

ACT Profile Report - State

Graduating Class 2014

Virginia



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This report provides information about the performance of your 2014 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2014. Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included in the report.

This report focuses on:

Performance - student test performance in the context of college readiness

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

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

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

Awareness - extent to which student aspirations match performance

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

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

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

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

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

The ACT:

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

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

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

How to Improve Scores and Increase College Readiness

38% 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: 22,977 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. 91% 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, 10% were college ready. 7% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 10% of these students were college ready. In comparison, 62% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 4% of the cohort took less than three years of natural science courses. 18% of these students were college ready. In comparison, 51% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES: Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 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

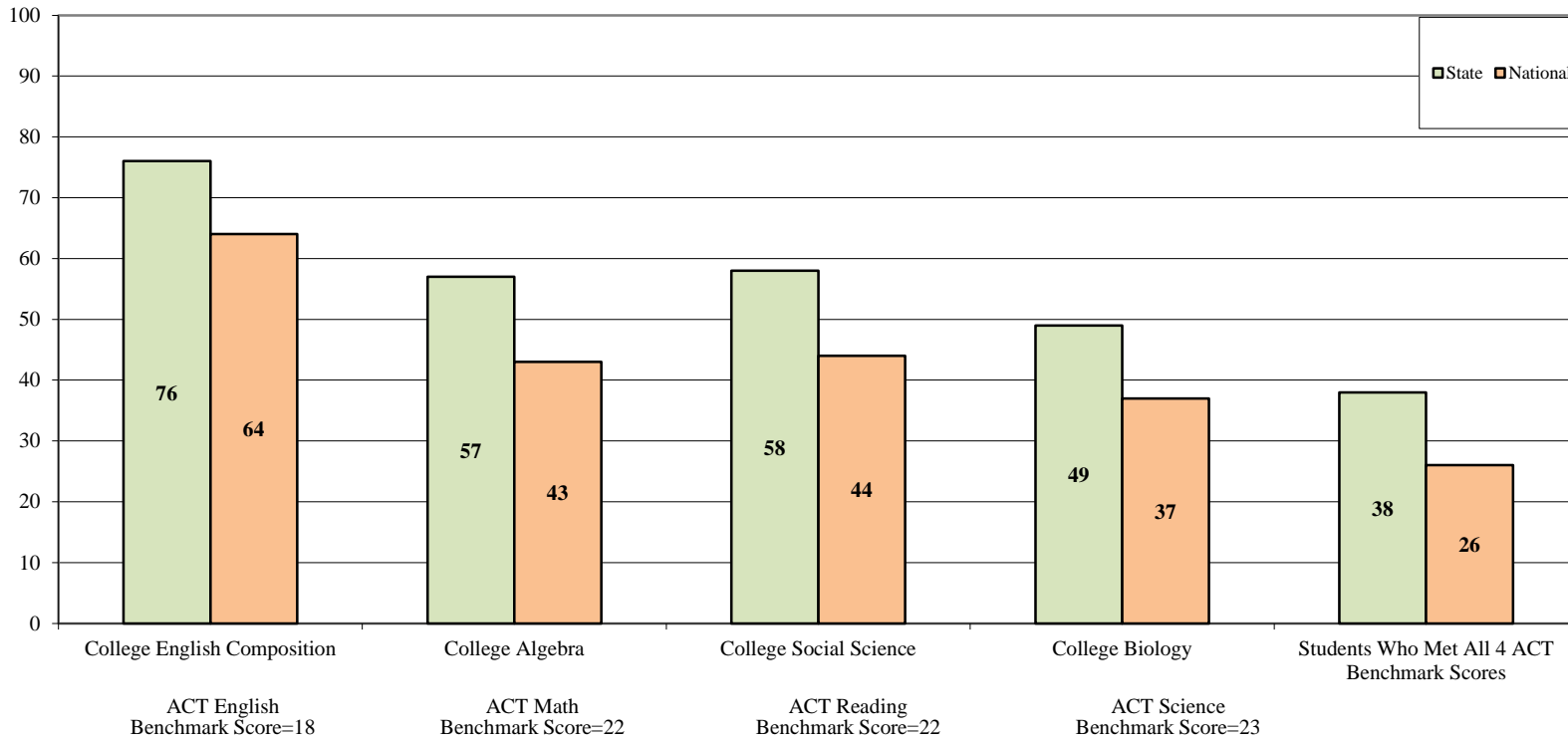
Executive Summary

Beginning in August of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

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

To find the results of only standard time or extended time test takers, refer to Tables 1.7 and 1.8 on page 10.

Figure 1.1. Percent of Your Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

Total Students in Report: 22,977

Table 1.1. Five Year Trends—Percent of Students Who Met College Readiness Benchmarks

Year	Number of Students Tested		Percent Who Met Benchmarks									
			English		Mathematics		Reading		Science		Met All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2010	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
2014	22,977	1,845,787	76	64	57	43	58	44	49	37	38	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
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
2014	22,977	1,845,787	22.4	20.3	22.7	20.9	23.4	21.3	22.4	20.8	22.8	21.0

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
2011	1,623,112	20.6	21.1	21.3	20.9	21.1
2012	1,666,017	20.5	21.1	21.3	20.9	21.1
2013	1,799,243	20.2	20.9	21.1	20.7	20.9
2014	1,845,787	20.3	20.9	21.3	20.8	21.0

Total Students in Report: 22,977

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
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
2014	20,801	1,900	91	8	22.7	18.8	23.0	19.6	23.7	20.2	22.7	19.4	23.1	19.6

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.

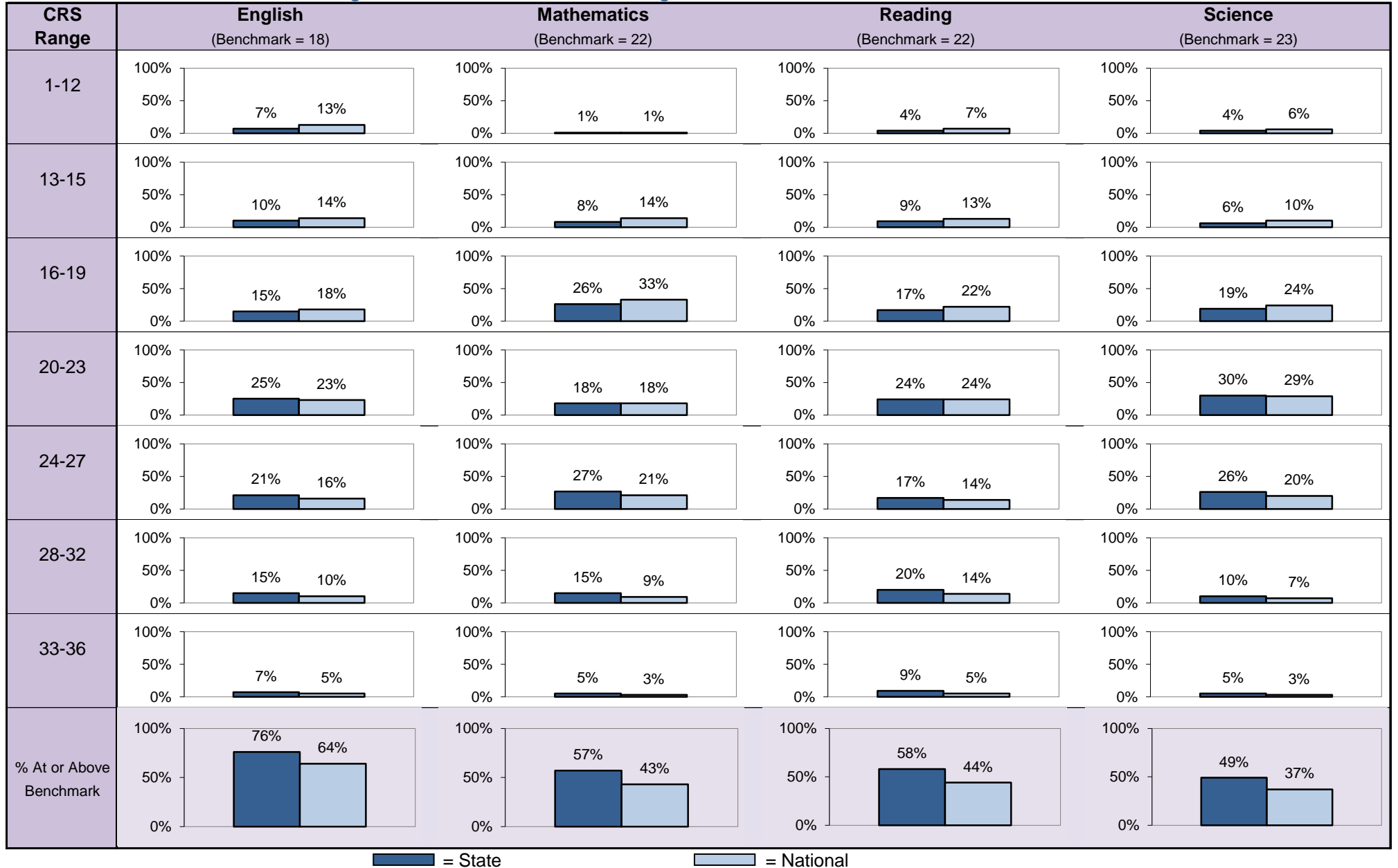
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2010			2011			2012			2013			2014		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	19,236	100	22.3	20,526	100	22.3	21,647	100	22.4	22,165	100	22.6	22,977	100	22.8
Black/African American	3,765	20	17.6	4,046	20	17.7	4,202	19	17.7	3,916	18	17.8	3,969	17	17.9
American Indian/Alaska Native	80	0	22.0	62	0	22.0	65	0	20.6	73	0	21.4	66	0	20.6
White	11,779	61	23.5	12,224	60	23.7	12,534	58	23.7	12,913	58	23.9	13,202	57	24.0
Hispanic/Latino	818	4	21.6	1,132	6	21.4	1,353	6	21.7	1,528	7	21.8	1,652	7	21.9
Asian	1,132	6	24.2	1,191	6	24.4	1,234	6	24.5	1,333	6	25.1	1,515	7	25.0
Native Hawaiian/Other Pacific Islander	0	0	.	31	0	23.0	60	0	23.1	47	0	22.1	47	0	22.9
Two or more races	543	3	22.6	758	4	22.2	932	4	22.5	949	4	22.4	1,107	5	22.8
Prefer not to respond/No response	1,119	6	23.0	1,082	5	23.4	1,267	6	23.5	1,406	6	23.6	1,419	6	24.0

Total Students in Report: 22,977

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



Total Students in Report: 22,977

Table 1.7. Average ACT College Reportable Scores by Test Session Duration

Student Group	Test Session Duration	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Standard Time	22,466	98	22.4	22.7	23.3	22.4	22.8
	Extended Time	511	2	21.9	21.6	24.2	22.6	22.7
	Total	22,977	100	22.4	22.7	23.4	22.4	22.8
National	Standard Time	1,769,033	96	20.5	21.0	21.4	20.9	21.1
	Extended Time	76,754	4	16.2	17.8	18.5	18.1	17.8
	Total	1,845,787	100	20.3	20.9	21.3	20.8	21.0

Table 1.8. Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration

Student Group	Test Session Duration	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Standard Time	76	58	57	49	38
	Extended Time	75	50	63	51	40
	Total	76	57	58	49	38
National	Standard Time	65	44	45	37	27
	Extended Time	37	21	30	21	15
	Total	64	43	44	37	26

Section II

Academic Achievement

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

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

Total Students in Report: 22,977

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	85	100	123	100	264	100	239	100	26	100	36
35	497	100	290	99	348	99	261	99	134	100	35
34	564	97	350	98	682	97	344	98	273	99	34
33	566	95	389	97	789	94	280	96	418	98	33
32	491	93	344	95	1,042	91	268	95	486	96	32
31	498	90	355	93	938	86	519	94	647	94	31
30	803	88	547	92	953	82	487	92	761	91	30
29	738	85	960	90	864	78	330	90	985	88	29
28	823	82	1,153	85	891	74	717	88	1,162	84	28
27	965	78	1,251	80	875	71	1,277	85	1,187	79	27
26	1,132	74	1,626	75	881	67	1,070	79	1,330	74	26
25	1,324	69	1,658	68	940	63	1,843	75	1,450	68	25
24	1,499	63	1,726	61	1,203	59	1,812	67	1,508	61	24
23	1,217	57	1,378	53	1,393	54	1,862	59	1,559	55	23
22	1,516	51	1,056	47	1,172	47	2,008	51	1,583	48	22
21	1,547	45	884	43	1,903	42	1,426	42	1,461	41	21
20	1,394	38	931	39	1,051	34	1,606	36	1,403	35	20
19	1,056	32	1,039	35	1,311	30	1,633	29	1,296	29	19
18	791	27	1,419	30	955	24	1,056	22	1,142	23	18
17	715	24	1,738	24	942	20	912	17	1,035	18	17
16	863	21	1,821	16	699	16	703	13	935	14	16
15	1,112	17	1,146	8	745	13	533	10	734	10	15
14	700	12	446	3	690	9	494	8	578	6	14
13	474	9	207	2	527	6	368	6	421	4	13
12	418	7	81	1	417	4	279	4	231	2	12
11	434	5	34	1	275	2	253	3	124	1	11
10	309	3	14	1	105	1	175	2	70	1	10
9	208	2	8	1	44	1	94	1	21	1	9
8	115	1	1	1	11	1	51	1	13	1	8
7	69	1	1	1	39	1	31	1	3	1	7
6	30	1	0	1	13	1	19	1	0	1	6
5	15	1	1	1	4	1	15	1	1	1	5
4	6	1	0	1	6	1	7	1	0	1	4
3	3	1	0	1	2	1	2	1	0	1	3
2	0	1	0	1	3	1	1	1	0	1	2
1	0	1	0	1	0	1	2	1	0	1	1
Avg (SD)	22.4 (6.5)		22.7 (5.5)		23.4 (6.4)		22.4 (5.5)		22.8 (5.4)		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: 22,977

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	1,391	100	373	100	919	100	1,242	100	1,319	100	326	100	294	100	18
17	1,799	94	632	98	1,857	96	2,346	95	1,397	94	518	99	206	99	17
16	1,317	86	1,367	96	2,025	88	2,034	84	1,721	88	892	96	1,277	98	16
15	1,442	80	2,201	90	1,359	79	1,654	76	1,636	81	1,918	92	1,833	92	15
14	1,278	74	2,194	80	2,242	73	1,558	68	2,138	74	2,651	84	1,981	84	14
13	1,954	69	2,480	71	1,909	63	1,960	62	2,565	64	2,742	73	2,565	76	13
12	1,764	60	2,406	60	2,034	55	2,025	53	2,632	53	3,148	61	2,438	65	12
11	2,209	52	2,618	49	1,893	46	1,951	44	1,614	42	1,990	47	2,897	54	11
10	2,317	43	2,050	38	1,969	38	1,630	36	1,501	35	3,243	38	2,509	41	10
9	1,970	33	2,072	29	1,696	29	2,308	29	1,660	28	1,798	24	2,742	30	9
8	1,425	24	1,638	20	1,989	22	1,231	19	1,874	21	1,652	16	1,728	18	8
7	1,172	18	926	13	1,283	13	1,148	13	1,605	13	934	9	1,009	11	7
6	1,083	13	727	9	947	8	707	8	794	6	571	5	522	7	6
5	920	8	630	6	451	4	782	5	340	2	261	3	362	4	5
4	515	4	453	3	160	2	278	2	119	1	125	1	262	3	4
3	292	2	152	1	107	1	84	1	50	1	164	1	156	2	3
2	114	1	52	1	87	1	35	1	11	1	1	1	97	1	2
1	15	1	6	1	50	1	4	1	1	1	43	1	99	1	1
Avg (SD)	11.4 (4.0)		11.4 (3.3)		11.8 (3.7)		12.1 (3.8)		12.0 (3.5)		11.5 (3.0)		11.2 (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	27	29	26	27
Q2 (50th Percentile)	22	23	23	22	23
Q1 (25th Percentile)	18	18	19	19	19

Total Students in Report: 22,977

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	22,977	91	23.1	19.6
	Black/African American	3,969	84	18.4	15.5
	American Indian/Alaska Native	66	89	21.2	16.2
	White	13,202	93	24.2	22.1
	Hispanic/Latino	1,652	91	22.1	19.6
	Asian	1,515	93	25.2	22.5
	Native Hawaiian/Other Pac. Isl.	47	96	23.1	19.0
	Two or more races	1,107	92	23.1	19.9
	Prefer not/No Response	1,419	84	24.5	20.9
National	All Students	1,845,787	73	21.8	18.9
	Black/African American	241,678	68	17.6	15.7
	American Indian/Alaska Native	14,263	62	19.0	16.5
	White	1,038,435	76	23.1	20.2
	Hispanic/Latino	281,216	71	19.5	17.3
	Asian	80,370	79	24.2	21.6
	Native Hawaiian/Other Pac. Isl.	5,676	65	20.0	16.6
	Two or more races	70,013	74	22.0	19.2
	Prefer not/No Response	114,136	56	22.6	18.5

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	22.4	22.7	23.4	22.4	22.8
	Black/African American	16.8	18.2	18.4	17.9	17.9
	American Indian/Alaska Native	19.8	20.4	21.3	20.0	20.6
	White	23.8	23.6	24.7	23.5	24.0
	Hispanic/Latino	21.2	21.9	22.4	21.5	21.9
	Asian	24.3	26.6	24.2	24.4	25.0
	Native Hawaiian/Other Pac. Isl.	22.9	22.6	23.4	22.0	22.9
	Two or more races	22.5	22.5	23.4	22.4	22.8
	Prefer not/No Response	23.8	23.7	24.6	23.4	24.0
National	All Students	20.3	20.9	21.3	20.8	21.0
	Black/African American	15.8	17.2	17.3	17.0	17.0
	American Indian/Alaska Native	16.6	18.1	18.4	18.3	18.0
	White	22.0	22.0	22.8	22.1	22.3
	Hispanic/Latino	17.7	19.2	19.1	18.8	18.8
	Asian	22.8	24.9	22.8	23.2	23.5
	Native Hawaiian/Other Pac. Isl.	17.5	19.2	18.7	18.6	18.6
	Two or more races	20.6	20.9	21.7	21.0	21.2
	Prefer not/No Response	20.0	20.7	21.1	20.5	20.7

Total Students in Report: 22,977

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	1,712	7	1,152	5	2,083	9	1,124	5
	28 to 32	3,353	15	3,359	15	4,688	20	2,321	10
	24 to 27	4,920	21	6,261	27	3,899	17	6,002	26
	20 to 23	5,674	25	4,249	18	5,519	24	6,902	30
	16 to 19	3,425	15	6,017	26	3,907	17	4,304	19
	13 to 15	2,286	10	1,799	8	1,962	9	1,395	6
	01 to 12	1,607	7	140	1	919	4	929	4
National	33 to 36	92,922	5	55,103	3	97,714	5	55,222	3
	28 to 32	185,768	10	174,260	9	257,722	14	128,357	7
	24 to 27	302,723	16	383,630	21	263,034	14	367,160	20
	20 to 23	431,178	23	336,283	18	445,726	24	542,581	29
	16 to 19	330,518	18	616,601	33	409,685	22	448,064	24
	13 to 15	264,127	14	266,401	14	240,948	13	186,262	10
	01 to 12	238,551	13	13,509	1	130,958	7	118,141	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	10,224	44	22.0	23.3	23.1	22.9	23.0
	Females	12,753	56	22.6	22.1	23.5	22.0	22.7
	Missing	0	0
National	Males	856,651	46	20.0	21.4	21.1	21.2	21.1
	Females	977,127	53	20.7	20.5	21.5	20.5	20.9
	Missing	12,009	1	15.7	17.8	17.3	17.4	17.2

Table 2.8. Percent of Students Who Met College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Males	74	62	56	54	41
	Females	78	54	59	46	36
National	Males	62	47	43	40	29
	Females	66	40	45	34	25

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	20,801	79	22.7	60	23.0	59	23.7	51	22.7	40	23.1
	Less than Core	1,900	52	18.8	35	19.6	38	20.2	29	19.4	22	19.6
	Missing ³	276	65	20.5	46	21.0	55	22.6	46	21.5	34	21.5
National	Core or More	1,347,997	71	21.4	50	21.7	50	22.2	42	21.6	31	21.8
	Less than Core	405,073	48	17.9	27	18.9	30	19.2	23	18.9	15	18.9
	Missing	92,717	36	16.0	18	17.7	23	17.7	16	17.6	10	17.4

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	22,488	77	22.4	22,256	59	22.8	22,053	58	23.4	21,678	51	22.6
	Less than Core	217	56	19.3	448	10	16.6	651	54	22.9	1,023	18	17.7
	Missing ³	272	65	20.6	273	46	21.0	273	55	22.7	276	46	21.5
National	Core or More	1,676,095	67	20.8	1,686,194	46	21.3	1,580,108	47	21.7	1,538,158	41	21.4
	Less than Core	88,420	36	15.9	74,627	8	16.4	180,385	32	19.4	220,701	17	18.1
	Missing	81,272	38	16.3	84,966	19	17.8	85,294	24	17.8	86,928	17	17.7

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

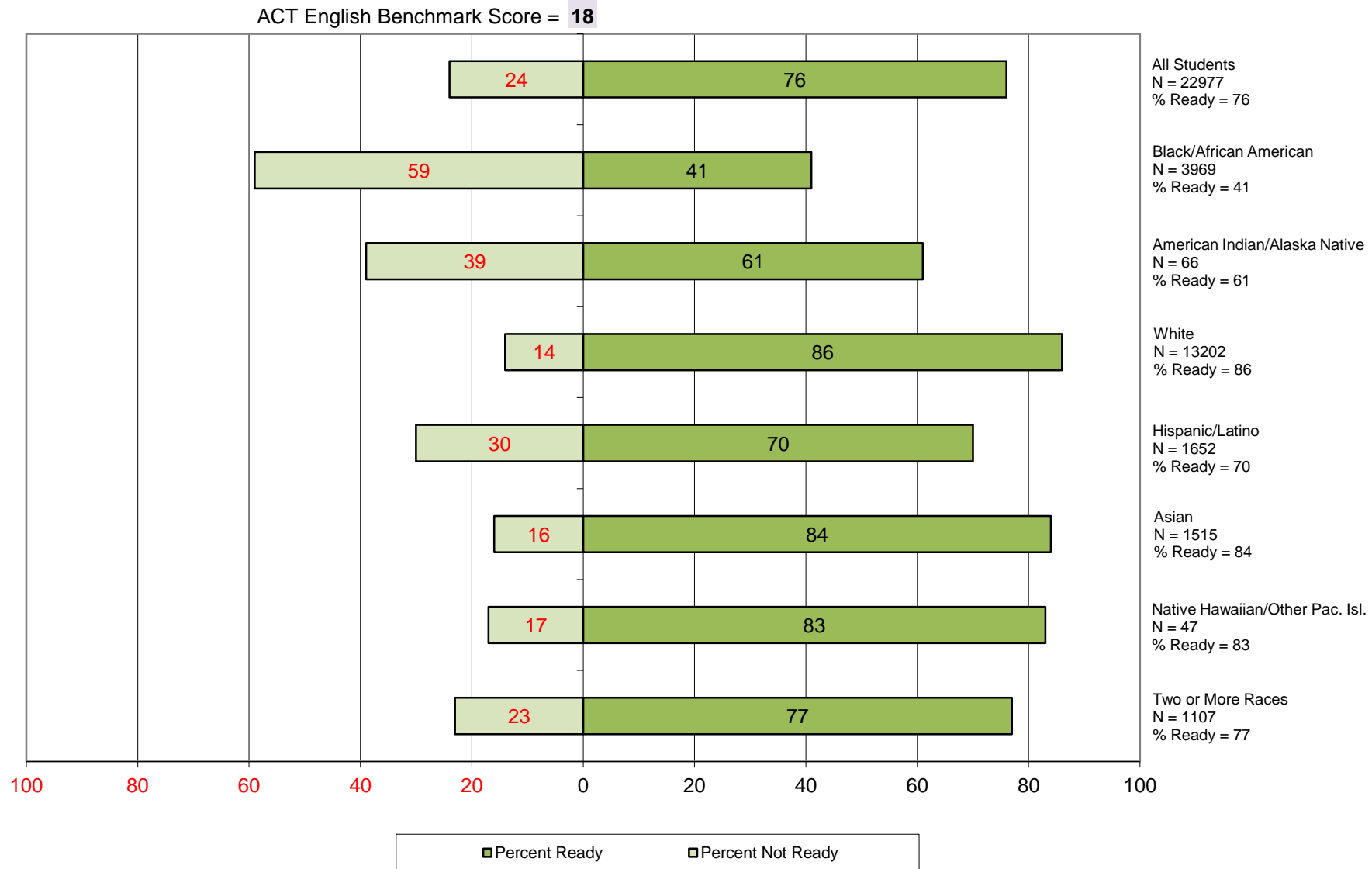


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

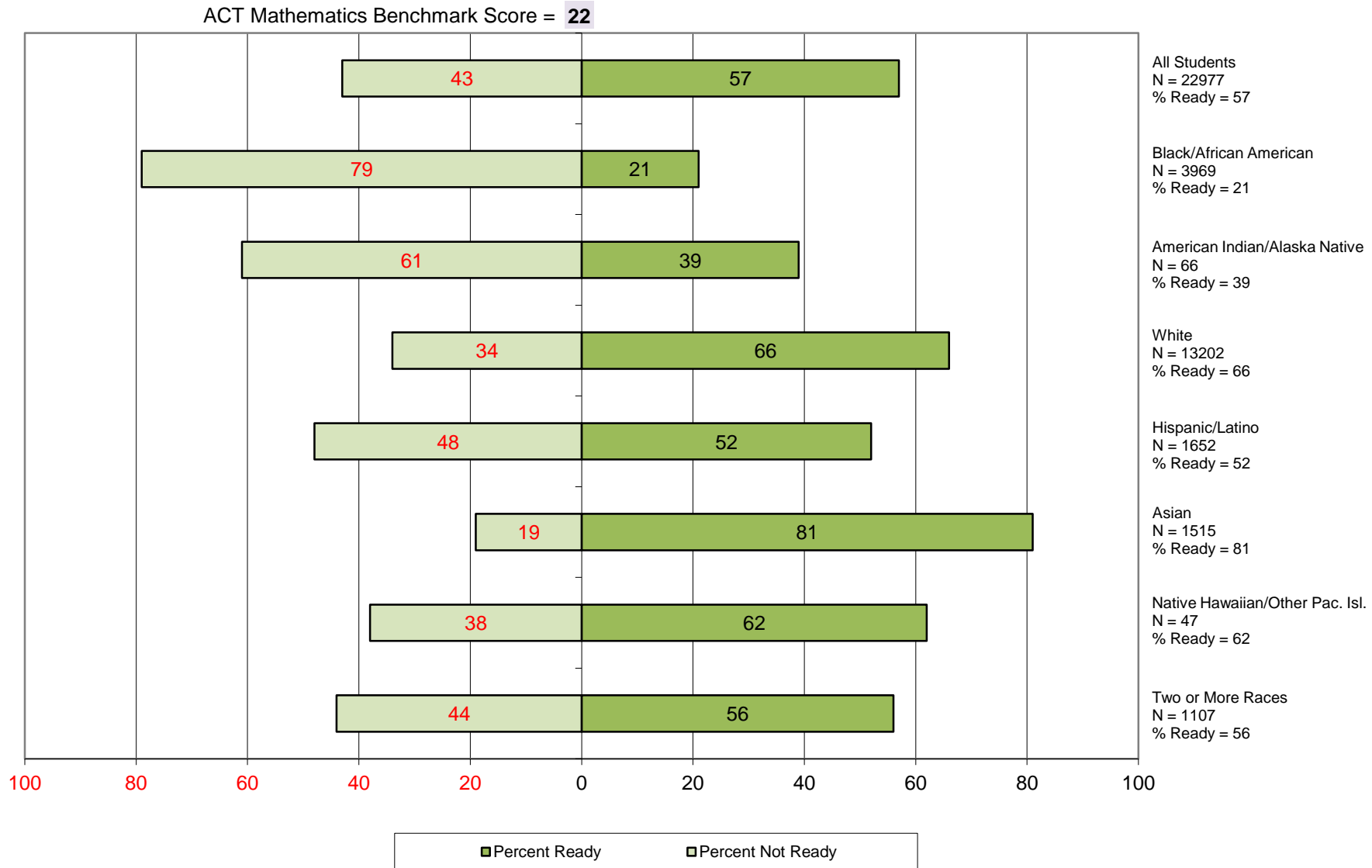


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

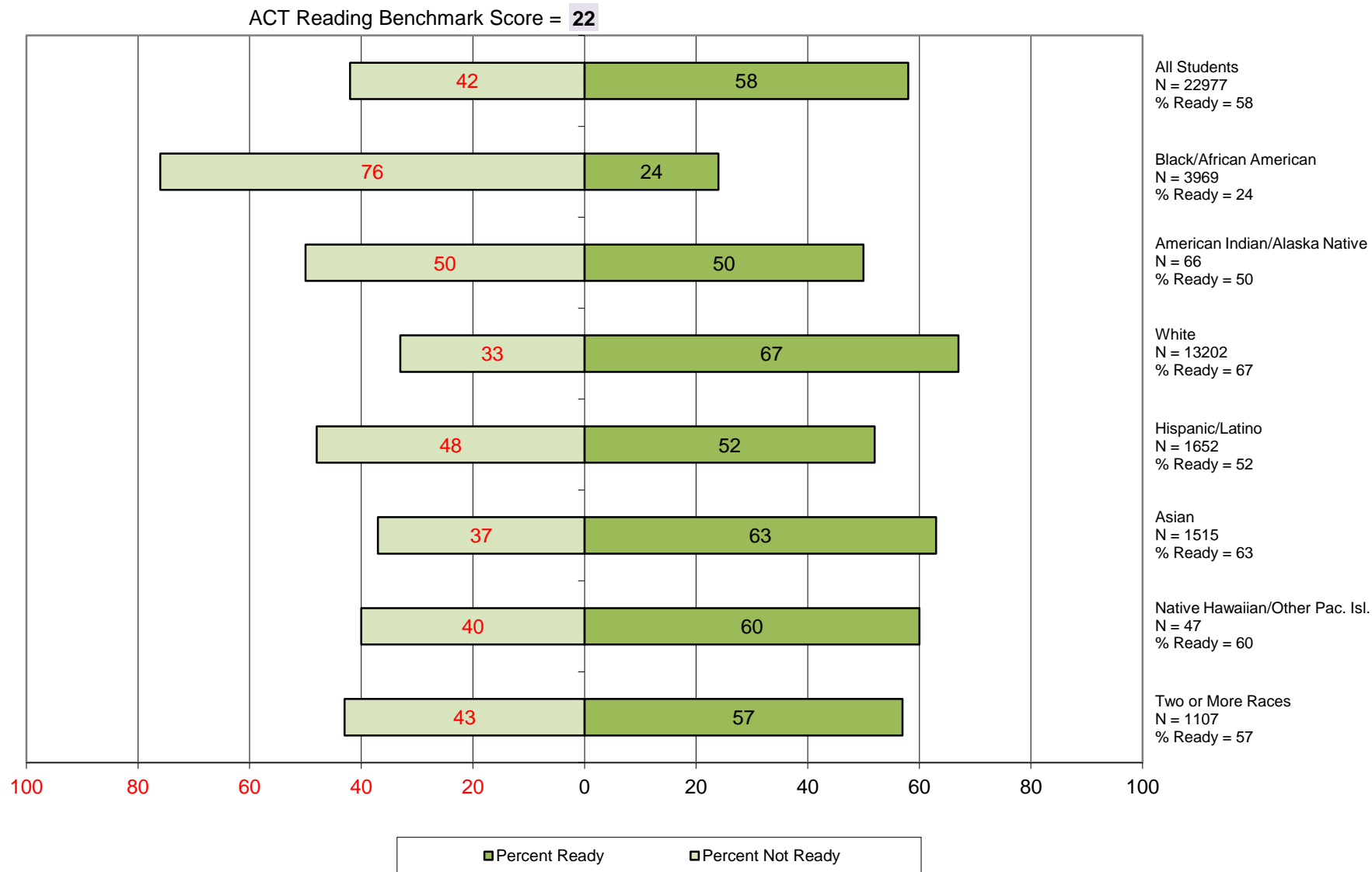


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

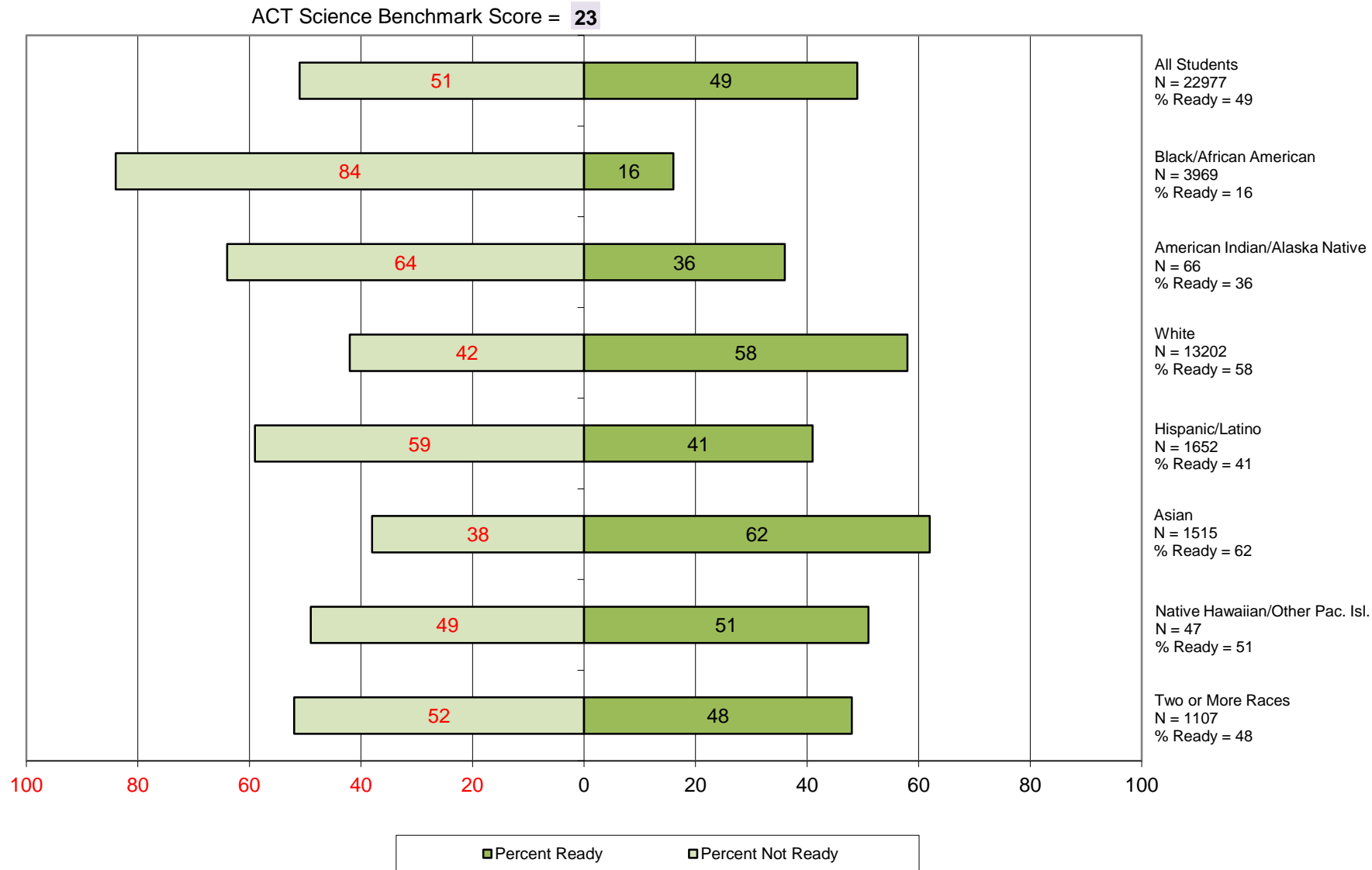
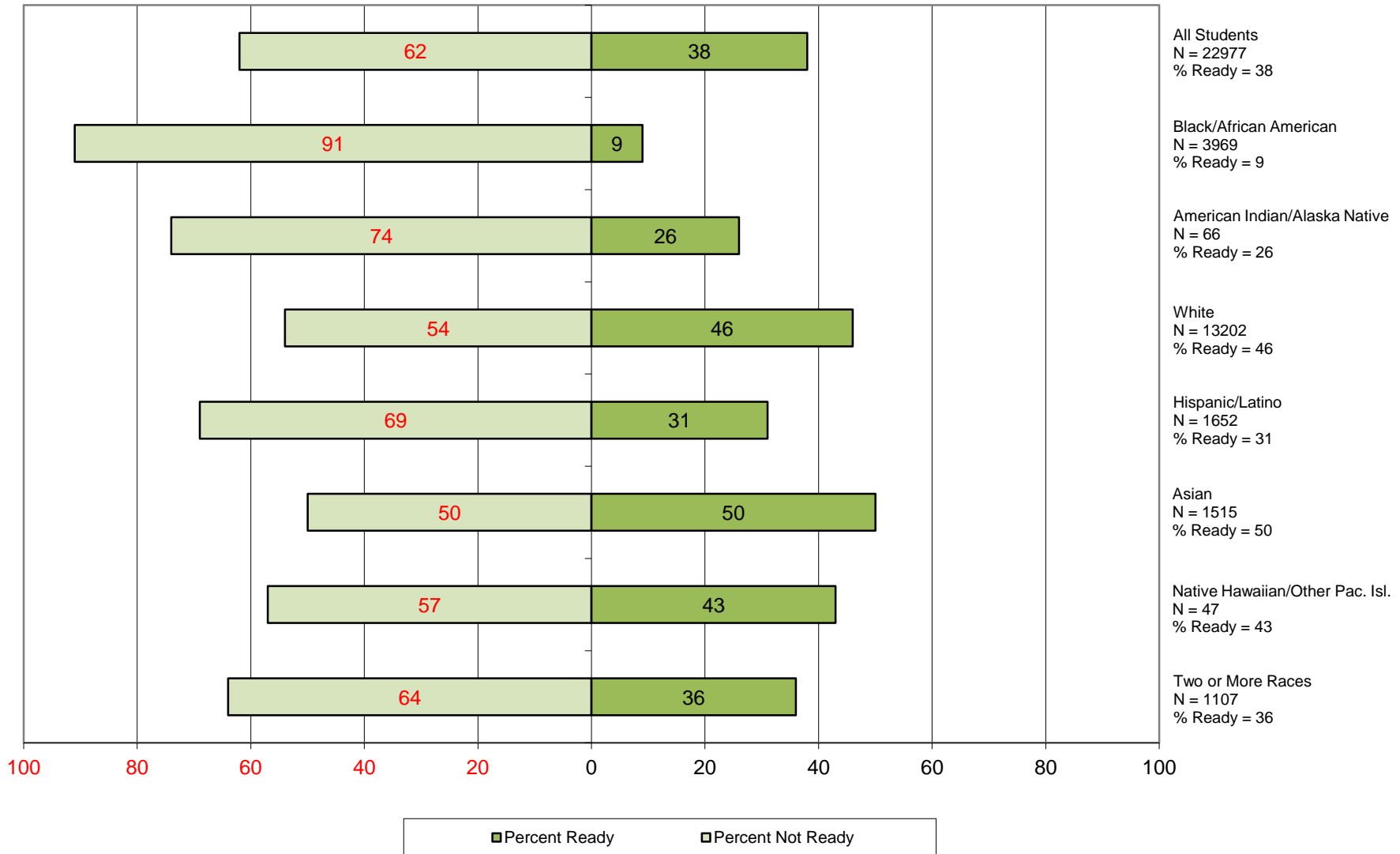


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 22,977

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	4,210	18	22.9	3.6	1,730	17	22.5	4.5	2,480	19	23.1	2.9
Eng 9, Eng 10, Eng 11, Eng 12	18,278	80	22.3	3.0	8,237	81	22.0	4.0	10,041	79	22.5	2.3
Less than 4 years of English	217	1	19.3	-	93	1	18.0	-	124	1	20.2	-
Zero years / no English courses reported	272	1	20.6	-	164	2	19.5	-	108	1	22.2	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	2,263	10	25.2	8.6	966	9	25.7	9.1	1,297	10	24.7	8.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,930	13	21.7	5.1	1,001	10	22.0	5.4	1,929	15	21.5	5.0
Alg 1, Alg 2, Geom, & Trig	1,511	7	19.4	2.8	619	6	19.8	3.2	892	7	19.1	2.6
Alg 1, Alg 2, Geom, & Other Adv Math	3,134	14	19.5	2.9	1,171	11	19.7	3.1	1,963	15	19.3	2.8
Other comb of 4 or more years of Math	10,148	44	25.2	8.6	5,038	49	25.9	9.3	5,110	40	24.5	8.0
Alg 1, Alg 2, & Geom	1,562	7	16.9	0.3	689	7	17.0	0.4	873	7	16.9	0.4
Other comb of 3 or 3.5 years of Math	708	3	20.5	3.9	329	3	20.4	3.8	379	3	20.5	4.0
Less than 3 years of Math	448	2	16.6	-	246	2	16.6	-	202	2	16.5	-
Zero years / no Math courses reported	273	1	21.0	-	165	2	21.0	-	108	1	21.0	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,554	11	23.3	0.4	1,214	12	22.9	0.9	1,340	11	23.6	-0.1
Other comb of 4 or more years Social Science	10,352	45	23.9	1.0	4,615	45	23.8	1.8	5,737	45	23.9	0.2
US Hist, World Hist, & Am Gov	3,443	15	22.1	-0.8	1,568	15	21.9	-0.1	1,875	15	22.3	-1.4
Other comb of 3 or 3.5 years of Social Science	5,704	25	23.2	0.3	2,357	23	23.0	1.0	3,347	26	23.4	-0.3
Less than 3 years of Social Science	651	3	22.9	-	305	3	22.0	-	346	3	23.7	-
Zero years / no Social Science courses reported	273	1	22.7	-	165	2	21.8	-	108	1	24.0	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	12,861	56	23.4	5.7	6,176	60	24.0	6.8	6,685	52	22.9	4.8
Bio, Chem, Phys	2,176	9	25.5	7.8	982	10	26.3	9.1	1,194	9	24.8	6.7
Gen Sci ² , Bio, Chem	6,275	27	20.2	2.5	2,202	22	20.3	3.1	4,073	32	20.2	2.1
Other comb of 3 years of Natural Science	366	2	18.6	0.9	193	2	18.9	1.7	173	1	18.3	0.2
Less than 3 years of Natural Science	1,023	4	17.7	-	503	5	17.2	-	520	4	18.1	-
Zero years / no Natural Science courses reported	276	1	21.5	-	168	2	21.4	-	108	1	21.7	-

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: 22,977

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	4,210	18	22.9	79	370,875	20	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	18,278	80	22.3	76	1,305,220	71	20.5	65
Less than 4 years of English	217	1	19.3	56	88,420	5	15.9	36
Zero years / no English courses reported	272	1	20.6	65	81,272	4	16.3	38
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	2,263	10	25.2	81	118,677	6	23.8	67
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,930	13	21.7	54	157,764	9	21.8	55
Alg 1, Alg 2, Geom, & Trig	1,511	7	19.4	30	120,160	7	19.3	30
Alg 1, Alg 2, Geom, & Other Adv Math	3,134	14	19.5	31	356,555	19	19.4	31
Other comb of 4 or more years of Math	10,148	44	25.2	76	622,896	34	23.7	65
Alg 1, Alg 2, & Geom	1,562	7	16.9	10	220,037	12	17.1	11
Other comb of 3 or 3.5 years of Math	708	3	20.5	41	90,105	5	19.8	35
Less than 3 years of Math	448	2	16.6	10	74,627	4	16.4	8
Zero years / no Math courses reported	273	1	21.0	46	84,966	5	17.8	19
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,554	11	23.3	57	48,992	3	22.3	50
Other comb of 4 or more years Social Science	10,352	45	23.9	61	921,129	50	22.2	50
US Hist, World Hist, & Am Gov	3,443	15	22.1	49	105,110	6	19.6	33
Other comb of 3 or 3.5 years of Social Science	5,704	25	23.2	56	504,877	27	21.3	43
Less than 3 years of Social Science	651	3	22.9	54	180,385	10	19.4	32
Zero years / no Social Science courses reported	273	1	22.7	55	85,294	5	17.8	24
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	12,861	56	23.4	57	781,043	42	22.1	46
Bio, Chem, Phys	2,176	9	25.5	73	199,419	11	23.1	54
Gen Sci ¹ , Bio, Chem	6,275	27	20.2	31	505,460	27	20.0	28
Other comb of 3 years of Natural Science	366	2	18.6	23	52,236	3	19.2	24
Less than 3 years of Natural Science	1,023	4	17.7	18	220,701	12	18.1	17
Zero years / no Natural Science courses reported	276	1	21.5	46	86,928	5	17.7	17

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: 22,977

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	229	1	22.4	7	4	18.1	204	1	22.4
Architecture	230	1	22.5	3	2	16.7	203	1	22.6
Area, Ethnic, & Multidisciplinary Studies	47	0	24.2	0	0	.	41	0	24.4
Arts: Visual & Performing	1,041	5	21.7	13	8	17.7	934	5	21.7
Business	2,527	11	22.0	24	15	17.5	2,266	11	22.1
Communications	607	3	22.1	1	1	17.0	553	3	22.0
Community, Family, & Personal Services	247	1	18.9	3	2	15.0	221	1	18.9
Computer Science & Mathematics	832	4	24.6	4	2	18.5	746	4	24.5
Education	1,044	5	20.9	3	2	16.0	959	5	20.9
Engineering	2,499	11	25.6	10	6	19.9	2,250	11	25.5
Engineering Technology & Drafting	220	1	21.4	6	4	16.0	188	1	21.5
English & Foreign Languages	311	1	24.8	3	2	21.3	285	1	24.8
Health Administration & Assisting	415	2	18.2	12	7	15.2	368	2	18.5
Health Sciences & Technologies	3,660	16	21.9	26	16	16.8	3,348	17	22.0
Philosophy, Religion, & Theology	87	0	23.4	1	1	17.0	78	0	23.3
Repair, Production, & Construction	43	0	18.1	11	7	15.5	27	0	18.8
Sciences: Biological & Physical	2,271	10	24.5	4	2	19.8	2,110	10	24.4
Social Sciences & Law	2,298	10	22.5	6	4	19.3	2,103	10	22.5
Undecided	4,156	18	23.0	28	17	16.0	3,265	16	23.1
No Response	212	1	21.4	0	0	.	50	0	22.8

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: 22,977

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	62	17.6	20	15.0	0	.	30	19.1	0	.
2-yr College Degree	103	16.8	40	14.1	0	.	45	18.9	5	15.6
Bachelors Degree	8,822	21.0	1,675	16.4	32	19.2	5,332	22.4	586	20.1
Graduate Study	5,814	24.2	692	19.6	9	24.7	3,750	25.0	414	23.1
Prof. Level Degree	5,564	24.4	1,086	19.8	16	20.6	2,746	25.9	480	23.3
Other	186	20.8	40	16.5	1	23.0	77	21.8	21	20.3
No Response	2,426	23.0	416	17.1	8	21.0	1,222	24.4	146	21.2

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	62	17.6	5	18.6	0	.	5	18.0	2	17.0
2-yr College Degree	103	16.8	5	19.8	0	.	7	18.0	1	14.0
Bachelors Degree	8,822	21.0	373	22.4	19	21.6	425	21.0	380	22.1
Graduate Study	5,814	24.2	331	25.3	14	23.2	275	24.3	329	24.9
Prof. Level Degree	5,564	24.4	569	26.4	11	24.7	306	23.9	350	25.6
Other	186	20.8	11	25.2	1	20.0	13	21.9	22	22.3
No Response	2,426	23.0	221	25.6	2	24.0	76	23.7	335	23.9

Total Students in Report: 22,977

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	3,220	1,002	2,218	0	4	16	32	32	15	1
VIRGINIA TECH	Virginia	2,864	1,003	1,861	0	2	8	26	35	25	4
UNIVERSITY OF VIRGINIA	Virginia	2,268	771	1,497	0	1	5	18	31	36	8
VIRGINIA COMMONWEALTH UNIVERSITY	Virginia	2,210	577	1,633	2	9	25	30	23	10	1
GEORGE MASON UNIVERSITY	Virginia	1,936	490	1,446	1	5	19	34	28	12	1
OLD DOMINION UNIVERSITY	Virginia	1,834	464	1,370	4	14	34	29	14	5	0
CHRISTOPHER NEWPORT UNIVERSITY	Virginia	1,394	350	1,044	1	5	20	36	28	10	1
RADFORD UNIVERSITY	Virginia	1,345	424	921	3	14	37	31	13	3	0
COLLEGE OF WILLIAM AND MARY	Virginia	1,163	326	837	0	1	5	17	33	37	8
LONGWOOD UNIVERSITY	Virginia	900	241	659	1	8	33	38	15	4	0
UNIVERSITY OF MARY WASHINGTON	Virginia	649	125	524	0	3	20	33	28	14	2
LIBERTY UNIVERSITY	Virginia	555	275	280	3	11	28	31	18	8	0
VIRGINIA STATE UNIVERSITY	Virginia	523	155	368	15	35	36	11	3	0	0
NORFOLK STATE UNIVERSITY	Virginia	515	160	355	13	39	37	8	2	1	0
NCAA ELIGIBILITY CENTER	Indiana	447	251	196	4	15	27	29	17	7	0
UNIVERSITY OF RICHMOND	Virginia	330	73	257	2	4	13	25	28	24	3
HAMPTON UNIVERSITY	Virginia	324	81	243	6	22	39	24	8	1	0
UNIV OF SOUTH CAROLINA-COLUMBIA	South Carolina	323	87	236	0	1	8	30	39	21	2
UNIV OF NORTH CAROLINA AT CHAPEL HILL	North Carolina	306	74	232	0	1	8	19	29	34	7
VIRGINIA MILITARY INSTITUTE	Virginia	300	138	162	1	5	23	33	29	10	0
WEST VIRGINIA UNIVERSITY	West Virginia	290	97	193	1	8	29	34	22	6	0
BRIDGEWATER COLLEGE	Virginia	251	63	188	1	8	33	36	15	7	0
LYNCHBURG COLLEGE	Virginia	250	57	193	1	13	36	32	13	4	0
EAST CAROLINA UNIVERSITY	North Carolina	246	53	193	2	5	24	38	25	6	0
ROANOKE COLLEGE	Virginia	246	52	194	0	7	25	33	20	13	1
SHENANDOAH UNIVERSITY	Virginia	239	59	180	2	11	36	31	15	4	0
DUKE UNIVERSITY	North Carolina	219	74	145	0	4	7	22	21	34	12
RANDOLPH-MACON COLLEGE	Virginia	217	43	174	2	10	24	35	23	5	0
UNITED STATES NAVAL ACADEMY	Maryland	217	111	106	1	2	10	20	35	28	5
FERRUM COLLEGE ADMISSIONS OFFICE	Virginia	210	68	142	8	19	39	23	9	3	0
All Other Institutions		13,852	3,817	10,035	2	7	17	25	24	20	5
Total		39,643	11,561	28,082	2	7	19	27	24	17	3

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: 22,977

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	15,869	976,031	23.4	21.3	7.4	7.1	22.4	20.6
Black/African American	2,350	114,263	17.6	16.4	6.5	6.3	17.4	16.3
American Indian/Alaska Native	40	6,408	21.6	16.8	7.4	6.2	21.1	16.5
White	9,215	520,054	24.7	23.1	7.5	7.3	23.5	22.1
Hispanic/Latino	1,193	167,575	21.9	18.5	7.4	6.9	21.4	18.4
Asian	1,214	61,663	25.4	23.7	7.9	7.7	24.4	22.9
Native Hawaiian/Other Pac. Isl.	35	3,742	23.5	17.7	7.3	6.6	22.4	17.6
Two or more races	775	39,565	23.4	21.4	7.4	7.1	22.4	20.7
Prefer not/No Response	1,047	62,761	24.8	21.6	7.6	7.1	23.7	20.9
Males	6,856	438,500	23.2	21.1	7.2	6.9	22.1	20.2
Females	9,013	530,240	23.6	21.6	7.5	7.3	22.7	21.1
Missing	0	7,291	.	16.0	.	5.9	.	15.7

