



# Profile Report - State

Graduating Class 2015

Kentucky





## Table of Contents

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

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

This report focuses on:

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

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

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

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

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

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

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

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

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

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

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

**The ACT:**

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

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

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

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

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

## How to Improve Scores and Increase College Readiness

21% 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:** 49,538 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. 63% 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, 6% were college ready. 17% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 8% of these students were college ready. In comparison, 39% 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 12% of the cohort took less than three years of natural science courses. 15% of these students were college ready. In comparison, 35% 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 60% 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

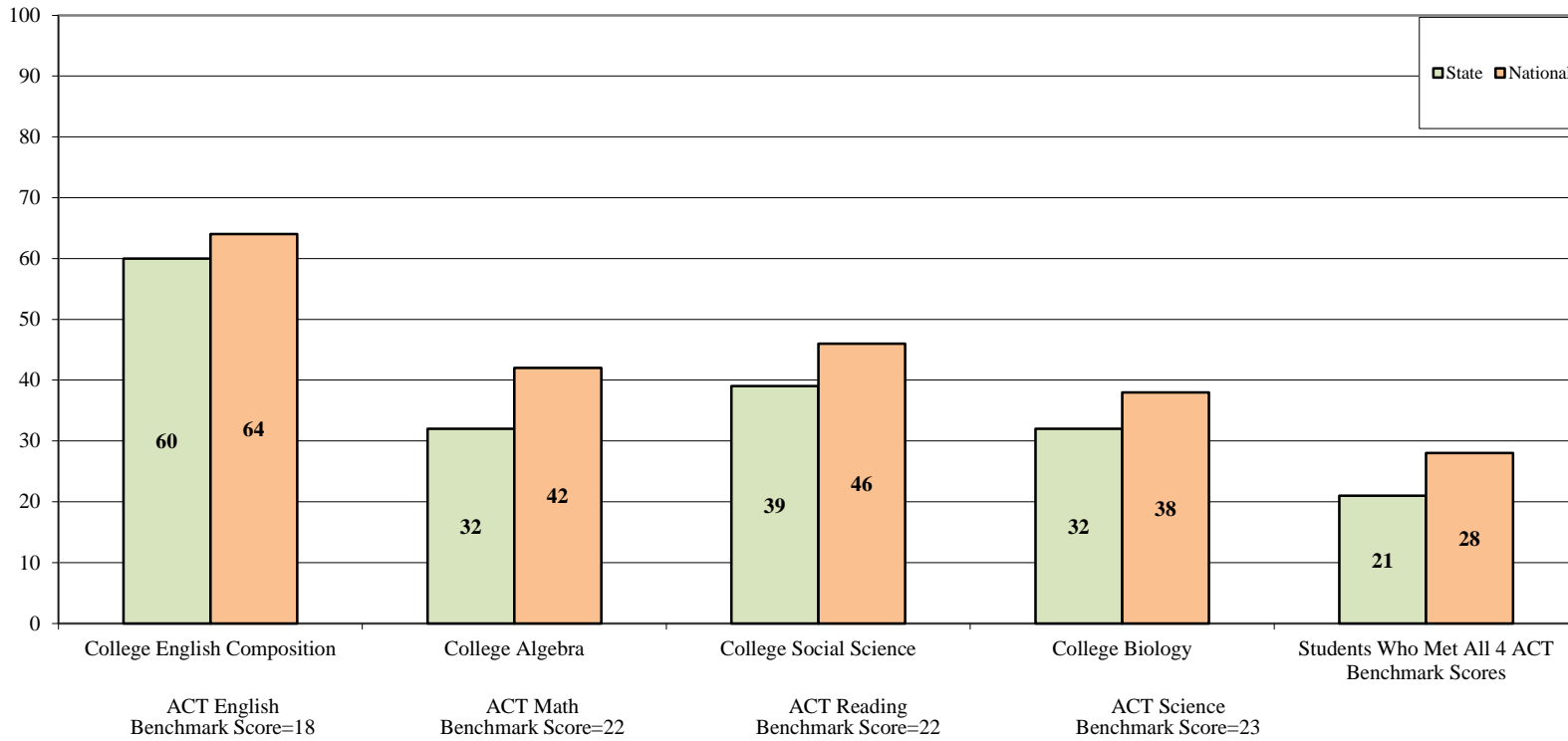
## Executive Summary

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: 49,538

**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	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
2013	49,551	1,799,243	57	64	30	44	36	44	28	36	18	26
2014	48,845	1,845,787	59	64	31	43	37	44	29	37	19	26
<b>2015</b>	<b>49,538</b>	<b>1,924,436</b>	<b>60</b>	<b>64</b>	<b>32</b>	<b>42</b>	<b>39</b>	<b>46</b>	<b>32</b>	<b>38</b>	<b>21</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	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
2013	49,551	1,799,243	19.2	20.2	19.2	20.9	19.9	21.1	19.7	20.7	19.6	20.9
2014	48,845	1,845,787	19.4	20.3	19.4	20.9	20.3	21.3	20.0	20.8	19.9	21.0
<b>2015</b>	<b>49,538</b>	<b>1,924,436</b>	<b>19.5</b>	<b>20.4</b>	<b>19.5</b>	<b>20.8</b>	<b>20.3</b>	<b>21.4</b>	<b>20.1</b>	<b>20.9</b>	<b>20.0</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
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: 49,538

**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	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
2013	32,364	15,260	65	31	20.6	16.9	20.1	17.7	21.1	17.9	20.6	18.0	20.7	17.8
2014	31,832	14,755	65	30	20.8	17.3	20.2	18.0	21.3	18.5	20.9	18.6	20.9	18.2
<b>2015</b>	<b>31,215</b>	<b>15,119</b>	<b>63</b>	<b>31</b>	<b>20.9</b>	<b>17.6</b>	<b>20.4</b>	<b>18.3</b>	<b>21.4</b>	<b>18.7</b>	<b>21.0</b>	<b>18.7</b>	<b>21.0</b>	<b>18.5</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.

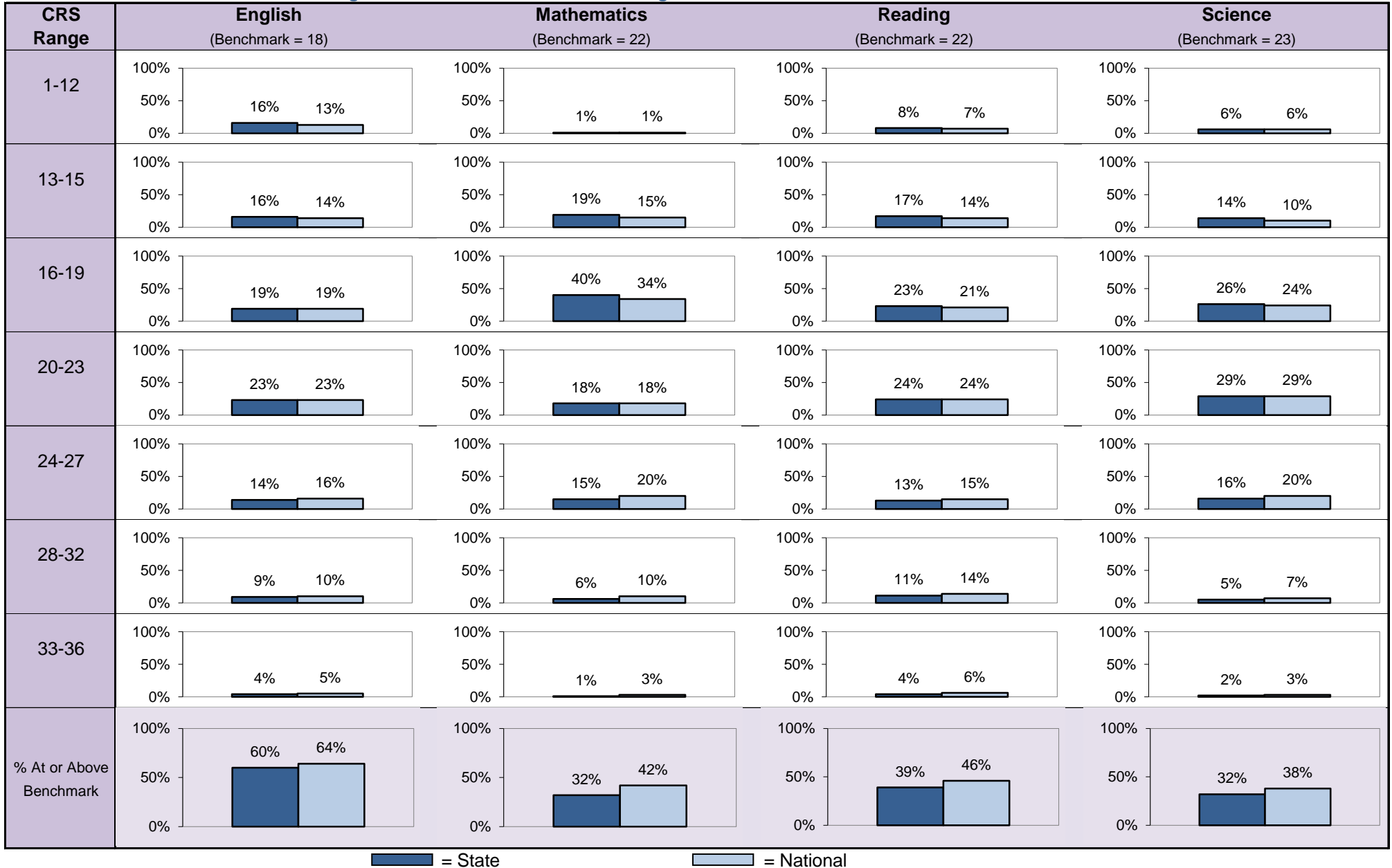
<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

**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>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>	<b>48,845</b>	<b>100</b>	<b>19.9</b>	<b>49,538</b>	<b>100</b>	<b>20.0</b>
Black/African American	4,130	9	16.5	3,969	9	16.7	4,327	9	16.4	3,896	8	16.8	4,084	8	16.8
American Indian/Alaska Native	185	0	17.3	176	0	17.5	174	0	17.1	187	0	17.0	212	0	17.4
White	36,653	79	20.1	36,541	79	20.3	37,834	76	20.2	36,156	74	20.5	36,407	73	20.6
Hispanic/Latino	1,179	3	18.2	1,612	3	18.4	1,883	4	18.4	1,788	4	18.7	2,026	4	18.7
Asian	536	1	22.6	579	1	22.0	620	1	21.8	620	1	23.0	678	1	22.2
Native Hawaiian/Other Pacific Islander	16	0	19.8	75	0	18.6	64	0	18.3	70	0	18.2	72	0	18.9
Two or more races	948	2	19.2	1,234	3	20.0	1,502	3	19.6	1,557	3	20.0	1,773	4	20.0
Prefer not to respond/No response	2,781	6	18.1	2,103	5	18.8	3,147	6	18.6	4,571	9	18.3	4,286	9	18.4

Total Students in Report: 49,538

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



Total Students in Report: 49,538

**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	45,729	92	20.0	19.8	20.7	20.4	20.4
	Extended Time	3,809	8	14.0	16.2	16.3	16.3	15.8
	Total	49,538	100	19.5	19.5	20.3	20.1	20.0
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	63	34	41	34	22
	Extended Time	23	9	19	10	6
	Total	60	32	39	32	21
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: 49,538

**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	154	100	83	100	306	100	186	100	27	100	36
35	556	100	147	100	247	99	207	100	125	100	35
34	685	99	228	100	790	99	314	99	215	100	34
33	610	97	199	99	808	97	301	99	340	99	33
32	691	96	299	99	869	96	466	98	509	99	32
31	887	95	290	98	1,130	94	315	97	632	98	31
30	714	93	412	97	1,134	92	438	96	819	96	30
29	850	91	590	97	1,056	89	620	96	946	95	29
28	1,126	90	1,243	95	1,165	87	851	94	1,238	93	28
27	1,158	87	1,347	93	1,210	85	991	93	1,441	90	27
26	1,610	85	1,947	90	1,342	82	1,853	91	1,650	87	26
25	1,973	82	1,963	86	1,355	80	2,835	87	2,001	84	25
24	2,165	78	2,238	82	2,417	77	2,467	81	2,321	80	24
23	2,527	73	2,779	78	2,227	72	3,887	76	2,528	75	23
22	2,545	68	1,886	72	3,211	68	2,843	68	2,961	70	22
21	3,334	63	2,199	68	3,070	61	4,484	63	3,223	64	21
20	3,019	56	1,938	64	3,414	55	3,329	53	3,443	58	20
19	2,266	50	3,276	60	2,498	48	4,214	47	3,570	51	19
18	2,732	46	3,525	53	3,461	43	3,089	38	3,675	43	18
17	2,192	40	5,354	46	2,308	36	2,467	32	3,485	36	17
16	2,263	36	7,842	36	3,259	31	3,139	27	3,341	29	16
15	3,380	31	5,723	20	2,408	25	3,426	21	3,326	22	15
14	2,565	24	2,529	8	3,044	20	1,898	14	2,996	16	14
13	1,841	19	1,043	3	2,753	14	1,745	10	2,620	10	13
12	1,644	16	343	1	1,816	8	1,267	6	1,518	4	12
11	1,913	12	80	1	1,219	5	906	4	472	1	11
10	1,462	8	19	1	657	2	528	2	103	1	10
9	1,366	5	8	1	210	1	296	1	8	1	9
8	897	3	4	1	23	1	111	1	1	1	8
7	321	1	1	1	77	1	43	1	2	1	7
6	60	1	0	1	34	1	16	1	0	1	6
5	24	1	0	1	9	1	2	1	2	1	5
4	5	1	2	1	6	1	0	1	0	1	4
3	2	1	0	1	2	1	4	1	0	1	3
2	0	1	0	1	2	1	0	1	0	1	2
1	1	1	1	1	1	1	0	1	0	1	1
Avg (SD)	19.5 (6.6)		19.5 (4.8)		20.3 (6.2)		20.1 (5.2)		20.0 (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: 49,538

**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	1,394	100	944	100	1,172	100	1,487	100	857	100	199	100	195	100	18
17	2,034	97	523	98	1,887	98	1,959	97	999	98	311	100	58	100	17
16	1,503	93	2,510	97	1,918	94	2,359	93	1,758	96	605	99	945	99	16
15	1,780	90	2,946	92	2,695	90	2,810	88	2,076	93	1,624	98	1,603	98	15
14	2,220	86	2,637	86	2,240	85	3,020	83	2,329	89	2,927	94	2,719	94	14
13	2,072	82	3,222	81	3,873	80	2,976	77	3,381	84	4,000	89	3,380	89	13
12	3,182	78	4,412	74	4,799	72	3,611	71	3,718	77	3,519	80	4,943	82	12
11	5,009	71	4,843	65	3,839	62	3,389	63	4,562	69	5,501	73	4,032	72	11
10	5,474	61	5,046	56	6,357	55	3,744	56	4,523	60	9,623	62	8,062	64	10
9	4,218	50	5,673	45	4,286	42	3,891	49	4,127	51	7,371	43	6,270	48	9
8	4,269	42	4,673	34	5,408	33	5,339	41	6,660	43	5,872	28	7,885	35	8
7	4,096	33	3,620	24	5,757	22	3,780	30	7,191	29	3,909	16	4,127	19	7
6	3,757	25	2,273	17	2,704	11	5,059	23	4,344	15	2,080	8	1,348	11	6
5	3,217	17	3,024	13	1,596	5	2,899	12	1,679	6	621	4	2,216	8	5
4	2,755	11	2,389	6	670	2	2,412	6	811	3	412	3	384	4	4
3	1,833	5	663	2	71	1	542	2	439	1	794	2	993	3	3
2	646	1	131	1	226	1	247	1	75	1	8	1	78	1	2
1	79	1	9	1	40	1	14	1	9	1	162	1	300	1	1
Avg (SD)	9.6 (4.0)		10.1 (3.6)		10.5 (3.5)		10.1 (4.0)		9.9 (3.4)		10.0 (2.8)		9.7 (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	20	20	19
Q1 (25th Percentile)	15	16	16	16	16

Total Students in Report: 49,538

**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>49,538</b>	<b>63</b>	<b>21.0</b>	<b>18.5</b>
	Black/African American	4,084	56	17.5	16.1
	American Indian/Alaska Native	212	48	18.1	17.0
	White	36,407	66	21.5	19.0
	Hispanic/Latino	2,026	59	19.8	17.3
	Asian	678	67	23.9	19.5
	Native Hawaiian/Other Pac. Isl.	72	71	19.2	18.7
	Two or more races	1,773	64	20.8	18.7
	Prefer not/No Response	4,286	47	19.6	17.2
National	<b>All Students</b>	<b>1,924,436</b>	<b>72</b>	<b>21.9</b>	<b>18.9</b>
	Black/African American	252,566	67	17.8	15.9
	American Indian/Alaska Native	14,711	61	19.0	16.5
	White	1,057,803	76	23.2	20.2
	Hispanic/Latino	299,920	71	19.6	17.4
	Asian	87,499	79	24.5	22.0
	Native Hawaiian/Other Pac. Isl.	6,090	62	20.3	16.5
	Two or more races	76,066	73	22.0	19.3
	Prefer not/No Response	129,781	54	22.6	18.5

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

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

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	<b>All Students</b>	19.5	19.5	20.3	20.1	20.0
	Black/African American	15.5	16.9	16.8	17.3	16.8
	American Indian/Alaska Native	16.1	17.7	17.6	17.6	17.4
	White	20.3	20.0	21.0	20.6	20.6
	Hispanic/Latino	17.7	18.6	19.1	18.9	18.7
	Asian	21.4	23.2	21.5	22.3	22.2
	Native Hawaiian/Other Pac. Isl.	17.9	18.9	18.9	19.4	18.9
	Two or more races	19.6	19.4	20.4	20.0	20.0
	Prefer not/No Response	17.5	18.2	18.7	18.6	18.4
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: 49,538

**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	2,005	4	657	1	2,151	4	1,008	2
	28 to 32	4,268	9	2,834	6	5,354	11	2,690	5
	24 to 27	6,906	14	7,495	15	6,324	13	8,146	16
	20 to 23	11,425	23	8,802	18	11,922	24	14,543	29
	16 to 19	9,453	19	19,997	40	11,526	23	12,909	26
	13 to 15	7,786	16	9,295	19	8,205	17	7,069	14
	01 to 12	7,695	16	458	1	4,056	8	3,173	6
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	24,867	50	18.8	19.7	19.9	20.1	19.8
	Females	24,547	50	20.4	19.4	20.8	20.0	20.3
	Missing	124	0	15.2	17.0	16.8	17.4	16.7
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	55	33	37	33	22
	Females	65	30	41	30	20
National	Males	61	46	45	42	30
	Females	66	39	47	36	26

Total Students in Report: 49,538

**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>	31,215	68	20.9	38	20.4	46	21.4	38	21.0	26	21.0
	Less than Core	15,119	48	17.6	21	18.3	28	18.7	22	18.7	13	18.5
	Missing <sup>3</sup>	3,204	35	15.8	14	17.1	22	17.4	15	17.4	8	17.1
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>	43,214	64	20.1	45,175	34	19.8	36,273	43	21.0	40,616	35	20.6
	Less than Core	3,467	32	15.2	1,436	6	16.2	10,222	29	18.9	5,888	15	17.7
	Missing <sup>3</sup>	2,857	37	16.0	2,927	14	17.2	3,043	22	17.5	3,034	16	17.5
National	Core or More	1,732,463	67	20.8	1,743,121	45	21.2	1,627,689	49	21.8	1,592,830	42	21.5
	Less than Core	93,944	36	15.9	78,951	8	16.3	194,720	34	19.5	227,926	18	18.1
	Missing	98,029	40	16.5	102,364	20	17.8	102,027	26	18.1	103,680	20	18.0

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

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

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

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

# Section III

## College Readiness and the Impact of Course Rigor

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

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

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

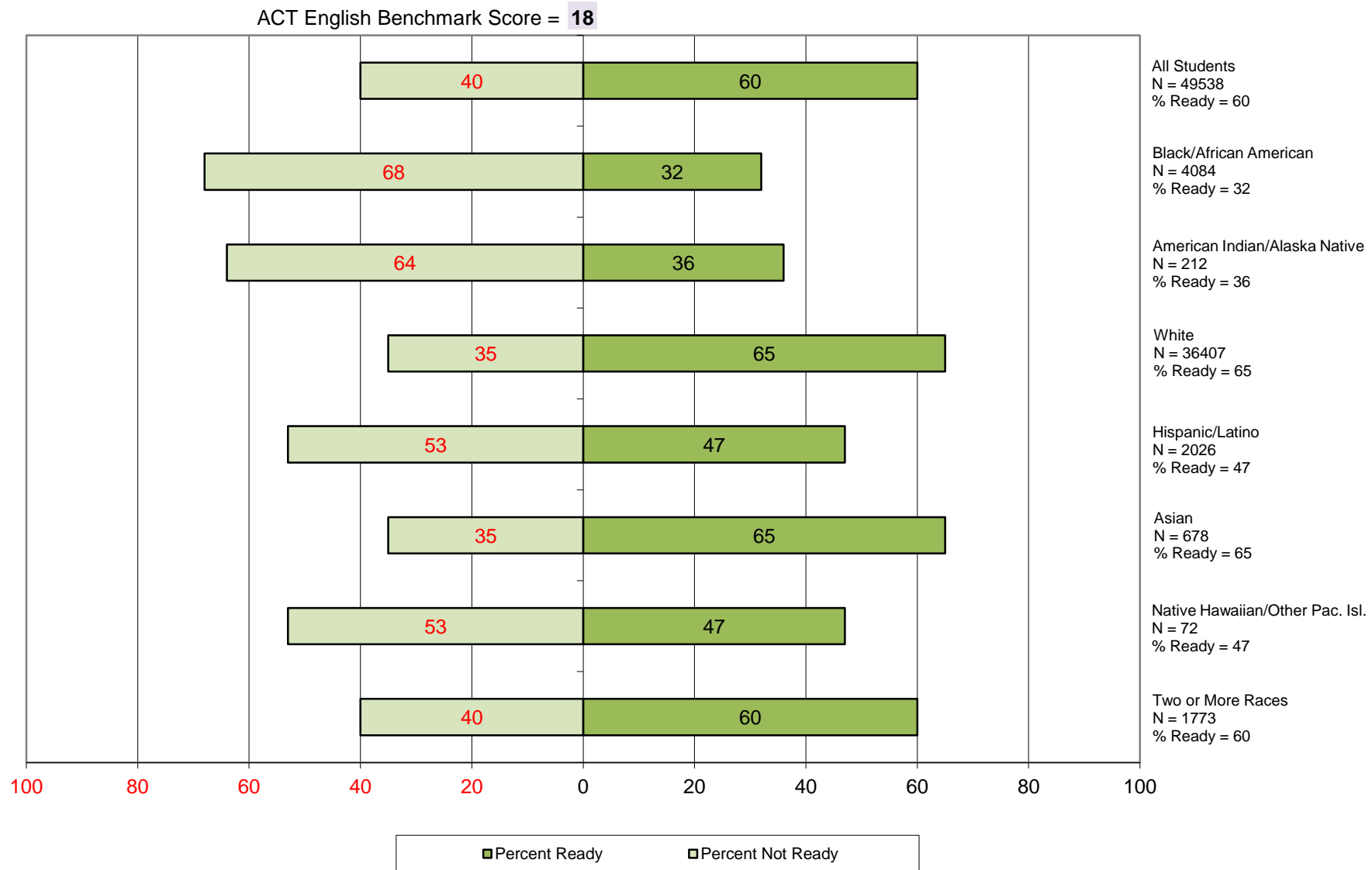


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

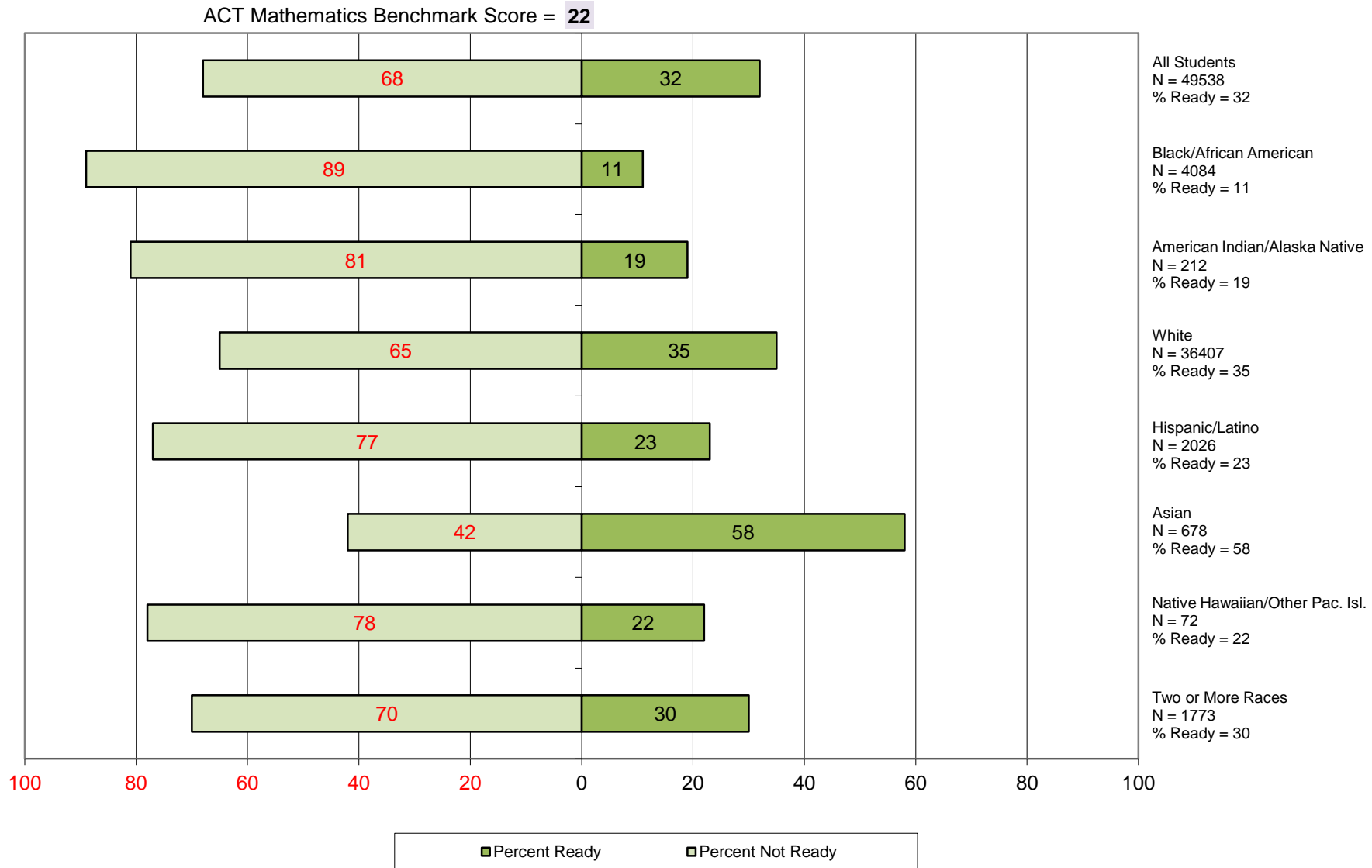


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

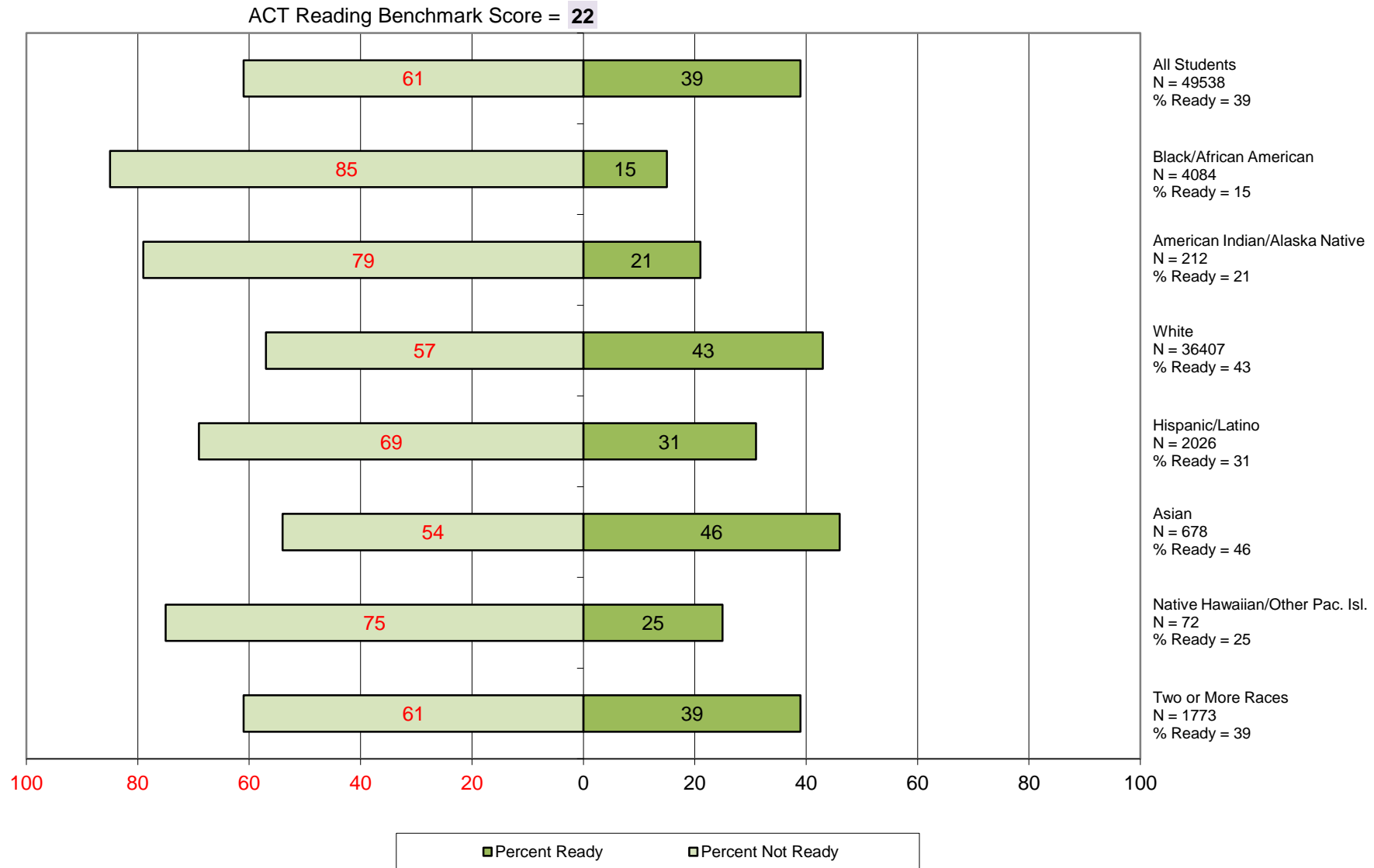


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

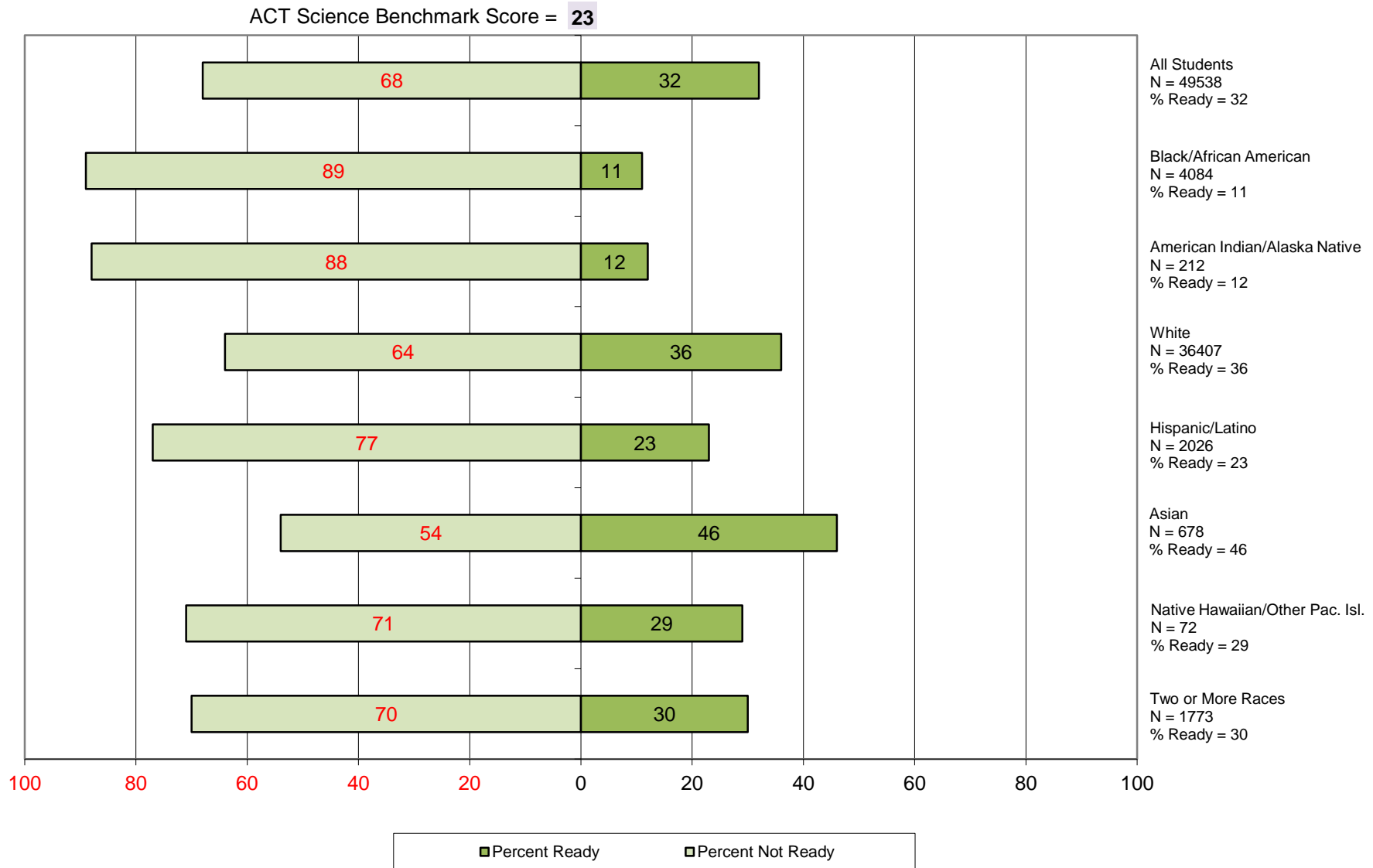
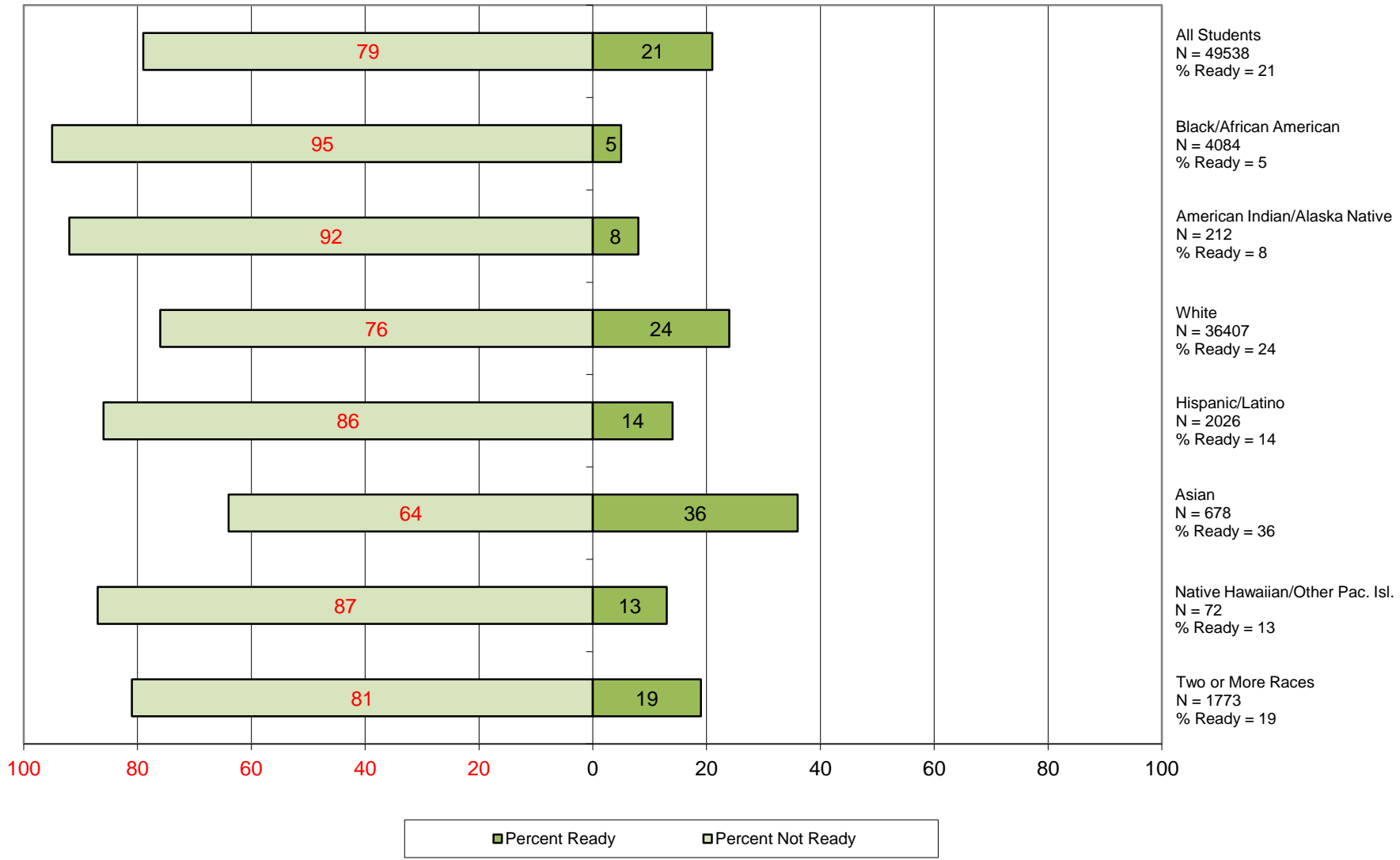


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR





Total Students in Report: 49,538

**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	7,157	14	22.0	6.8	3,036	12	21.3	6.5	4,113	17	22.5	6.7
Eng 9, Eng 10, Eng 11, Eng 12	36,057	73	19.8	4.6	18,127	73	19.0	4.2	17,860	73	20.5	4.7
Less than 4 years of English	3,467	7	15.2	-	2,025	8	14.8	-	1,415	6	15.8	-
Zero years / no English courses reported	2,857	6	16.0	-	1,679	7	15.7	-	1,159	5	16.6	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	1,702	3	21.5	5.3	857	3	22.2	6.0	841	3	20.7	4.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,645	5	21.5	5.3	1,058	4	21.9	5.7	1,585	6	21.1	5.0
Alg 1, Alg 2, Geom, & Trig	2,415	5	18.4	2.2	1,294	5	18.6	2.4	1,115	5	18.2	2.1
Alg 1, Alg 2, Geom, & Other Adv Math	13,919	28	19.0	2.8	6,269	25	19.0	2.8	7,627	31	19.0	2.9
Other comb of 4 or more years of Math	13,357	27	22.5	6.3	6,680	27	23.2	7.0	6,659	27	21.9	5.8
Alg 1, Alg 2, & Geom	8,349	17	16.8	0.6	4,684	19	16.8	0.6	3,640	15	16.6	0.5
Other comb of 3 or 3.5 years of Math	2,788	6	18.3	2.1	1,439	6	18.7	2.5	1,338	5	18.0	1.9
Less than 3 years of Math	1,436	3	16.2	-	865	3	16.2	-	557	2	16.1	-
Zero years / no Math courses reported	2,927	6	17.2	-	1,721	7	17.3	-	1,185	5	17.0	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	1,274	3	20.8	1.9	693	3	20.4	1.9	579	2	21.4	1.9
Other comb of 4 or more years Social Science	15,592	31	21.5	2.6	7,413	30	21.2	2.7	8,155	33	21.7	2.2
US Hist, World Hist, & Am Gov	6,898	14	19.0	0.1	3,704	15	18.6	0.1	3,172	13	19.4	-0.1
Other comb of 3 or 3.5 years of Social Science	12,509	25	21.5	2.6	5,788	23	21.2	2.7	6,705	27	21.7	2.2
Less than 3 years of Social Science	10,222	21	18.9	-	5,474	22	18.5	-	4,709	19	19.5	-
Zero years / no Social Science courses reported	3,043	6	17.5	-	1,795	7	17.2	-	1,227	5	17.9	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	15,736	32	21.2	3.5	8,211	33	21.6	4.2	7,495	31	20.7	2.7
Bio, Chem, Phys	3,671	7	22.5	4.8	1,736	7	23.1	5.7	1,934	8	22.0	4.0
Gen Sci <sup>2</sup> , Bio, Chem	19,894	40	19.9	2.2	9,075	36	19.7	2.3	10,779	44	20.1	2.1
Other comb of 3 years of Natural Science	1,315	3	19.1	1.4	760	3	19.5	2.1	549	2	18.6	0.6
Less than 3 years of Natural Science	5,888	12	17.7	-	3,303	13	17.4	-	2,561	10	18.0	-
Zero years / no Natural Science courses reported	3,034	6	17.5	-	1,782	7	17.5	-	1,229	5	17.4	-

<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: 49,538

**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	7,157	14	22.0	74	373,145	19	21.7	72
Eng 9, Eng 10, Eng 11, Eng 12	36,057	73	19.8	61	1,359,318	71	20.6	65
Less than 4 years of English	3,467	7	15.2	32	93,944	5	15.9	36
Zero years / no English courses reported	2,857	6	16.0	37	98,029	5	16.5	40
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	1,702	3	21.5	48	123,105	6	23.5	65
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,645	5	21.5	51	164,036	9	21.7	53
Alg 1, Alg 2, Geom, & Trig	2,415	5	18.4	20	123,192	6	19.1	28
Alg 1, Alg 2, Geom, & Other Adv Math	13,919	28	19.0	26	362,476	19	19.4	30
Other comb of 4 or more years of Math	13,357	27	22.5	57	655,589	34	23.7	64
Alg 1, Alg 2, & Geom	8,349	17	16.8	8	219,221	11	17.1	11
Other comb of 3 or 3.5 years of Math	2,788	6	18.3	21	95,502	5	19.8	34
Less than 3 years of Math	1,436	3	16.2	6	78,951	4	16.3	8
Zero years / no Math courses reported	2,927	6	17.2	14	102,364	5	17.8	20
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	1,274	3	20.8	42	48,944	3	22.3	51
Other comb of 4 or more years Social Science	15,592	31	21.5	46	942,441	49	22.3	52
US Hist, World Hist, & Am Gov	6,898	14	19.0	30	108,348	6	19.7	35
Other comb of 3 or 3.5 years of Social Science	12,509	25	21.5	46	527,956	27	21.4	46
Less than 3 years of Social Science	10,222	21	18.9	29	194,720	10	19.5	34
Zero years / no Social Science courses reported	3,043	6	17.5	22	102,027	5	18.1	26
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	15,736	32	21.2	40	807,744	42	22.2	48
Bio, Chem, Phys	3,671	7	22.5	51	217,893	11	23.2	55
Gen Sci <sup>1</sup> , Bio, Chem	19,894	40	19.9	30	512,754	27	20.1	30
Other comb of 3 years of Natural Science	1,315	3	19.1	24	54,439	3	19.1	24
Less than 3 years of Natural Science	5,888	12	17.7	15	227,926	12	18.1	18
Zero years / no Natural Science courses reported	3,034	6	17.5	16	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: 49,538

**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	1,227	2	18.6	313	5	15.9	839	2	19.8
Architecture	395	1	20.5	39	1	16.6	332	1	21.2
Area, Ethnic, & Multidisciplinary Studies	69	0	20.1	13	0	13.4	55	0	21.8
Arts: Visual & Performing	3,234	7	19.8	462	7	16.5	2,564	7	20.6
Business	3,126	6	20.7	361	6	16.6	2,658	7	21.4
Communications	768	2	21.3	52	1	16.3	693	2	21.7
Community, Family, & Personal Services	2,623	5	17.9	691	11	16.5	1,753	5	18.6
Computer Science & Mathematics	1,276	3	22.1	164	3	17.3	1,062	3	23.0
Education	2,886	6	20.2	160	2	16.1	2,647	7	20.6
Engineering	3,063	6	22.4	404	6	16.3	2,545	7	23.6
Engineering Technology & Drafting	899	2	18.9	298	5	16.2	552	1	20.6
English & Foreign Languages	553	1	23.3	34	1	17.9	489	1	24.0
Health Administration & Assisting	1,255	3	18.1	184	3	16.5	1,025	3	18.4
Health Sciences & Technologies	10,622	21	20.7	739	11	16.9	9,619	26	21.0
Philosophy, Religion, & Theology	239	0	21.3	19	0	16.9	207	1	21.8
Repair, Production, & Construction	1,774	4	16.6	1,087	17	16.1	538	1	17.8
Sciences: Biological & Physical	1,779	4	23.6	42	1	17.5	1,693	5	23.8
Social Sciences & Law	3,447	7	21.3	170	3	17.2	3,191	9	21.6
Undecided	4,880	10	20.6	559	9	16.4	3,743	10	21.6
No Response	5,086	10	16.4	529	8	14.8	527	1	16.2

<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: 49,538

**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	2,371	16.0	183	14.4	21	15.1	1,734	16.2	68	16.1
2-yr College Degree	4,090	16.4	364	14.9	25	15.8	2,901	16.8	164	15.6
Bachelors Degree	21,448	19.8	1,912	16.7	83	17.8	16,156	20.4	885	18.6
Graduate Study	5,583	23.2	344	18.2	16	20.6	4,415	23.8	195	21.1
Prof. Level Degree	9,855	22.9	774	18.9	26	21.4	7,293	23.5	457	20.9
Other	1,520	16.5	86	14.5	10	14.6	1,089	16.8	80	15.4
No Response	4,671	17.2	421	15.0	31	15.0	2,819	17.6	177	16.1

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	2,371	16.0	17	15.0	2	13.0	39	16.5	307	15.5
2-yr College Degree	4,090	16.4	32	14.3	5	16.4	111	16.3	488	16.2
Bachelors Degree	21,448	19.8	212	19.5	43	18.6	817	19.3	1,340	18.8
Graduate Study	5,583	23.2	85	24.0	7	25.0	202	22.6	319	21.5
Prof. Level Degree	9,855	22.9	265	26.3	8	19.8	435	22.2	597	21.9
Other	1,520	16.5	17	18.2	2	19.5	41	17.0	195	16.1
No Response	4,671	17.2	50	18.2	5	15.6	128	17.7	1,040	17.3

Total Students in Report: 49,538

**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	17,837	6,452	11,385	2	10	26	29	20	12	1
UNIVERSITY OF LOUISVILLE	Kentucky	12,733	4,294	8,439	2	12	25	28	19	12	2
WESTERN KENTUCKY UNIVERSITY	Kentucky	11,723	3,228	8,495	2	13	29	30	17	8	1
EASTERN KENTUCKY UNIVERSITY	Kentucky	9,989	3,326	6,663	2	14	33	30	15	6	0
MOREHEAD STATE UNIVERSITY	Kentucky	5,199	1,543	3,656	2	14	32	30	15	6	0
MURRAY STATE UNIVERSITY	Kentucky	4,706	1,392	3,314	2	11	30	31	18	8	0
NORTHERN KENTUCKY UNIVERSITY	Kentucky	4,438	1,379	3,059	2	10	29	32	20	8	0
BELLARMINE UNIVERSITY	Kentucky	3,054	668	2,386	2	8	21	30	25	13	1
STATE-NO COLLEGE PLANS	Iowa	2,224	2,224	0	18	42	27	9	3	1	0
BLUEGRASS COMMUNITY & TECHNICAL COLLEGE	Kentucky	1,862	702	1,160	5	26	36	22	9	2	0
CAMPBELLSVILLE UNIVERSITY	Kentucky	1,794	439	1,355	2	17	32	28	15	6	0
UNIVERSITY OF CINCINNATI	Ohio	1,722	445	1,277	0	7	17	28	26	17	3
UNIVERSITY OF PIKEVILLE	Kentucky	1,520	286	1,234	4	20	37	25	11	3	0
MAYSVILLE COMM & TECH COLL-MOREHEAD	Kentucky	1,510	374	1,136	5	25	38	22	7	3	0
GEORGETOWN COLLEGE	Kentucky	1,481	253	1,228	2	14	28	28	18	9	1
BEREA COLLEGE	Kentucky	1,474	443	1,031	3	16	32	28	16	5	0
BOWLING GREEN TECHNICAL COLLEGE	Kentucky	1,426	541	885	7	31	37	18	5	1	0
SOMERSET COMMUNITY COLLEGE	Kentucky	1,366	544	822	6	24	39	22	7	1	0
LINDSEY WILSON COLLEGE	Kentucky	1,278	248	1,030	3	17	36	27	13	4	0
KENTUCKY STATE UNIVERSITY	Kentucky	1,253	232	1,021	6	29	37	19	5	2	0
WEST KENTUCKY COMM & TECHNICAL COLLEGE	Kentucky	1,239	522	717	4	22	34	25	12	3	0
TRANSYLVANIA UNIVERSITY	Kentucky	1,126	191	935	1	5	14	21	28	27	3
ELIZABETHTOWN COMM AND TECH COLLEGE	Kentucky	1,117	472	645	4	23	37	23	11	2	0
NCAA ELIGIBILITY CENTER	Indiana	1,075	426	649	3	13	26	27	22	9	1
JEFFERSON COMM & TECH COLL-DOWNTOWN	Kentucky	1,048	375	673	9	34	33	17	6	0	0
UNIVERSITY OF THE CUMBERLANDS	Kentucky	979	178	801	2	10	31	29	21	8	0
ALICE LLOYD COLLEGE	Kentucky	967	347	620	5	24	38	22	9	2	0
CENTRE COLLEGE	Kentucky	897	186	711	0	2	7	16	29	38	8
ITT TECHNICAL INSTITUTE-LEXINGTON	Kentucky	878	227	651	5	33	38	17	6	1	0
SULLIVAN UNIVERSITY	Kentucky	863	230	633	4	27	34	25	9	2	0
All Other Institutions		44,526	11,308	33,218	4	18	28	22	15	11	3
<b>Total</b>		<b>143,304</b>	<b>43,475</b>	<b>99,829</b>	<b>3</b>	<b>16</b>	<b>29</b>	<b>26</b>	<b>16</b>	<b>9</b>	<b>1</b>

# Section V

## Optional Writing Test Results

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

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

Total Students in Report: 49,538

**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>3,303</b>	<b>1,108,908</b>	<b>26.5</b>	<b>21.0</b>	<b>7.6</b>	<b>6.9</b>	<b>24.9</b>	<b>20.2</b>
Black/African American	207	136,380	21.2	16.3	6.9	6.0	20.4	15.9
American Indian/Alaska Native	14	7,142	24.9	16.5	7.6	5.9	23.8	16.0
White	2,450	567,060	27.0	22.8	7.6	7.1	25.3	21.8
Hispanic/Latino	146	196,970	24.4	18.4	7.4	6.7	23.2	18.1
Asian	157	68,736	28.6	23.9	8.2	7.6	27.0	23.0
Native Hawaiian/Other Pac. Isl.	8	4,070	27.3	18.0	7.9	6.5	25.8	17.6
Two or more races	144	45,517	25.6	21.3	7.4	6.9	24.0	20.4
Prefer not/No Response	177	83,033	25.9	20.8	7.3	6.7	24.2	19.9
Males	1,463	507,737	26.7	20.7	7.4	6.6	24.8	19.7
Females	1,840	590,537	26.4	21.4	7.7	7.1	24.9	20.8
Missing	0	10,634	.	16.0	.	5.6	.	15.4





