

# ACT Profile Report - State

Graduating Class 2014

Iowa





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This report provides information about the performance of your 2014 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 2014. 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

31% 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:** 22,931 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. 78% 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 5% of the cohort took less than three years of math courses. Of these students, 6% were college ready. 18% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 16% of these students were college ready. In comparison, 62% 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 8% of the cohort took less than three years of natural science courses. 21% of these students were college ready. In comparison, 51% 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 42% 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

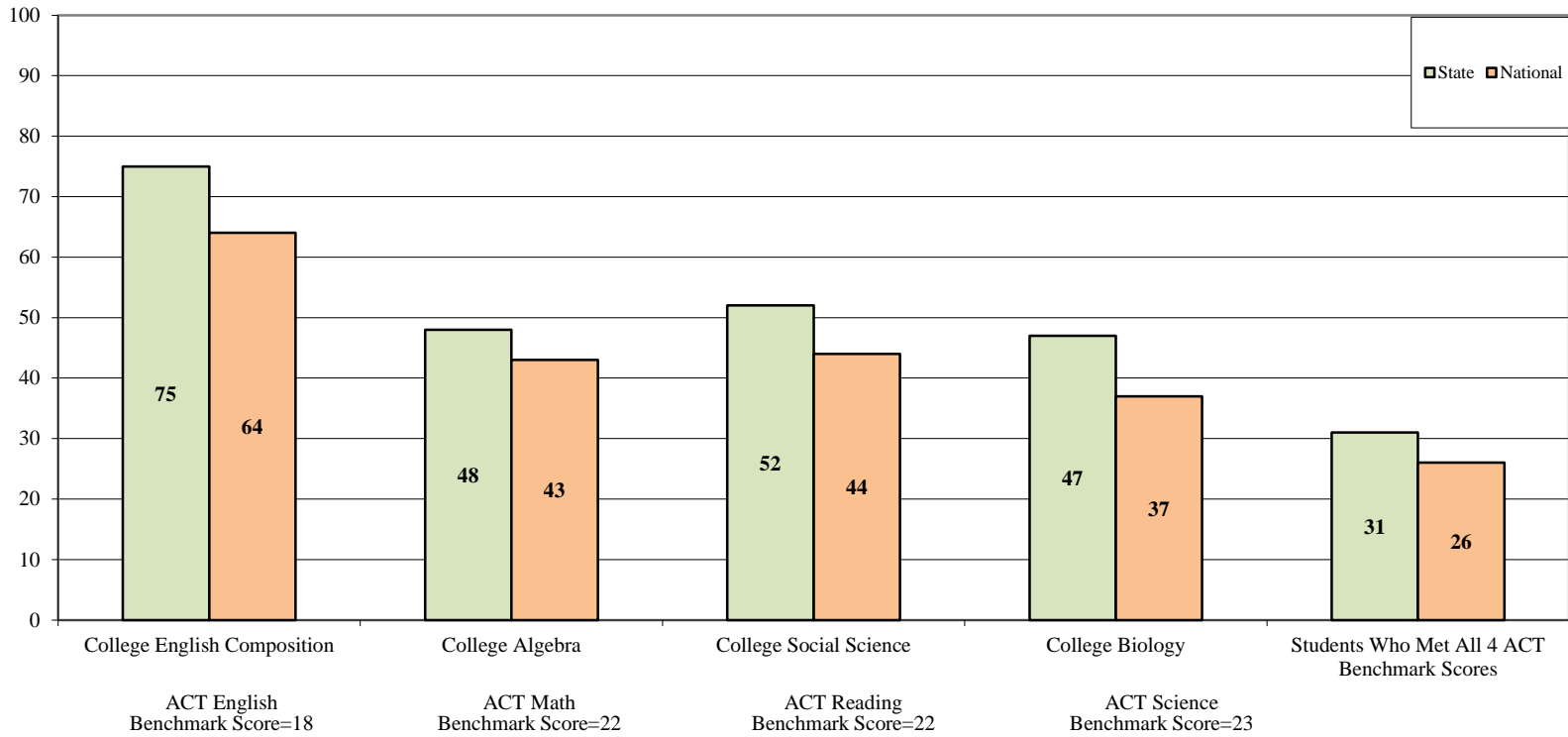
## Executive Summary

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: 22,931

**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
2010	22,943	1,568,835	77	66	51	43	61	52	37	29	30	24
2011	22,968	1,623,112	77	66	52	45	62	52	40	30	31	25
2012	23,119	1,666,017	77	67	51	46	62	52	38	31	30	25
2013	22,526	1,799,243	76	64	50	44	54	44	46	36	32	26
<b>2014</b>	<b>22,931</b>	<b>1,845,787</b>	<b>75</b>	<b>64</b>	<b>48</b>	<b>43</b>	<b>52</b>	<b>44</b>	<b>47</b>	<b>37</b>	<b>31</b>	<b>26</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
2010	22,943	1,568,835	21.8	20.5	21.8	21.0	22.6	21.3	22.3	20.9	22.2	21.0
2011	22,968	1,623,112	21.7	20.6	21.9	21.1	22.6	21.3	22.4	20.9	22.3	21.1
2012	23,119	1,666,017	21.6	20.5	21.7	21.1	22.5	21.3	22.2	20.9	22.1	21.1
2013	22,526	1,799,243	21.5	20.2	21.6	20.9	22.5	21.1	22.2	20.7	22.1	20.9
<b>2014</b>	<b>22,931</b>	<b>1,845,787</b>	<b>21.5</b>	<b>20.3</b>	<b>21.4</b>	<b>20.9</b>	<b>22.5</b>	<b>21.3</b>	<b>22.2</b>	<b>20.8</b>	<b>22.0</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
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
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
<b>2014</b>	<b>1,845,787</b>	<b>20.3</b>	<b>20.9</b>	<b>21.3</b>	<b>20.8</b>	<b>21.0</b>

Total Students in Report: 22,931

**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
2010	17,990	4,554	78	20	22.6	18.8	22.5	19.1	23.4	20.0	23.0	20.0	23.0	19.6
2011	18,228	4,236	79	18	22.5	19.0	22.6	19.3	23.3	20.2	23.1	20.2	23.0	19.8
2012	18,499	4,255	80	18	22.4	18.8	22.4	19.1	23.2	20.1	22.8	20.0	22.8	19.6
2013	17,894	4,049	79	18	22.4	18.8	22.4	19.0	23.3	20.1	22.9	19.9	22.9	19.6
<b>2014</b>	<b>17,954</b>	<b>4,041</b>	<b>78</b>	<b>18</b>	<b>22.4</b>	<b>18.7</b>	<b>22.2</b>	<b>19.0</b>	<b>23.3</b>	<b>20.1</b>	<b>23.0</b>	<b>20.0</b>	<b>22.9</b>	<b>19.6</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.

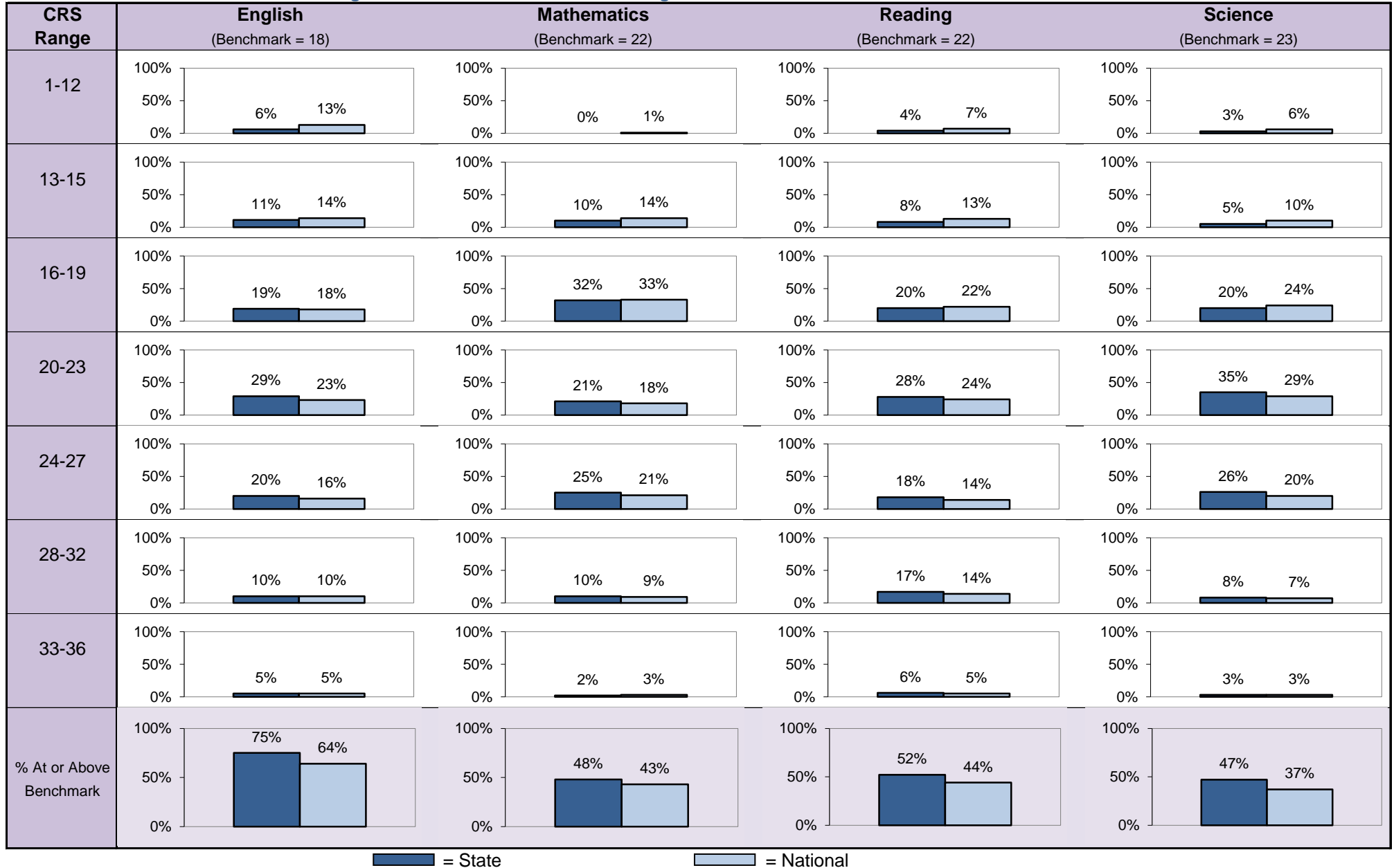
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2010			2011			2012			2013			2014		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</b>	<b>22,943</b>	<b>100</b>	<b>22.2</b>	<b>22,968</b>	<b>100</b>	<b>22.3</b>	<b>23,119</b>	<b>100</b>	<b>22.1</b>	<b>22,526</b>	<b>100</b>	<b>22.1</b>	<b>22,931</b>	<b>100</b>	<b>22.0</b>
Black/African American	583	3	17.3	583	3	17.1	601	3	17.6	601	3	17.3	600	3	17.4
American Indian/Alaska Native	81	0	20.3	68	0	20.3	77	0	20.4	57	0	19.4	58	0	19.2
White	19,967	87	22.5	19,652	86	22.6	19,515	84	22.5	18,712	83	22.5	18,475	81	22.6
Hispanic/Latino	700	3	18.9	927	4	19.6	1,140	5	19.3	1,204	5	19.1	1,264	6	19.5
Asian	537	2	22.5	537	2	22.9	475	2	22.3	545	2	21.8	567	2	22.3
Native Hawaiian/Other Pacific Islander	0	0	.	1	0	20.0	6	0	19.5	11	0	22.4	21	0	20.6
Two or more races	371	2	21.5	431	2	21.4	581	3	21.7	630	3	21.4	610	3	21.8
Prefer not to respond/No response	704	3	21.1	769	3	21.5	724	3	22.2	766	3	22.1	1,336	6	19.4

Total Students in Report: 22,931

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



Total Students in Report: 22,931

**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	22,643	99	21.5	21.5	22.6	22.2	22.1
	Extended Time	288	1	17.0	18.4	19.4	19.5	18.7
	Total	22,931	100	21.5	21.4	22.5	22.2	22.0
National	Standard Time	1,769,033	96	20.5	21.0	21.4	20.9	21.1
	Extended Time	76,754	4	16.2	17.8	18.5	18.1	17.8
	Total	1,845,787	100	20.3	20.9	21.3	20.8	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	75	49	53	47	32
	Extended Time	41	24	35	27	16
	Total	75	48	52	47	31
National	Standard Time	65	44	45	37	27
	Extended Time	37	21	30	21	15
	Total	64	43	44	37	26

# 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: 22,931

**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	56	100	41	100	174	100	153	100	13	100	36
35	292	100	113	100	163	99	205	99	79	100	35
34	335	98	192	99	393	99	228	98	150	100	34
33	401	97	188	98	539	97	185	97	204	99	33
32	360	95	185	98	793	94	259	97	318	98	32
31	357	94	237	97	775	91	381	96	434	97	31
30	465	92	363	96	766	88	375	94	590	95	30
29	559	90	619	94	696	84	318	92	616	92	29
28	613	88	820	92	762	81	589	91	856	90	28
27	815	85	1,015	88	847	78	1,045	88	986	86	27
26	928	81	1,417	84	918	74	1,016	84	1,112	81	26
25	1,293	77	1,584	77	997	70	1,858	79	1,471	77	25
24	1,532	72	1,684	70	1,293	66	1,972	71	1,595	70	24
23	1,370	65	1,443	63	1,613	60	2,246	63	1,684	63	23
22	1,762	59	1,205	57	1,283	53	2,086	53	1,863	56	22
21	1,787	51	1,086	52	2,156	48	1,876	44	1,858	48	21
20	1,833	44	1,048	47	1,334	38	1,734	35	1,854	40	20
19	1,349	36	1,224	42	1,629	32	1,748	28	1,627	32	19
18	1,022	30	1,626	37	1,110	25	1,163	20	1,532	25	18
17	887	25	2,162	30	1,014	20	979	15	1,201	18	17
16	1,079	21	2,401	20	905	16	701	11	918	13	16
15	1,180	17	1,510	10	749	12	468	8	714	9	15
14	749	12	537	3	671	9	425	6	535	5	14
13	509	8	180	1	527	6	313	4	395	3	13
12	403	6	34	1	418	4	241	3	225	1	12
11	392	4	10	1	213	2	145	2	77	1	11
10	307	3	5	1	125	1	103	1	15	1	10
9	171	1	0	1	40	1	85	1	8	1	9
8	77	1	1	1	3	1	22	1	0	1	8
7	35	1	0	1	13	1	8	1	1	1	7
6	6	1	1	1	6	1	0	1	0	1	6
5	4	1	0	1	2	1	2	1	0	1	5
4	3	1	0	1	0	1	2	1	0	1	4
3	0	1	0	1	2	1	0	1	0	1	3
2	0	1	0	1	2	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	21.5 (5.8)		21.4 (5.0)		22.5 (5.9)		22.2 (4.9)		22.0 (4.9)		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: 22,931

**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	810	100	246	100	642	100	728	100	694	100	130	100	148	100	18
17	1,245	96	367	99	1,354	97	1,439	97	878	97	221	99	106	99	17
16	858	91	1,057	97	1,573	91	1,568	91	1,248	93	477	98	926	99	16
15	1,229	87	1,703	93	1,216	84	1,466	84	1,216	88	1,216	96	1,415	95	15
14	1,111	82	1,870	85	2,331	79	1,462	77	1,874	82	1,967	91	1,944	89	14
13	1,876	77	2,359	77	2,296	69	1,990	71	2,432	74	2,635	83	2,237	80	13
12	1,923	69	2,604	67	2,330	59	2,221	62	2,691	64	2,789	71	2,838	70	12
11	2,567	61	2,913	55	2,352	49	2,451	53	1,900	52	2,287	59	2,876	58	11
10	2,754	49	2,531	43	2,286	39	1,925	42	1,866	44	3,813	49	2,724	46	10
9	2,437	37	2,585	32	1,914	29	2,687	33	1,961	35	2,568	32	3,250	34	9
8	1,859	27	1,887	20	2,007	20	1,356	22	2,313	27	2,295	21	2,102	19	8
7	1,352	19	1,001	12	1,287	11	1,378	16	2,087	17	1,204	11	1,127	10	7
6	1,144	13	754	8	717	6	886	10	1,102	8	551	6	526	5	6
5	905	8	569	5	367	3	907	6	458	3	435	3	343	3	5
4	497	4	378	2	149	1	313	2	137	1	124	1	158	2	4
3	287	2	88	1	68	1	114	1	58	1	187	1	119	1	3
2	68	1	18	1	36	1	38	1	12	1	0	1	55	1	2
1	9	1	1	1	6	1	2	1	4	1	32	1	37	1	1
Avg (SD)	10.8 (3.6)		11.0 (3.1)		11.6 (3.4)		11.3 (3.6)		11.2 (3.4)		10.8 (2.8)		10.9 (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)	25	25	27	25	25
Q2 (50th Percentile)	21	21	22	22	22
Q1 (25th Percentile)	17	17	18	19	19

Total Students in Report: 22,931

**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	All Students	22,931	78	22.9	19.6
	Black/African American	600	63	18.6	15.8
	American Indian/Alaska Native	58	69	20.4	16.8
	White	18,475	82	23.1	20.2
	Hispanic/Latino	1,264	68	20.6	17.4
	Asian	567	79	23.5	19.1
	Native Hawaiian/Other Pac. Isl.	21	76	21.6	17.5
	Two or more races	610	78	22.5	19.6
	Prefer not/No Response	1,336	46	22.5	17.7
National	All Students	1,845,787	73	21.8	18.9
	Black/African American	241,678	68	17.6	15.7
	American Indian/Alaska Native	14,263	62	19.0	16.5
	White	1,038,435	76	23.1	20.2
	Hispanic/Latino	281,216	71	19.5	17.3
	Asian	80,370	79	24.2	21.6
	Native Hawaiian/Other Pac. Isl.	5,676	65	20.0	16.6
	Two or more races	70,013	74	22.0	19.2
	Prefer not/No Response	114,136	56	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	All Students	21.5	21.4	22.5	22.2	22.0
	Black/African American	16.2	17.4	17.9	17.5	17.4
	American Indian/Alaska Native	18.4	19.0	19.2	20.1	19.2
	White	22.1	21.9	23.0	22.7	22.6
	Hispanic/Latino	18.4	18.9	20.2	19.8	19.5
	Asian	21.5	22.8	21.9	22.5	22.3
	Native Hawaiian/Other Pac. Isl.	19.6	19.8	21.0	21.7	20.6
	Two or more races	21.2	20.8	22.6	21.8	21.8
	Prefer not/No Response	18.5	19.3	19.9	19.6	19.4
National	All Students	20.3	20.9	21.3	20.8	21.0
	Black/African American	15.8	17.2	17.3	17.0	17.0
	American Indian/Alaska Native	16.6	18.1	18.4	18.3	18.0
	White	22.0	22.0	22.8	22.1	22.3
	Hispanic/Latino	17.7	19.2	19.1	18.8	18.8
	Asian	22.8	24.9	22.8	23.2	23.5
	Native Hawaiian/Other Pac. Isl.	17.5	19.2	18.7	18.6	18.6
	Two or more races	20.6	20.9	21.7	21.0	21.2
	Prefer not/No Response	20.0	20.7	21.1	20.5	20.7



Total Students in Report: 22,931

**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	1,084	5	534	2	1,269	6	771	3
	28 to 32	2,354	10	2,224	10	3,792	17	1,922	8
	24 to 27	4,568	20	5,700	25	4,055	18	5,891	26
	20 to 23	6,752	29	4,782	21	6,386	28	7,942	35
	16 to 19	4,337	19	7,413	32	4,658	20	4,591	20
	13 to 15	2,438	11	2,227	10	1,947	8	1,206	5
	01 to 12	1,398	6	51	0	824	4	608	3
National	33 to 36	92,922	5	55,103	3	97,714	5	55,222	3
	28 to 32	185,768	10	174,260	9	257,722	14	128,357	7
	24 to 27	302,723	16	383,630	21	263,034	14	367,160	20
	20 to 23	431,178	23	336,283	18	445,726	24	542,581	29
	16 to 19	330,518	18	616,601	33	409,685	22	448,064	24
	13 to 15	264,127	14	266,401	14	240,948	13	186,262	10
	01 to 12	238,551	13	13,509	1	130,958	7	118,141	6

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

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	10,350	45	21.4	22.3	22.6	23.0	22.5
	Females	11,937	52	21.9	20.9	22.7	21.8	22.0
	Missing	644	3	14.7	16.6	16.5	16.6	16.2
National	Males	856,651	46	20.0	21.4	21.1	21.2	21.1
	Females	977,127	53	20.7	20.5	21.5	20.5	20.9
	Missing	12,009	1	15.7	17.8	17.3	17.4	17.2

**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	75	55	53	54	36
	Females	77	45	54	44	29
National	Males	62	47	43	40	29
	Females	66	40	45	34	25

Total Students in Report: 22,931

**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>	17,954	81	22.4	55	22.2	58	23.3	53	23.0	36	22.9
	Less than Core	4,041	56	18.7	27	19.0	35	20.1	28	20.0	15	19.6
	Missing <sup>3</sup>	936	30	15.2	13	17.0	21	17.2	15	17.1	8	16.8
National	Core or More	1,347,997	71	21.4	50	21.7	50	22.2	42	21.6	31	21.8
	Less than Core	405,073	48	17.9	27	18.9	30	19.2	23	18.9	15	18.9
	Missing	92,717	36	16.0	18	17.7	23	17.7	16	17.6	10	17.4

<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>	20,938	77	21.9	20,841	52	21.9	20,883	55	22.9	20,109	51	22.7
	Less than Core	1,132	58	18.9	1,193	6	16.5	1,165	36	20.1	1,930	21	19.1
	Missing <sup>3</sup>	861	30	15.2	897	13	17.0	883	21	17.3	892	14	17.1
National	Core or More	1,676,095	67	20.8	1,686,194	46	21.3	1,580,108	47	21.7	1,538,158	41	21.4
	Less than Core	88,420	36	15.9	74,627	8	16.4	180,385	32	19.4	220,701	17	18.1
	Missing	81,272	38	16.3	84,966	19	17.8	85,294	24	17.8	86,928	17	17.7

<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

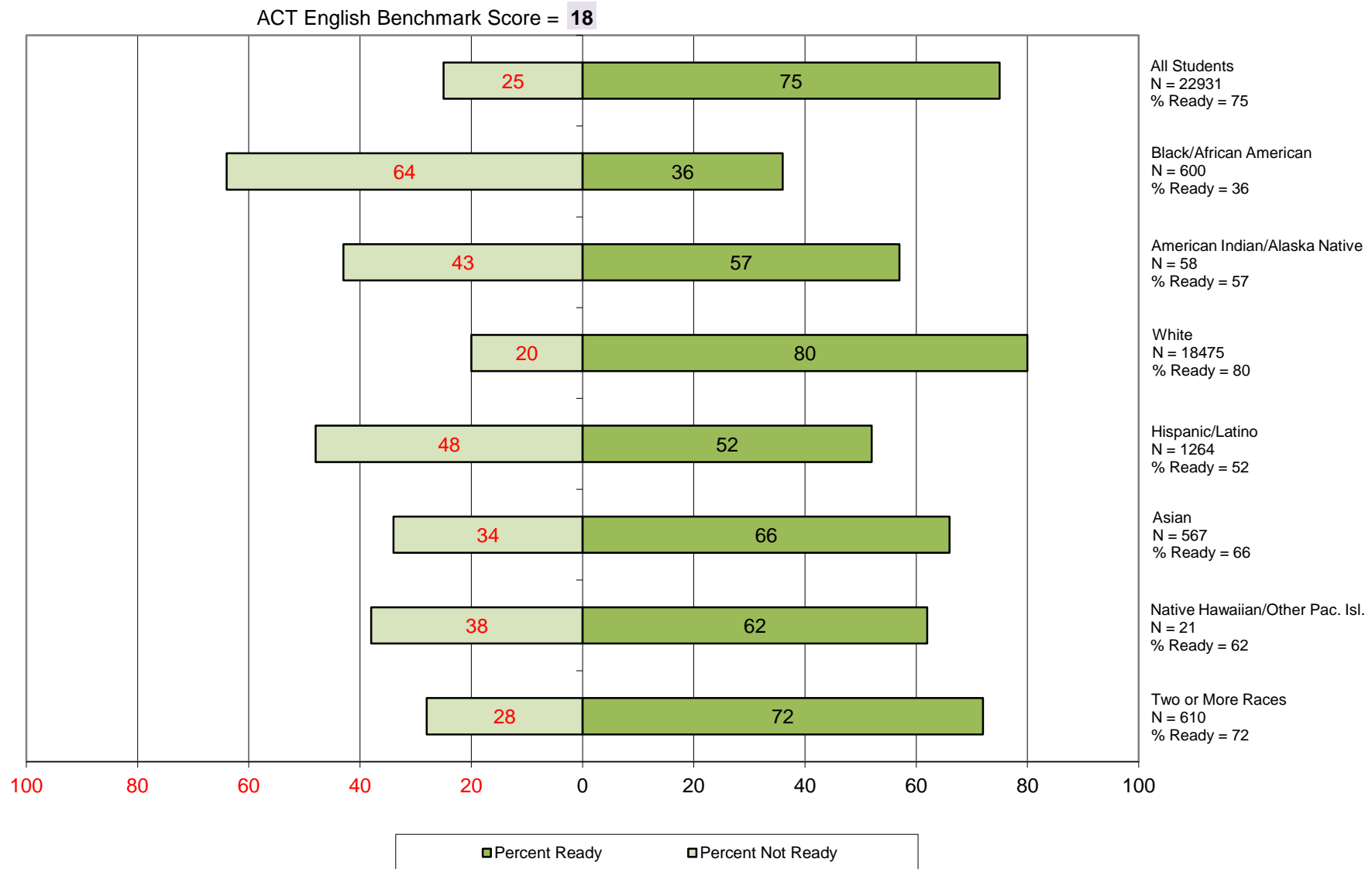


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

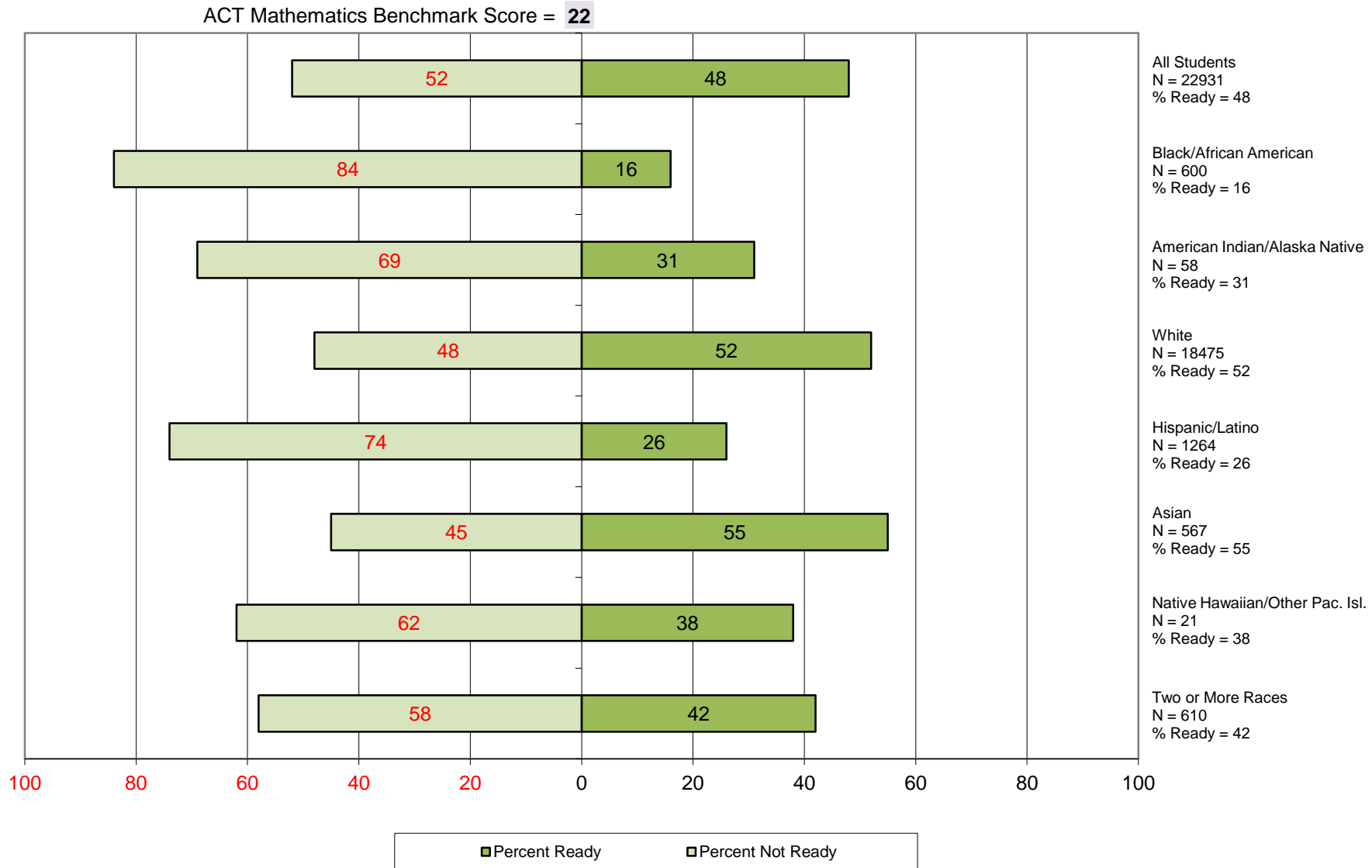


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

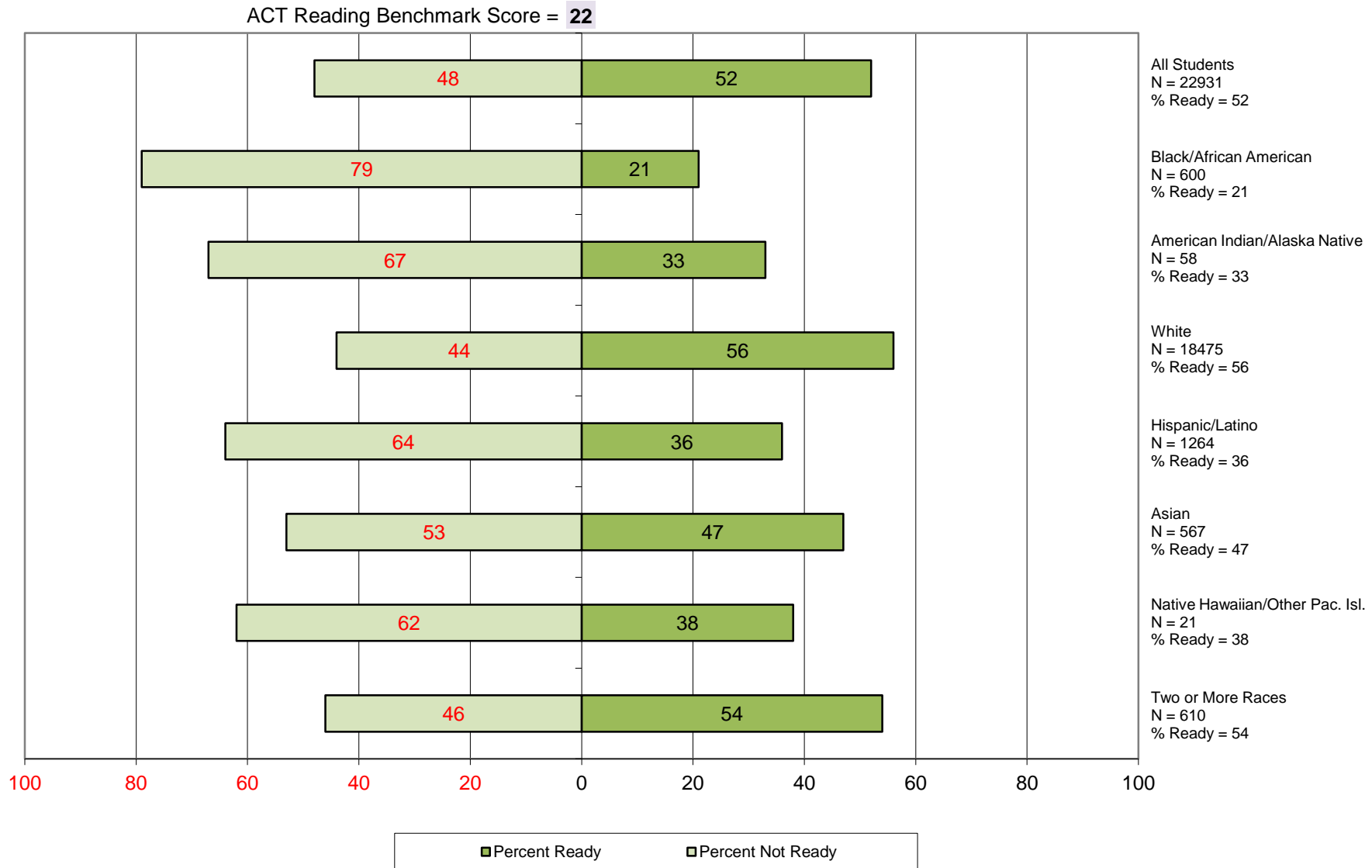
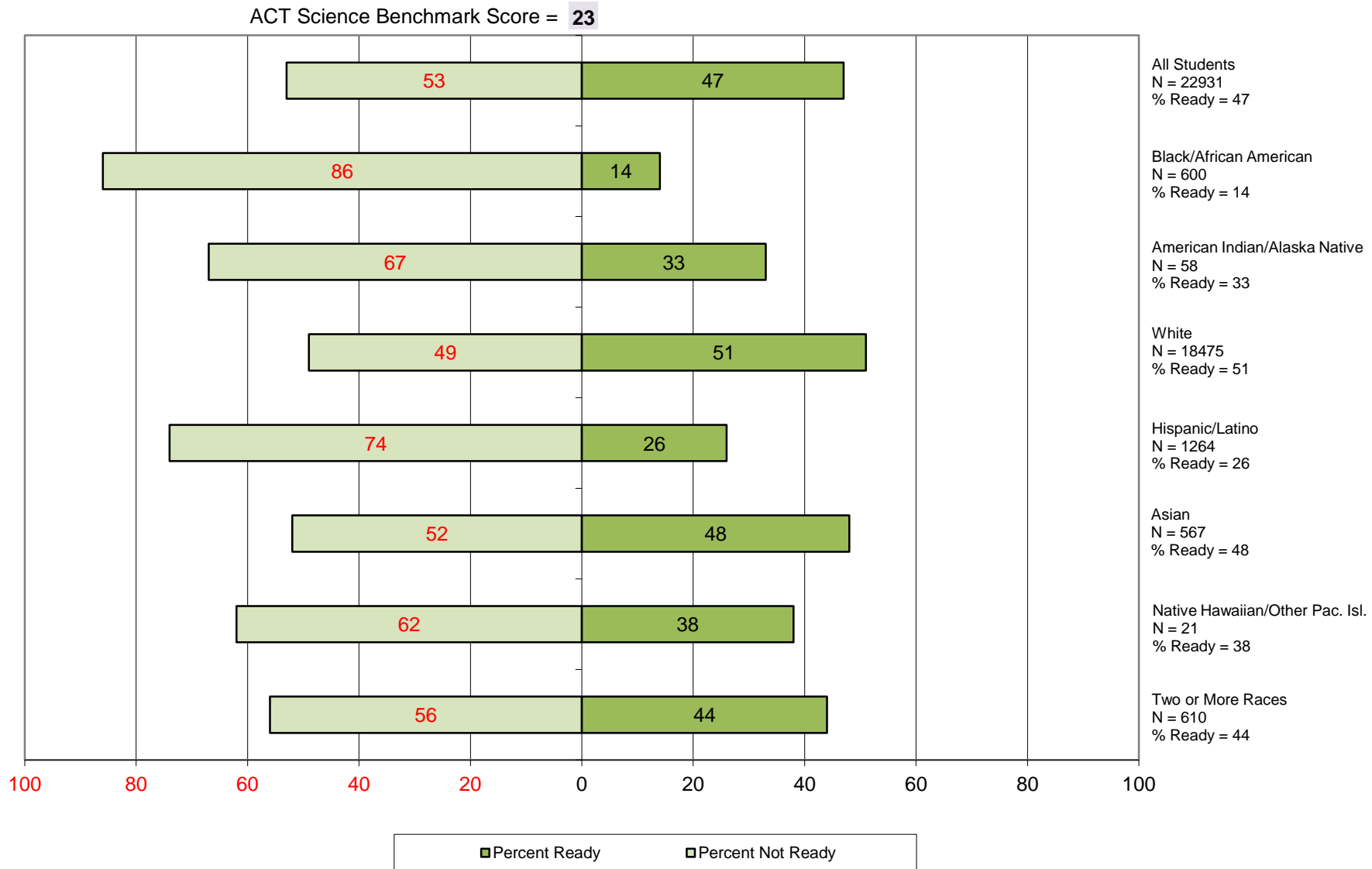
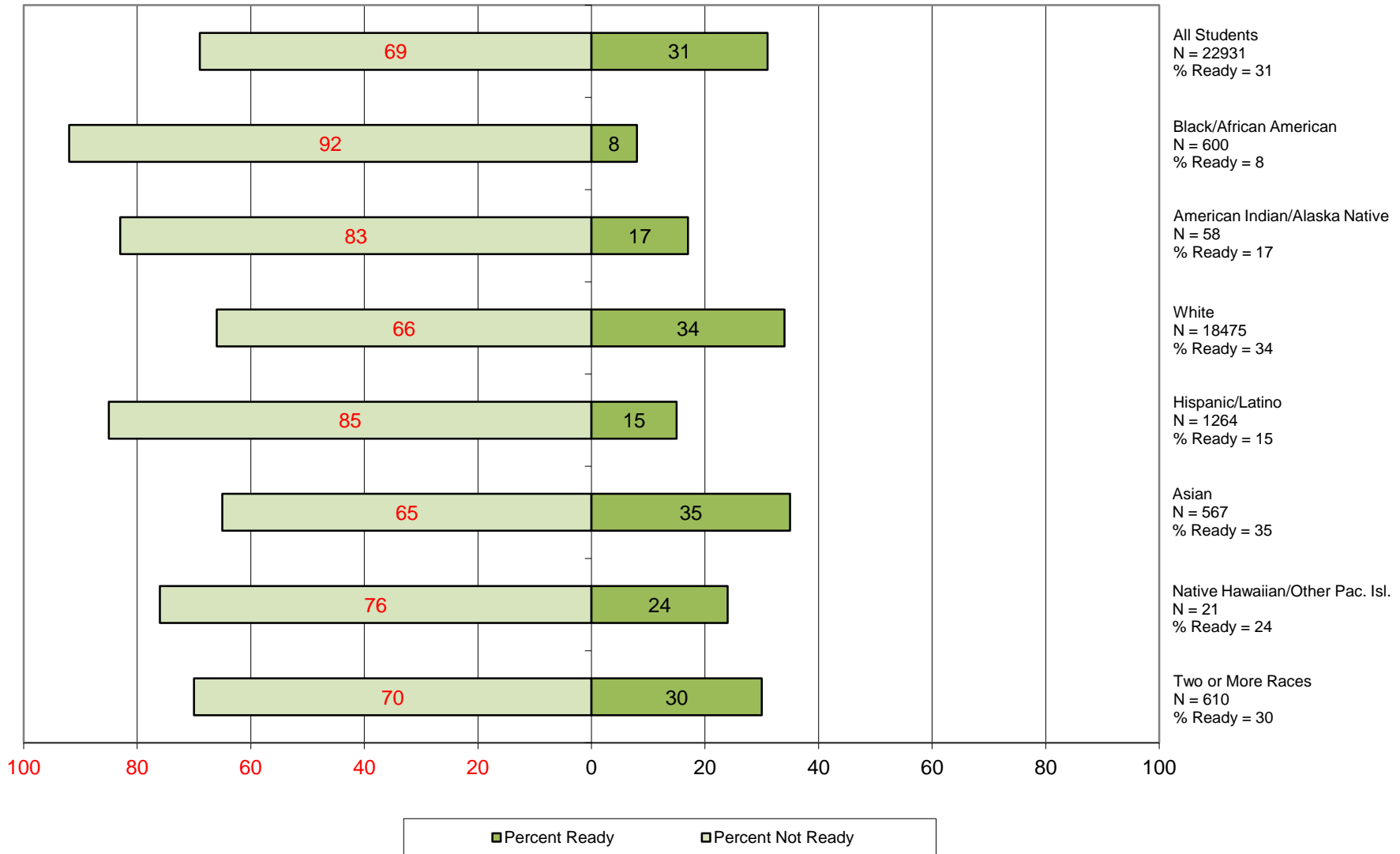


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE



Total Students in Report: 22,931

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





Total Students in Report: 22,931

**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	8,829	39	22.5	3.6	3,653	35	22.4	3.7	5,121	43	22.7	3.2
Eng 9, Eng 10, Eng 11, Eng 12	12,109	53	21.4	2.5	5,915	57	21.3	2.6	6,033	51	21.7	2.2
Less than 4 years of English	1,132	5	18.9	-	521	5	18.7	-	561	5	19.5	-
Zero years / no English courses reported	861	4	15.2	-	261	3	15.9	-	222	2	15.3	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	1,160	5	24.6	8.1	561	5	25.4	8.6	594	5	24.0	7.7
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,873	8	23.0	6.5	763	7	23.6	6.8	1,109	9	22.6	6.3
Alg 1, Alg 2, Geom, & Trig	1,344	6	20.9	4.4	572	6	21.6	4.8	759	6	20.4	4.1
Alg 1, Alg 2, Geom, & Other Adv Math	3,786	17	20.7	4.2	1,483	14	21.0	4.2	2,273	19	20.5	4.2
Other comb of 4 or more years of Math	7,435	32	24.4	7.9	3,967	38	25.1	8.3	3,424	29	23.7	7.4
Alg 1, Alg 2, & Geom	4,177	18	18.0	1.5	1,664	16	18.6	1.8	2,391	20	17.7	1.4
Other comb of 3 or 3.5 years of Math	1,066	5	20.8	4.3	518	5	21.0	4.2	528	4	20.7	4.4
Less than 3 years of Math	1,193	5	16.5	-	546	5	16.8	-	617	5	16.3	-
Zero years / no Math courses reported	897	4	17.0	-	276	3	17.8	-	242	2	16.5	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	433	2	22.9	2.8	210	2	23.0	2.9	220	2	22.8	2.3
Other comb of 4 or more years Social Science	12,740	56	23.1	3.0	5,911	57	23.1	3.0	6,718	56	23.2	2.7
US Hist, World Hist, & Am Gov	1,085	5	21.7	1.6	560	5	21.9	1.8	521	4	21.6	1.1
Other comb of 3 or 3.5 years of Social Science	6,625	29	22.6	2.5	2,862	28	22.5	2.4	3,672	31	22.8	2.3
Less than 3 years of Social Science	1,165	5	20.1	-	537	5	20.1	-	572	5	20.5	-
Zero years / no Social Science courses reported	883	4	17.3	-	270	3	18.5	-	234	2	17.4	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	9,985	44	23.7	4.6	5,179	50	24.4	5.1	4,735	40	23.0	3.7
Bio, Chem, Phys	1,168	5	24.9	5.8	603	6	25.7	6.4	547	5	24.1	4.8
Gen Sci <sup>2</sup> , Bio, Chem	8,393	37	21.3	2.2	3,130	30	21.7	2.4	5,188	43	21.2	1.9
Other comb of 3 years of Natural Science	563	2	21.2	2.1	304	3	22.1	2.8	239	2	20.5	1.2
Less than 3 years of Natural Science	1,930	8	19.1	-	860	8	19.3	-	992	8	19.3	-
Zero years / no Natural Science courses reported	892	4	17.1	-	274	3	18.2	-	236	2	16.8	-

<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: 22,931

**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	8,829	39	22.5	82	370,875	20	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	12,109	53	21.4	74	1,305,220	71	20.5	65
Less than 4 years of English	1,132	5	18.9	58	88,420	5	15.9	36
Zero years / no English courses reported	861	4	15.2	30	81,272	4	16.3	38
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	1,160	5	24.6	77	118,677	6	23.8	67
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,873	8	23.0	66	157,764	9	21.8	55
Alg 1, Alg 2, Geom, & Trig	1,344	6	20.9	46	120,160	7	19.3	30
Alg 1, Alg 2, Geom, & Other Adv Math	3,786	17	20.7	43	356,555	19	19.4	31
Other comb of 4 or more years of Math	7,435	32	24.4	73	622,896	34	23.7	65
Alg 1, Alg 2, & Geom	4,177	18	18.0	16	220,037	12	17.1	11
Other comb of 3 or 3.5 years of Math	1,066	5	20.8	42	90,105	5	19.8	35
Less than 3 years of Math	1,193	5	16.5	6	74,627	4	16.4	8
Zero years / no Math courses reported	897	4	17.0	13	84,966	5	17.8	19
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	433	2	22.9	56	48,992	3	22.3	50
Other comb of 4 or more years Social Science	12,740	56	23.1	56	921,129	50	22.2	50
US Hist, World Hist, & Am Gov	1,085	5	21.7	47	105,110	6	19.6	33
Other comb of 3 or 3.5 years of Social Science	6,625	29	22.6	52	504,877	27	21.3	43
Less than 3 years of Social Science	1,165	5	20.1	36	180,385	10	19.4	32
Zero years / no Social Science courses reported	883	4	17.3	21	85,294	5	17.8	24
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	9,985	44	23.7	61	781,043	42	22.1	46
Bio, Chem, Phys	1,168	5	24.9	69	199,419	11	23.1	54
Gen Sci <sup>1</sup> , Bio, Chem	8,393	37	21.3	38	505,460	27	20.0	28
Other comb of 3 years of Natural Science	563	2	21.2	41	52,236	3	19.2	24
Less than 3 years of Natural Science	1,930	8	19.1	21	220,701	12	18.1	17
Zero years / no Natural Science courses reported	892	4	17.1	14	86,928	5	17.7	17

<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: 22,931

**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	874	4	20.7	118	10	18.5	725	4	21.1
Architecture	244	1	22.4	4	0	17.8	236	1	22.5
Area, Ethnic, & Multidisciplinary Studies	24	0	23.5	2	0	21.0	21	0	23.4
Arts: Visual & Performing	1,155	5	21.7	73	6	18.0	1,030	5	22.0
Business	2,081	9	21.8	127	10	18.3	1,882	9	22.0
Communications	372	2	22.3	8	1	18.4	354	2	22.3
Community, Family, & Personal Services	532	2	19.1	82	7	18.0	419	2	19.4
Computer Science & Mathematics	567	2	24.1	31	3	18.5	513	3	24.5
Education	1,789	8	21.2	35	3	16.5	1,699	9	21.3
Engineering	1,599	7	25.0	40	3	17.9	1,518	8	25.1
Engineering Technology & Drafting	237	1	21.6	22	2	18.9	201	1	22.1
English & Foreign Languages	285	1	24.2	4	0	17.8	267	1	24.4
Health Administration & Assisting	529	2	19.6	51	4	17.4	456	2	20.0
Health Sciences & Technologies	4,107	18	22.2	159	13	17.7	3,822	19	22.4
Philosophy, Religion, & Theology	112	0	22.2	3	0	19.0	99	0	22.5
Repair, Production, & Construction	260	1	18.8	146	12	18.2	106	1	19.6
Sciences: Biological & Physical	1,283	6	24.5	8	1	16.0	1,240	6	24.6
Social Sciences & Law	1,555	7	22.1	46	4	17.6	1,453	7	22.3
Undecided	4,371	19	22.6	236	19	18.2	3,792	19	22.9
No Response	941	4	16.4	35	3	14.6	77	0	18.1

<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: 22,931

**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	235	18.1	6	13.7	1	21.0	178	18.8	18	16.8
2-yr College Degree	998	17.9	22	14.3	5	14.4	790	18.4	65	16.3
Bachelors Degree	13,170	21.5	314	17.0	35	19.8	11,268	21.9	645	19.0
Graduate Study	3,051	24.6	60	20.7	5	23.6	2,545	24.9	142	22.3
Prof. Level Degree	3,698	24.7	108	19.6	6	19.5	2,850	25.1	245	21.9
Other	262	19.3	12	15.2	1	18.0	188	19.9	16	17.0
No Response	1,517	19.0	78	15.0	5	15.6	656	21.6	133	16.5

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	235	18.1	8	13.8	0	.	8	19.6	16	15.3
2-yr College Degree	998	17.9	12	15.5	1	17.0	20	16.7	83	15.6
Bachelors Degree	13,170	21.5	213	20.2	11	20.5	304	20.9	380	20.2
Graduate Study	3,051	24.6	75	24.7	4	25.0	84	23.5	136	24.0
Prof. Level Degree	3,698	24.7	178	25.7	3	20.0	140	24.3	168	24.1
Other	262	19.3	12	17.5	0	.	13	20.2	20	18.0
No Response	1,517	19.0	69	20.0	2	15.5	41	19.7	533	17.0

Total Students in Report: 22,931

**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
IOWA STATE UNIVERSITY	Iowa	6,711	3,424	3,287	0	4	18	33	28	15	2
UNIVERSITY OF IOWA	Iowa	5,704	2,225	3,479	0	3	17	32	30	15	2
UNIVERSITY OF NORTHERN IOWA	Iowa	4,318	1,187	3,131	0	4	21	37	26	11	1
KIRKWOOD COMMUNITY COLLEGE	Iowa	1,127	396	731	1	11	33	34	15	5	0
CENTRAL COLLEGE	Iowa	1,007	261	746	0	3	20	34	26	16	2
DRAKE UNIVERSITY	Iowa	923	213	710	1	7	14	28	32	17	1
DES MOINES AREA COMMUNITY COLL-ANKENY	Iowa	890	366	524	4	14	32	34	13	3	0
SIMPSON COLLEGE	Iowa	836	201	635	0	6	20	32	28	13	1
WARTBURG COLLEGE	Iowa	744	189	555	0	3	15	35	30	14	2
GRAND VIEW UNIVERSITY	Iowa	541	119	422	2	13	31	34	14	5	1
COE COLLEGE	Iowa	515	109	406	0	3	19	36	28	12	1
MORNINGSIDE COLLEGE	Iowa	494	147	347	0	6	23	38	21	10	1
IOWA WESTERN COMM C-COUNCIL BLFS	Iowa	475	209	266	1	13	39	33	11	2	0
HAWKEYE COMMUNITY COLLEGE	Iowa	474	150	324	2	11	38	33	13	3	0
LUTHER COLLEGE	Iowa	468	115	353	0	1	9	31	37	19	3
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	426	136	290	0	3	21	34	28	12	1
NORTHWEST MISSOURI ST UNIV	Missouri	422	125	297	0	6	23	42	23	6	0
UNIVERSITY OF SOUTH DAKOTA	South Dakota	417	115	302	0	6	24	37	22	9	1
ST AMBROSE UNIVERSITY	Iowa	394	110	284	1	3	22	35	28	11	0
IOWA CENTRAL COMMUNITY COLL-FORT DODGE	Iowa	387	126	261	2	15	32	36	11	4	0
CREIGHTON UNIVERSITY	Nebraska	385	71	314	0	2	10	24	37	24	3
BUENA VISTA UNIVERSITY	Iowa	381	118	263	0	6	27	34	24	9	1
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	377	90	287	0	6	17	31	28	17	2
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	348	57	291	0	1	8	22	36	30	4
NORTHWESTERN COLLEGE	Iowa	320	118	202	0	2	17	34	29	16	2
UPPER IOWA UNIVERSITY	Iowa	308	93	215	0	5	36	36	19	4	0
LORAS COLLEGE	Iowa	305	73	232	0	3	19	37	25	14	1
UNIVERSITY OF NEBRASKA AT OMAHA	Nebraska	282	74	208	1	8	23	35	23	10	0
MOUNT MERCY UNIVERSITY	Iowa	266	66	200	0	6	29	34	23	9	0
UNIVERSITY OF DUBUQUE	Iowa	264	60	204	0	12	30	36	16	6	0
All Other Institutions		15,305	4,347	10,958	2	7	20	27	23	18	4
<b>Total</b>		<b>45,814</b>	<b>15,090</b>	<b>30,724</b>	<b>1</b>	<b>6</b>	<b>21</b>	<b>31</b>	<b>25</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: 22,931

**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>4,400</b>	<b>976,031</b>	<b>24.6</b>	<b>21.3</b>	<b>7.4</b>	<b>7.1</b>	<b>23.3</b>	<b>20.6</b>
Black/African American	108	114,263	19.5	16.4	6.9	6.3	19.2	16.3
American Indian/Alaska Native	6	6,408	22.7	16.8	6.7	6.2	21.2	16.5
White	3,499	520,054	24.8	23.1	7.4	7.3	23.5	22.1
Hispanic/Latino	251	167,575	21.2	18.5	7.0	6.9	20.5	18.4
Asian	206	61,663	26.1	23.7	7.9	7.7	24.9	22.9
Native Hawaiian/Other Pac. Isl.	4	3,742	20.0	17.7	7.3	6.6	19.8	17.6
Two or more races	147	39,565	23.9	21.4	7.2	7.1	22.7	20.7
Prefer not/No Response	179	62,761	26.3	21.6	7.6	7.1	24.8	20.9
Males	1,889	438,500	24.8	21.1	7.2	6.9	23.3	20.2
Females	2,511	530,240	24.4	21.6	7.5	7.3	23.3	21.1
Missing	0	7,291	.	16.0	.	5.9	.	15.7





