

ACT Profile Report - State

Graduating Class 2013
Arizona



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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

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: 31,658 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. 60% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES: Table 3.2 reports 5% of the cohort took less than three years of math courses. Of these students, 10% were college ready. 10% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 9% of these students were college ready. In comparison, 47% 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 21% of the cohort took less than three years of natural science courses. 17% of these students were college ready. In comparison, 34% 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 53% 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.

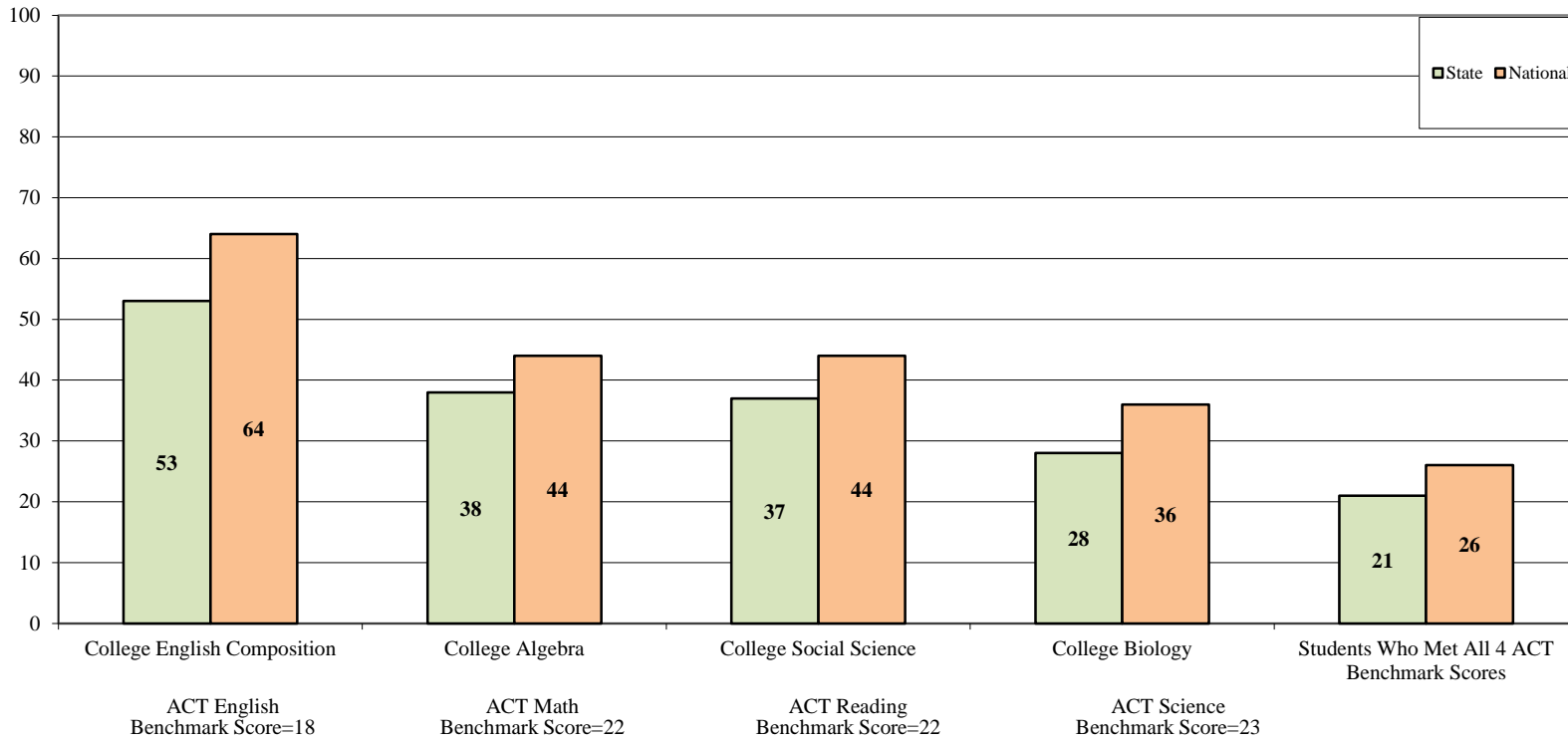
Section I

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: 31,658

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	12,550	1,480,469	73	67	52	42	60	53	30	28	26	23
2010	23,303	1,568,835	56	66	39	43	46	52	23	29	19	24
2011	27,952	1,623,112	53	66	39	45	43	52	22	30	18	25
2012	29,876	1,666,017	54	67	39	46	42	52	23	31	20	25
2013	31,658	1,799,243	53	64	38	44	37	44	28	36	21	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	12,550	1,480,469	21.3	20.6	22.1	21.0	22.4	21.4	21.3	20.9	21.9	21.1
2010	23,303	1,568,835	18.9	20.5	20.4	21.0	20.2	21.3	19.9	20.9	20.0	21.0
2011	27,952	1,623,112	18.6	20.6	20.3	21.1	19.9	21.3	19.6	20.9	19.7	21.1
2012	29,876	1,666,017	18.6	20.5	20.3	21.1	19.7	21.3	19.5	20.9	19.7	21.1
2013	31,658	1,799,243	18.5	20.2	20.3	20.9	19.6	21.1	19.4	20.7	19.6	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: 31,658

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	9,883	2,542	79	20	21.8	19.6	22.6	20.5	22.8	20.9	21.8	19.9	22.4	20.4
2010	14,617	7,327	63	31	20.5	16.2	21.7	18.3	21.6	18.0	21.1	17.8	21.3	17.7
2011	16,314	8,995	58	32	20.5	15.9	21.8	18.1	21.4	17.7	21.0	17.5	21.3	17.4
2012	18,138	9,204	61	31	20.4	16.1	21.7	18.3	21.3	17.6	20.9	17.6	21.2	17.5
2013	18,945	9,410	60	30	20.3	16.3	21.7	18.4	21.3	17.6	20.8	17.6	21.2	17.6

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.

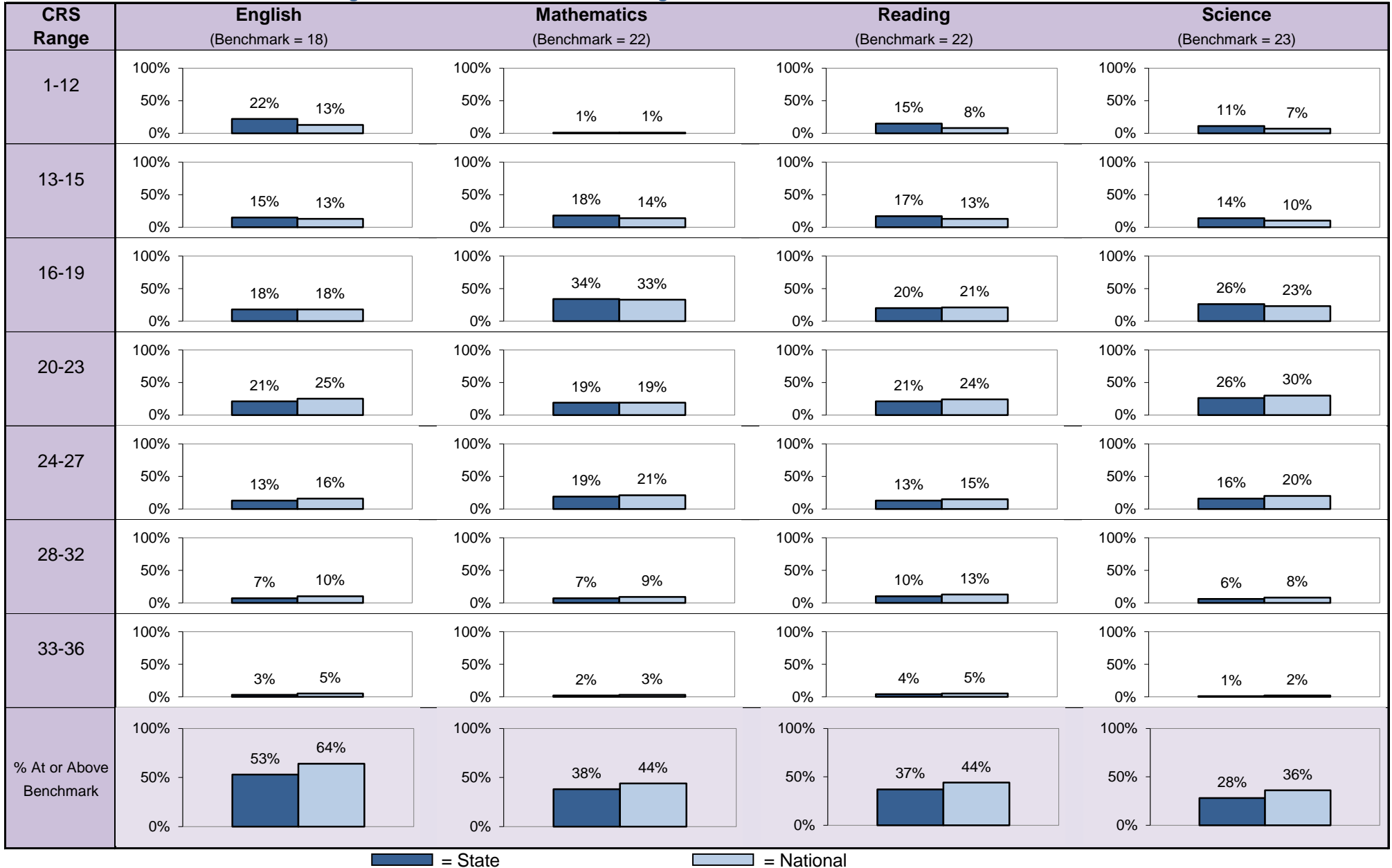
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2009			2010			2011			2012			2013		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	12,550	100	21.9	23,303	100	20.0	27,952	100	19.7	29,876	100	19.7	31,658	100	19.6
Black/African American	544	4	18.5	1,045	4	17.5	1,209	4	17.4	1,312	4	17.0	1,380	4	17.1
American Indian/Alaska Native	920	7	17.2	1,449	6	16.3	1,340	5	16.3	1,328	4	16.5	1,312	4	16.4
White	7,111	57	23.3	10,568	45	22.3	11,617	42	22.3	11,797	39	22.3	12,210	39	22.3
Hispanic/Latino	2,244	18	19.8	6,653	29	17.4	9,469	34	17.2	11,676	39	17.4	12,312	39	17.4
Asian	540	4	23.5	792	3	22.5	973	3	22.7	1,015	3	22.4	1,070	3	22.5
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	21	0	19.5	108	0	17.8	139	0	18.9
Two or more races	434	3	21.8	1,012	4	20.3	1,171	4	20.1	994	3	21.2	1,099	3	20.9
Prefer not to respond/No response	757	6	22.4	1,784	8	18.5	2,152	8	18.5	1,646	6	19.1	2,136	7	18.2

Total Students in Report: 31,658

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



Total Students in Report: 31,658

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	31,345	99	18.5	20.3	19.6	19.4	19.6
	Extended Time	313	1	15.1	17.7	17.3	17.4	17.0
	Total	31,658	100	18.5	20.3	19.6	19.4	19.6
National	Standard Time	1,727,041	96	20.4	21.0	21.3	20.9	21.0
	Extended Time	72,202	4	15.9	17.7	18.1	17.9	17.5
	Total	1,799,243	100	20.2	20.9	21.1	20.7	20.9

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

Student Group	Test Session Duration	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Standard Time	53	39	37	28	21
	Extended Time	30	20	25	15	13
	Total	53	38	37	28	21
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: 31,658

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	78	100	79	100	208	100	74	100	15	100	36
35	235	100	131	100	80	99	121	100	80	100	35
34	321	99	321	99	420	99	94	99	118	100	34
33	377	98	209	98	497	98	104	99	186	99	33
32	282	97	269	98	595	96	217	99	275	99	32
31	401	96	278	97	762	94	262	98	406	98	31
30	442	95	399	96	676	92	343	97	532	97	30
29	472	93	475	95	519	90	442	96	644	95	29
28	702	92	875	93	710	88	531	95	798	93	28
27	685	90	1,189	90	784	86	719	93	921	90	27
26	964	87	1,454	87	865	83	920	91	1,086	87	26
25	1,059	84	1,573	82	817	81	1,475	88	1,199	84	25
24	1,385	81	1,689	77	1,694	78	1,935	83	1,422	80	24
23	1,325	77	1,842	72	1,171	73	1,733	77	1,627	76	23
22	1,544	72	1,367	66	1,802	69	1,676	72	1,800	71	22
21	1,812	68	1,395	62	1,733	63	2,548	66	1,898	65	21
20	1,911	62	1,346	57	2,038	58	2,262	58	1,883	59	20
19	1,365	56	1,757	53	1,482	51	2,444	51	1,923	53	19
18	1,339	51	1,862	47	1,514	47	1,909	43	1,948	47	18
17	1,291	47	3,117	42	1,846	42	1,566	37	2,042	41	17
16	1,803	43	4,056	32	1,439	36	2,458	32	2,113	34	16
15	2,015	37	3,419	19	2,002	32	1,511	25	2,107	28	15
14	1,478	31	1,627	8	1,381	25	1,454	20	2,037	21	14
13	1,390	26	581	3	1,952	21	1,394	15	1,968	15	13
12	1,279	22	252	1	1,840	15	1,091	11	1,530	8	12
11	1,645	18	53	1	949	9	1,344	8	739	3	11
10	1,513	13	24	1	1,012	6	478	3	244	1	10
9	913	8	4	1	347	3	295	2	77	1	9
8	893	5	11	1	236	2	145	1	25	1	8
7	446	2	0	1	155	1	64	1	9	1	7
6	170	1	3	1	77	1	23	1	3	1	6
5	68	1	0	1	9	1	4	1	2	1	5
4	36	1	0	1	32	1	10	1	1	1	4
3	14	1	0	1	7	1	8	1	0	1	3
2	5	1	0	1	6	1	2	1	0	1	2
1	0	1	1	1	1	1	2	1	0	1	1
Avg (SD)	18.5 (6.7)		20.3 (5.2)		19.6 (6.6)		19.4 (5.4)		19.6 (5.5)		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: 31,658

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	755	100	386	100	670	100	828	100	983	100	182	100	230	100	18
17	1,073	98	158	99	1,162	98	1,252	97	1,116	97	377	99	52	99	17
16	852	94	1,152	98	1,247	94	1,656	93	1,099	93	590	98	903	99	16
15	1,121	92	1,486	95	1,255	90	1,796	88	1,637	90	1,421	96	1,400	96	15
14	1,238	88	1,715	90	1,452	86	1,280	83	1,628	85	2,078	92	1,927	92	14
13	1,462	84	2,003	85	1,885	82	1,954	78	2,699	80	3,342	85	2,249	86	13
12	1,601	79	2,761	78	3,102	76	1,981	72	2,271	71	3,250	75	2,965	79	12
11	2,460	74	2,852	69	2,495	66	3,211	66	2,500	64	4,315	64	3,277	69	11
10	3,121	67	2,746	60	2,589	58	2,321	56	2,982	56	4,108	51	3,149	59	10
9	2,653	57	3,730	52	2,826	50	2,274	49	2,053	47	3,420	38	6,006	49	9
8	2,440	48	3,071	40	3,893	41	2,639	41	3,430	40	4,804	27	3,619	30	8
7	3,235	41	2,656	30	2,692	29	2,237	33	4,635	29	793	12	2,819	19	7
6	2,455	30	1,595	22	2,100	20	3,225	26	2,496	15	1,508	9	666	10	6
5	2,974	23	2,184	17	2,557	14	2,035	16	1,418	7	243	5	1,263	8	5
4	1,934	13	1,723	10	885	5	1,990	9	454	2	754	4	349	4	4
3	1,592	7	1,154	5	485	3	616	3	196	1	402	1	511	2	3
2	592	2	241	1	264	1	349	1	51	1	2	1	120	1	2
1	100	1	45	1	99	1	14	1	10	1	69	1	153	1	1
Avg (SD)	9.0 (4.1)		9.5 (3.6)		9.9 (3.8)		9.9 (4.1)		10.2 (3.6)		10.4 (2.9)		10.0 (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)	23	24	24	23	23
Q2 (50th Percentile)	18	19	19	19	19
Q1 (25th Percentile)	13	16	14	16	15

Total Students in Report: 31,658

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	31,658	60	21.2	17.6
	Black/African American	1,380	57	18.3	15.8
	American Indian/Alaska Native	1,312	65	17.0	15.5
	White	12,210	68	23.4	20.1
	Hispanic/Latino	12,312	52	18.7	16.1
	Asian	1,070	71	23.9	19.9
	Native Hawaiian/Other Pac. Isl.	139	65	20.0	17.1
	Two or more races	1,099	66	21.9	19.2
	Prefer not/No Response	2,136	45	21.4	16.4
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	18.5	20.3	19.6	19.4	19.6
	Black/African American	15.7	18.0	17.0	17.1	17.1
	American Indian/Alaska Native	14.4	17.4	16.5	16.9	16.4
	White	21.7	22.5	22.6	21.8	22.3
	Hispanic/Latino	15.8	18.4	17.2	17.4	17.4
	Asian	21.5	24.2	21.7	22.1	22.5
	Native Hawaiian/Other Pac. Isl.	17.8	19.9	18.7	18.8	18.9
	Two or more races	20.1	21.2	21.3	20.6	20.9
	Prefer not/No Response	17.0	19.1	18.2	18.1	18.2
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: 31,658

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	1,011	3	740	2	1,205	4	393	1
	28 to 32	2,299	7	2,296	7	3,262	10	1,795	6
	24 to 27	4,093	13	5,905	19	4,160	13	5,049	16
	20 to 23	6,592	21	5,950	19	6,744	21	8,219	26
	16 to 19	5,798	18	10,792	34	6,281	20	8,377	26
	13 to 15	4,883	15	5,627	18	5,335	17	4,359	14
	01 to 12	6,982	22	348	1	4,671	15	3,466	11
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	14,602	46	18.2	20.8	19.3	19.7	19.6
	Females	16,410	52	18.9	20.0	20.1	19.3	19.7
	Missing	646	2	13.3	16.5	14.8	15.2	15.1
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	51	42	35	32	23
	Females	56	36	39	26	19
National	Males	62	47	43	40	29
	Females	67	41	45	33	24

Total Students in Report: 31,658

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	18,945	64	20.3	50	21.7	46	21.3	37	20.8	28	21.2
	Less than Core	9,410	39	16.3	24	18.4	25	17.6	17	17.6	10	17.6
	Missing ³	3,303	26	14.3	15	17.3	15	15.8	9	16.2	5	16.0
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	26,347	58	19.3	27,087	43	20.8	24,886	42	20.6	21,922	34	20.4
	Less than Core	2,453	23	13.9	1,600	10	16.5	3,710	17	16.3	6,635	17	17.6
	Missing ³	2,858	27	14.6	2,971	15	17.4	3,062	16	15.8	3,101	10	16.3
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

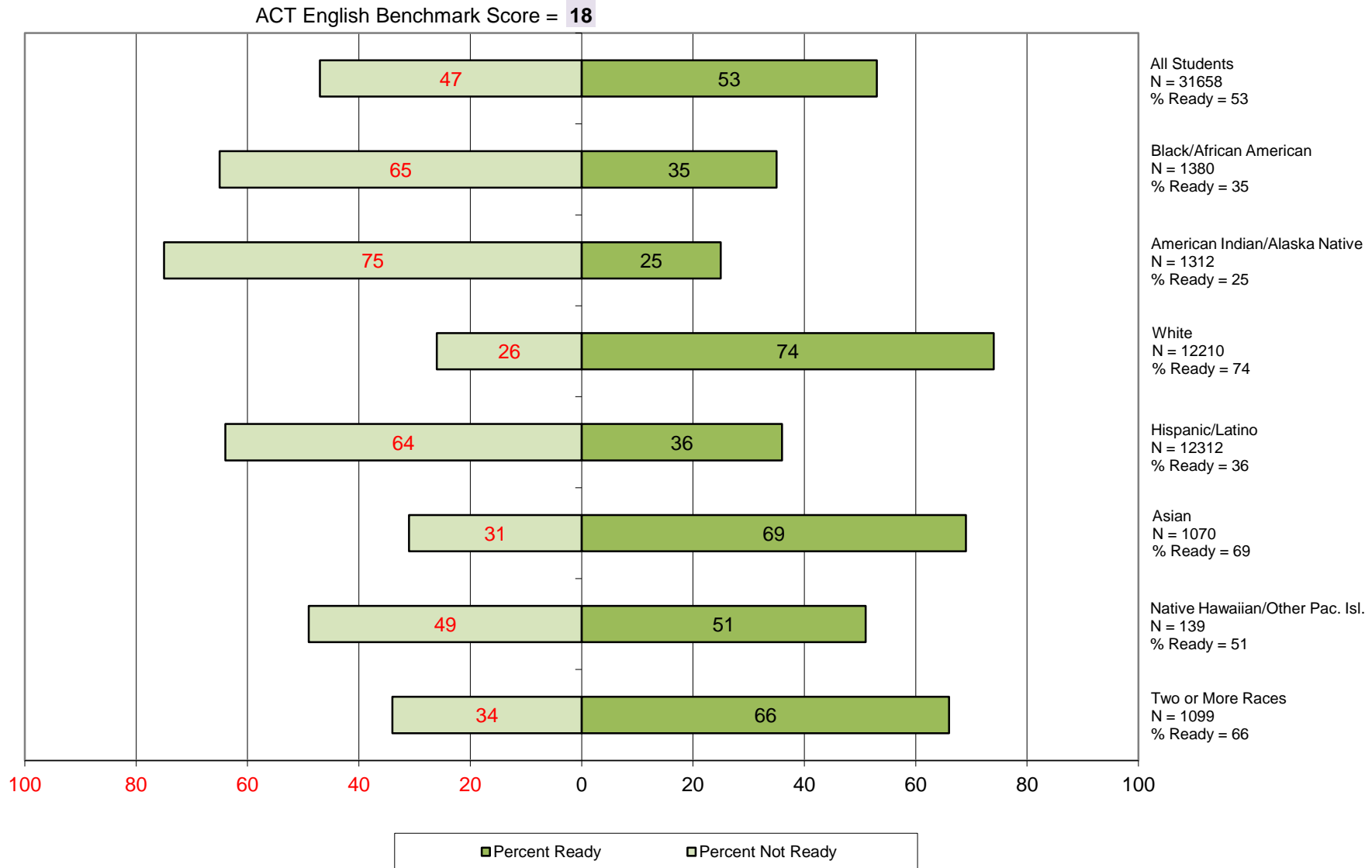


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

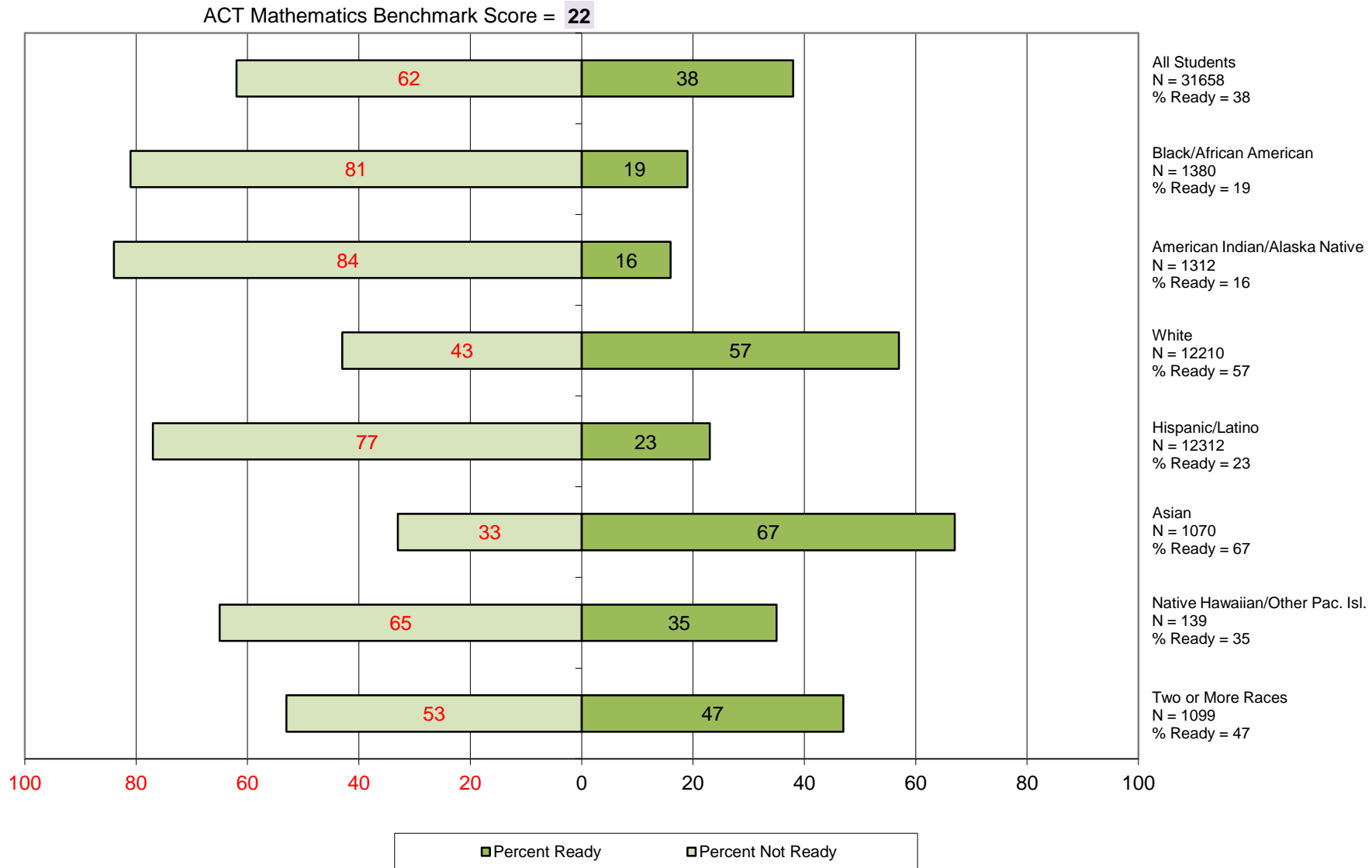


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

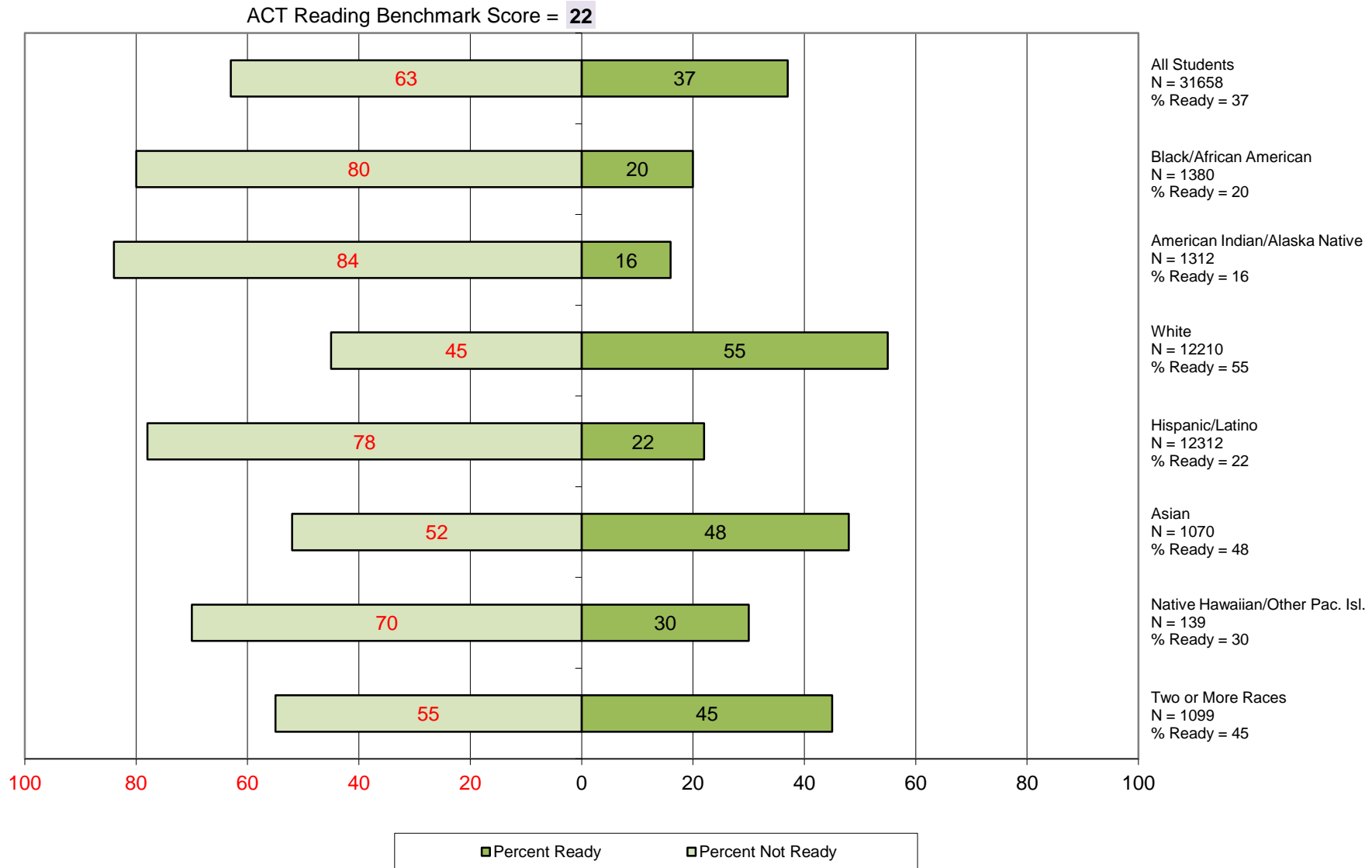


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

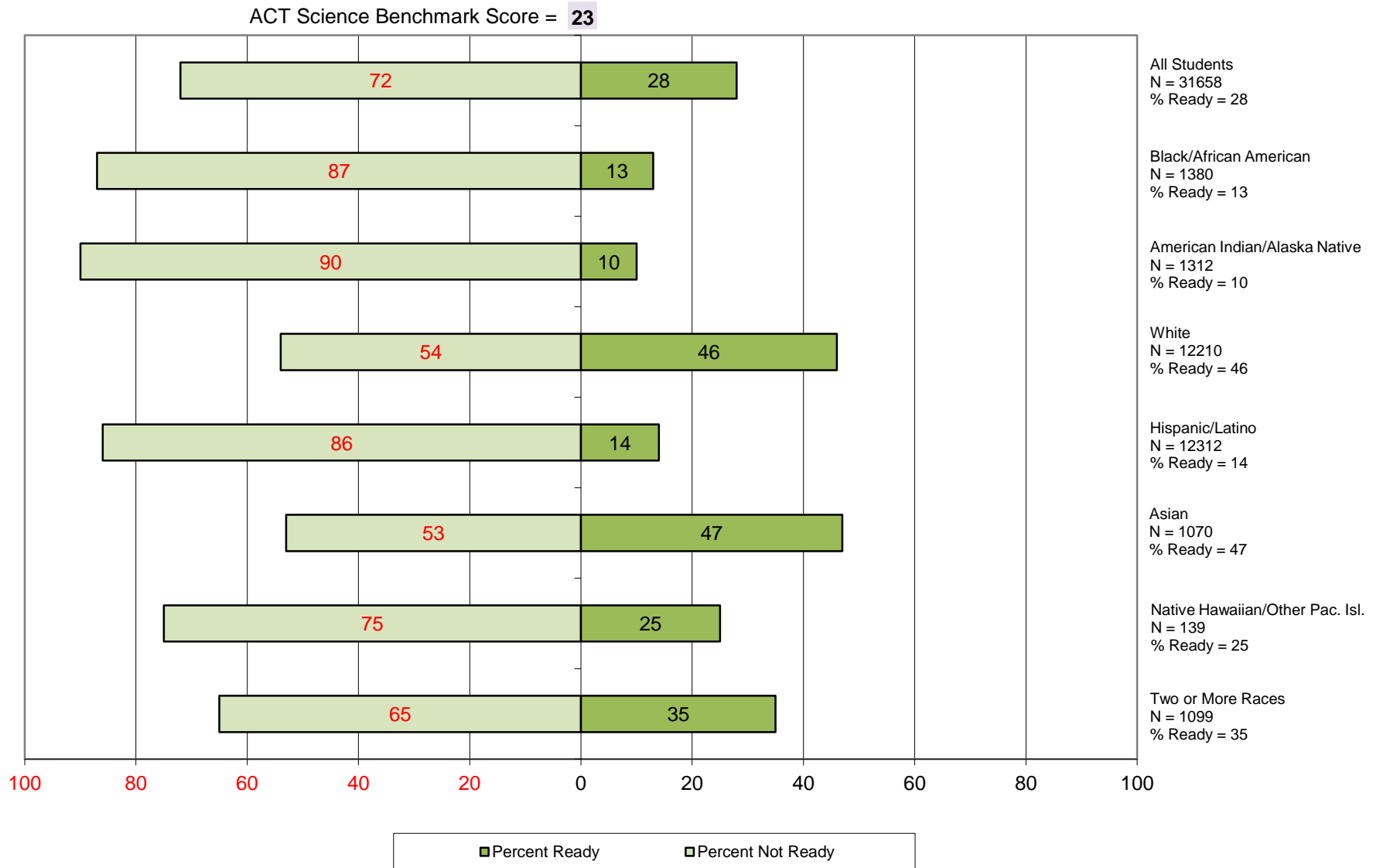
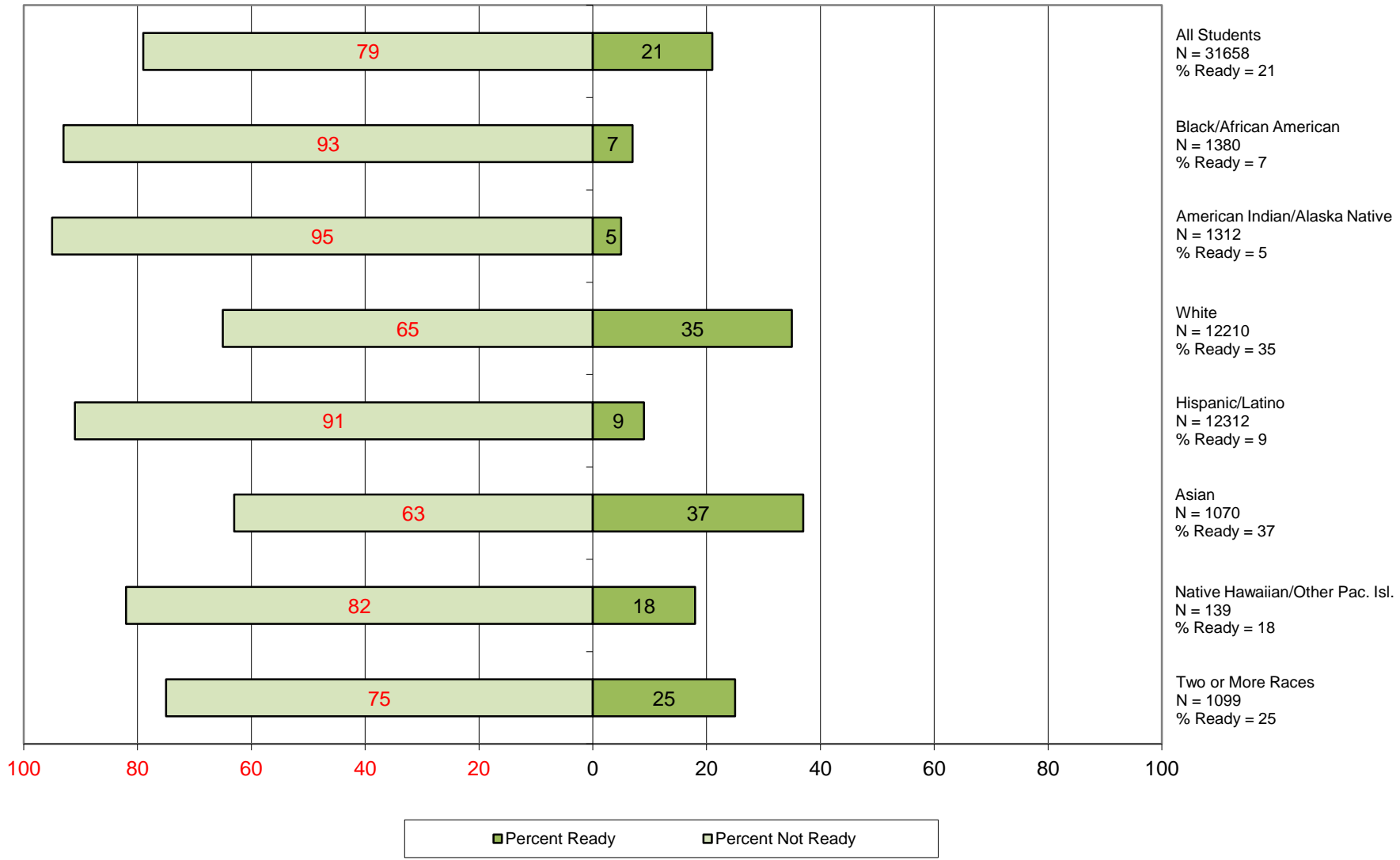


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 31,658

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	3,258	10	20.2	6.3	1,450	10	19.9	6.4	1,800	11	20.4	6.1
Eng 9, Eng 10, Eng 11, Eng 12	23,089	73	19.2	5.3	10,554	72	18.9	5.4	12,312	75	19.5	5.2
Less than 4 years of English	2,453	8	13.9	-	1,257	9	13.5	-	1,105	7	14.3	-
Zero years / no English courses reported	2,858	9	14.6	-	1,341	9	14.6	-	1,193	7	15.0	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,923	6	23.7	7.2	919	6	24.3	7.8	987	6	23.3	6.8
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,365	7	21.9	5.4	941	6	22.3	5.8	1,410	9	21.6	5.1
Alg 1, Alg 2, Geom, & Trig	2,277	7	19.7	3.2	977	7	20.1	3.6	1,266	8	19.5	3.0
Alg 1, Alg 2, Geom, & Other Adv Math	7,827	25	19.1	2.6	3,310	23	19.4	2.9	4,447	27	18.9	2.4
Other comb of 4 or more years of Math	8,028	25	23.5	7.0	3,986	27	24.2	7.7	3,994	24	22.8	6.3
Alg 1, Alg 2, & Geom	3,090	10	16.8	0.3	1,488	10	17.0	0.5	1,538	9	16.6	0.1
Other comb of 3 or 3.5 years of Math	1,577	5	19.9	3.4	781	5	20.7	4.2	771	5	19.3	2.8
Less than 3 years of Math	1,600	5	16.5	-	796	5	16.5	-	758	5	16.5	-
Zero years / no Math courses reported	2,971	9	17.4	-	1,404	10	17.8	-	1,239	8	17.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	416	1	21.0	4.7	207	1	19.8	3.9	200	1	22.4	5.5
Other comb of 4 or more years Social Science	11,128	35	21.8	5.5	4,813	33	21.7	5.8	6,255	38	21.9	5.0
US Hist, World Hist, & Am Gov	1,292	4	18.1	1.8	664	5	18.1	2.2	613	4	18.3	1.4
Other comb of 3 or 3.5 years of Social Science	12,050	38	19.7	3.4	5,483	38	19.5	3.6	6,449	39	20.0	3.1
Less than 3 years of Social Science	3,710	12	16.3	-	1,975	14	15.9	-	1,626	10	16.9	-
Zero years / no Social Science courses reported	3,062	10	15.8	-	1,460	10	15.6	-	1,267	8	16.5	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	7,515	24	20.9	3.3	3,803	26	21.6	4.3	3,644	22	20.3	2.4
Bio, Chem, Phys	3,752	12	23.8	6.2	1,920	13	24.5	7.2	1,810	11	23.2	5.3
Gen Sci ² , Bio, Chem	9,546	30	18.8	1.2	3,975	27	18.7	1.4	5,459	33	19.0	1.1
Other comb of 3 years of Natural Science	1,109	4	18.3	0.7	616	4	18.7	1.4	468	3	17.7	-0.2
Less than 3 years of Natural Science	6,635	21	17.6	-	2,818	19	17.3	-	3,731	23	17.9	-
Zero years / no Natural Science courses reported	3,101	10	16.3	-	1,470	10	16.5	-	1,298	8	16.5	-

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.

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	3,258	10	20.2	64	380,375	21	21.6	73
Eng 9, Eng 10, Eng 11, Eng 12	23,089	73	19.2	57	1,265,911	70	20.3	65
Less than 4 years of English	2,453	8	13.9	23	84,048	5	15.9	36
Zero years / no English courses reported	2,858	9	14.6	27	68,909	4	16.4	38
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,923	6	23.7	67	113,999	6	23.8	68
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,365	7	21.9	56	155,095	9	21.9	56
Alg 1, Alg 2, Geom, & Trig	2,277	7	19.7	34	119,993	7	19.4	32
Alg 1, Alg 2, Geom, & Other Adv Math	7,827	25	19.1	28	336,291	19	19.6	32
Other comb of 4 or more years of Math	8,028	25	23.5	64	610,720	34	23.6	65
Alg 1, Alg 2, & Geom	3,090	10	16.8	9	223,733	12	17.2	11
Other comb of 3 or 3.5 years of Math	1,577	5	19.9	36	88,866	5	19.7	34
Less than 3 years of Math	1,600	5	16.5	10	77,906	4	16.3	7
Zero years / no Math courses reported	2,971	9	17.4	15	72,640	4	17.9	20
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	416	1	21.0	46	50,989	3	22.2	51
Other comb of 4 or more years Social Science	11,128	35	21.8	50	908,394	50	22.0	50
US Hist, World Hist, & Am Gov	1,292	4	18.1	26	106,021	6	19.5	34
Other comb of 3 or 3.5 years of Social Science	12,050	38	19.7	36	489,586	27	21.0	43
Less than 3 years of Social Science	3,710	12	16.3	17	171,617	10	19.1	32
Zero years / no Social Science courses reported	3,062	10	15.8	16	72,636	4	17.7	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	7,515	24	20.9	40	767,293	43	21.9	46
Bio, Chem, Phys	3,752	12	23.8	63	183,685	10	23.0	54
Gen Sci ¹ , Bio, Chem	9,546	30	18.8	21	504,165	28	19.9	28
Other comb of 3 years of Natural Science	1,109	4	18.3	20	51,822	3	19.1	25
Less than 3 years of Natural Science	6,635	21	17.6	17	218,267	12	18.0	17
Zero years / no Natural Science courses reported	3,101	10	16.3	10	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: 31,658

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	379	1	18.5	45	2	14.3	303	1	19.3
Architecture	429	1	19.6	23	1	15.0	375	2	20.0
Area, Ethnic, & Multidisciplinary Studies	57	0	20.4	4	0	13.0	49	0	20.8
Arts: Visual & Performing	2,347	7	18.8	284	13	15.0	1,889	8	19.4
Business	2,507	8	20.0	192	9	15.2	2,146	9	20.4
Communications	583	2	21.1	34	2	14.9	514	2	21.5
Community, Family, & Personal Services	1,310	4	16.5	263	12	15.0	945	4	17.0
Computer Science & Mathematics	651	2	22.0	48	2	16.0	562	2	22.5
Education	1,061	3	19.7	45	2	16.0	970	4	19.9
Engineering	2,410	8	22.7	98	4	15.2	2,173	9	23.1
Engineering Technology & Drafting	532	2	18.6	88	4	15.0	409	2	19.5
English & Foreign Languages	334	1	22.4	20	1	17.9	287	1	22.6
Health Administration & Assisting	1,086	3	17.1	120	5	14.8	888	4	17.5
Health Sciences & Technologies	5,861	19	20.0	251	11	15.5	5,327	22	20.3
Philosophy, Religion, & Theology	129	0	20.7	6	0	19.0	115	0	20.5
Repair, Production, & Construction	422	1	16.3	147	7	15.4	233	1	17.2
Sciences: Biological & Physical	1,588	5	23.3	29	1	15.6	1,470	6	23.5
Social Sciences & Law	2,494	8	20.5	83	4	14.8	2,280	10	20.7
Undecided	3,307	10	20.7	237	11	15.1	2,537	11	21.4
No Response	4,077	13	15.8	142	6	13.4	359	2	15.8

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: 31,658

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	571	15.0	13	13.3	41	13.9	137	16.8	322	14.5
2-yr College Degree	1,620	15.1	66	14.4	116	14.3	393	16.9	867	14.4
Bachelors Degree	12,175	19.2	548	16.6	580	16.3	5,054	21.5	4,605	17.3
Graduate Study	4,431	22.3	162	19.5	110	18.0	2,165	24.3	1,411	19.7
Prof. Level Degree	7,278	21.8	317	19.1	295	17.9	2,870	24.1	2,644	19.5
Other	696	16.3	29	14.3	51	15.1	199	18.2	307	15.2
No Response	4,887	17.2	245	15.0	119	15.7	1,392	20.6	2,156	15.4

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	571	15.0	8	13.0	1	18.0	11	16.1	38	13.9
2-yr College Degree	1,620	15.1	17	14.6	8	15.8	35	17.1	118	14.4
Bachelors Degree	12,175	19.2	282	20.3	60	18.3	461	20.3	585	18.2
Graduate Study	4,431	22.3	185	23.8	18	20.8	149	23.2	231	21.9
Prof. Level Degree	7,278	21.8	424	24.8	34	20.9	294	22.4	400	21.8
Other	696	16.3	18	17.6	4	15.0	24	18.7	64	16.1
No Response	4,887	17.2	136	20.4	14	17.4	125	19.1	700	16.1

Total Students in Report: 31,658

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
ARIZONA STATE UNIVERSITY	Arizona	12,376	5,474	6,902	6	18	28	25	15	7	1
UNIVERSITY OF ARIZONA	Arizona	10,708	3,833	6,875	6	17	27	25	15	8	1
NORTHERN ARIZONA UNIVERSITY	Arizona	8,381	2,008	6,373	5	16	29	28	16	6	0
GRAND CANYON UNIVERSITY	Arizona	4,226	1,010	3,216	8	23	33	24	10	3	0
GLENDALE COMMUNITY COLLEGE	Arizona	2,326	707	1,619	13	31	32	17	6	1	0
STATE-COLLEGE/NO REPORTS NOW	Iowa	1,641	1,640	1	15	27	28	17	8	5	1
PHOENIX COLLEGE	Arizona	1,593	356	1,237	20	40	30	8	2	0	0
PIMA COMMUNITY COLLEGE	Arizona	1,236	342	894	14	30	31	17	5	2	0
ARIZONA WESTERN COLLEGE	Arizona	1,220	658	562	22	37	27	12	2	1	0
CHANDLER-GILBERT COMMUNITY COLLEGE	Arizona	1,040	330	710	8	24	33	24	9	2	0
MESA COMMUNITY COLLEGE	Arizona	882	168	714	10	26	29	22	10	4	0
UNIVERSITY OF SOUTHERN CALIFORNIA	California	792	144	648	5	17	26	25	14	11	1
SAN DIEGO STATE UNIVERSITY	California	789	127	662	3	16	29	28	17	6	0
GATEWAY COMMUNITY COLLEGE	Arizona	787	176	611	21	41	24	11	3	0	0
BRIGHAM YOUNG UNIVERSITY	Utah	765	450	315	1	3	9	28	32	25	3
ART INSTITUTE OF PHOENIX THE	Arizona	752	231	521	14	31	33	16	5	1	0
NCAA ELIGIBILITY CENTER	Indiana	625	293	332	4	16	30	28	15	6	1
STANFORD UNIVERSITY	California	587	156	431	0	3	12	20	24	30	10
UNIVERSITY OF CALIFORNIA-LOS ANGELES	California	523	111	412	2	8	25	29	20	15	1
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	482	114	368	0	3	11	34	32	18	1
SOUTH MOUNTAIN COMMUNITY COLLEGE	Arizona	434	99	335	21	42	27	8	1	0	0
ESTRELLA MOUNTAIN COMMUNITY COLLEGE	Arizona	427	104	323	13	31	37	14	4	0	0
UNIVERSITY OF SAN DIEGO	California	384	41	343	2	12	24	29	22	10	1
SCOTTSDALE COMMUNITY COLLEGE	Arizona	366	59	307	12	24	34	21	7	1	0
COCONINO COMMUNITY COLLEGE	Arizona	344	108	236	10	27	33	22	5	2	0
ARIZONA CHRISTIAN UNIVERSITY	Arizona	330	84	246	12	19	27	25	12	5	0
DEVRY UNIVERSITY-PHOENIX AZ	Arizona	320	54	266	13	28	29	22	7	2	0
EASTERN ARIZONA COLLEGE	Arizona	313	97	216	10	21	27	26	11	5	0
ART INST OF CALIFORNIA-SAN DIEGO THE	California	303	45	258	16	37	31	13	3	0	0
UNIVERSITY OF OREGON	Oregon	296	65	231	3	13	26	29	20	10	0
All Other Institutions		21,168	4,750	16,418	7	15	23	23	18	13	2
Total		76,416	23,834	52,582	8	19	27	23	14	8	1

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: 31,658

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	8,033	942,769	22.5	21.3	7.2	7.0	21.6	20.5
Black/African American	327	114,751	18.4	16.3	6.7	6.1	18.2	16.0
American Indian/Alaska Native	435	6,031	15.4	16.8	6.1	6.1	15.4	16.4
White	3,842	518,407	24.8	22.9	7.4	7.2	23.5	21.9
Hispanic/Latino	2,250	151,504	19.8	18.6	7.0	6.8	19.5	18.3
Asian	408	54,580	24.7	23.5	7.6	7.6	23.6	22.7
Native Hawaiian/Other Pac. Isl.	37	2,812	20.1	19.5	6.6	6.9	19.3	19.2
Two or more races	315	35,355	23.4	21.5	7.4	7.0	22.5	20.6
Prefer not/No Response	419	59,329	24.1	21.8	7.4	7.1	22.9	20.9
Males	3,434	423,104	22.5	21.0	7.1	6.7	21.5	20.1
Females	4,595	513,945	22.6	21.6	7.3	7.2	21.8	20.9
Missing	4	5,720	18.8	16.6	7.5	6.3	19.3	16.5

