

ACT Profile Report - State

Graduating Class 2013
Virginia



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.

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

How to Improve Scores and Increase College Readiness

37% 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: 22,165 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. 89% 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 2% of the cohort took less than three years of math courses. Of these students, 7% were college ready. 8% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 10% of these students were college ready. In comparison, 63% 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 5% of the cohort took less than three years of natural science courses. 16% of these students were college ready. In comparison, 49% 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 35% 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.

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.

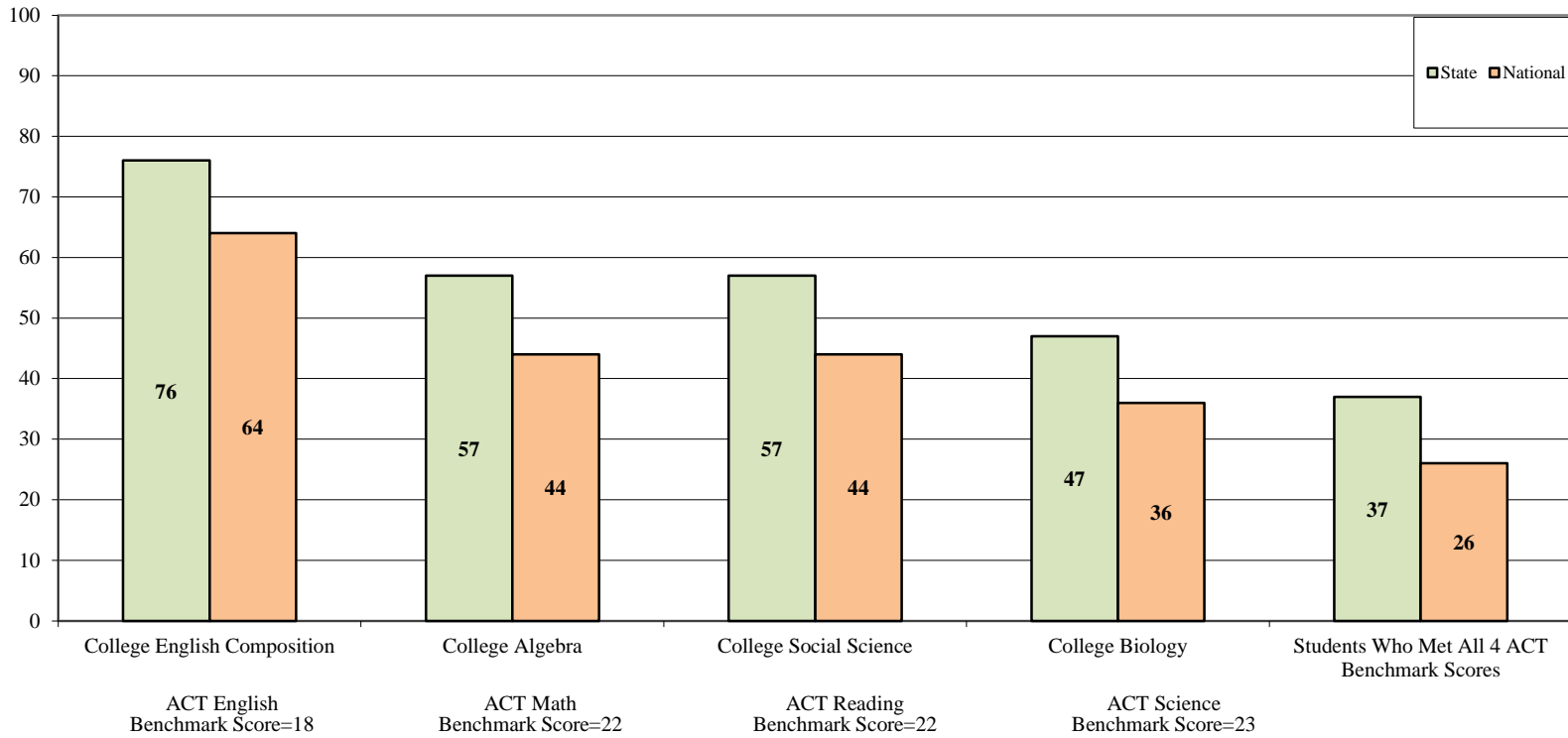
Section I

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: 22,165

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	17,902	1,480,469	74	67	49	42	59	53	33	28	27	23
2010	19,236	1,568,835	76	66	53	43	61	52	37	29	31	24
2011	20,526	1,623,112	76	66	55	45	61	52	36	30	32	25
2012	21,647	1,666,017	76	67	56	46	63	52	38	31	33	25
2013	22,165	1,799,243	76	64	57	44	57	44	47	36	37	26

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	17,902	1,480,469	21.7	20.6	21.8	21.0	22.3	21.4	21.4	20.9	21.9	21.1
2010	19,236	1,568,835	22.0	20.5	22.1	21.0	22.5	21.3	21.9	20.9	22.3	21.0
2011	20,526	1,623,112	22.1	20.6	22.2	21.1	22.7	21.3	21.8	20.9	22.3	21.1
2012	21,647	1,666,017	22.1	20.5	22.3	21.1	22.7	21.3	21.9	20.9	22.4	21.1
2013	22,165	1,799,243	22.3	20.2	22.5	20.9	23.1	21.1	22.2	20.7	22.6	20.9

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
2013	1,799,243	20.2	20.9	21.1	20.7	20.9

Total Students in Report: 22,165

Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	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	15,576	1,856	87	10	22.2	17.7	22.2	18.6	22.8	18.8	21.9	18.3	22.4	18.5
2010	17,015	1,883	88	10	22.6	17.9	22.5	18.8	23.0	19.0	22.3	18.7	22.7	18.7
2011	18,170	1,915	89	9	22.6	18.4	22.6	19.1	23.1	19.5	22.2	19.0	22.7	19.1
2012	19,276	2,029	89	9	22.5	18.3	22.7	19.1	23.1	19.5	22.3	18.7	22.8	19.0
2013	19,823	1,986	89	9	22.7	18.3	22.8	19.3	23.5	19.7	22.5	19.1	23.0	19.2

¹"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.

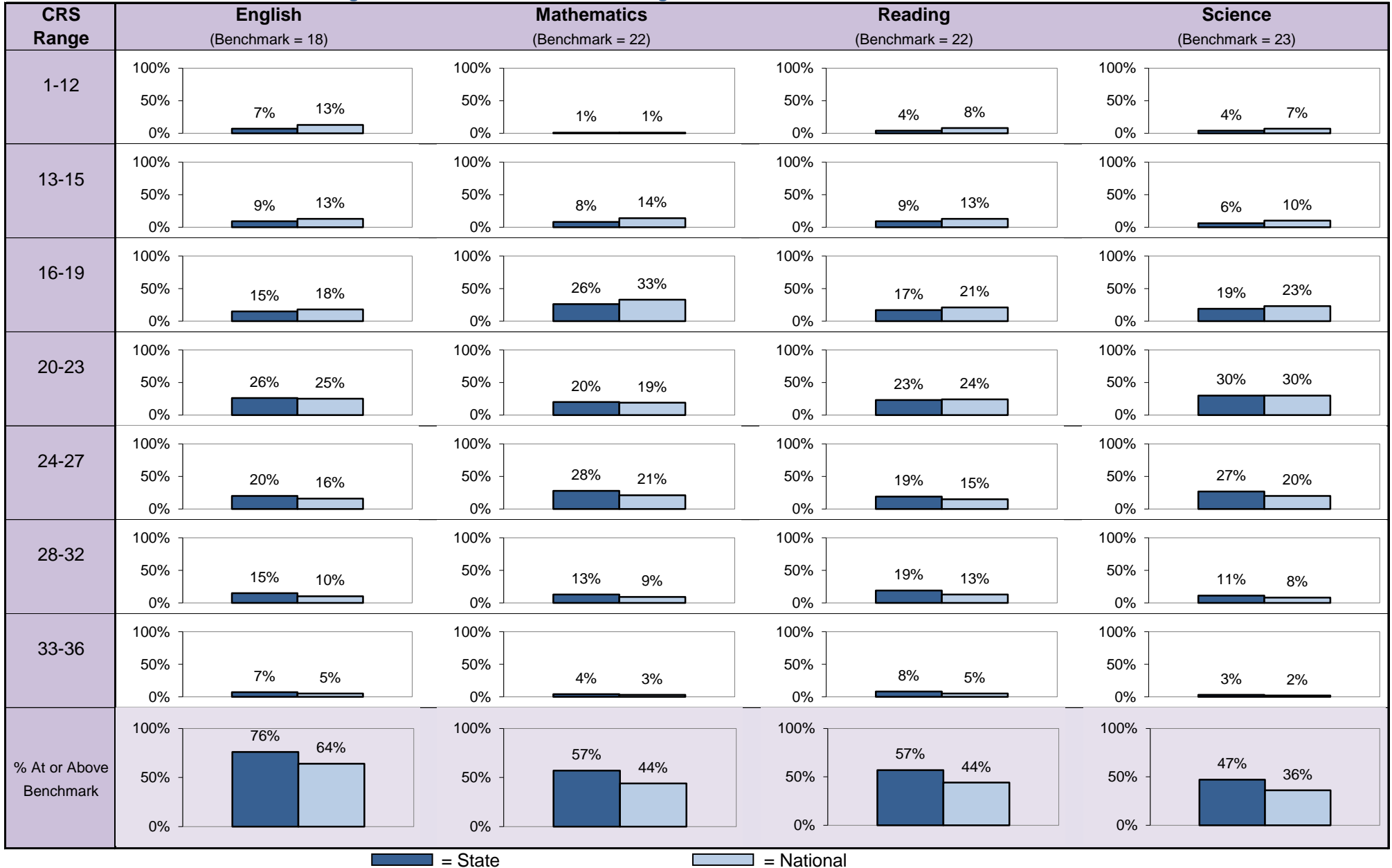
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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
All Students	17,902	100	21.9	19,236	100	22.3	20,526	100	22.3	21,647	100	22.4	22,165	100	22.6
Black/African American	3,607	20	17.6	3,765	20	17.6	4,046	20	17.7	4,202	19	17.7	3,916	18	17.8
American Indian/Alaska Native	60	0	21.6	80	0	22.0	62	0	22.0	65	0	20.6	73	0	21.4
White	10,770	60	23.1	11,779	61	23.5	12,224	60	23.7	12,534	58	23.7	12,913	58	23.9
Hispanic/Latino	722	4	21.0	818	4	21.6	1,132	6	21.4	1,353	6	21.7	1,528	7	21.8
Asian	953	5	23.6	1,132	6	24.2	1,191	6	24.4	1,234	6	24.5	1,333	6	25.1
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	31	0	23.0	60	0	23.1	47	0	22.1
Two or more races	478	3	22.1	543	3	22.6	758	4	22.2	932	4	22.5	949	4	22.4
Prefer not to respond/No response	1,312	7	23.0	1,119	6	23.0	1,082	5	23.4	1,267	6	23.5	1,406	6	23.6

Total Students in Report: 22,165

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



Total Students in Report: 22,165

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	21,694	98	22.3	22.5	23.1	22.2	22.6
	Extended Time	471	2	21.7	21.9	24.1	22.4	22.6
	Total	22,165	100	22.3	22.5	23.1	22.2	22.6
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	77	57	57	47	37
	Extended Time	73	50	62	48	38
	Total	76	57	57	47	37
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: 22,165

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP¹), and Score Averages

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	99	100	126	100	314	100	157	100	15	100	36
35	352	100	197	99	167	99	181	99	109	100	35
34	490	98	340	99	660	98	190	98	199	99	34
33	589	96	290	97	712	95	153	98	314	99	33
32	488	93	337	96	790	92	356	97	455	97	32
31	548	91	358	94	1,050	88	380	95	585	95	31
30	663	88	520	93	795	83	499	94	746	92	30
29	678	85	666	90	828	80	595	91	853	89	29
28	948	82	1,021	87	757	76	651	89	1,137	85	28
27	758	78	1,336	83	884	73	921	86	1,207	80	27
26	1,140	75	1,605	77	901	69	1,062	82	1,268	75	26
25	1,177	70	1,623	69	885	65	1,925	77	1,333	69	25
24	1,450	64	1,564	62	1,554	61	1,975	68	1,570	63	24
23	1,422	58	1,477	55	1,075	54	1,374	59	1,537	56	23
22	1,390	51	1,161	48	1,322	49	1,860	53	1,489	49	22
21	1,518	45	1,017	43	1,459	43	1,996	45	1,465	42	21
20	1,511	38	775	38	1,246	36	1,479	36	1,363	36	20
19	916	31	1,156	35	1,032	31	1,359	29	1,220	29	19
18	813	27	1,113	30	1,162	26	1,263	23	1,127	24	18
17	730	24	1,802	25	801	21	781	17	1,075	19	17
16	890	20	1,795	17	849	17	727	14	900	14	16
15	938	16	1,127	9	821	13	591	10	743	10	15
14	688	12	445	3	577	9	445	8	619	7	14
13	471	9	181	1	582	7	383	6	388	4	13
12	371	7	72	1	434	4	274	4	245	2	12
11	379	5	33	1	260	2	210	3	127	1	11
10	333	3	14	1	144	1	177	2	47	1	10
9	197	2	5	1	42	1	109	1	16	1	9
8	115	1	5	1	19	1	42	1	11	1	8
7	58	1	1	1	20	1	27	1	2	1	7
6	22	1	1	1	9	1	7	1	0	1	6
5	17	1	0	1	6	1	8	1	0	1	5
4	5	1	1	1	6	1	0	1	0	1	4
3	0	1	1	1	1	1	8	1	0	1	3
2	1	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	22.3 (6.4)		22.5 (5.4)		23.1 (6.4)		22.2 (5.3)		22.6 (5.3)		Avg (SD)

¹CP 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: 22,165

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), 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	1,161	100	538	100	916	100	1,230	100	1,420	100	246	100	324	100	18
17	1,616	95	289	98	1,738	96	1,602	94	1,353	94	444	99	69	99	17
16	1,328	87	1,655	96	1,679	88	1,847	87	1,378	87	718	97	1,126	98	16
15	1,250	81	1,872	89	1,493	80	1,974	79	2,061	81	1,768	94	1,600	93	15
14	1,568	76	2,032	80	1,457	74	1,872	70	1,761	72	2,488	86	2,103	86	14
13	1,490	69	2,190	71	1,962	67	1,771	62	2,144	64	3,065	74	2,130	76	13
12	1,882	62	2,975	61	2,506	58	1,841	54	2,179	54	2,519	61	3,337	67	12
11	2,446	54	2,085	48	1,951	47	2,037	45	2,147	45	2,516	49	2,028	52	11
10	2,243	43	1,960	38	1,805	38	1,744	36	1,736	35	2,956	38	2,277	43	10
9	1,904	32	2,078	30	1,863	30	1,341	28	1,300	27	1,820	25	2,620	32	9
8	1,362	24	1,586	20	1,598	22	1,666	22	1,781	21	1,685	16	1,805	21	8
7	1,315	18	979	13	1,570	14	1,106	15	1,717	13	856	9	1,107	12	7
6	934	12	748	9	772	7	918	10	679	5	469	5	737	7	6
5	736	8	602	5	407	4	780	5	326	2	269	3	244	4	5
4	500	4	363	3	195	2	314	2	122	1	146	2	404	3	4
3	306	2	153	1	122	1	82	1	49	1	125	1	44	1	3
2	114	1	51	1	88	1	35	1	9	1	12	1	140	1	2
1	10	1	9	1	43	1	5	1	3	1	63	1	70	1	1
Avg (SD)	11.3 (3.9)		11.4 (3.3)		11.7 (3.7)		11.9 (3.8)		12.0 (3.6)		11.4 (2.9)		11.0 (3.1)		Avg (SD)

¹CP 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)	27	26	28	25	27
Q2 (50th Percentile)	22	23	23	22	23
Q1 (25th Percentile)	18	18	18	19	19

Total Students in Report: 22,165

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 ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	22,165	89	23.0	19.2
	Black/African American	3,916	82	18.2	15.7
	American Indian/Alaska Native	73	93	21.5	19.3
	White	12,913	92	24.1	21.2
	Hispanic/Latino	1,528	89	22.1	19.3
	Asian	1,333	92	25.2	23.2
	Native Hawaiian/Other Pac. Isl.	47	89	22.6	18.0
	Two or more races	949	90	22.8	18.8
	Prefer not/No Response	1,406	84	24.2	20.9
National	All Students	1,799,243	74	21.7	18.7
	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

¹"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	22.3	22.5	23.1	22.2	22.6
	Black/African American	16.8	18.1	18.0	17.8	17.8
	American Indian/Alaska Native	21.3	20.6	21.8	21.3	21.4
	White	23.8	23.4	24.5	23.3	23.9
	Hispanic/Latino	21.3	21.7	22.4	21.4	21.8
	Asian	24.3	26.7	24.5	24.3	25.1
	Native Hawaiian/Other Pac. Isl.	21.3	22.6	22.0	21.7	22.1
	Two or more races	22.0	22.0	22.9	22.1	22.4
	Prefer not/No Response	23.4	23.4	24.2	22.9	23.6
National	All Students	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: 22,165

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	1,530	7	953	4	1,853	8	681	3
	28 to 32	3,325	15	2,902	13	4,220	19	2,481	11
	24 to 27	4,525	20	6,128	28	4,224	19	5,883	27
	20 to 23	5,841	26	4,430	20	5,102	23	6,709	30
	16 to 19	3,349	15	5,866	26	3,844	17	4,130	19
	13 to 15	2,097	9	1,753	8	1,980	9	1,419	6
	01 to 12	1,498	7	133	1	942	4	862	4
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	9,713	44	21.8	23.1	22.9	22.7	22.8
	Females	12,452	56	22.7	22.0	23.3	21.8	22.6
	Missing	0	0
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	74	61	56	52	40
	Females	78	54	58	43	35
National	Males	62	47	43	40	29
	Females	67	41	45	33	24

Total Students in Report: 22,165

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ⁴	Avg
State	Core or More ²	19,823	79	22.7	60	22.8	60	23.5	49	22.5	39	23.0
	Less than Core	1,986	49	18.3	31	19.3	35	19.7	25	19.1	18	19.2
	Missing ³	356	65	20.1	42	20.8	49	21.7	37	20.9	28	21.0
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

¹ "Curriculum Taken" reflects overall high school curriculum in this table.

² "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.

³ Zero years or no coursework information reported in one or more content areas.

⁴ 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 ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More ²	21,566	77	22.4	21,303	58	22.7	21,174	58	23.1	20,714	49	22.4
	Less than Core	252	61	19.3	512	7	16.3	643	52	22.4	1,097	16	17.6
	Missing ³	347	65	20.2	350	42	20.8	348	50	21.8	354	37	21.0
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

¹ "Curriculum Taken" reflects content-specific curriculum in this table.

² "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.

³ 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

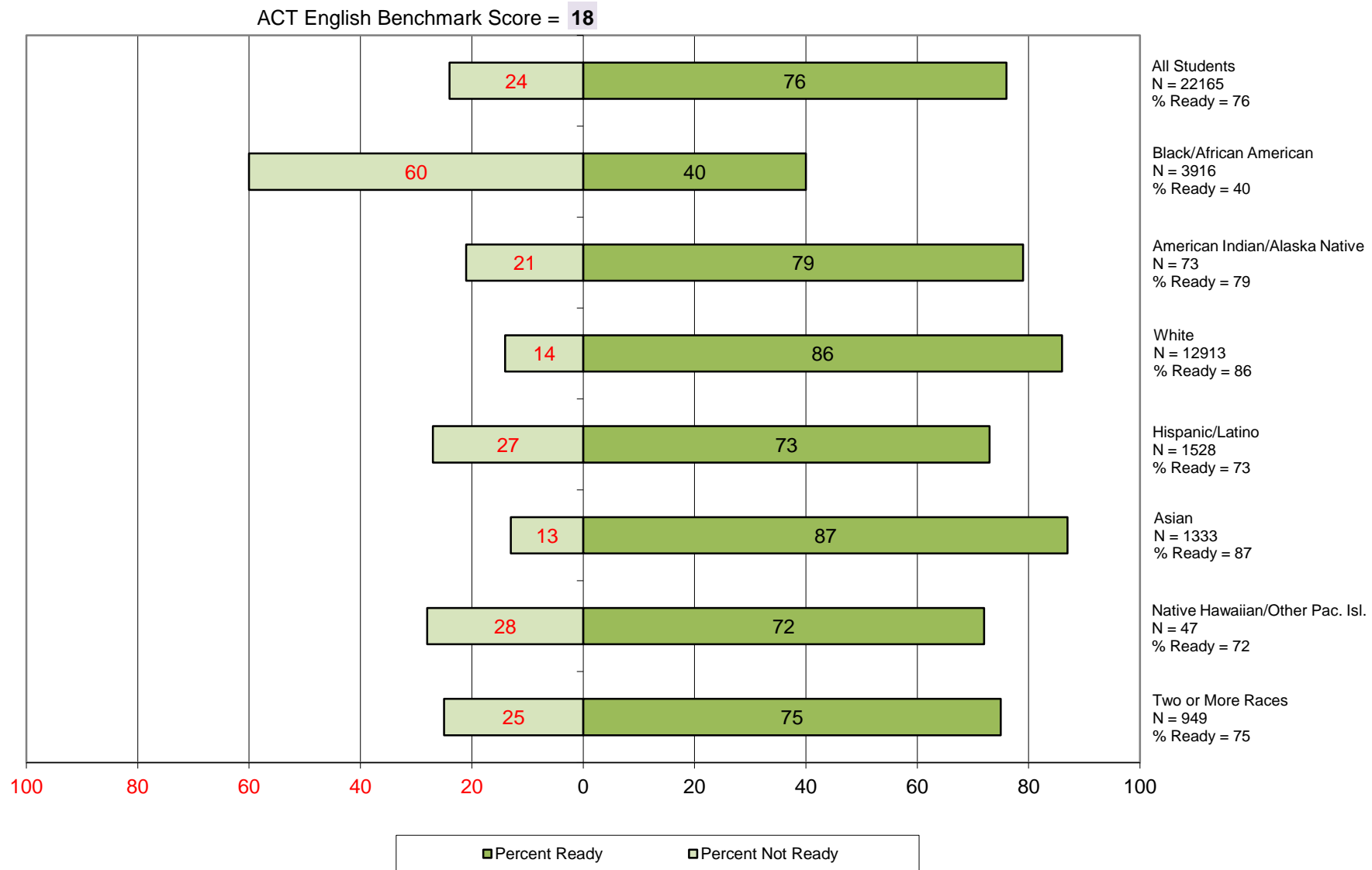


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

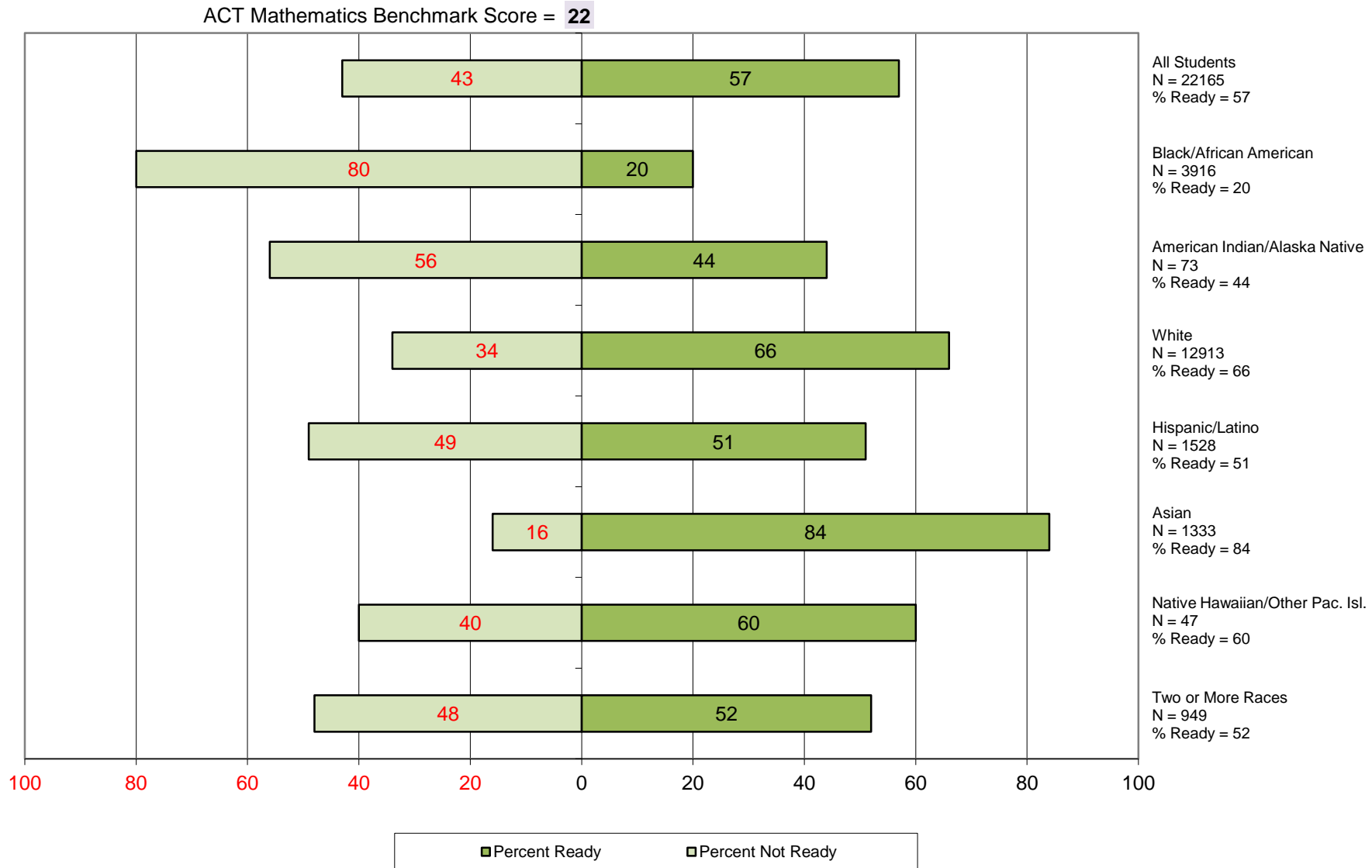


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

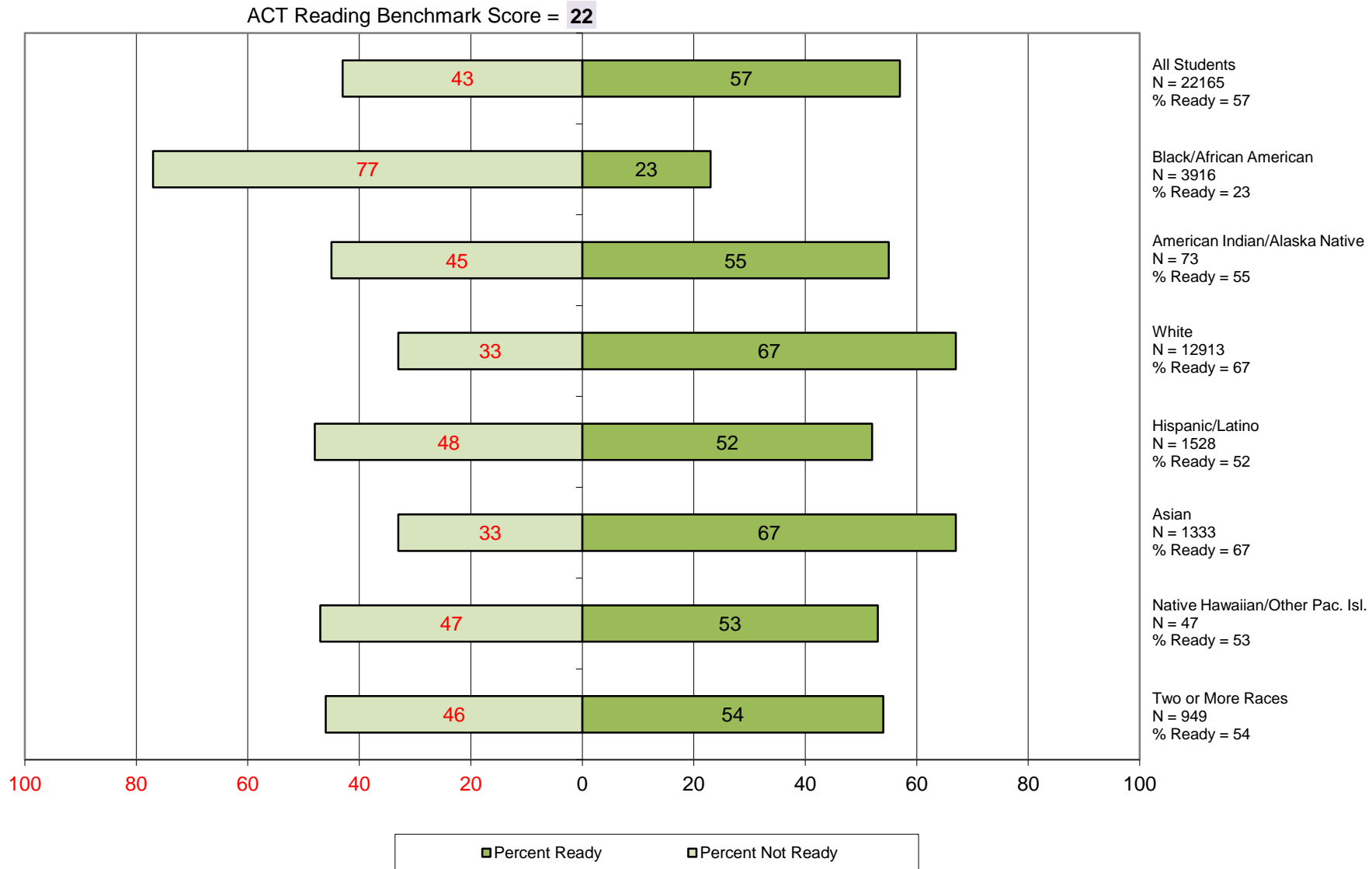
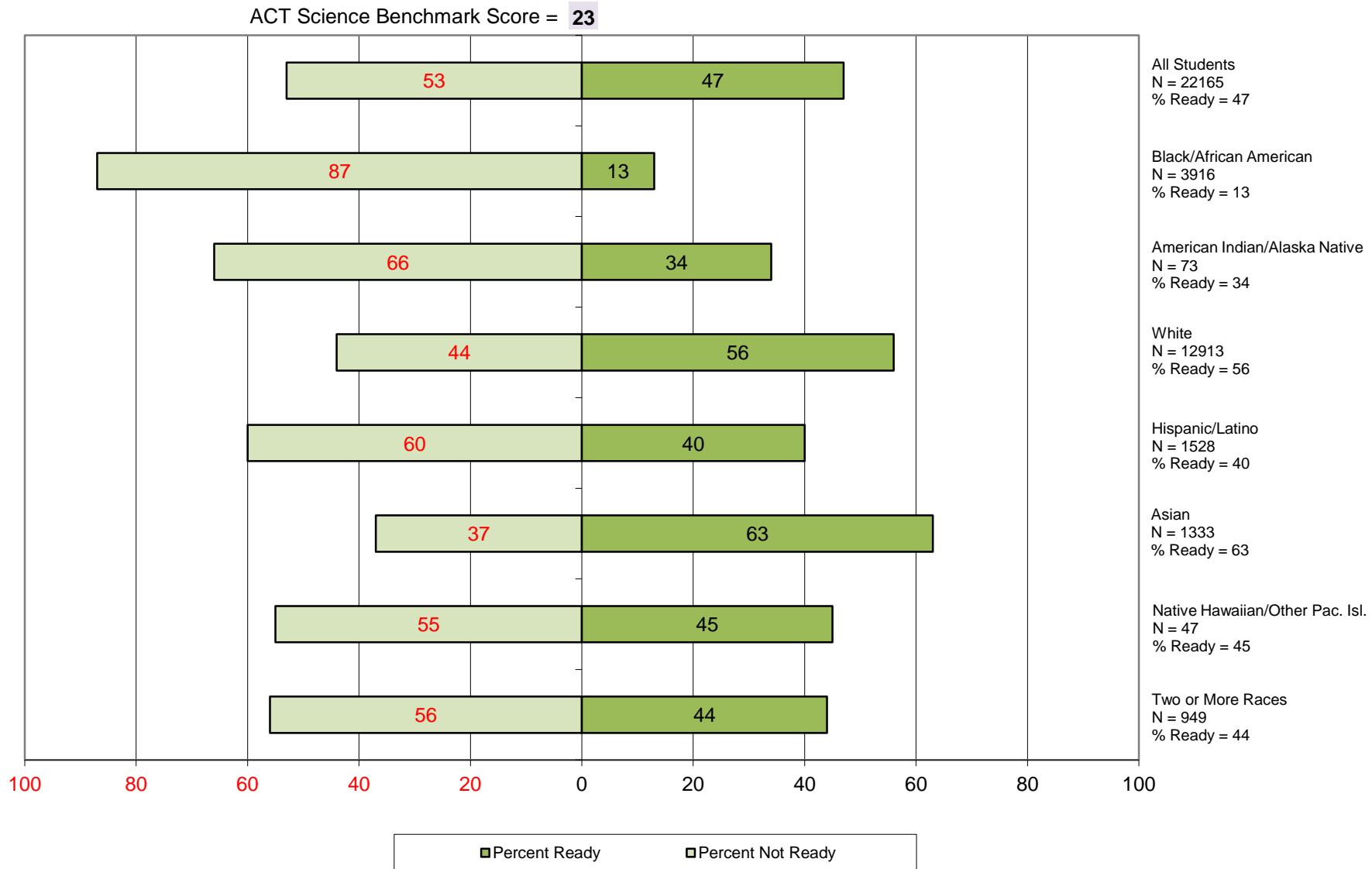
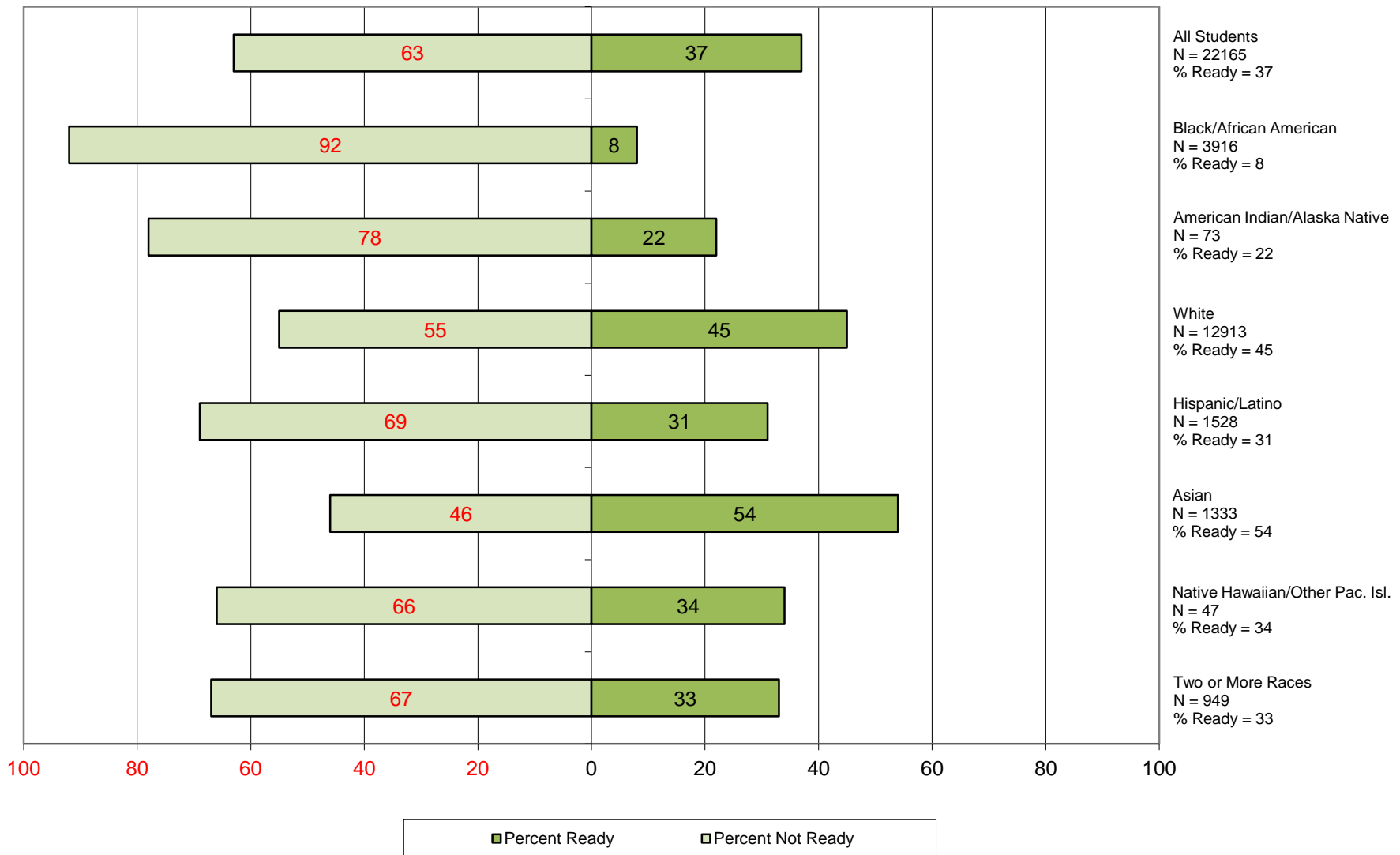


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE



Total Students in Report: 22,165

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



Total Students in Report: 22,165

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 ¹	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	4,226	19	22.9	3.6	1,691	17	22.4	3.9	2,535	20	23.3	3.4
Eng 9, Eng 10, Eng 11, Eng 12	17,340	78	22.2	2.9	7,693	79	21.8	3.3	9,647	77	22.6	2.7
Less than 4 years of English	252	1	19.3	-	114	1	18.5	-	138	1	19.9	-
Zero years / no English courses reported	347	2	20.2	-	215	2	19.8	-	132	1	21.0	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	2,177	10	25.0	8.7	877	9	25.5	9.2	1,300	10	24.6	8.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,883	13	21.8	5.5	1,021	11	22.3	6.0	1,862	15	21.6	5.3
Alg 1, Alg 2, Geom, & Trig	1,560	7	19.6	3.3	621	6	20.3	4.0	939	8	19.2	2.9
Alg 1, Alg 2, Geom, & Other Adv Math	2,768	12	19.8	3.5	974	10	20.2	3.9	1,794	14	19.6	3.3
Other comb of 4 or more years of Math	9,398	42	25.0	8.7	4,584	47	25.6	9.3	4,814	39	24.5	8.2
Alg 1, Alg 2, & Geom	1,820	8	17.0	0.7	823	8	17.1	0.8	997	8	16.8	0.5
Other comb of 3 or 3.5 years of Math	697	3	20.2	3.9	344	4	20.1	3.8	353	3	20.3	4.0
Less than 3 years of Math	512	2	16.3	-	254	3	16.3	-	258	2	16.3	-
Zero years / no Math courses reported	350	2	20.8	-	215	2	20.8	-	135	1	20.8	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,615	12	23.4	1.0	1,275	13	23.1	1.4	1,340	11	23.7	0.7
Other comb of 4 or more years Social Science	9,806	44	23.5	1.1	4,264	44	23.4	1.7	5,542	45	23.6	0.6
US Hist, World Hist, & Am Gov	3,212	14	22.0	-0.4	1,387	14	21.6	-0.1	1,825	15	22.3	-0.7
Other comb of 3 or 3.5 years of Social Science	5,541	25	23.1	0.7	2,275	23	22.9	1.2	3,266	26	23.3	0.3
Less than 3 years of Social Science	643	3	22.4	-	297	3	21.7	-	346	3	23.0	-
Zero years / no Social Science courses reported	348	2	21.8	-	215	2	21.3	-	133	1	22.7	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	12,284	55	23.3	5.7	5,823	60	23.9	6.5	6,461	52	22.7	4.8
Bio, Chem, Phys	2,067	9	25.1	7.5	855	9	26.1	8.7	1,212	10	24.5	6.6
Gen Sci ² , Bio, Chem	6,028	27	20.0	2.4	2,108	22	20.0	2.6	3,920	31	20.0	2.1
Other comb of 3 years of Natural Science	335	2	19.2	1.6	172	2	19.8	2.4	163	1	18.6	0.7
Less than 3 years of Natural Science	1,097	5	17.6	-	536	6	17.4	-	561	5	17.9	-
Zero years / no Natural Science courses reported	354	2	21.0	-	219	2	20.8	-	135	1	21.2	-

¹Course 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.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 22,165

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
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	4,226	19	22.9	80	380,375	21	21.6	73
Eng 9, Eng 10, Eng 11, Eng 12	17,340	78	22.2	76	1,265,911	70	20.3	65
Less than 4 years of English	252	1	19.3	61	84,048	5	15.9	36
Zero years / no English courses reported	347	2	20.2	65	68,909	4	16.4	38
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	2,177	10	25.0	80	113,999	6	23.8	68
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,883	13	21.8	55	155,095	9	21.9	56
Alg 1, Alg 2, Geom, & Trig	1,560	7	19.6	34	119,993	7	19.4	32
Alg 1, Alg 2, Geom, & Other Adv Math	2,768	12	19.8	35	336,291	19	19.6	32
Other comb of 4 or more years of Math	9,398	42	25.0	76	610,720	34	23.6	65
Alg 1, Alg 2, & Geom	1,820	8	17.0	10	223,733	12	17.2	11
Other comb of 3 or 3.5 years of Math	697	3	20.2	39	88,866	5	19.7	34
Less than 3 years of Math	512	2	16.3	7	77,906	4	16.3	7
Zero years / no Math courses reported	350	2	20.8	42	72,640	4	17.9	20
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,615	12	23.4	60	50,989	3	22.2	51
Other comb of 4 or more years Social Science	9,806	44	23.5	60	908,394	50	22.0	50
US Hist, World Hist, & Am Gov	3,212	14	22.0	49	106,021	6	19.5	34
Other comb of 3 or 3.5 years of Social Science	5,541	25	23.1	57	489,586	27	21.0	43
Less than 3 years of Social Science	643	3	22.4	52	171,617	10	19.1	32
Zero years / no Social Science courses reported	348	2	21.8	50	72,636	4	17.7	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	12,284	55	23.3	56	767,293	43	21.9	46
Bio, Chem, Phys	2,067	9	25.1	72	183,685	10	23.0	54
Gen Sci ¹ , Bio, Chem	6,028	27	20.0	28	504,165	28	19.9	28
Other comb of 3 years of Natural Science	335	2	19.2	27	51,822	3	19.1	25
Less than 3 years of Natural Science	1,097	5	17.6	16	218,267	12	18.0	17
Zero years / no Natural Science courses reported	354	2	21.0	37	74,011	4	17.8	18

¹Includes 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: 22,165

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 ¹	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp
Agriculture & Natural Resources Conservation	204	1	21.4	5	2	19.0	182	1	21.5
Architecture	223	1	22.8	1	0	13.0	189	1	22.8
Area, Ethnic, & Multidisciplinary Studies	40	0	24.5	0	0	.	35	0	24.2
Arts: Visual & Performing	1,134	5	21.7	20	10	17.6	996	5	21.8
Business	2,430	11	21.8	40	20	18.2	2,126	11	21.8
Communications	592	3	21.5	4	2	20.5	528	3	21.4
Community, Family, & Personal Services	250	1	18.8	4	2	15.5	232	1	18.9
Computer Science & Mathematics	682	3	23.6	4	2	16.8	615	3	23.6
Education	1,087	5	21.1	3	1	17.0	976	5	21.0
Engineering	2,155	10	25.2	11	5	18.2	1,919	10	25.2
Engineering Technology & Drafting	216	1	20.7	7	3	15.9	187	1	20.7
English & Foreign Languages	334	2	24.8	0	0	.	308	2	24.7
Health Administration & Assisting	435	2	18.4	14	7	15.1	393	2	18.6
Health Sciences & Technologies	3,478	16	22.0	40	20	17.1	3,141	16	22.0
Philosophy, Religion, & Theology	99	0	22.5	3	1	18.7	88	0	22.7
Repair, Production, & Construction	29	0	19.9	7	3	19.9	19	0	20.0
Sciences: Biological & Physical	2,161	10	24.5	1	0	13.0	1,939	10	24.4
Social Sciences & Law	2,197	10	22.7	7	3	15.0	1,979	10	22.7
Undecided	4,119	19	22.8	31	15	17.5	3,188	17	22.9
No Response	300	1	20.7	0	0	.	52	0	24.3

¹2-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.

²Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 22,165

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	68	18.3	31	15.6	0	.	17	21.1	8	18.1
2-yr College Degree	134	16.9	45	14.7	1	19.0	71	18.1	6	15.8
Bachelors Degree	8,408	20.8	1,715	16.5	26	19.5	5,086	22.1	532	19.8
Graduate Study	5,435	24.2	635	19.3	18	23.1	3,578	25.0	361	23.6
Prof. Level Degree	5,249	24.3	1,026	19.6	23	22.4	2,639	25.8	466	22.9
Other	208	20.0	66	15.6	0	.	76	22.7	16	20.0
No Response	2,663	22.9	398	17.1	5	20.4	1,446	24.2	139	21.9

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	68	18.3	4	21.0	1	29.0	5	18.8	2	24.0
2-yr College Degree	134	16.9	2	20.0	0	.	8	18.4	1	21.0
Bachelors Degree	8,408	20.8	310	22.4	19	18.3	374	20.6	346	21.7
Graduate Study	5,435	24.2	269	25.1	16	24.6	214	24.0	344	24.7
Prof. Level Degree	5,249	24.3	529	26.3	10	24.8	243	24.2	313	25.9
Other	208	20.0	12	22.5	0	.	18	20.9	20	22.0
No Response	2,663	22.9	207	26.2	1	21.0	87	21.8	380	22.5

Total Students in Report: 22,165

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
JAMES MADISON UNIVERSITY	Virginia	3,082	967	2,115	0	3	15	35	32	15	1
VIRGINIA TECH	Virginia	2,741	989	1,752	0	2	9	27	35	23	3
VIRGINIA COMMONWEALTH UNIVERSITY	Virginia	2,139	572	1,567	2	8	25	33	22	9	1
UNIVERSITY OF VIRGINIA	Virginia	2,079	679	1,400	0	2	5	18	33	36	6
GEORGE MASON UNIVERSITY	Virginia	1,775	420	1,355	1	4	20	37	26	11	1
OLD DOMINION UNIVERSITY	Virginia	1,715	459	1,256	4	15	35	31	12	4	0
CHRISTOPHER NEWPORT UNIVERSITY	Virginia	1,404	361	1,043	1	5	19	37	28	10	0
RADFORD UNIVERSITY	Virginia	1,251	357	894	2	10	36	35	14	3	0
COLLEGE OF WILLIAM AND MARY	Virginia	1,054	297	757	0	1	5	17	34	38	4
LONGWOOD UNIVERSITY	Virginia	837	215	622	2	6	31	36	20	4	0
NORFOLK STATE UNIVERSITY	Virginia	646	216	430	12	34	40	13	1	1	0
UNIVERSITY OF MARY WASHINGTON	Virginia	644	129	515	1	4	16	35	31	14	1
LIBERTY UNIVERSITY	Virginia	527	258	269	3	10	25	31	22	8	1
VIRGINIA STATE UNIVERSITY	Virginia	512	130	382	13	35	38	13	2	0	0
NCAA ELIGIBILITY CENTER	Indiana	442	272	170	2	17	30	25	17	7	0
UNIVERSITY OF RICHMOND	Virginia	346	78	268	1	7	12	26	29	22	3
HAMPTON UNIVERSITY	Virginia	320	83	237	6	23	38	26	7	1	0
VIRGINIA MILITARY INSTITUTE	Virginia	302	133	169	1	4	24	34	25	11	0
UNIV OF NORTH CAROLINA AT CHAPEL HILL	North Carolina	294	64	230	0	3	7	19	30	36	5
UNIV OF SOUTH CAROLINA-COLUMBIA	South Carolina	294	95	199	0	1	6	33	42	18	1
WEST VIRGINIA UNIVERSITY	West Virginia	286	98	188	0	8	24	36	20	10	1
LYNCHBURG COLLEGE	Virginia	281	44	237	5	7	31	36	16	4	0
BRIDGEWATER COLLEGE	Virginia	250	61	189	2	8	30	36	19	5	0
EAST CAROLINA UNIVERSITY	North Carolina	248	56	192	2	8	26	38	22	4	0
FERRUM COLLEGE	Virginia	241	88	153	5	24	41	22	9	1	0
ROANOKE COLLEGE	Virginia	229	65	164	1	8	17	35	28	10	0
RANDOLPH-MACON COLLEGE	Virginia	224	43	181	2	10	30	32	20	5	0
DUKE UNIVERSITY	North Carolina	219	81	138	0	1	7	10	24	45	14
UNITED STATES NAVAL ACADEMY	Maryland	203	118	85	0	2	8	24	30	34	1
NORTH CAROLINA STATE UNIV AT RALEIGH	North Carolina	200	32	168	0	3	8	28	39	21	3
All Other Institutions		13,341	3,662	9,679	2	8	19	24	24	20	4
Total		38,126	11,122	27,004	2	7	20	28	25	17	2

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: 22,165

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
All Students	15,514	942,769	23.3	21.3	7.2	7.0	22.2	20.5
Black/African American	2,352	114,751	17.6	16.3	6.3	6.1	17.2	16.0
American Indian/Alaska Native	48	6,031	22.0	16.8	7.1	6.1	21.1	16.4
White	9,153	518,407	24.6	22.9	7.4	7.2	23.3	21.9
Hispanic/Latino	1,117	151,504	22.2	18.6	7.3	6.8	21.4	18.3
Asian	1,091	54,580	25.1	23.5	7.7	7.6	24.0	22.7
Native Hawaiian/Other Pac. Isl.	33	2,812	23.0	19.5	7.1	6.9	21.9	19.2
Two or more races	668	35,355	23.2	21.5	7.1	7.0	22.0	20.6
Prefer not/No Response	1,052	59,329	24.3	21.8	7.4	7.1	23.1	20.9
Males	6,568	423,104	23.0	21.0	7.0	6.7	21.8	20.1
Females	8,946	513,945	23.6	21.6	7.4	7.2	22.5	20.9
Missing	0	5,720	.	16.6	.	6.3	.	16.5

