

# ACT Profile Report - State

Graduating Class 2013  
Kentucky



ACT, INC. -- CONFIDENTIAL



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This report provides information about the performance of your 2013 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 2013. 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 for 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

18% 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:** 49,551 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. 65% 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 3% of the cohort took less than three years of math courses. Of these students, 5% were college ready. 17% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 7% of these students were college ready. In comparison, 37% 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 13% of the cohort took less than three years of natural science courses. 13% of these students were college ready. In comparison, 31% 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 62% 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).

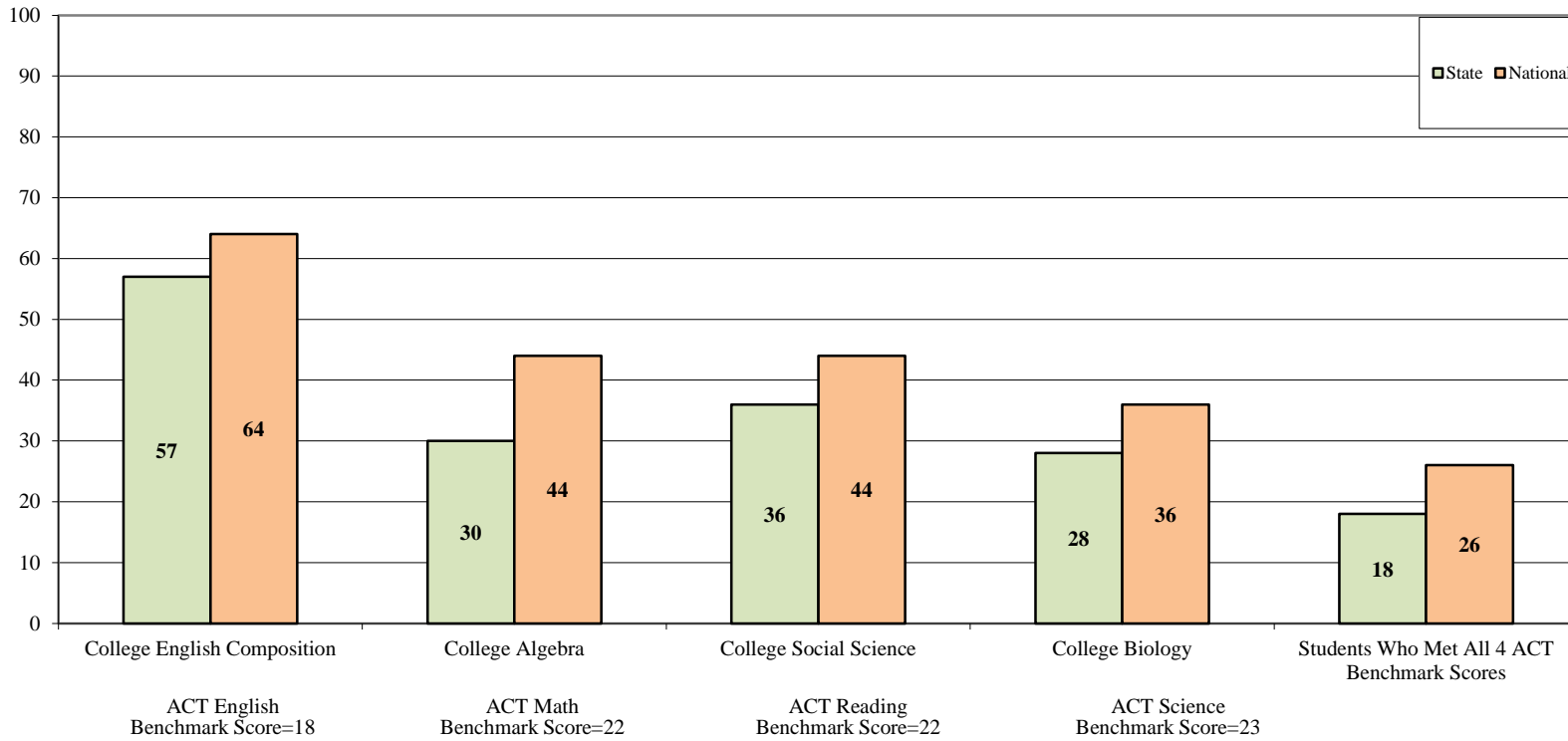
# Section I

## Executive Summary

Beginning 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.

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: 49,551

**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
2009	45,419	1,480,469	55	67	26	42	41	53	20	28	15	23
2010	45,763	1,568,835	55	66	28	43	40	52	21	29	16	24
2011	46,428	1,623,112	57	66	28	45	43	52	21	30	16	25
2012	46,289	1,666,017	59	67	31	46	44	52	22	31	17	25
<b>2013</b>	<b>49,551</b>	<b>1,799,243</b>	<b>57</b>	<b>64</b>	<b>30</b>	<b>44</b>	<b>36</b>	<b>44</b>	<b>28</b>	<b>36</b>	<b>18</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
2009	45,419	1,480,469	18.8	20.6	19.0	21.0	19.8	21.4	19.7	20.9	19.4	21.1
2010	45,763	1,568,835	18.9	20.5	19.1	21.0	19.7	21.3	19.5	20.9	19.4	21.0
2011	46,428	1,623,112	19.2	20.6	19.1	21.1	20.0	21.3	19.6	20.9	19.6	21.1
2012	46,289	1,666,017	19.5	20.5	19.4	21.1	20.2	21.3	19.8	20.9	19.8	21.1
<b>2013</b>	<b>49,551</b>	<b>1,799,243</b>	<b>19.2</b>	<b>20.2</b>	<b>19.2</b>	<b>20.9</b>	<b>19.9</b>	<b>21.1</b>	<b>19.7</b>	<b>20.7</b>	<b>19.6</b>	<b>20.9</b>

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

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2009	1,480,469	20.6	21.0	21.4	20.9	21.1
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
<b>2013</b>	<b>1,799,243</b>	<b>20.2</b>	<b>20.9</b>	<b>21.1</b>	<b>20.7</b>	<b>20.9</b>

Total Students in Report: 49,551

**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
2009	29,118	15,315	64	34	20.2	16.3	19.9	17.4	21.0	17.6	20.6	18.0	20.6	17.4
2010	29,167	15,185	64	33	20.3	16.4	20.0	17.5	20.9	17.6	20.5	17.7	20.6	17.4
2011	30,663	14,417	66	31	20.5	16.8	20.0	17.5	21.1	18.0	20.6	17.9	20.7	17.7
2012	31,591	13,305	68	29	20.7	17.1	20.2	17.8	21.2	18.2	20.7	18.1	20.8	17.9
<b>2013</b>	<b>32,364</b>	<b>15,260</b>	<b>65</b>	<b>31</b>	<b>20.6</b>	<b>16.9</b>	<b>20.1</b>	<b>17.7</b>	<b>21.1</b>	<b>17.9</b>	<b>20.6</b>	<b>18.0</b>	<b>20.7</b>	<b>17.8</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.

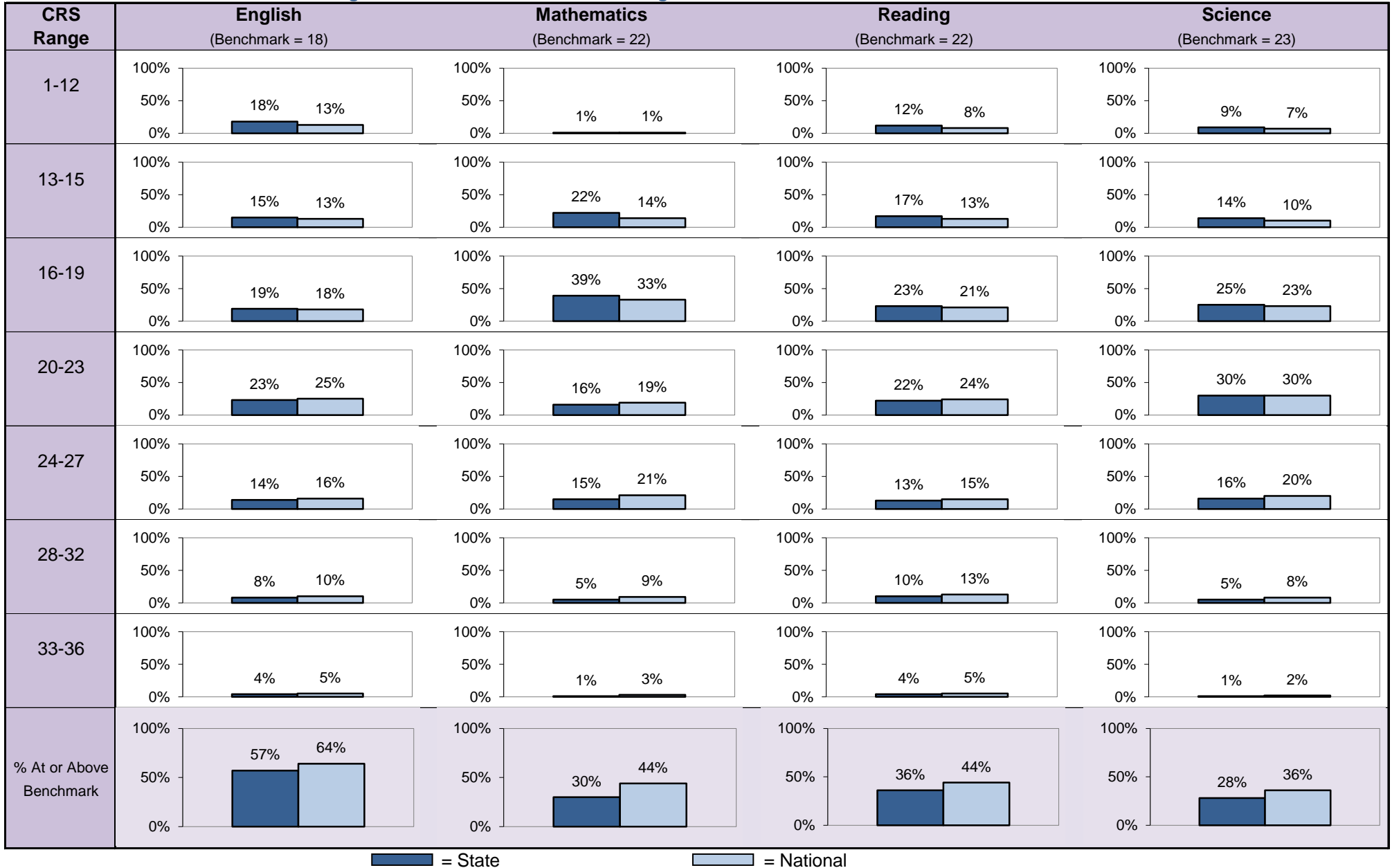
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2009			2010			2011			2012			2013		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</b>	<b>45,419</b>	<b>100</b>	<b>19.4</b>	<b>45,763</b>	<b>100</b>	<b>19.4</b>	<b>46,428</b>	<b>100</b>	<b>19.6</b>	<b>46,289</b>	<b>100</b>	<b>19.8</b>	<b>49,551</b>	<b>100</b>	<b>19.6</b>
Black/African American	3,774	8	16.3	4,051	9	16.4	4,130	9	16.5	3,969	9	16.7	4,327	9	16.4
American Indian/Alaska Native	691	2	15.9	178	0	17.2	185	0	17.3	176	0	17.5	174	0	17.1
White	35,691	79	20.0	36,245	79	19.8	36,653	79	20.1	36,541	79	20.3	37,834	76	20.2
Hispanic/Latino	1,005	2	17.3	915	2	17.9	1,179	3	18.2	1,612	3	18.4	1,883	4	18.4
Asian	566	1	21.3	549	1	22.7	536	1	22.6	579	1	22.0	620	1	21.8
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	16	0	19.8	75	0	18.6	64	0	18.3
Two or more races	881	2	19.1	821	2	19.0	948	2	19.2	1,234	3	20.0	1,502	3	19.6
Prefer not to respond/No response	2,811	6	17.8	3,004	7	18.2	2,781	6	18.1	2,103	5	18.8	3,147	6	18.6

Total Students in Report: 49,551

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



Total Students in Report: 49,551

**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	46,121	93	19.7	19.5	20.2	19.9	20.0
	Extended Time	3,430	7	13.6	15.9	15.7	16.0	15.4
	Total	49,551	100	19.2	19.2	19.9	19.7	19.6
National	Standard Time	1,727,041	96	20.4	21.0	21.3	20.9	21.0
	Extended Time	72,202	4	15.9	17.7	18.1	17.9	17.5
	Total	1,799,243	100	20.2	20.9	21.1	20.7	20.9

**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	60	31	38	30	19
	Extended Time	20	8	16	10	5
	Total	57	30	36	28	18
National	Standard Time	65	45	45	37	27
	Extended Time	35	20	28	20	13
	Total	64	44	44	36	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: 49,551

**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	137	100	87	100	281	100	112	100	37	100	36
35	502	100	139	100	349	99	179	100	96	100	35
34	467	99	209	100	453	99	186	99	162	100	34
33	675	98	277	99	681	98	128	99	286	99	33
32	588	96	268	99	777	96	293	99	432	99	32
31	650	95	275	98	1,329	95	426	98	594	98	31
30	898	94	382	97	955	92	540	97	676	97	30
29	864	92	547	97	1,028	90	658	96	892	95	29
28	1,061	90	901	96	1,104	88	731	95	1,210	94	28
27	1,215	88	1,380	94	1,169	86	1,063	93	1,294	91	27
26	1,549	86	1,721	91	1,367	84	1,453	91	1,627	89	26
25	1,862	83	1,988	88	1,455	81	2,105	88	1,891	85	25
24	2,257	79	2,332	84	2,463	78	3,279	84	2,117	81	24
23	2,115	74	2,076	79	2,407	73	2,862	77	2,525	77	23
22	2,669	70	2,174	75	2,154	68	2,969	72	2,890	72	22
21	3,453	65	2,093	70	3,583	64	4,717	66	3,246	66	21
20	3,254	58	1,689	66	2,543	56	4,402	56	3,428	60	20
19	2,140	51	2,808	63	3,319	51	3,412	47	3,431	53	19
18	2,080	47	3,775	57	2,564	45	3,628	40	3,508	46	18
17	2,077	43	5,440	49	3,136	39	2,640	33	3,479	39	17
16	2,897	38	7,463	38	2,340	33	2,617	28	3,406	32	16
15	3,070	33	6,720	23	2,434	28	2,421	23	3,275	25	15
14	2,706	26	2,869	10	3,443	24	2,263	18	3,214	18	14
13	1,518	21	1,539	4	2,333	17	2,227	13	2,968	12	13
12	1,870	18	236	1	2,948	12	1,556	9	1,975	6	12
11	2,252	14	132	1	1,848	6	1,237	5	753	2	11
10	1,833	10	10	1	565	2	946	3	112	1	10
9	1,549	6	13	1	261	1	317	1	17	1	9
8	894	3	5	1	165	1	128	1	6	1	8
7	312	1	0	1	24	1	36	1	2	1	7
6	101	1	2	1	38	1	11	1	0	1	6
5	17	1	0	1	20	1	2	1	0	1	5
4	9	1	1	1	11	1	3	1	1	1	4
3	6	1	0	1	0	1	2	1	1	1	3
2	4	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	3	1	2	1	0	1	1
Avg (SD)	19.2 (6.6)		19.2 (4.8)		19.9 (6.3)		19.7 (5.2)		19.6 (5.2)		Avg (SD)

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

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

Total Students in Report: 49,551

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

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	1,171	100	641	100	842	100	1,205	100	1,164	100	143	100	186	100	18
17	1,854	98	741	99	1,883	98	1,801	98	1,167	98	281	100	70	100	17
16	1,609	94	1,957	97	2,269	95	2,369	94	1,179	95	598	99	910	99	16
15	1,726	91	2,674	93	1,835	90	2,689	89	1,892	93	1,463	98	1,494	98	15
14	1,900	87	2,744	88	2,952	86	1,992	84	2,078	89	2,428	95	2,453	95	14
13	2,490	83	3,391	82	3,412	80	3,081	80	2,858	85	4,467	90	2,993	90	13
12	3,086	78	5,118	75	3,933	73	3,157	73	3,897	79	3,887	81	4,640	84	12
11	4,063	72	4,821	65	4,078	65	5,189	67	3,406	71	5,225	73	5,361	74	11
10	5,124	64	4,178	55	4,364	57	3,651	57	4,882	64	7,356	63	5,311	63	10
9	4,515	54	5,833	47	6,833	48	4,827	49	3,094	55	6,385	48	10,210	53	9
8	3,956	44	4,475	35	4,915	35	4,407	40	6,009	48	6,509	35	6,242	32	8
7	4,013	36	3,864	26	5,122	25	3,355	31	8,929	36	4,910	22	2,576	20	7
6	4,822	28	3,614	18	3,164	14	3,459	24	5,202	18	3,217	12	3,238	14	6
5	3,411	19	1,979	11	2,871	8	4,997	17	2,169	8	690	5	1,916	8	5
4	2,817	12	2,371	7	412	2	1,732	7	1,056	3	1,217	4	965	4	4
3	2,230	6	999	2	486	1	1,134	3	399	1	367	2	465	2	3
2	707	2	128	1	145	1	473	1	145	1	244	1	339	1	2
1	57	1	23	1	35	1	33	1	25	1	164	1	182	1	1
Avg (SD)	9.3 (4.0)		10.0 (3.6)		10.2 (3.5)		9.9 (4.0)		9.6 (3.5)		9.7 (2.9)		9.6 (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)	24	23	24	23	23
Q2 (50th Percentile)	19	18	19	20	19
Q1 (25th Percentile)	14	16	15	16	16

Total Students in Report: 49,551

**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>49,551</b>	<b>65</b>	<b>20.7</b>	<b>17.8</b>
	Black/African American	4,327	56	17.2	15.6
	American Indian/Alaska Native	174	55	18.4	15.8
	White	37,834	68	21.2	18.2
	Hispanic/Latino	1,883	61	19.3	17.0
	Asian	620	71	22.9	19.2
	Native Hawaiian/Other Pac. Isl.	64	66	19.4	16.4
	Two or more races	1,502	65	20.3	18.4
	Prefer not/No Response	3,147	50	20.0	17.0
National	<b>All Students</b>	<b>1,799,243</b>	<b>74</b>	<b>21.7</b>	<b>18.7</b>
	Black/African American	239,598	69	17.5	15.6
	American Indian/Alaska Native	14,217	62	19.1	16.5
	White	1,034,712	76	22.9	20.0
	Hispanic/Latino	259,741	72	19.5	17.2
	Asian	71,677	81	24.1	21.5
	Native Hawaiian/Other Pac. Isl.	4,772	71	20.5	17.5
	Two or more races	64,221	74	21.9	19.2
	Prefer not/No Response	110,305	58	22.4	18.4

<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>	19.2	19.2	19.9	19.7	19.6
	Black/African American	15.3	16.7	16.4	16.8	16.4
	American Indian/Alaska Native	15.9	17.3	17.5	17.2	17.1
	White	19.9	19.6	20.5	20.1	20.2
	Hispanic/Latino	17.5	18.4	18.5	18.5	18.4
	Asian	21.0	23.0	21.0	21.7	21.8
	Native Hawaiian/Other Pac. Isl.	17.2	18.5	18.1	18.7	18.3
	Two or more races	19.2	19.0	20.1	19.7	19.6
	Prefer not/No Response	17.8	18.4	18.9	18.8	18.6
National	<b>All Students</b>	20.2	20.9	21.1	20.7	20.9
	Black/African American	15.7	17.2	17.0	16.9	16.9
	American Indian/Alaska Native	16.6	18.2	18.3	18.3	18.0
	White	21.8	21.9	22.6	22.0	22.2
	Hispanic/Latino	17.7	19.3	18.9	18.8	18.8
	Asian	22.5	25.0	22.9	23.1	23.5
	Native Hawaiian/Other Pac. Isl.	18.6	20.1	19.5	19.5	19.5
	Two or more races	20.6	20.9	21.6	20.9	21.1
	Prefer not/No Response	20.0	20.8	21.0	20.5	20.7



Total Students in Report: 49,551

**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	1,781	4	712	1	1,764	4	605	1
	28 to 32	4,061	8	2,373	5	5,193	10	2,648	5
	24 to 27	6,883	14	7,421	15	6,454	13	7,900	16
	20 to 23	11,491	23	8,032	16	10,687	22	14,950	30
	16 to 19	9,194	19	19,486	39	11,359	23	12,297	25
	13 to 15	7,294	15	11,128	22	8,210	17	6,911	14
	01 to 12	8,847	18	399	1	5,884	12	4,240	9
National	33 to 36	81,846	5	51,648	3	89,731	5	36,033	2
	28 to 32	175,672	10	156,561	9	239,643	13	138,865	8
	24 to 27	291,095	16	385,102	21	277,723	15	364,600	20
	20 to 23	447,398	25	343,822	19	424,936	24	542,531	30
	16 to 19	327,718	18	590,816	33	384,706	21	413,107	23
	13 to 15	242,064	13	258,384	14	240,069	13	183,840	10
	01 to 12	233,450	13	12,910	1	142,435	8	120,267	7

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

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	24,911	50	18.5	19.4	19.4	19.7	19.4
	Females	24,515	49	20.0	19.1	20.5	19.6	19.9
	Missing	125	0	14.0	16.2	15.7	16.0	15.6
National	Males	835,431	46	19.8	21.4	20.9	21.2	20.9
	Females	954,919	53	20.6	20.5	21.4	20.4	20.9
	Missing	8,893	0	16.1	18.2	17.6	17.7	17.5

**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	52	31	34	30	19
	Females	63	29	39	27	18
National	Males	62	47	43	40	29
	Females	67	41	45	33	24

Total Students in Report: 49,551

**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>	32,364	66	20.6	37	20.1	43	21.1	35	20.6	23	20.7
	Less than Core	15,260	42	16.9	17	17.7	23	17.9	17	18.0	10	17.8
	Missing <sup>3</sup>	1,927	30	15.0	10	16.6	19	16.7	12	16.8	5	16.4
National	Core or More	1,322,739	71	21.2	50	21.7	50	22.0	42	21.5	31	21.7
	Less than Core	396,592	48	17.8	27	18.9	30	19.0	22	18.8	14	18.7
	Missing	79,912	36	16.0	19	17.8	24	17.5	17	17.7	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>	44,486	61	19.7	46,454	31	19.4	38,064	40	20.6	41,415	31	20.2
	Less than Core	3,536	27	14.8	1,497	5	15.8	9,775	24	17.9	6,359	13	17.3
	Missing <sup>3</sup>	1,529	33	15.4	1,600	11	16.8	1,712	20	16.9	1,777	12	17.0
National	Core or More	1,646,286	67	20.6	1,648,697	46	21.3	1,554,990	46	21.5	1,506,965	40	21.3
	Less than Core	84,048	36	15.9	77,906	7	16.3	171,617	32	19.1	218,267	17	18.0
	Missing	68,909	38	16.4	72,640	20	17.9	72,636	25	17.7	74,011	18	17.8

<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

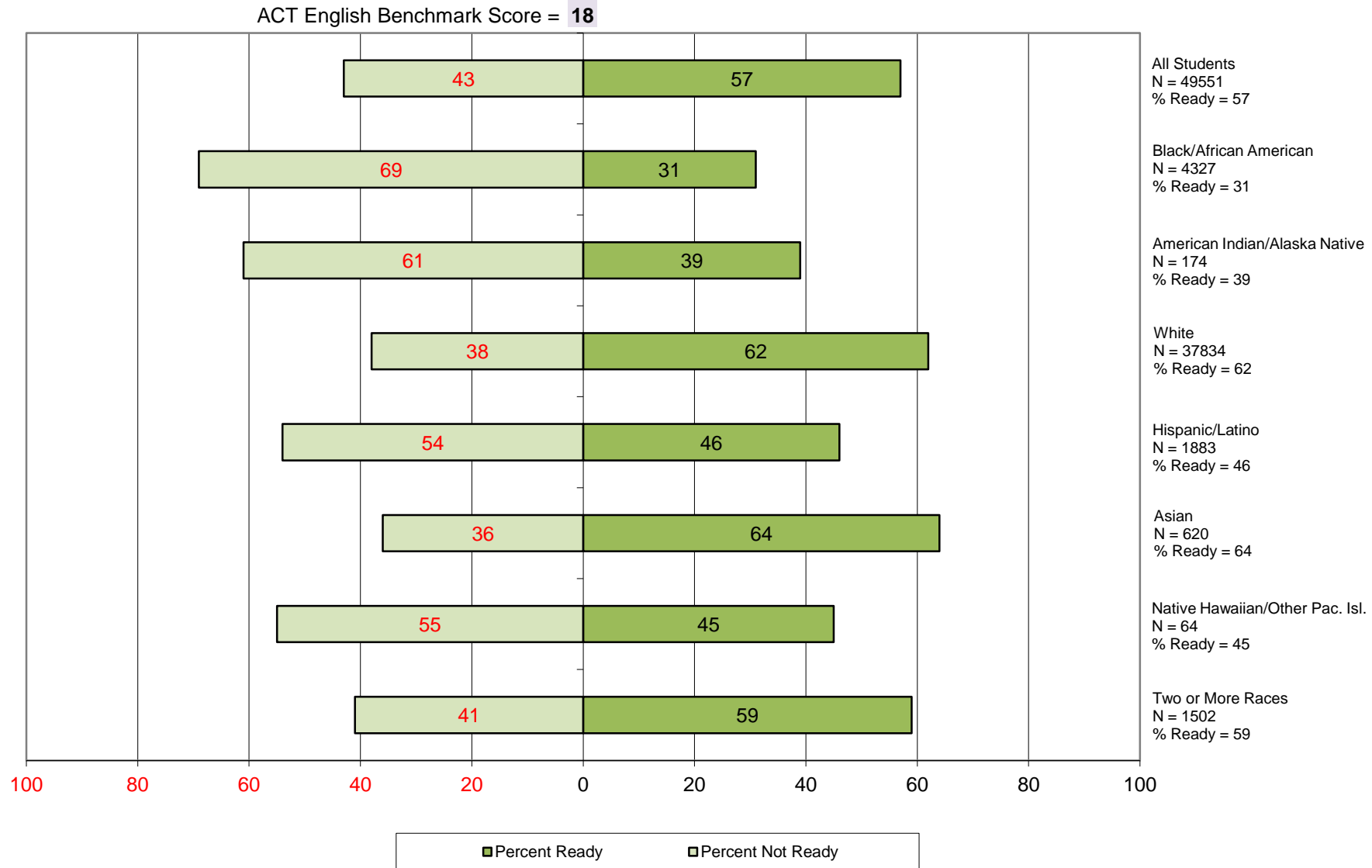


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

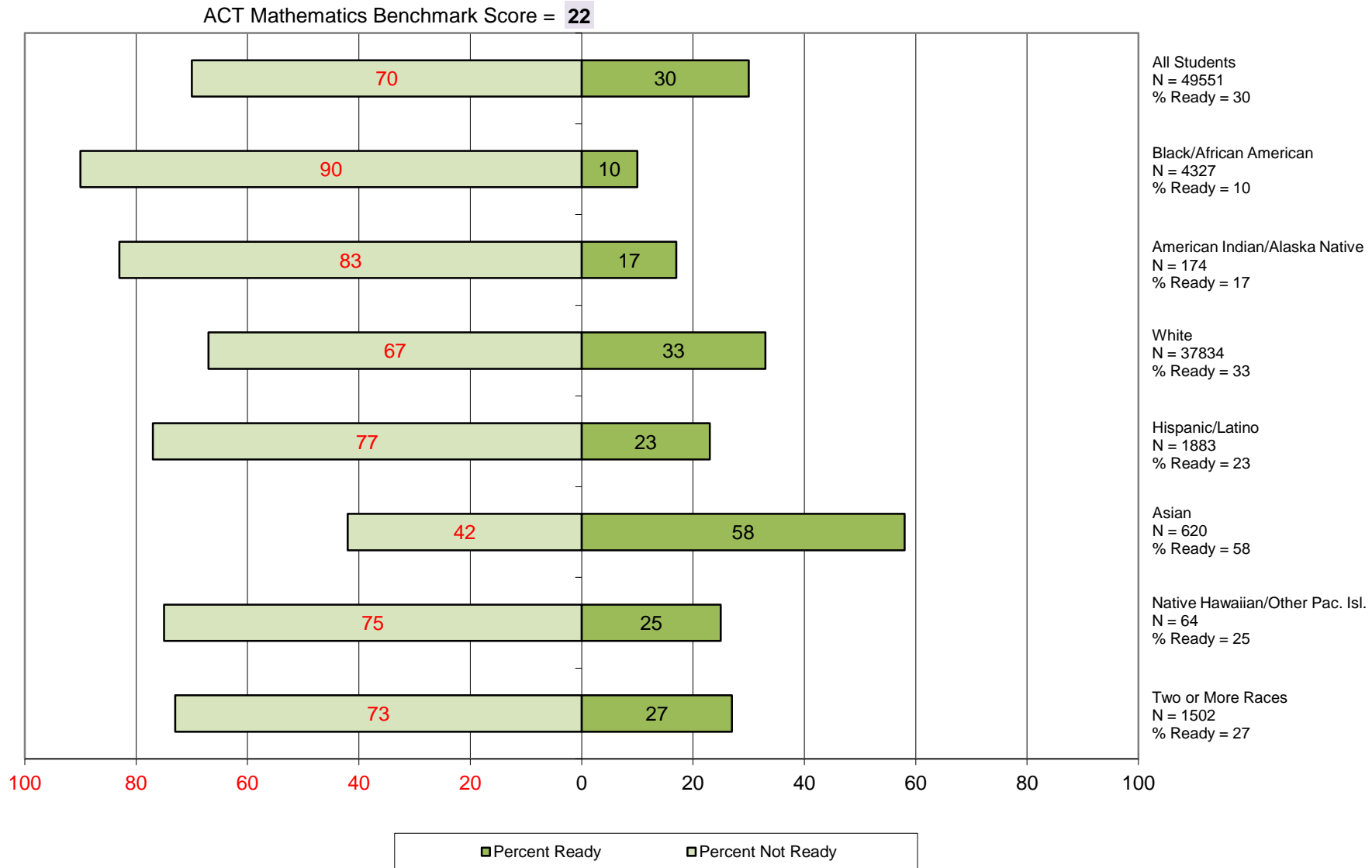


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

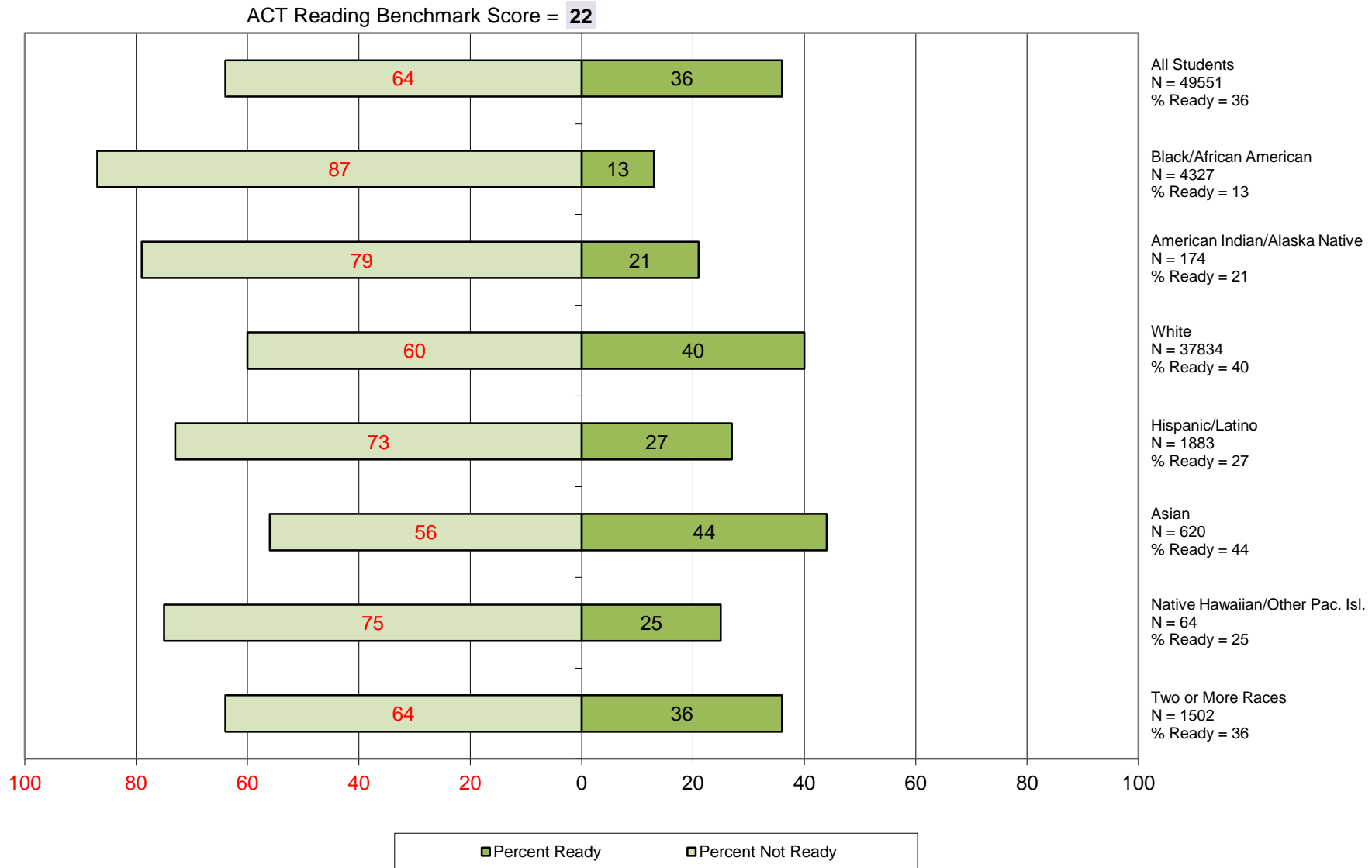
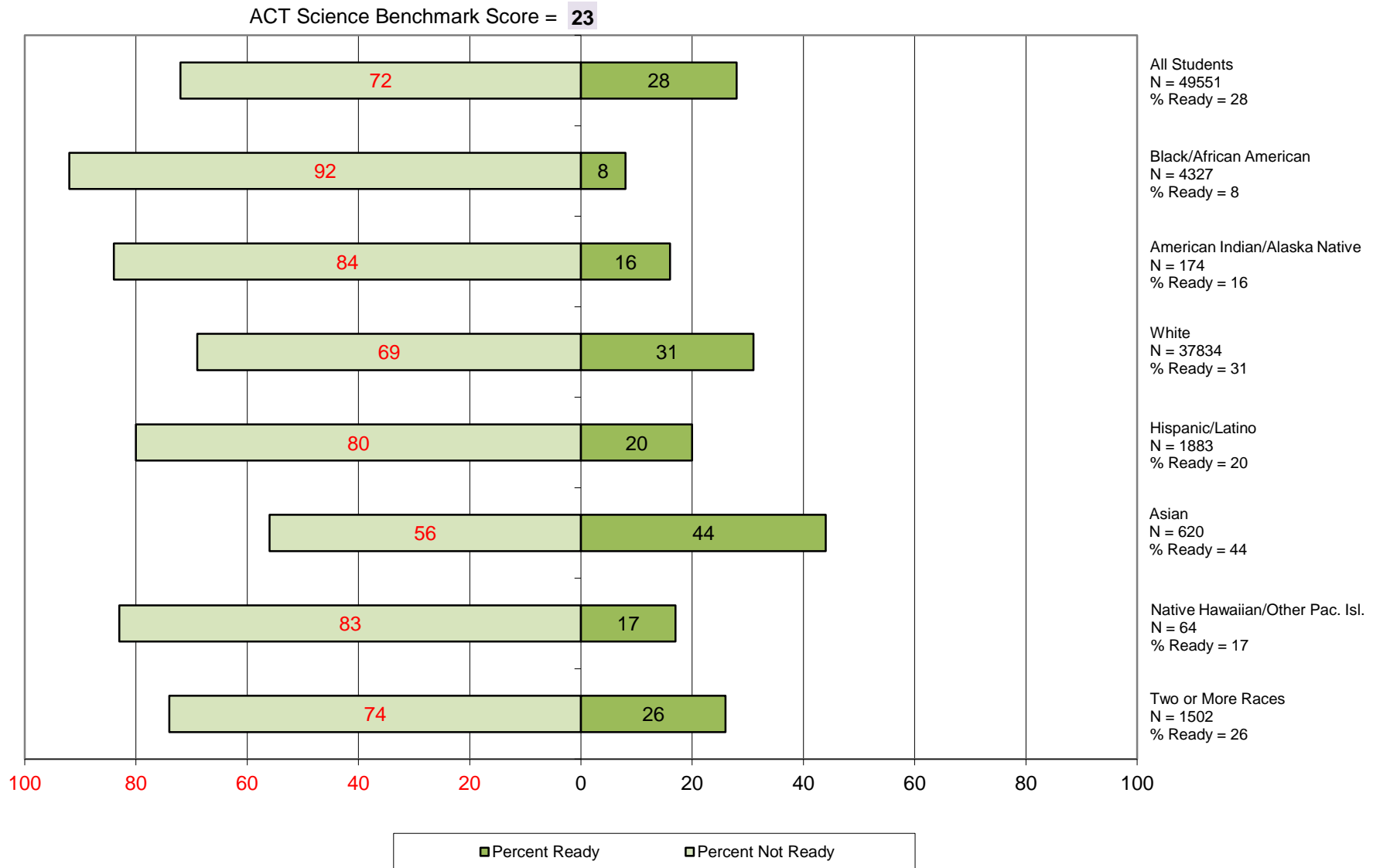
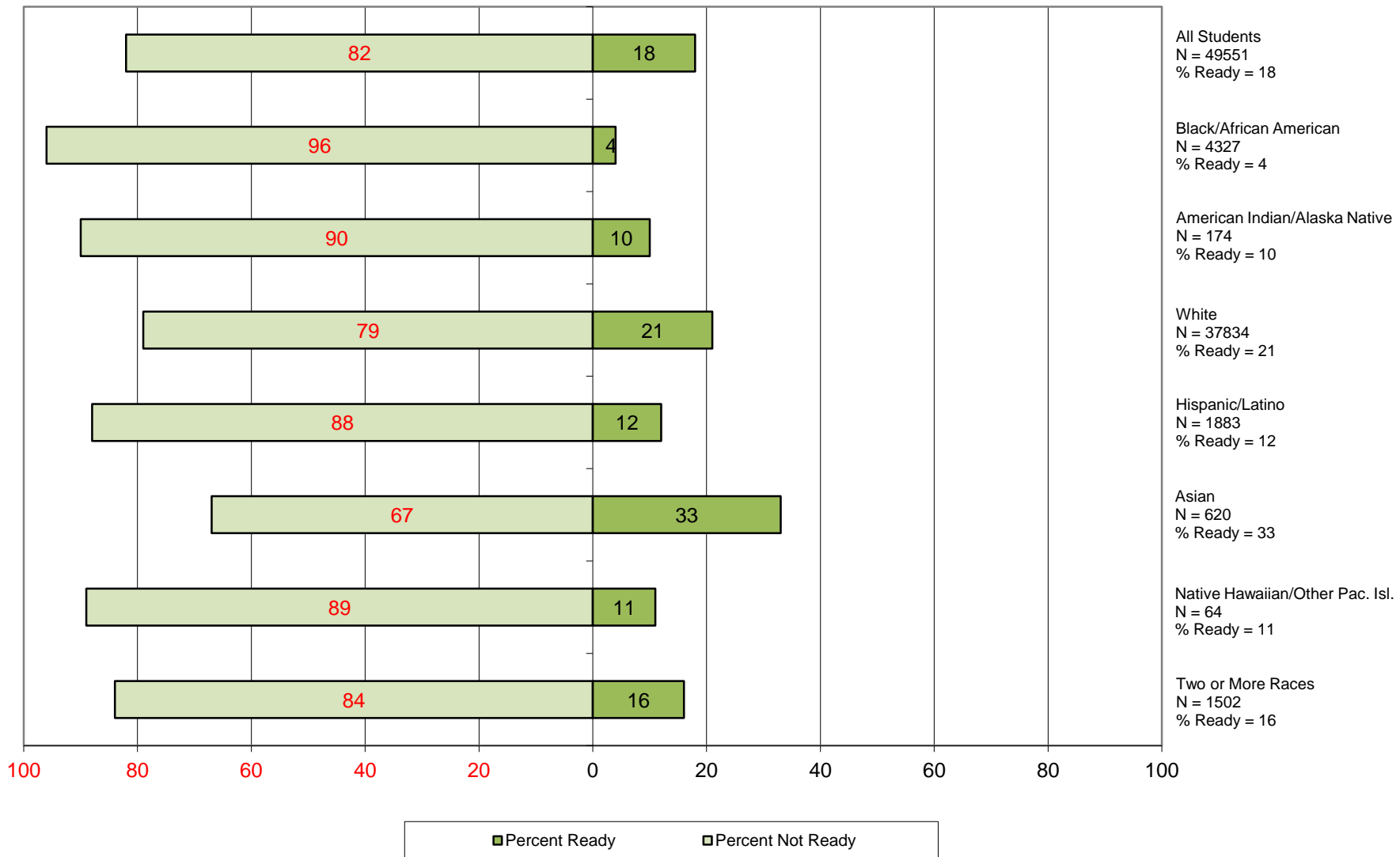


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE



Total Students in Report: 49,551

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





Total Students in Report: 49,551

**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	7,381	15	21.8	7.0	3,181	13	21.2	6.8	4,198	17	22.2	6.8
Eng 9, Eng 10, Eng 11, Eng 12	37,105	75	19.3	4.5	18,739	75	18.6	4.2	18,304	75	20.0	4.6
Less than 4 years of English	3,536	7	14.8	-	2,084	8	14.4	-	1,435	6	15.4	-
Zero years / no English courses reported	1,529	3	15.4	-	907	4	14.8	-	578	2	16.4	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	1,607	3	22.0	6.2	798	3	22.5	6.7	807	3	21.5	5.7
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,610	5	21.3	5.5	1,096	4	21.6	5.8	1,511	6	21.0	5.2
Alg 1, Alg 2, Geom, & Trig	2,365	5	18.1	2.3	1,231	5	18.2	2.4	1,128	5	17.9	2.1
Alg 1, Alg 2, Geom, & Other Adv Math	15,931	32	18.6	2.8	7,295	29	18.7	2.9	8,624	35	18.6	2.8
Other comb of 4 or more years of Math	12,692	26	22.4	6.6	6,460	26	22.9	7.1	6,216	25	21.9	6.1
Alg 1, Alg 2, & Geom	8,369	17	16.4	0.6	4,720	19	16.5	0.7	3,626	15	16.3	0.5
Other comb of 3 or 3.5 years of Math	2,880	6	17.9	2.1	1,469	6	18.1	2.3	1,403	6	17.6	1.8
Less than 3 years of Math	1,497	3	15.8	-	887	4	15.8	-	601	2	15.8	-
Zero years / no Math courses reported	1,600	3	16.8	-	955	4	16.8	-	599	2	16.8	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	1,344	3	20.7	2.8	703	3	20.1	2.6	640	3	21.3	2.8
Other comb of 4 or more years Social Science	16,786	34	21.2	3.3	8,021	32	20.9	3.4	8,741	36	21.6	3.1
US Hist, World Hist, & Am Gov	6,948	14	18.6	0.7	3,699	15	18.2	0.7	3,236	13	19.0	0.5
Other comb of 3 or 3.5 years of Social Science	12,986	26	20.8	2.9	6,146	25	20.4	2.9	6,826	28	21.1	2.6
Less than 3 years of Social Science	9,775	20	17.9	-	5,317	21	17.5	-	4,429	18	18.5	-
Zero years / no Social Science courses reported	1,712	3	16.9	-	1,025	4	16.5	-	643	3	17.5	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	15,758	32	20.8	3.5	8,349	34	21.2	4.1	7,384	30	20.3	2.8
Bio, Chem, Phys	3,103	6	22.0	4.7	1,508	6	22.6	5.5	1,593	6	21.4	3.9
Gen Sci <sup>2</sup> , Bio, Chem	21,224	43	19.6	2.3	9,649	39	19.4	2.3	11,547	47	19.7	2.2
Other comb of 3 years of Natural Science	1,330	3	18.2	0.9	787	3	18.3	1.2	538	2	17.9	0.4
Less than 3 years of Natural Science	6,359	13	17.3	-	3,546	14	17.1	-	2,794	11	17.5	-
Zero years / no Natural Science courses reported	1,777	4	17.0	-	1,072	4	16.9	-	659	3	17.3	-

<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: 49,551

**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	7,381	15	21.8	74	380,375	21	21.6	73
Eng 9, Eng 10, Eng 11, Eng 12	37,105	75	19.3	58	1,265,911	70	20.3	65
Less than 4 years of English	3,536	7	14.8	27	84,048	5	15.9	36
Zero years / no English courses reported	1,529	3	15.4	33	68,909	4	16.4	38
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	1,607	3	22.0	53	113,999	6	23.8	68
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,610	5	21.3	50	155,095	9	21.9	56
Alg 1, Alg 2, Geom, & Trig	2,365	5	18.1	19	119,993	7	19.4	32
Alg 1, Alg 2, Geom, & Other Adv Math	15,931	32	18.6	24	336,291	19	19.6	32
Other comb of 4 or more years of Math	12,692	26	22.4	56	610,720	34	23.6	65
Alg 1, Alg 2, & Geom	8,369	17	16.4	7	223,733	12	17.2	11
Other comb of 3 or 3.5 years of Math	2,880	6	17.9	18	88,866	5	19.7	34
Less than 3 years of Math	1,497	3	15.8	5	77,906	4	16.3	7
Zero years / no Math courses reported	1,600	3	16.8	11	72,640	4	17.9	20
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	1,344	3	20.7	41	50,989	3	22.2	51
Other comb of 4 or more years Social Science	16,786	34	21.2	44	908,394	50	22.0	50
US Hist, World Hist, & Am Gov	6,948	14	18.6	27	106,021	6	19.5	34
Other comb of 3 or 3.5 years of Social Science	12,986	26	20.8	41	489,586	27	21.0	43
Less than 3 years of Social Science	9,775	20	17.9	24	171,617	10	19.1	32
Zero years / no Social Science courses reported	1,712	3	16.9	20	72,636	4	17.7	25
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	15,758	32	20.8	37	767,293	43	21.9	46
Bio, Chem, Phys	3,103	6	22.0	45	183,685	10	23.0	54
Gen Sci <sup>1</sup> , Bio, Chem	21,224	43	19.6	26	504,165	28	19.9	28
Other comb of 3 years of Natural Science	1,330	3	18.2	17	51,822	3	19.1	25
Less than 3 years of Natural Science	6,359	13	17.3	13	218,267	12	18.0	17
Zero years / no Natural Science courses reported	1,777	4	17.0	12	74,011	4	17.8	18

<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: 49,551

**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	1,232	2	18.1	307	4	15.5	853	2	19.3
Architecture	423	1	20.4	48	1	16.1	354	1	21.2
Area, Ethnic, & Multidisciplinary Studies	62	0	19.3	13	0	14.4	45	0	20.8
Arts: Visual & Performing	3,729	8	19.6	599	9	16.4	2,898	8	20.4
Business	2,825	6	20.2	329	5	15.9	2,395	6	20.9
Communications	848	2	20.7	59	1	15.2	759	2	21.3
Community, Family, & Personal Services	2,830	6	17.7	714	10	16.2	1,907	5	18.5
Computer Science & Mathematics	1,148	2	21.6	145	2	17.0	951	3	22.4
Education	2,967	6	20.0	157	2	15.5	2,728	7	20.3
Engineering	2,822	6	22.2	404	6	15.8	2,300	6	23.5
Engineering Technology & Drafting	994	2	18.3	366	5	15.7	571	2	20.2
English & Foreign Languages	513	1	22.8	36	1	18.3	458	1	23.2
Health Administration & Assisting	1,231	2	17.5	186	3	15.9	1,001	3	17.9
Health Sciences & Technologies	11,213	23	20.3	835	12	16.4	10,080	27	20.7
Philosophy, Religion, & Theology	238	0	21.0	15	0	17.9	210	1	21.4
Repair, Production, & Construction	1,804	4	16.2	1,090	16	15.7	533	1	17.4
Sciences: Biological & Physical	1,841	4	23.0	53	1	17.0	1,724	5	23.3
Social Sciences & Law	3,516	7	21.0	175	3	16.3	3,205	9	21.3
Undecided	4,938	10	20.1	720	11	15.7	3,644	10	21.4
No Response	4,074	8	15.6	461	7	14.0	515	1	15.9

<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: 49,551

**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	2,271	15.6	155	13.7	19	13.6	1,813	15.8	53	15.6
2-yr College Degree	4,553	15.9	385	14.1	21	15.6	3,493	16.2	195	15.4
Bachelors Degree	21,634	19.5	2,094	16.3	70	18.2	16,736	20.0	835	18.3
Graduate Study	5,554	22.7	350	18.0	10	17.2	4,503	23.3	177	20.5
Prof. Level Degree	10,103	22.6	848	18.6	24	20.4	7,650	23.2	415	20.7
Other	1,635	16.3	109	14.8	7	13.9	1,245	16.4	61	15.9
No Response	3,801	16.6	386	14.6	23	15.3	2,394	16.9	147	15.5

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	2,271	15.6	11	16.0	4	15.0	36	15.9	180	15.4
2-yr College Degree	4,553	15.9	29	13.9	5	16.2	102	16.7	323	15.6
Bachelors Degree	21,634	19.5	193	19.7	25	17.3	689	19.1	992	18.9
Graduate Study	5,554	22.7	90	24.5	3	21.0	156	22.3	265	21.2
Prof. Level Degree	10,103	22.6	238	25.0	18	21.2	379	21.5	531	22.2
Other	1,635	16.3	23	16.6	2	15.5	51	16.6	137	15.8
No Response	3,801	16.6	36	16.6	7	17.7	89	17.0	719	17.2

Total Students in Report: 49,551

**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
UNIVERSITY OF KENTUCKY	Kentucky	18,089	6,960	11,129	2	11	24	30	20	11	1
UNIVERSITY OF LOUISVILLE	Kentucky	11,569	3,607	7,962	3	13	25	28	19	11	1
WESTERN KENTUCKY UNIVERSITY	Kentucky	11,094	2,987	8,107	3	15	29	29	17	8	1
EASTERN KENTUCKY UNIVERSITY	Kentucky	9,341	2,980	6,361	3	16	32	30	14	5	0
MOREHEAD STATE UNIVERSITY	Kentucky	5,086	1,578	3,508	3	15	32	30	16	5	0
MURRAY STATE UNIVERSITY	Kentucky	4,810	1,461	3,349	2	12	29	32	17	7	0
NORTHERN KENTUCKY UNIVERSITY	Kentucky	3,815	1,308	2,507	2	11	28	32	19	7	0
STATE-COLLEGE/NO REPORTS NOW	Iowa	3,428	3,427	1	12	32	30	17	6	2	1
BELLARMINE UNIVERSITY	Kentucky	2,682	696	1,986	2	8	19	31	26	14	1
BLUEGRASS COMMUNITY & TECHNICAL COLLEGE	Kentucky	1,971	764	1,207	7	28	34	22	8	2	0
CAMPBELLSVILLE UNIVERSITY	Kentucky	1,830	483	1,347	3	16	33	28	14	5	0
GEORGETOWN COLLEGE	Kentucky	1,625	291	1,334	4	18	25	26	18	9	0
KENTUCKY STATE UNIVERSITY	Kentucky	1,624	386	1,238	10	32	34	18	5	1	0
BEREA COLLEGE	Kentucky	1,459	438	1,021	4	17	29	30	15	5	0
UNIVERSITY OF CINCINNATI	Ohio	1,450	359	1,091	1	7	18	30	25	17	2
LINDSEY WILSON COLLEGE	Kentucky	1,436	295	1,141	4	19	35	28	11	3	0
STATE-NO COLLEGE PLANS	Iowa	1,369	1,368	1	27	41	23	6	2	0	0
SOMERSET COMMUNITY COLLEGE	Kentucky	1,339	573	766	7	30	36	19	6	1	0
UNIVERSITY OF PIKEVILLE	Kentucky	1,309	304	1,005	5	22	34	27	10	3	0
TRANSYLVANIA UNIVERSITY	Kentucky	1,221	171	1,050	1	6	12	25	29	23	3
MAYSVILLE COMM & TECH COLL-MOREHEAD	Kentucky	1,172	265	907	7	27	34	23	8	1	0
WEST KENTUCKY COMM & TECHNICAL COLLEGE	Kentucky	1,137	414	723	5	21	36	26	9	2	0
ELIZABETHTOWN COMM AND TECH COLLEGE	Kentucky	1,127	501	626	6	22	39	24	7	2	0
NCAA ELIGIBILITY CENTER	Indiana	1,035	388	647	2	10	27	34	18	8	1
ITT TECHNICAL INSTITUTE-LEXINGTON	Kentucky	1,002	280	722	12	36	32	14	5	1	0
UNIVERSITY OF THE CUMBERLANDS	Kentucky	988	202	786	2	11	29	34	16	7	0
SULLIVAN UNIVERSITY	Kentucky	972	280	692	5	28	37	22	7	2	0
CENTRE COLLEGE	Kentucky	883	190	693	1	3	5	20	29	36	6
ALICE LLOYD COLLEGE	Kentucky	839	286	553	7	23	35	23	10	1	0
BOWLING GREEN TECHNICAL COLLEGE	Kentucky	837	344	493	10	34	31	21	4	0	0
All Other Institutions		43,356	10,882	32,474	5	19	27	23	14	10	2
<b>Total</b>		<b>139,895</b>	<b>44,468</b>	<b>95,427</b>	<b>4</b>	<b>17</b>	<b>28</b>	<b>26</b>	<b>15</b>	<b>8</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: 49,551

**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>3,737</b>	<b>942,769</b>	<b>25.7</b>	<b>21.3</b>	<b>7.4</b>	<b>7.0</b>	<b>24.1</b>	<b>20.5</b>
Black/African American	267	114,751	19.8	16.3	6.8	6.1	19.2	16.0
American Indian/Alaska Native	9	6,031	23.8	16.8	7.6	6.1	22.7	16.4
White	2,839	518,407	26.4	22.9	7.4	7.2	24.6	21.9
Hispanic/Latino	162	151,504	22.9	18.6	7.3	6.8	22.0	18.3
Asian	151	54,580	27.0	23.5	7.8	7.6	25.5	22.7
Native Hawaiian/Other Pac. Isl.	9	2,812	19.8	19.5	6.7	6.9	19.3	19.2
Two or more races	134	35,355	24.5	21.5	6.9	7.0	22.8	20.6
Prefer not/No Response	166	59,329	26.1	21.8	7.4	7.1	24.4	20.9
Males	1,646	423,104	25.7	21.0	7.1	6.7	23.9	20.1
Females	2,091	513,945	25.7	21.6	7.5	7.2	24.3	20.9
Missing	0	5,720	.	16.6	.	6.3	.	16.5





