



# Profile Report - State

Graduating Class 2015

Missouri





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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

30% 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:** 49,640 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. 71% 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 6% of the cohort took less than three years of math courses. Of these students, 9% were college ready. 15% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 12% of these students were college ready. In comparison, 54% 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 17% of the cohort took less than three years of natural science courses. 26% of these students were college ready. In comparison, 46% 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 47% 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

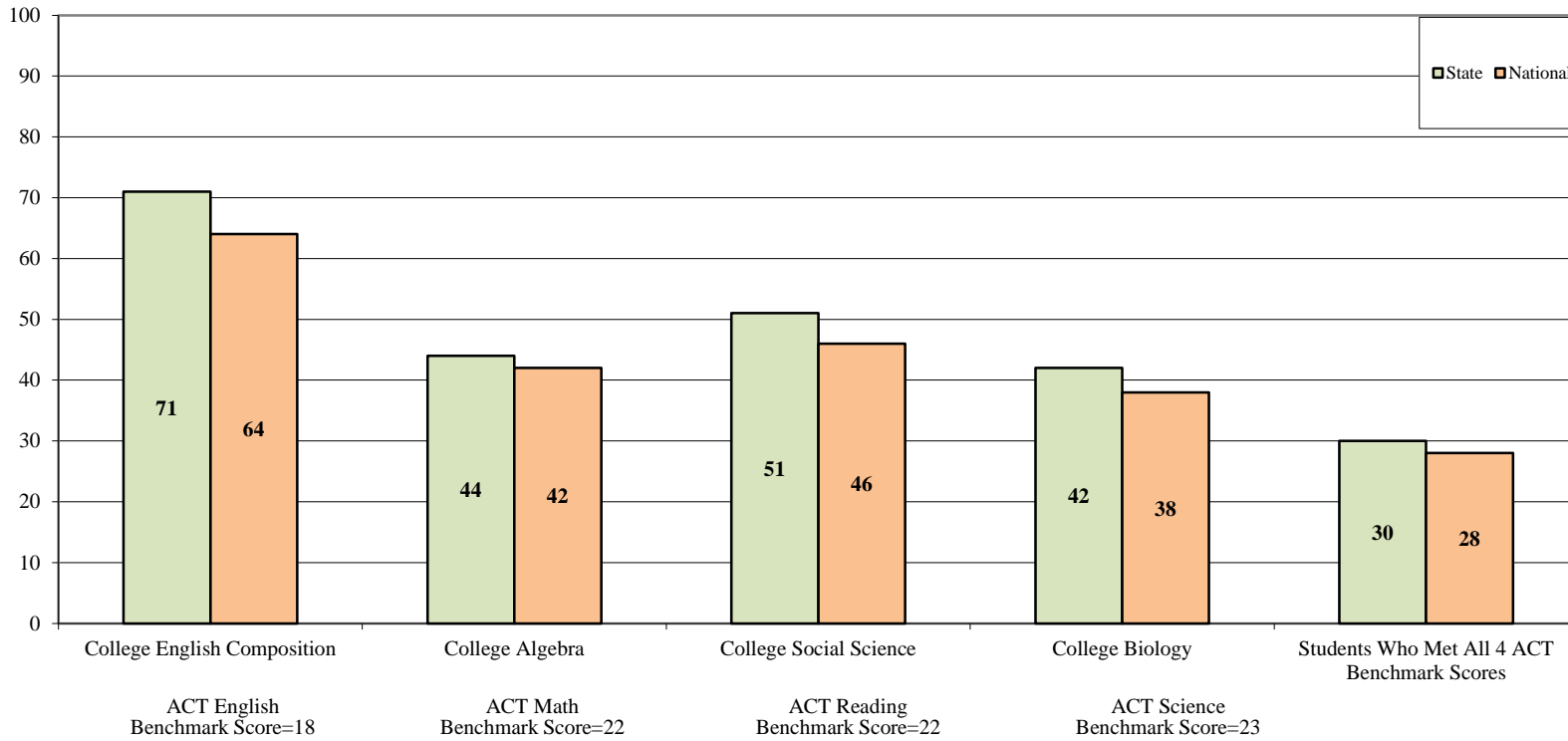
## Executive Summary

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: 49,640

**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	48,565	1,623,112	73	66	44	45	56	52	32	30	26	25
2012	49,222	1,666,017	73	67	46	46	56	52	33	31	27	25
2013	49,217	1,799,243	72	64	45	44	49	44	41	36	28	26
2014	48,865	1,845,787	72	64	45	43	51	44	42	37	29	26
<b>2015</b>	<b>49,640</b>	<b>1,924,436</b>	<b>71</b>	<b>64</b>	<b>44</b>	<b>42</b>	<b>51</b>	<b>46</b>	<b>42</b>	<b>38</b>	<b>30</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	48,565	1,623,112	21.5	20.6	21.0	21.1	21.9	21.3	21.6	20.9	21.6	21.1
2012	49,222	1,666,017	21.4	20.5	21.1	21.1	21.9	21.3	21.5	20.9	21.6	21.1
2013	49,217	1,799,243	21.4	20.2	21.0	20.9	21.9	21.1	21.6	20.7	21.6	20.9
2014	48,865	1,845,787	21.6	20.3	21.1	20.9	22.3	21.3	21.7	20.8	21.8	21.0
<b>2015</b>	<b>49,640</b>	<b>1,924,436</b>	<b>21.4</b>	<b>20.4</b>	<b>21.0</b>	<b>20.8</b>	<b>22.2</b>	<b>21.4</b>	<b>21.7</b>	<b>20.9</b>	<b>21.7</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: 49,640

**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	34,732	12,783	72	26	22.5	19.5	21.8	19.1	22.6	20.3	22.3	20.0	22.4	19.9
2012	35,618	12,924	72	26	22.3	19.4	21.8	19.2	22.6	20.2	22.2	19.9	22.3	19.8
2013	35,123	12,554	71	26	22.3	19.4	21.8	19.2	22.7	20.3	22.3	20.0	22.4	19.8
2014	35,194	12,260	72	25	22.4	19.5	21.9	19.3	22.9	20.6	22.4	20.2	22.5	20.0
<b>2015</b>	<b>35,404</b>	<b>12,696</b>	<b>71</b>	<b>26</b>	<b>22.3</b>	<b>19.5</b>	<b>21.8</b>	<b>19.3</b>	<b>22.9</b>	<b>20.6</b>	<b>22.4</b>	<b>20.1</b>	<b>22.5</b>	<b>20.0</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.

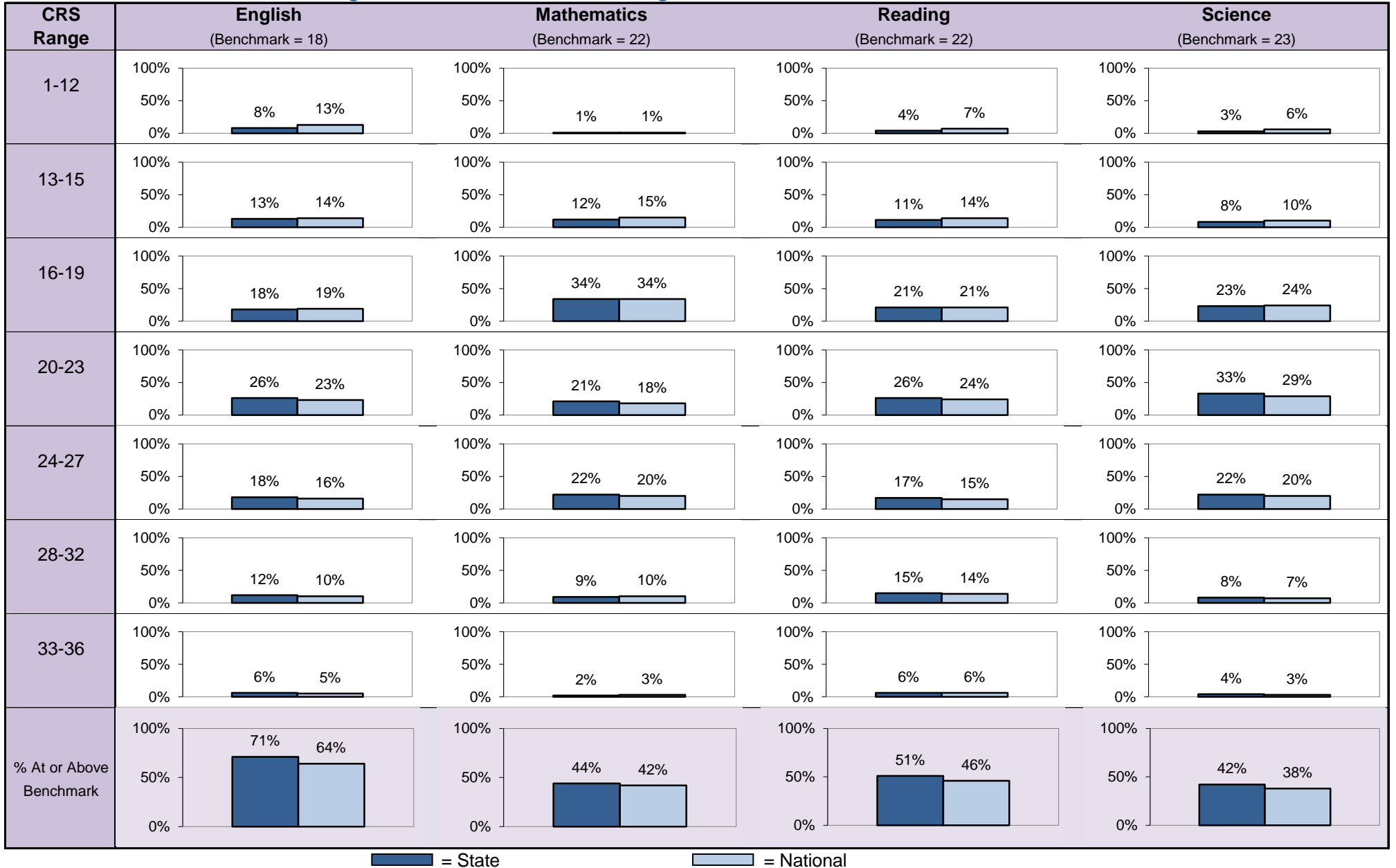
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

**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>48,565</b>	<b>100</b>	<b>21.6</b>	<b>49,222</b>	<b>100</b>	<b>21.6</b>	<b>49,217</b>	<b>100</b>	<b>21.6</b>	<b>48,865</b>	<b>100</b>	<b>21.8</b>	<b>49,640</b>	<b>100</b>	<b>21.7</b>
Black/African American	6,366	13	17.2	6,253	13	17.1	6,117	12	17.2	5,784	12	17.3	6,146	12	17.3
American Indian/Alaska Native	240	0	20.5	218	0	19.6	213	0	19.6	193	0	20.1	151	0	19.5
White	36,368	75	22.5	36,303	74	22.4	35,485	72	22.5	35,326	72	22.6	35,429	71	22.6
Hispanic/Latino	1,707	4	20.1	2,033	4	20.2	2,240	5	19.9	2,193	4	20.2	2,392	5	20.1
Asian	974	2	23.5	978	2	23.3	1,041	2	23.7	1,115	2	23.4	1,079	2	23.6
Native Hawaiian/Other Pacific Islander	55	0	19.3	87	0	19.7	72	0	20.0	71	0	19.8	84	0	19.4
Two or more races	1,227	3	20.9	1,634	3	21.2	1,790	4	21.1	1,900	4	21.5	2,010	4	21.3
Prefer not to respond/No response	1,628	3	21.4	1,716	3	22.0	2,259	5	21.5	2,283	5	21.8	2,349	5	21.7

Total Students in Report: 49,640

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



Total Students in Report: 49,640

**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	47,843	96	21.5	21.1	22.2	21.7	21.8
	Extended Time	1,797	4	18.8	19.1	20.9	20.0	19.8
	Total	49,640	100	21.4	21.0	22.2	21.7	21.7
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	71	45	51	43	30
	Extended Time	53	30	43	33	23
	Total	71	44	51	42	30
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: 49,640

**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	197	100	108	100	368	100	289	100	31	100	36
35	840	100	227	100	476	99	407	99	184	100	35
34	997	98	399	99	1,011	98	538	99	384	100	34
33	872	96	336	99	1,244	96	546	98	578	99	33
32	999	94	509	98	1,330	94	706	96	813	98	32
31	1,135	92	498	97	1,448	91	489	95	1,139	96	31
30	1,037	90	772	96	1,710	88	681	94	1,023	94	30
29	1,165	88	898	94	1,341	85	874	93	1,257	92	29
28	1,481	85	1,865	92	1,644	82	1,106	91	1,752	89	28
27	1,625	82	2,178	89	1,722	79	1,316	89	2,035	86	27
26	1,930	79	2,835	84	1,891	75	2,742	86	2,294	81	26
25	2,903	75	2,445	79	1,952	71	3,283	80	2,690	77	25
24	2,570	69	3,283	74	2,660	67	3,761	74	3,128	71	24
23	3,070	64	2,983	67	3,190	62	4,261	66	3,416	65	23
22	2,903	58	2,743	61	3,274	56	3,603	58	3,411	58	22
21	3,423	52	2,031	56	3,237	49	4,467	50	3,707	51	21
20	3,340	45	2,574	51	3,392	43	3,917	41	3,725	44	20
19	2,236	39	3,217	46	2,921	36	3,694	34	3,488	36	19
18	2,349	34	3,463	40	2,976	30	3,137	26	3,347	29	18
17	2,050	29	5,116	33	2,348	24	2,169	20	2,935	23	17
16	2,463	25	5,195	22	1,964	19	2,489	15	2,565	17	16
15	3,205	20	3,441	12	2,445	15	1,689	10	2,107	12	15
14	1,810	14	1,699	5	1,517	10	1,065	7	1,756	7	14
13	1,271	10	571	2	1,562	7	1,023	5	1,134	4	13
12	1,070	8	164	1	1,160	4	644	3	536	1	12
11	1,041	5	58	1	412	2	394	1	152	1	11
10	833	3	21	1	276	1	205	1	32	1	10
9	445	2	2	1	67	1	84	1	15	1	9
8	220	1	5	1	56	1	36	1	4	1	8
7	95	1	0	1	18	1	13	1	1	1	7
6	39	1	2	1	19	1	8	1	1	1	6
5	16	1	0	1	1	1	1	1	0	1	5
4	6	1	2	1	6	1	0	1	0	1	4
3	3	1	0	1	1	1	2	1	0	1	3
2	1	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	1	1	0	1	1
Avg (SD)	21.4 (6.3)		21.0 (5.0)		22.2 (6.1)		21.7 (5.1)		21.7 (5.1)		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: 49,640

**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	2,084	100	935	100	1,530	100	2,109	100	1,399	100	290	100	380	100	18
17	2,887	96	988	98	2,921	97	2,483	96	1,655	97	439	99	140	99	17
16	2,123	90	3,353	96	3,020	91	3,159	91	2,827	94	967	99	1,578	99	16
15	2,734	86	3,767	89	3,637	85	3,892	84	2,582	88	2,773	97	2,835	96	15
14	2,614	80	3,652	82	3,336	78	3,794	77	3,279	83	4,401	91	3,617	90	14
13	2,892	75	4,359	74	4,500	71	3,688	69	4,600	76	5,116	82	4,844	83	13
12	3,798	69	5,081	66	5,137	62	4,501	61	5,184	67	4,621	72	4,988	73	12
11	5,435	61	5,419	55	4,267	51	4,045	52	4,031	57	6,615	63	5,392	63	11
10	5,303	51	5,030	44	5,848	43	4,186	44	4,920	49	8,190	49	7,026	52	10
9	4,176	40	5,333	34	3,977	31	4,329	36	4,279	39	6,568	33	6,852	38	9
8	4,171	31	4,632	24	5,086	23	3,303	27	4,738	30	4,595	19	4,933	24	8
7	3,794	23	2,361	14	3,196	13	3,253	20	5,900	20	2,730	10	2,802	14	7
6	3,180	15	1,988	10	1,745	6	3,566	14	2,441	9	666	5	1,997	9	6
5	2,261	9	1,510	6	871	3	1,987	7	1,161	4	1,016	3	1,202	5	5
4	1,295	4	870	2	284	1	983	3	439	1	183	1	390	2	4
3	656	2	316	1	148	1	269	1	150	1	350	1	456	1	3
2	199	1	42	1	97	1	82	1	49	1	16	1	23	1	2
1	38	1	4	1	40	1	11	1	6	1	104	1	185	1	1
Avg (SD)	10.7 (3.9)		11.0 (3.4)		11.4 (3.4)		11.2 (3.8)		10.9 (3.4)		10.8 (2.8)		10.5 (3.0)		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)	25	25	26	25	25
Q2 (50th Percentile)	21	20	22	21	21
Q1 (25th Percentile)	16	17	18	18	18

Total Students in Report: 49,640

**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>49,640</b>	<b>71</b>	<b>22.5</b>	<b>20.0</b>
	Black/African American	6,146	71	17.8	16.4
	American Indian/Alaska Native	151	66	20.1	18.9
	White	35,429	72	23.3	20.7
	Hispanic/Latino	2,392	69	20.9	18.5
	Asian	1,079	79	24.4	20.7
	Native Hawaiian/Other Pac. Isl.	84	69	20.2	18.1
	Two or more races	2,010	73	21.9	19.8
	Prefer not/No Response	2,349	54	22.9	20.1
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>	21.4	21.0	22.2	21.7	21.7
	Black/African American	16.3	17.1	17.5	17.7	17.3
	American Indian/Alaska Native	18.8	18.8	19.9	20.0	19.5
	White	22.4	21.8	23.1	22.4	22.6
	Hispanic/Latino	19.5	19.6	20.5	20.3	20.1
	Asian	22.9	24.3	23.0	23.5	23.6
	Native Hawaiian/Other Pac. Isl.	18.8	19.3	19.8	19.5	19.4
	Two or more races	20.9	20.5	21.8	21.3	21.3
	Prefer not/No Response	21.3	20.9	22.4	21.6	21.7
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: 49,640

**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	2,906	6	1,070	2	3,099	6	1,780	4
	28 to 32	5,817	12	4,542	9	7,473	15	3,856	8
	24 to 27	9,028	18	10,741	22	8,225	17	11,102	22
	20 to 23	12,736	26	10,331	21	13,093	26	16,248	33
	16 to 19	9,098	18	16,991	34	10,209	21	11,489	23
	13 to 15	6,286	13	5,711	12	5,524	11	3,777	8
	01 to 12	3,769	8	254	1	2,017	4	1,388	3
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	22,860	46	21.2	21.7	22.2	22.3	22.0
	Females	26,657	54	21.6	20.5	22.1	21.2	21.5
	Missing	123	0	14.3	16.6	16.3	16.1	15.9
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	69	50	51	47	33
	Females	72	40	51	38	26
National	Males	61	46	45	42	30
	Females	66	39	47	36	26

Total Students in Report: 49,640

**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>	35,404	76	22.3	51	21.8	56	22.9	48	22.4	34	22.5
	Less than Core	12,696	59	19.5	29	19.3	40	20.6	29	20.1	17	20.0
	Missing <sup>3</sup>	1,540	43	17.3	21	18.0	32	19.2	25	18.7	16	18.4
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>	46,043	72	21.7	45,426	47	21.4	45,100	52	22.3	39,882	46	22.2
	Less than Core	2,232	49	18.0	2,769	9	16.7	3,116	45	21.3	8,331	26	19.8
	Missing <sup>3</sup>	1,365	46	17.6	1,445	22	18.1	1,424	34	19.5	1,427	26	18.9
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

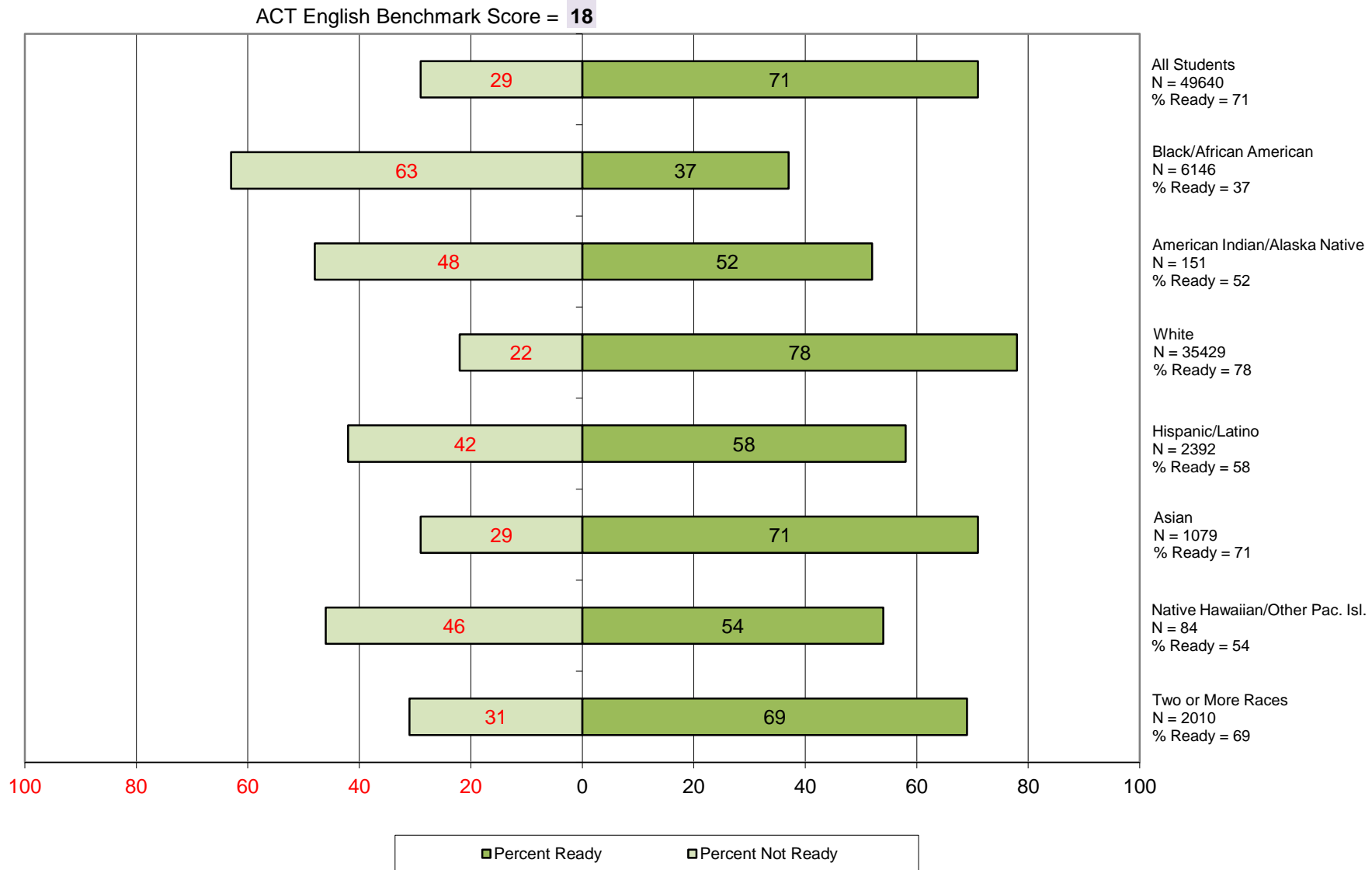


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

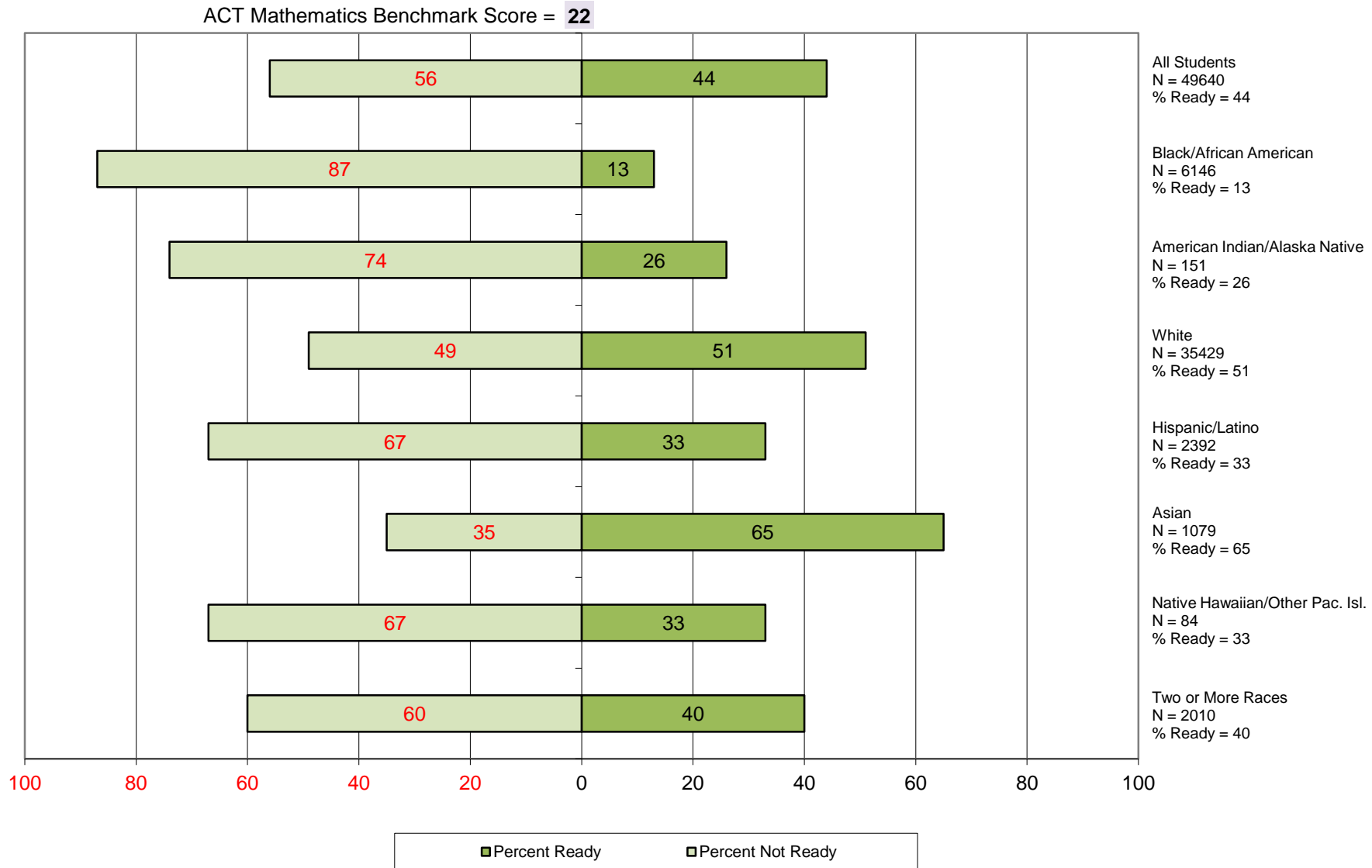
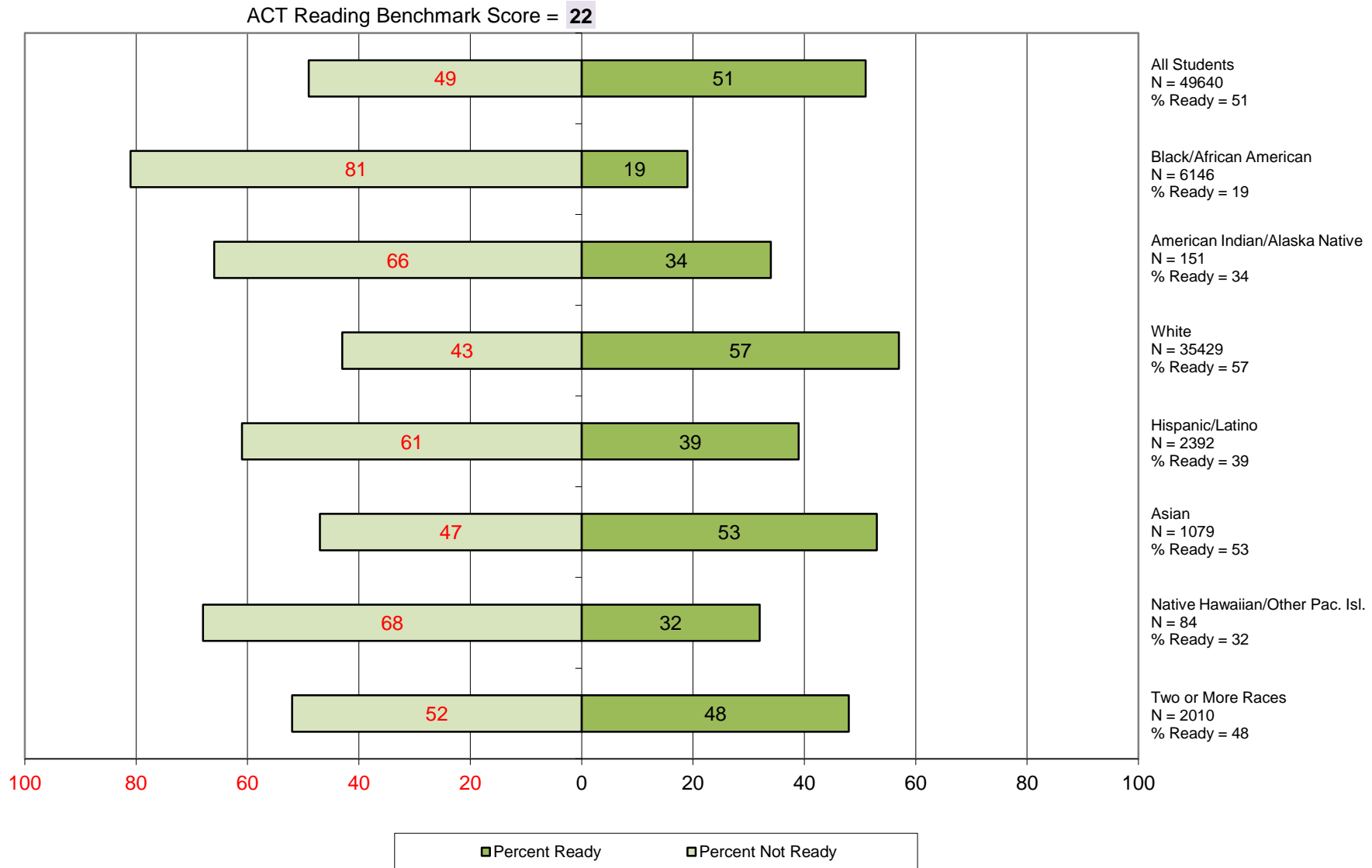
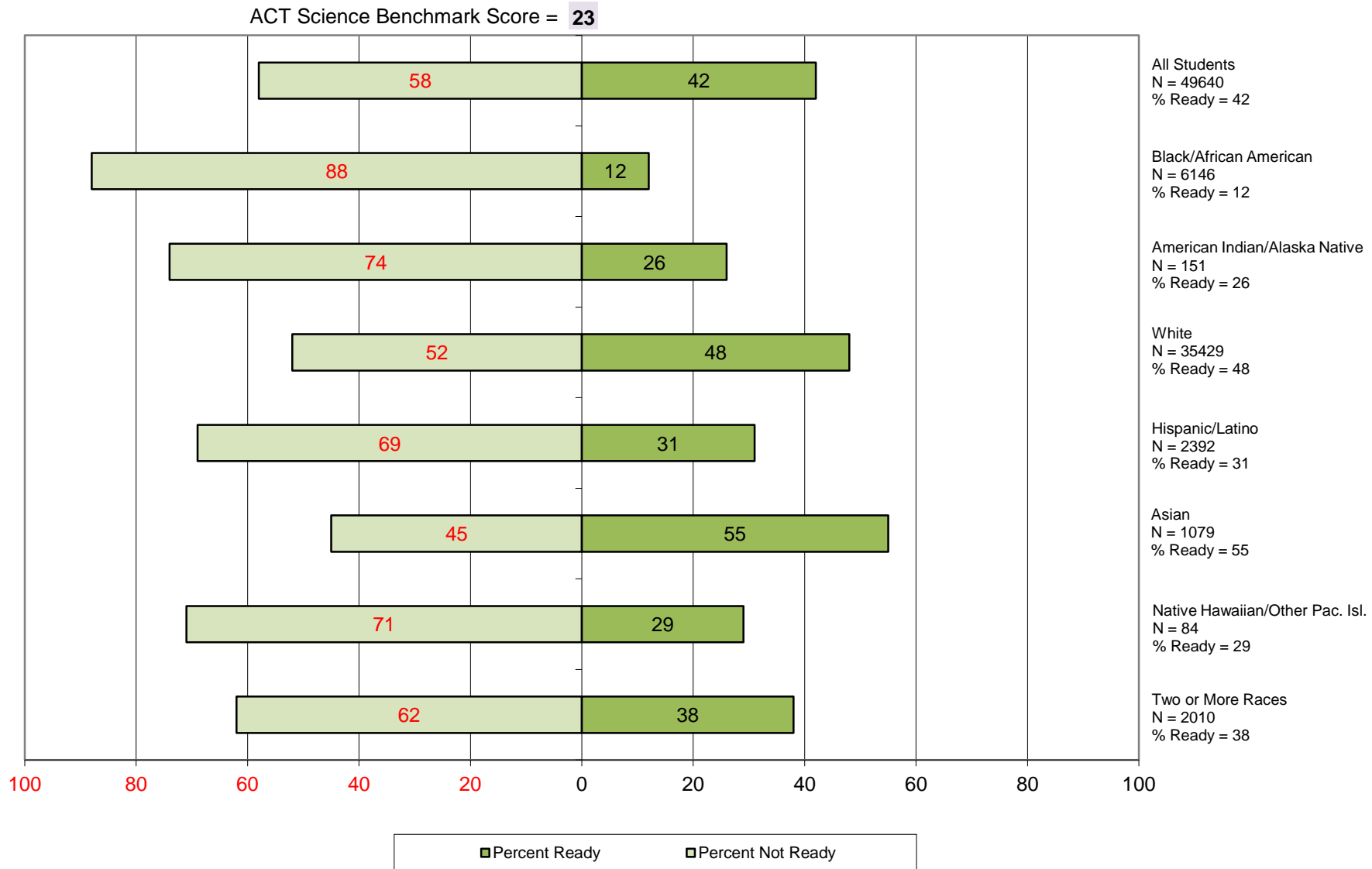


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING



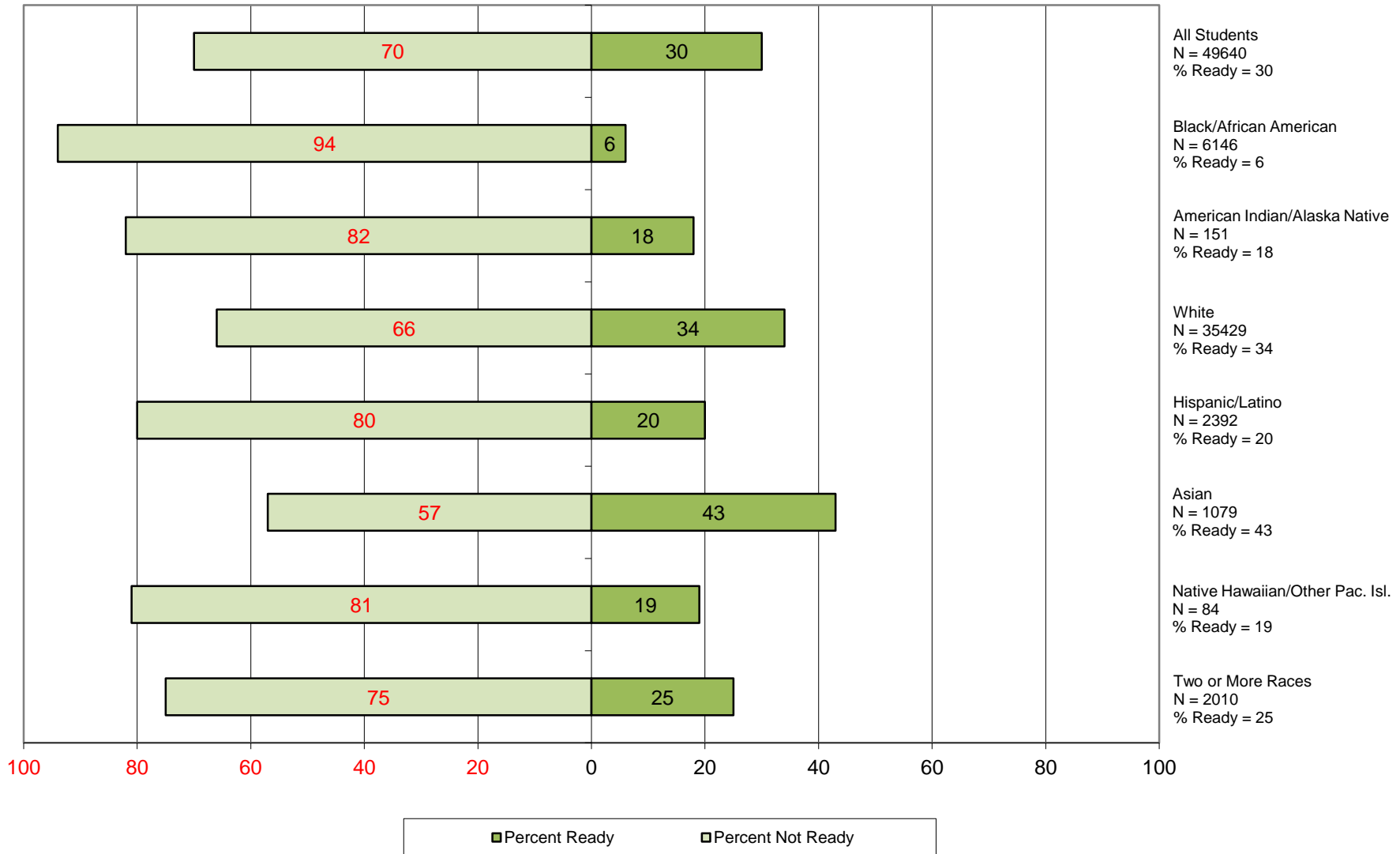
Total Students in Report: 49,640

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



Total Students in Report: 49,640

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





Total Students in Report: 49,640

**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	14,458	29	22.2	4.2	5,912	26	21.8	4.1	8,532	32	22.5	4.2
Eng 9, Eng 10, Eng 11, Eng 12	31,585	64	21.5	3.5	15,102	66	21.3	3.6	16,443	62	21.6	3.3
Less than 4 years of English	2,232	4	18.0	-	1,111	5	17.7	-	1,106	4	18.3	-
Zero years / no English courses reported	1,365	3	17.6	-	735	3	18.0	-	576	2	17.7	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	2,317	5	24.0	7.3	1,144	5	24.8	7.9	1,171	4	23.3	6.9
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,604	11	22.6	5.9	2,149	9	23.2	6.3	3,452	13	22.2	5.8
Alg 1, Alg 2, Geom, & Trig	2,801	6	19.6	2.9	1,259	6	20.2	3.3	1,534	6	19.2	2.8
Alg 1, Alg 2, Geom, & Other Adv Math	10,059	20	20.1	3.4	3,806	17	20.6	3.7	6,236	23	19.8	3.4
Other comb of 4 or more years of Math	15,379	31	23.8	7.1	8,119	36	24.5	7.6	7,252	27	23.0	6.6
Alg 1, Alg 2, & Geom	7,468	15	17.5	0.8	3,321	15	17.9	1.0	4,129	15	17.2	0.8
Other comb of 3 or 3.5 years of Math	1,798	4	20.2	3.5	944	4	20.6	3.7	854	3	19.7	3.3
Less than 3 years of Math	2,769	6	16.7	-	1,344	6	16.9	-	1,415	5	16.4	-
Zero years / no Math courses reported	1,445	3	18.1	-	774	3	18.7	-	614	2	17.5	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	2,708	5	22.4	1.1	1,480	6	22.3	0.8	1,220	5	22.5	1.4
Other comb of 4 or more years Social Science	20,621	42	22.9	1.6	9,479	41	23.0	1.5	11,123	42	22.9	1.8
US Hist, World Hist, & Am Gov	7,421	15	20.5	-0.8	3,644	16	20.6	-0.9	3,762	14	20.4	-0.7
Other comb of 3 or 3.5 years of Social Science	14,350	29	22.3	1.0	5,992	26	22.4	0.9	8,341	31	22.3	1.2
Less than 3 years of Social Science	3,116	6	21.3	-	1,502	7	21.5	-	1,607	6	21.1	-
Zero years / no Social Science courses reported	1,424	3	19.5	-	763	3	19.8	-	604	2	19.7	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	18,283	37	22.9	3.1	9,332	41	23.6	3.6	8,933	34	22.1	2.4
Bio, Chem, Phys	5,356	11	23.1	3.3	2,590	11	24.1	4.1	2,757	10	22.1	2.4
Gen Sci <sup>2</sup> , Bio, Chem	14,589	29	21.2	1.4	5,709	25	21.4	1.4	8,863	33	21.1	1.4
Other comb of 3 years of Natural Science	1,654	3	20.5	0.7	899	4	21.2	1.2	750	3	19.8	0.1
Less than 3 years of Natural Science	8,331	17	19.8	-	3,560	16	20.0	-	4,753	18	19.7	-
Zero years / no Natural Science courses reported	1,427	3	18.9	-	770	3	19.6	-	601	2	18.4	-

<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: 49,640

**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	14,458	29	22.2	76	373,145	19	21.7	72
Eng 9, Eng 10, Eng 11, Eng 12	31,585	64	21.5	71	1,359,318	71	20.6	65
Less than 4 years of English	2,232	4	18.0	49	93,944	5	15.9	36
Zero years / no English courses reported	1,365	3	17.6	46	98,029	5	16.5	40
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	2,317	5	24.0	69	123,105	6	23.5	65
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,604	11	22.6	62	164,036	9	21.7	53
Alg 1, Alg 2, Geom, & Trig	2,801	6	19.6	32	123,192	6	19.1	28
Alg 1, Alg 2, Geom, & Other Adv Math	10,059	20	20.1	37	362,476	19	19.4	30
Other comb of 4 or more years of Math	15,379	31	23.8	67	655,589	34	23.7	64
Alg 1, Alg 2, & Geom	7,468	15	17.5	12	219,221	11	17.1	11
Other comb of 3 or 3.5 years of Math	1,798	4	20.2	36	95,502	5	19.8	34
Less than 3 years of Math	2,769	6	16.7	9	78,951	4	16.3	8
Zero years / no Math courses reported	1,445	3	18.1	22	102,364	5	17.8	20
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	2,708	5	22.4	52	48,944	3	22.3	51
Other comb of 4 or more years Social Science	20,621	42	22.9	57	942,441	49	22.3	52
US Hist, World Hist, & Am Gov	7,421	15	20.5	38	108,348	6	19.7	35
Other comb of 3 or 3.5 years of Social Science	14,350	29	22.3	52	527,956	27	21.4	46
Less than 3 years of Social Science	3,116	6	21.3	45	194,720	10	19.5	34
Zero years / no Social Science courses reported	1,424	3	19.5	34	102,027	5	18.1	26
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	18,283	37	22.9	52	807,744	42	22.2	48
Bio, Chem, Phys	5,356	11	23.1	53	217,893	11	23.2	55
Gen Sci <sup>1</sup> , Bio, Chem	14,589	29	21.2	38	512,754	27	20.1	30
Other comb of 3 years of Natural Science	1,654	3	20.5	32	54,439	3	19.1	24
Less than 3 years of Natural Science	8,331	17	19.8	26	227,926	12	18.1	18
Zero years / no Natural Science courses reported	1,427	3	18.9	26	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: 49,640

**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	1,148	2	20.2	131	5	17.2	954	2	20.7
Architecture	523	1	21.2	28	1	16.7	462	1	21.6
Area, Ethnic, & Multidisciplinary Studies	37	0	22.1	3	0	19.7	33	0	22.1
Arts: Visual & Performing	3,185	6	21.0	220	8	17.3	2,736	6	21.5
Business	4,691	9	21.5	273	10	17.1	4,198	10	21.9
Communications	944	2	22.3	24	1	16.1	869	2	22.6
Community, Family, & Personal Services	1,144	2	19.0	145	5	17.7	913	2	19.4
Computer Science & Mathematics	1,560	3	23.4	108	4	19.0	1,375	3	23.8
Education	3,357	7	20.9	96	3	16.6	3,154	7	21.1
Engineering	3,493	7	24.4	115	4	17.8	3,212	8	24.8
Engineering Technology & Drafting	673	1	21.0	81	3	17.4	549	1	21.8
English & Foreign Languages	559	1	23.9	17	1	17.2	509	1	24.3
Health Administration & Assisting	1,628	3	19.0	141	5	17.0	1,397	3	19.3
Health Sciences & Technologies	9,392	19	21.8	351	12	17.6	8,705	20	22.0
Philosophy, Religion, & Theology	260	1	21.6	13	0	18.4	228	1	21.9
Repair, Production, & Construction	622	1	17.8	322	11	17.4	248	1	18.7
Sciences: Biological & Physical	2,767	6	23.9	39	1	18.5	2,597	6	24.0
Social Sciences & Law	3,343	7	21.8	98	3	17.3	3,075	7	22.0
Undecided	8,745	18	22.0	530	19	17.8	7,103	17	22.5
No Response	1,529	3	18.2	75	3	14.4	154	0	17.8

<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: 49,640

**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	784	17.3	144	14.4	8	17.4	501	18.4	51	16.3
2-yr College Degree	2,040	17.4	309	14.9	8	17.1	1,415	18.1	130	16.2
Bachelors Degree	25,548	20.9	2,868	16.9	81	19.4	19,362	21.6	1,157	19.5
Graduate Study	7,247	24.4	610	19.5	14	21.3	5,650	25.0	264	23.2
Prof. Level Degree	9,698	23.9	1,261	19.3	28	22.3	6,566	24.8	529	22.6
Other	736	18.3	137	15.1	3	16.3	452	19.3	46	16.9
No Response	3,587	19.8	817	15.5	9	14.6	1,483	21.9	215	17.3

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	784	17.3	13	18.2	2	14.0	37	17.0	28	16.1
2-yr College Degree	2,040	17.4	23	17.3	4	15.8	88	17.5	63	16.6
Bachelors Degree	25,548	20.9	343	21.0	46	18.9	983	20.6	708	20.8
Graduate Study	7,247	24.4	155	25.0	9	23.3	256	23.4	289	24.6
Prof. Level Degree	9,698	23.9	434	26.4	12	23.8	487	23.2	381	24.6
Other	736	18.3	20	18.6	3	15.3	28	17.4	47	19.1
No Response	3,587	19.8	91	20.6	8	16.3	131	19.5	833	20.9

Total Students in Report: 49,640

**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 MISSOURI-COLUMBIA	Missouri	9,801	4,250	5,551	1	4	16	30	28	18	2
MISSOURI STATE UNIVERSITY	Missouri	7,962	2,772	5,190	0	6	23	35	23	11	1
UNIVERSITY OF CENTRAL MISSOURI	Missouri	3,783	1,312	2,471	1	9	30	36	18	6	0
SOUTHEAST MISSOURI STATE UNIVERSITY	Missouri	3,017	1,060	1,957	1	9	29	33	20	8	0
UNIV OF MISSOURI-KANSAS CITY	Missouri	2,631	766	1,865	1	7	21	29	24	15	2
TRUMAN STATE UNIVERSITY	Missouri	2,536	757	1,779	0	2	12	27	34	23	3
NORTHWEST MISSOURI ST UNIV	Missouri	2,463	836	1,627	1	8	31	34	19	7	0
MISSOURI UNIV OF SCIENCE & TECHNOLOGY	Missouri	2,235	1,111	1,124	0	2	8	21	33	30	7
LINDENWOOD UNIVERSITY	Missouri	1,834	576	1,258	2	10	29	32	19	8	0
SAINT LOUIS UNIVERSITY	Missouri	1,829	489	1,340	1	6	13	23	28	26	4
UNIVERSITY OF MISSOURI-ST LOUIS	Missouri	1,747	395	1,352	2	12	26	30	21	10	1
MISSOURI WESTERN STATE UNIVERSITY	Missouri	1,491	552	939	1	14	35	30	15	4	0
UNIVERSITY OF KANSAS	Kansas	1,358	400	958	1	6	17	28	26	20	2
UNIVERSITY OF ARKANSAS	Arkansas	1,314	340	974	0	1	10	35	34	18	1
MISSOURI SOUTHERN STATE UNIV	Missouri	1,232	438	794	1	10	31	33	17	6	0
COLLEGE OF THE OZARKS	Missouri	1,123	559	564	0	6	26	38	23	7	1
OZARKS TECHNICAL COMMUNITY COLLEGE	Missouri	1,063	425	638	1	11	36	34	15	3	0
WASHINGTON UNIVERSITY IN ST LOUIS	Missouri	1,056	239	817	1	5	11	17	23	33	11
NCAA ELIGIBILITY CENTER	Indiana	970	461	509	1	7	21	33	25	13	1
DRURY UNIVERSITY	Missouri	959	247	712	0	3	21	32	27	15	2
KANSAS STATE UNIVERSITY	Kansas	816	218	598	1	9	22	29	25	12	2
MARYVILLE UNIV OF SAINT LOUIS	Missouri	781	223	558	0	6	20	32	28	12	1
WEBSTER UNIVERSITY	Missouri	758	226	532	2	8	24	29	23	12	1
ROCKHURST UNIVERSITY	Missouri	682	192	490	1	4	13	30	30	19	2
SOUTHERN ILLINOIS UNIV-EDWARDSVILLE	Illinois	681	182	499	1	7	23	31	25	12	1
COLUMBIA COLLEGE	Missouri	664	193	471	1	9	30	32	21	6	0
ST CHARLES COMMUNITY COLLEGE	Missouri	664	306	358	1	9	35	34	17	4	0
PITTSBURG STATE UNIVERSITY	Kansas	658	208	450	0	7	29	38	18	8	0
LINCOLN UNIVERSITY	Missouri	639	206	433	4	33	38	16	7	1	0
CROWDER COLLEGE	Missouri	600	250	350	1	14	37	31	12	4	1
All Other Institutions		39,681	11,938	27,743	2	11	24	26	20	15	4
<b>Total</b>		<b>97,028</b>	<b>32,127</b>	<b>64,901</b>	<b>1</b>	<b>8</b>	<b>23</b>	<b>29</b>	<b>22</b>	<b>14</b>	<b>2</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: 49,640

**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>6,576</b>	<b>1,108,908</b>	<b>25.2</b>	<b>21.0</b>	<b>7.3</b>	<b>6.9</b>	<b>23.7</b>	<b>20.2</b>
Black/African American	789	136,380	19.1	16.3	6.4	6.0	18.5	15.9
American Indian/Alaska Native	18	7,142	21.9	16.5	7.8	5.9	21.6	16.0
White	4,252	567,060	26.5	22.8	7.5	7.1	24.8	21.8
Hispanic/Latino	391	196,970	22.0	18.4	7.0	6.7	21.0	18.1
Asian	357	68,736	27.3	23.9	7.8	7.6	25.6	23.0
Native Hawaiian/Other Pac. Isl.	6	4,070	23.0	18.0	6.7	6.5	21.7	17.6
Two or more races	298	45,517	24.5	21.3	7.2	6.9	23.1	20.4
Prefer not/No Response	465	83,033	25.6	20.8	7.4	6.7	24.0	19.9
Males	2,909	507,737	25.3	20.7	7.1	6.6	23.5	19.7
Females	3,666	590,537	25.2	21.4	7.5	7.1	23.8	20.8
Missing	1	10,634	14.0	16.0	6.0	5.6	14.0	15.4





