,611</b>	<b>100</b>	<b>20.5</b>	<b>9,489</b>	<b>100</b>	<b>20.4</b>
Black/African American	29	0	19.2	27	0	18.2	41	1	17.2	64	1	17.0	69	1	17.7
American Indian/Alaska Native	284	5	18.0	277	5	17.6	363	5	16.3	424	4	15.9	447	5	16.1
White	5,065	84	22.4	4,984	83	22.4	5,323	80	21.8	7,468	78	20.9	7,149	75	20.9
Hispanic/Latino	195	3	20.5	205	3	20.6	266	4	19.5	461	5	18.8	481	5	18.6
Asian	56	1	22.5	64	1	21.6	70	1	21.4	89	1	21.2	62	1	21.0
Native Hawaiian/Other Pacific Islander	10	0	19.6	11	0	19.5	12	0	17.7	29	0	17.5	23	0	19.0
Two or more races	179	3	21.2	253	4	21.6	263	4	20.7	464	5	20.1	472	5	20.1
Prefer not to respond/No response	219	4	22.5	203	3	22.8	293	4	20.7	612	6	20.2	786	8	20.1

Total Students in Report: 9,489

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



Total Students in Report: 9,489

**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	9,082	96	19.3	20.6	21.2	20.7	20.6
	Extended Time	407	4	13.9	16.7	16.6	16.6	16.1
	Total	9,489	100	19.1	20.4	21.0	20.5	20.4
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	59	42	45	37	25
	Extended Time	20	14	19	12	8
	Total	57	41	44	36	24
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: 9,489

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

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	13	100	10	100	53	100	25	100	1	100	36
35	62	100	29	100	70	99	42	100	19	100	35
34	112	99	48	100	133	99	60	99	28	100	34
33	69	98	45	99	163	97	68	99	52	99	33
32	96	97	58	99	167	96	103	98	85	99	32
31	96	96	68	98	224	94	81	97	136	98	31
30	141	95	132	97	246	91	49	96	150	97	30
29	124	94	130	96	234	89	149	95	186	95	29
28	133	92	344	95	243	86	173	94	251	93	28
27	226	91	353	91	434	84	217	92	317	90	27
26	257	89	525	87	338	79	477	90	368	87	26
25	398	86	408	82	318	76	430	85	420	83	25
24	448	82	639	77	404	72	700	80	526	79	24
23	466	77	516	71	642	68	819	73	568	73	23
22	508	72	542	65	496	61	572	64	615	67	22
21	591	67	316	59	656	56	626	58	661	61	21
20	626	61	513	56	440	49	893	52	682	54	20
19	607	54	578	51	715	45	897	42	738	47	19
18	480	48	630	45	403	37	506	33	641	39	18
17	553	43	987	38	754	33	473	27	703	32	17
16	514	37	1,110	28	363	25	483	22	603	25	16
15	684	31	979	16	617	21	399	17	555	18	15
14	583	24	351	6	315	15	341	13	508	12	14
13	359	18	120	2	466	11	283	10	387	7	13
12	341	14	32	1	301	6	347	7	185	3	12
11	301	11	21	1	148	3	125	3	72	1	11
10	329	7	2	1	68	2	72	2	23	1	10
9	169	4	0	1	44	1	35	1	3	1	9
8	124	2	1	1	14	1	30	1	5	1	8
7	45	1	0	1	1	1	6	1	0	1	7
6	22	1	1	1	9	1	5	1	1	1	6
5	7	1	0	1	2	1	0	1	0	1	5
4	4	1	0	1	5	1	0	1	0	1	4
3	1	1	0	1	1	1	1	1	0	1	3
2	0	1	0	1	1	1	0	1	0	1	2
1	0	1	1	1	1	1	2	1	0	1	1
Avg (SD)	19.1 (6.1)		20.4 (4.9)		21.0 (6.1)		20.5 (5.1)		20.4 (5.0)		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: 9,489

**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	223	100	68	100	160	100	291	100	250	100	42	100	61	100	18
17	306	98	89	99	425	98	449	97	270	97	35	100	8	99	17
16	205	94	263	98	569	94	528	92	435	95	114	99	201	99	16
15	362	92	417	96	555	88	293	87	490	90	394	98	542	97	15
14	298	88	614	91	480	82	652	84	572	85	668	94	545	91	14
13	496	85	621	85	1,004	77	663	77	718	79	1,022	87	1,027	86	13
12	560	80	734	78	804	66	1,164	70	760	71	819	76	755	75	12
11	763	74	1,037	70	732	58	682	57	1,105	63	1,006	67	1,407	67	11
10	1,141	66	1,193	60	1,442	50	699	50	781	52	1,714	57	1,065	52	10
9	914	54	1,031	47	841	35	1,046	43	665	43	1,074	39	1,605	41	9
8	889	44	1,266	36	861	26	647	32	972	36	909	27	743	24	8
7	935	35	455	23	639	17	572	25	1,325	26	743	18	602	16	7
6	809	25	751	18	679	10	912	19	643	12	457	10	451	10	6
5	805	17	436	10	181	3	372	9	353	5	307	5	304	5	5
4	422	8	328	5	34	1	376	5	93	2	24	2	43	2	4
3	264	4	149	2	51	1	102	2	41	1	120	2	87	1	3
2	82	1	35	1	10	1	37	1	12	1	8	1	12	1	2
1	15	1	2	1	22	1	4	1	4	1	33	1	31	1	1
Avg (SD)	9.3 (3.8)		9.8 (3.3)		10.9 (3.4)		10.5 (3.8)		10.4 (3.5)		10.2 (2.9)		10.3 (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)	23	24	25	24	24
Q2 (50th Percentile)	19	19	21	20	20
Q1 (25th Percentile)	15	16	17	17	17

Total Students in Report: 9,489

**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>9,489</b>	<b>48</b>	<b>22.6</b>	<b>18.4</b>
	Black/African American	69	49	19.2	17.0
	American Indian/Alaska Native	447	39	17.4	15.4
	White	7,149	51	22.9	18.8
	Hispanic/Latino	481	41	20.7	17.3
	Asian	62	69	22.0	18.5
	Native Hawaiian/Other Pac. Isl.	23	52	20.0	17.5
	Two or more races	472	50	22.5	18.0
	Prefer not/No Response	786	30	23.3	17.8
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>	19.1	20.4	21.0	20.5	20.4
	Black/African American	16.5	17.5	18.5	17.8	17.7
	American Indian/Alaska Native	14.1	16.7	16.6	16.3	16.1
	White	19.7	20.8	21.5	21.0	20.9
	Hispanic/Latino	16.9	18.8	19.2	18.9	18.6
	Asian	19.0	22.5	20.5	21.2	21.0
	Native Hawaiian/Other Pac. Isl.	17.1	20.0	19.2	19.3	19.0
	Two or more races	18.5	20.1	21.0	20.2	20.1
	Prefer not/No Response	18.8	20.1	20.9	20.0	20.1
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: 9,489

**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	256	3	132	1	419	4	195	2
	28 to 32	590	6	732	8	1,114	12	555	6
	24 to 27	1,329	14	1,925	20	1,494	16	1,824	19
	20 to 23	2,191	23	1,887	20	2,234	24	2,910	31
	16 to 19	2,154	23	3,305	35	2,235	24	2,359	25
	13 to 15	1,626	17	1,450	15	1,398	15	1,023	11
	01 to 12	1,343	14	58	1	595	6	623	7
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	4,585	48	18.4	20.7	20.3	20.6	20.1
	Females	4,601	48	19.9	20.3	21.8	20.4	20.7
	Missing	303	3	17.6	19.8	19.9	19.4	19.3
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	53	42	39	37	24
	Females	62	39	50	35	25
National	Males	61	46	45	42	30
	Females	66	39	47	36	26

Total Students in Report: 9,489

**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>	4,595	75	21.5	58	22.5	59	23.2	52	22.5	38	22.6
	Less than Core	4,002	42	16.9	24	18.5	30	19.1	21	18.7	11	18.4
	Missing <sup>3</sup>	892	37	16.3	24	18.2	27	18.5	20	18.1	13	17.9
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>	7,968	61	19.6	7,211	50	21.5	7,323	48	21.7	5,587	48	22.1
	Less than Core	840	36	16.0	1,468	5	16.3	1,445	28	18.7	3,143	17	18.1
	Missing <sup>3</sup>	681	42	17.2	810	25	18.3	721	31	19.2	759	23	18.6
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

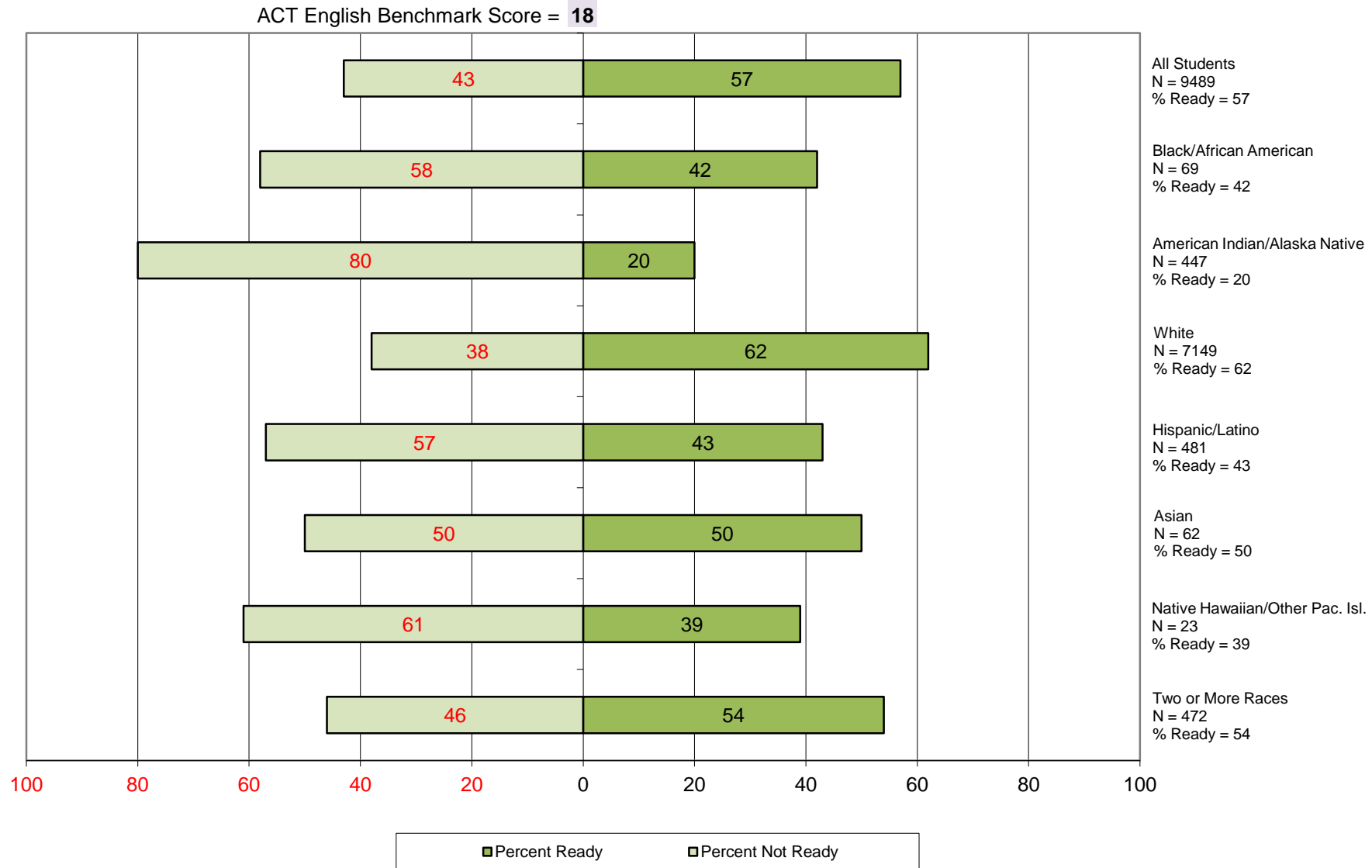


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

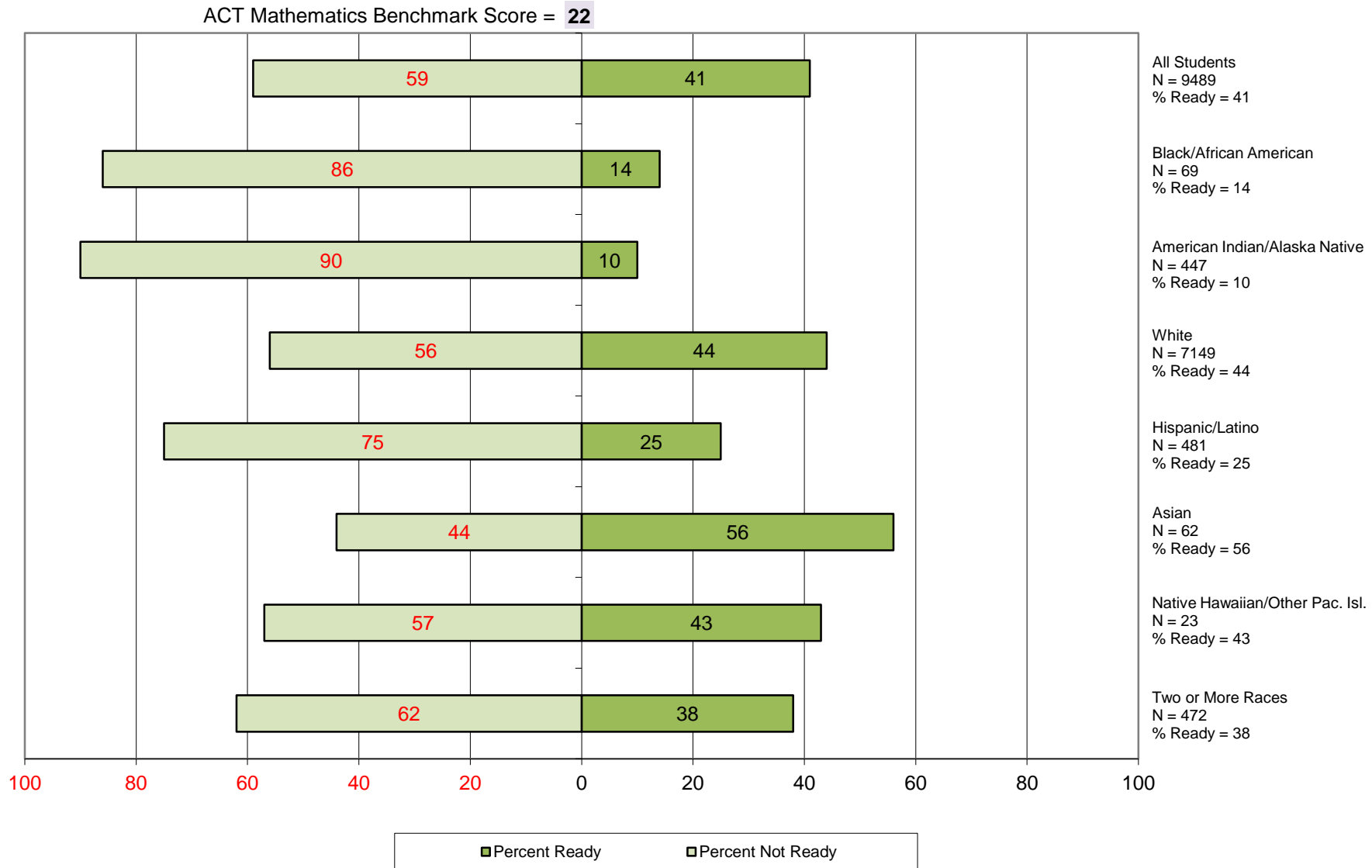


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

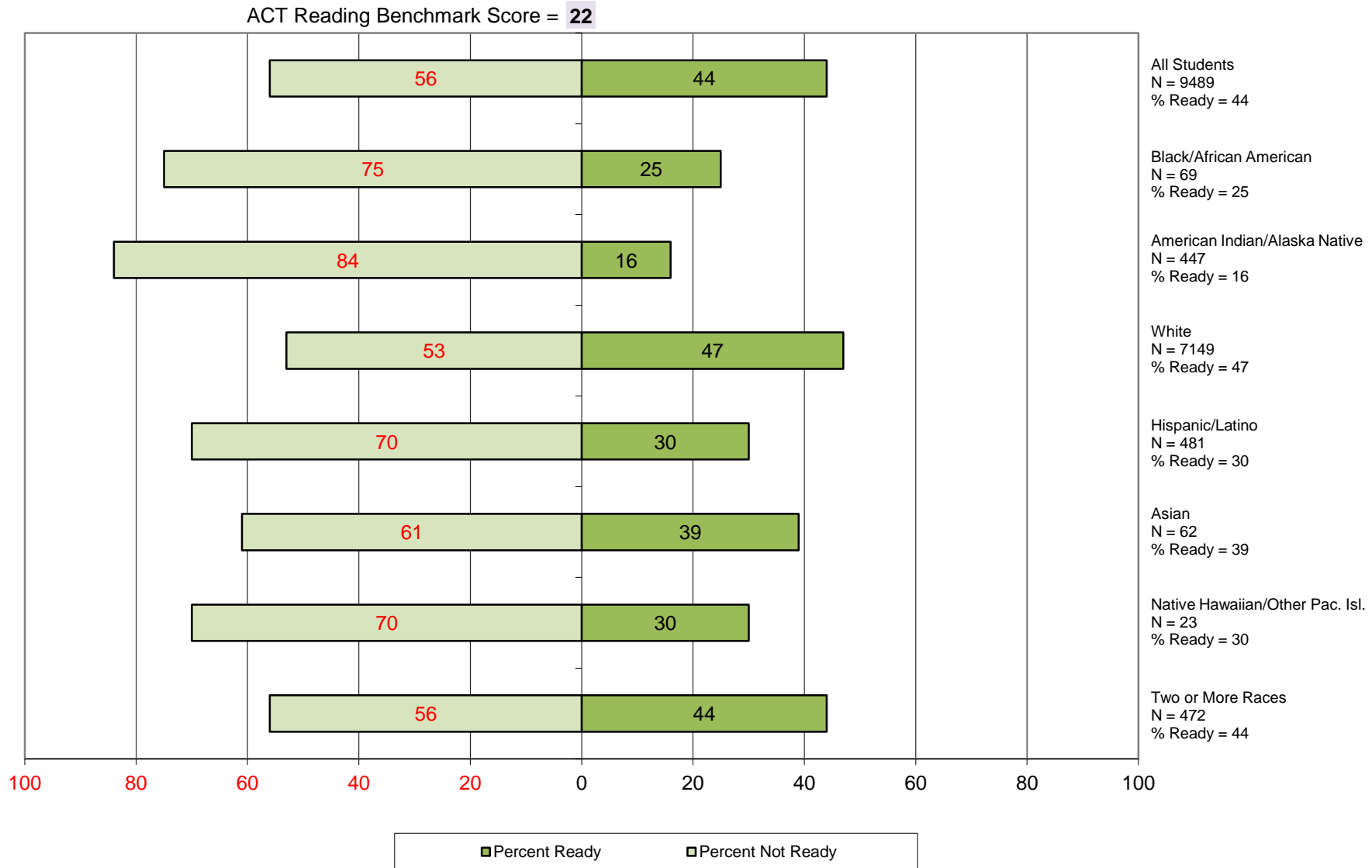


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

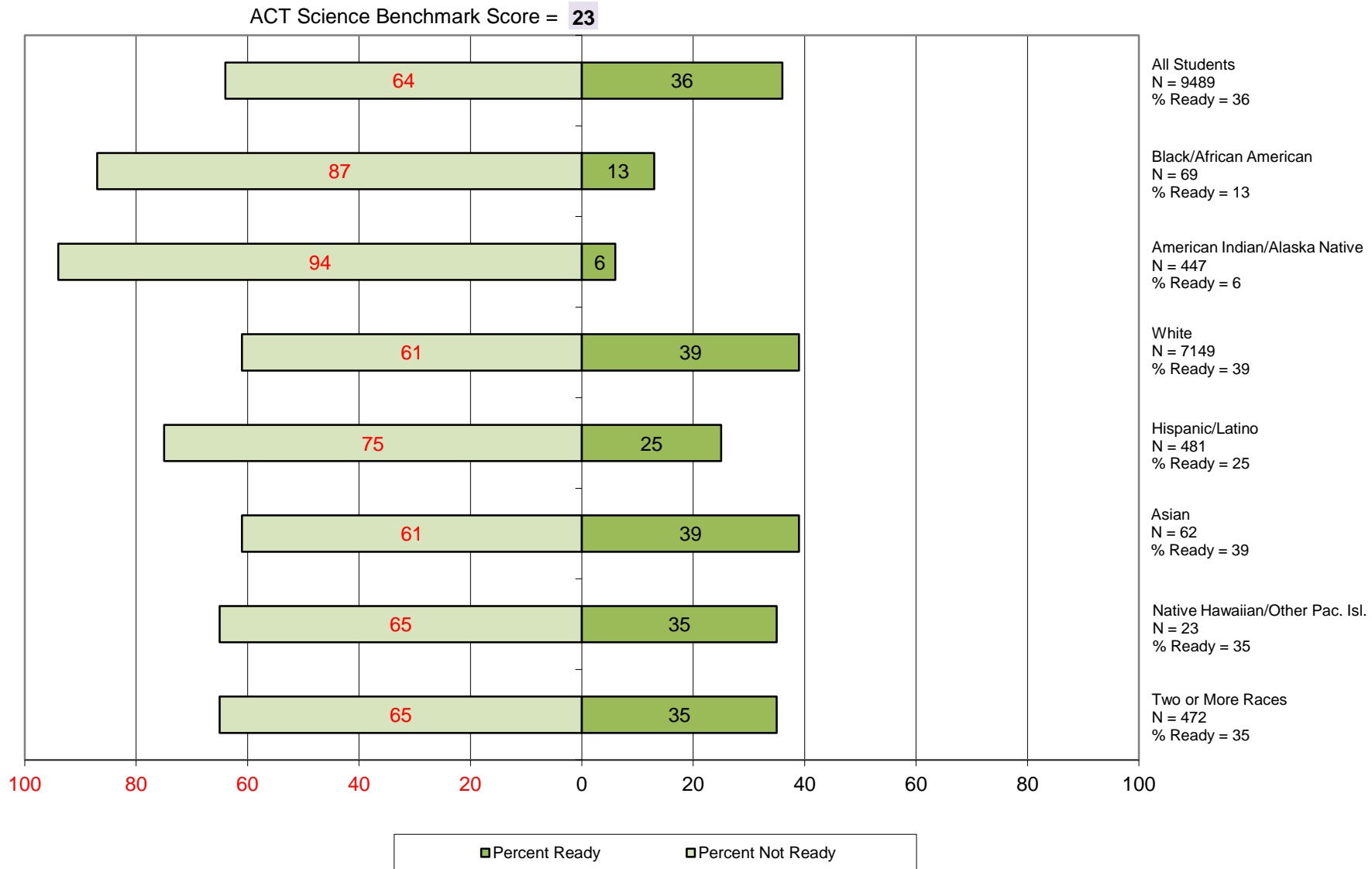
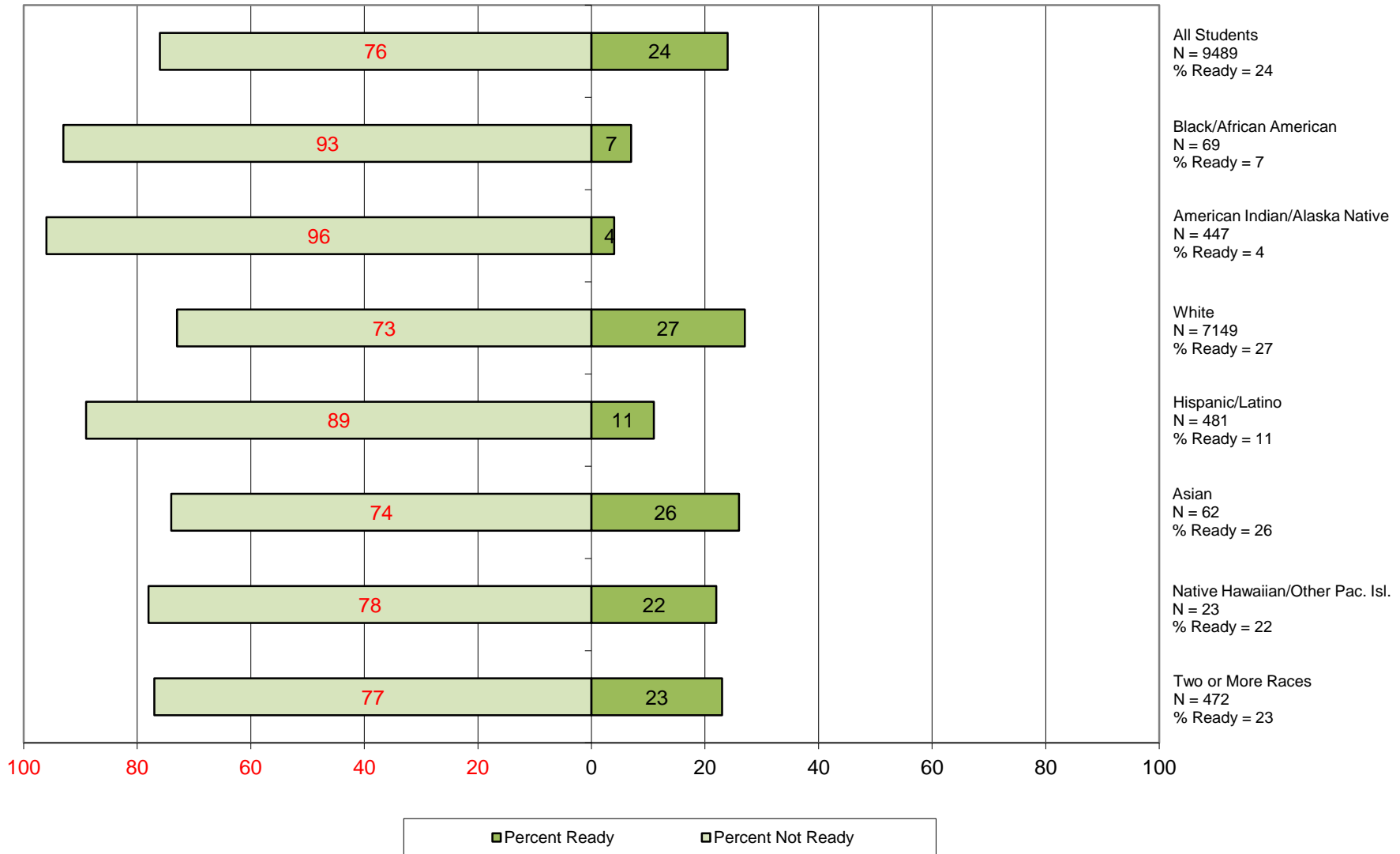


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR





Total Students in Report: 9,489

**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	1,480	16	20.7	4.7	600	13	20.2	4.8	875	19	21.2	4.3
Eng 9, Eng 10, Eng 11, Eng 12	6,488	68	19.3	3.3	3,219	70	18.7	3.3	3,182	69	20.0	3.1
Less than 4 years of English	840	9	16.0	-	479	10	15.4	-	332	7	16.9	-
Zero years / no English courses reported	681	7	17.2	-	287	6	16.1	-	212	5	17.0	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	440	5	24.8	8.5	203	4	25.8	9.5	227	5	23.9	7.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	649	7	22.7	6.4	232	5	23.6	7.3	415	9	22.2	5.9
Alg 1, Alg 2, Geom, & Trig	636	7	20.3	4.0	305	7	20.9	4.6	320	7	19.6	3.3
Alg 1, Alg 2, Geom, & Other Adv Math	1,520	16	21.1	4.8	649	14	21.4	5.1	857	19	21.0	4.7
Other comb of 4 or more years of Math	1,853	20	24.5	8.2	968	21	25.1	8.8	873	19	23.8	7.5
Alg 1, Alg 2, & Geom	1,764	19	18.2	1.9	888	19	18.5	2.2	849	18	17.9	1.6
Other comb of 3 or 3.5 years of Math	349	4	20.2	3.9	171	4	20.1	3.8	171	4	20.5	4.2
Less than 3 years of Math	1,468	15	16.3	-	802	17	16.3	-	630	14	16.3	-
Zero years / no Math courses reported	810	9	18.3	-	367	8	17.7	-	259	6	17.7	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	929	10	21.5	2.8	463	10	20.8	2.6	459	10	22.3	2.8
Other comb of 4 or more years Social Science	1,967	21	22.6	3.9	862	19	22.4	4.2	1,087	24	22.9	3.4
US Hist, World Hist, & Am Gov	2,097	22	20.6	1.9	1,089	24	20.1	1.9	978	21	21.3	1.8
Other comb of 3 or 3.5 years of Social Science	2,330	25	21.9	3.2	1,012	22	21.1	2.9	1,287	28	22.6	3.1
Less than 3 years of Social Science	1,445	15	18.7	-	851	19	18.2	-	562	12	19.5	-
Zero years / no Social Science courses reported	721	8	19.2	-	308	7	18.1	-	228	5	19.4	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	2,239	24	23.2	5.1	1,183	26	23.9	6.0	1,033	22	22.5	4.1
Bio, Chem, Phys	240	3	24.0	5.9	137	3	24.6	6.7	102	2	23.2	4.8
Gen Sci <sup>2</sup> , Bio, Chem	2,646	28	21.1	3.0	1,060	23	21.2	3.3	1,560	34	21.1	2.7
Other comb of 3 years of Natural Science	462	5	21.3	3.2	270	6	21.5	3.6	183	4	20.9	2.5
Less than 3 years of Natural Science	3,143	33	18.1	-	1,609	35	17.9	-	1,477	32	18.4	-
Zero years / no Natural Science courses reported	759	8	18.6	-	326	7	18.1	-	246	5	18.1	-

<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: 9,489

**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	1,480	16	20.7	69	373,145	19	21.7	72
Eng 9, Eng 10, Eng 11, Eng 12	6,488	68	19.3	59	1,359,318	71	20.6	65
Less than 4 years of English	840	9	16.0	36	93,944	5	15.9	36
Zero years / no English courses reported	681	7	17.2	42	98,029	5	16.5	40
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	440	5	24.8	79	123,105	6	23.5	65
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	649	7	22.7	64	164,036	9	21.7	53
Alg 1, Alg 2, Geom, & Trig	636	7	20.3	39	123,192	6	19.1	28
Alg 1, Alg 2, Geom, & Other Adv Math	1,520	16	21.1	47	362,476	19	19.4	30
Other comb of 4 or more years of Math	1,853	20	24.5	75	655,589	34	23.7	64
Alg 1, Alg 2, & Geom	1,764	19	18.2	18	219,221	11	17.1	11
Other comb of 3 or 3.5 years of Math	349	4	20.2	38	95,502	5	19.8	34
Less than 3 years of Math	1,468	15	16.3	5	78,951	4	16.3	8
Zero years / no Math courses reported	810	9	18.3	25	102,364	5	17.8	20
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	929	10	21.5	47	48,944	3	22.3	51
Other comb of 4 or more years Social Science	1,967	21	22.6	55	942,441	49	22.3	52
US Hist, World Hist, & Am Gov	2,097	22	20.6	40	108,348	6	19.7	35
Other comb of 3 or 3.5 years of Social Science	2,330	25	21.9	50	527,956	27	21.4	46
Less than 3 years of Social Science	1,445	15	18.7	28	194,720	10	19.5	34
Zero years / no Social Science courses reported	721	8	19.2	31	102,027	5	18.1	26
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	2,239	24	23.2	58	807,744	42	22.2	48
Bio, Chem, Phys	240	3	24.0	66	217,893	11	23.2	55
Gen Sci <sup>1</sup> , Bio, Chem	2,646	28	21.1	40	512,754	27	20.1	30
Other comb of 3 years of Natural Science	462	5	21.3	41	54,439	3	19.1	24
Less than 3 years of Natural Science	3,143	33	18.1	17	227,926	12	18.1	18
Zero years / no Natural Science courses reported	759	8	18.6	23	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: 9,489

**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	312	3	18.9	76	6	16.1	207	3	20.1
Architecture	95	1	20.4	10	1	17.8	82	1	20.9
Area, Ethnic, & Multidisciplinary Studies	11	0	20.8	4	0	15.0	6	0	24.8
Arts: Visual & Performing	732	8	19.9	122	10	17.5	568	8	20.6
Business	562	6	20.8	70	6	17.7	471	7	21.4
Communications	108	1	21.4	8	1	17.3	97	1	21.8
Community, Family, & Personal Services	397	4	18.3	116	10	17.4	243	4	19.0
Computer Science & Mathematics	189	2	22.6	22	2	17.8	160	2	23.6
Education	515	5	20.2	32	3	17.0	460	7	20.5
Engineering	708	7	22.7	61	5	16.6	625	9	23.5
Engineering Technology & Drafting	163	2	19.6	48	4	17.4	106	2	20.9
English & Foreign Languages	126	1	23.3	6	1	19.0	115	2	23.6
Health Administration & Assisting	122	1	19.1	14	1	18.4	104	2	19.3
Health Sciences & Technologies	1,691	18	21.1	115	10	18.3	1,506	22	21.5
Philosophy, Religion, & Theology	44	0	21.6	6	1	19.7	32	0	21.7
Repair, Production, & Construction	441	5	17.4	228	19	16.9	170	3	18.4
Sciences: Biological & Physical	437	5	23.5	12	1	19.8	413	6	23.7
Social Sciences & Law	616	6	21.5	34	3	17.1	561	8	21.9
Undecided	922	10	21.1	97	8	17.2	663	10	21.5
No Response	1,266	13	17.8	85	7	15.7	118	2	17.6

<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: 9,489

**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	304	16.6	3	16.3	17	14.4	232	16.9	15	16.7
2-yr College Degree	870	17.4	8	15.3	34	14.9	682	17.6	49	16.7
Bachelors Degree	4,206	20.5	30	19.5	185	16.1	3,347	21.0	206	18.6
Graduate Study	1,038	23.2	8	17.9	33	18.2	850	23.7	46	19.8
Prof. Level Degree	1,483	23.0	6	17.7	57	18.4	1,117	23.5	97	20.4
Other	339	17.2	2	13.5	17	14.4	265	17.6	11	16.4
No Response	1,249	18.7	12	16.0	104	14.9	656	18.4	57	17.2

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	304	16.6	2	15.5	1	16.0	15	16.1	19	16.1
2-yr College Degree	870	17.4	3	16.3	0	.	49	17.3	45	16.7
Bachelors Degree	4,206	20.5	25	21.2	11	20.2	199	19.8	203	19.2
Graduate Study	1,038	23.2	8	26.1	2	20.5	43	22.4	48	22.4
Prof. Level Degree	1,483	23.0	18	20.2	5	17.8	105	23.0	78	22.6
Other	339	17.2	3	16.7	1	18.0	14	17.0	26	15.8
No Response	1,249	18.7	3	22.3	3	16.7	47	17.8	367	20.6

Total Students in Report: 9,489

**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
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	3,768	1,595	2,173	1	10	28	30	20	9	1
UNIVERSITY OF MONTANA	Montana	3,458	1,316	2,142	2	13	30	30	17	7	1
MONTANA STATE UNIVERSITY-BILLINGS	Montana	1,482	523	959	3	17	36	27	13	3	0
MONTANA TECH OF THE UNIV OF MONTANA	Montana	975	273	702	2	12	30	27	20	9	1
CARROLL COLLEGE	Montana	767	187	580	1	9	23	28	27	11	1
UNIVERSITY OF MONTANA WESTERN	Montana	637	178	459	2	21	37	28	11	2	0
MONTANA STATE UNIVERSITY-NORTHERN	Montana	531	190	341	5	23	36	27	7	2	0
ROCKY MOUNTAIN COLLEGE	Montana	520	75	445	3	17	30	28	16	6	0
FLATHEAD VALLEY COMMUNITY COLLEGE	Montana	475	221	254	4	22	36	25	10	2	0
UNIVERSITY OF GREAT FALLS	Montana	442	74	368	2	23	34	26	12	2	0
STATE-NO COLLEGE PLANS	Iowa	438	438	0	10	35	36	14	5	0	0
UNIVERSITY OF WASHINGTON	Washington	430	79	351	0	7	18	29	31	13	1
UNIVERSITY OF MONTANA-HELENA C OF TECH	Montana	298	75	223	6	21	39	24	8	2	0
GREAT FALLS COLLEGE/MSU	Montana	274	84	190	3	20	39	22	14	1	0
ARIZONA STATE UNIVERSITY	Arizona	242	85	157	1	12	28	35	16	7	2
UNIVERSITY OF OREGON	Oregon	230	50	180	2	6	20	26	30	14	2
GONZAGA UNIVERSITY	Washington	223	40	183	2	7	17	30	26	17	1
BOISE STATE UNIVERSITY	Idaho	211	43	168	1	9	27	37	20	6	0
WASHINGTON STATE UNIVERSITY	Washington	196	44	152	1	7	19	31	26	15	1
MILES COMMUNITY COLLEGE	Montana	186	62	124	4	27	36	23	11	0	0
NCAA ELIGIBILITY CENTER	Indiana	164	46	118	0	7	23	37	23	9	1
ART INSTITUTE OF SEATTLE THE	Washington	155	34	121	1	20	38	28	13	1	0
NORTHWEST COLLEGE	Wyoming	149	43	106	1	17	38	33	8	3	0
BRIGHAM YOUNG UNIVERSITY	Utah	147	55	92	1	5	10	35	31	17	1
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	144	62	82	2	3	18	36	28	12	1
UNIVERSITY OF WYOMING	Wyoming	141	26	115	1	13	21	32	28	6	0
DAWSON COMMUNITY COLLEGE	Montana	133	34	99	5	32	35	22	6	1	0
COLORADO STATE UNIVERSITY	Colorado	126	27	99	0	3	21	28	23	23	2
UNIVERSITY OF PORTLAND	Oregon	126	17	109	2	5	16	27	33	17	0
UNIV OF COLORADO-BOULDER	Colorado	121	22	99	1	2	23	25	29	17	3
All Other Institutions		8,988	2,020	6,968	2	12	26	26	20	11	1
<b>Total</b>		<b>26,177</b>	<b>8,018</b>	<b>18,159</b>	<b>2</b>	<b>13</b>	<b>28</b>	<b>28</b>	<b>19</b>	<b>9</b>	<b>1</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: 9,489

**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>8,703</b>	<b>1,108,908</b>	<b>18.9</b>	<b>21.0</b>	<b>6.3</b>	<b>6.9</b>	<b>18.2</b>	<b>20.2</b>
Black/African American	66	136,380	16.4	16.3	6.0	6.0	16.0	15.9
American Indian/Alaska Native	425	7,142	14.0	16.5	5.2	5.9	13.5	16.0
White	6,487	567,060	19.5	22.8	6.5	7.1	18.7	21.8
Hispanic/Latino	450	196,970	16.7	18.4	6.0	6.7	16.3	18.1
Asian	60	68,736	19.1	23.9	6.4	7.6	18.4	23.0
Native Hawaiian/Other Pac. Isl.	20	4,070	16.3	18.0	6.1	6.5	15.9	17.6
Two or more races	440	45,517	18.3	21.3	6.2	6.9	17.6	20.4
Prefer not/No Response	755	83,033	18.7	20.8	6.2	6.7	17.9	19.9
Males	4,242	507,737	18.2	20.7	6.0	6.6	17.3	19.7
Females	4,158	590,537	19.7	21.4	6.7	7.1	19.2	20.8
Missing	303	10,634	17.6	16.0	6.1	5.6	17.0	15.4





