



Profile Report - State

Graduating Class 2015

Pennsylvania



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

This report focuses on:

Performance - student test performance in the context of college readiness

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

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

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

Awareness - extent to which student aspirations match performance

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

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

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

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

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

The ACT:

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

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

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

40% 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: 29,776 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. 80% 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 1% of the cohort took less than three years of math courses. Of these students, 18% were college ready. 6% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 12% 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. 24% of these students were college ready. In comparison, 53% 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 33% 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

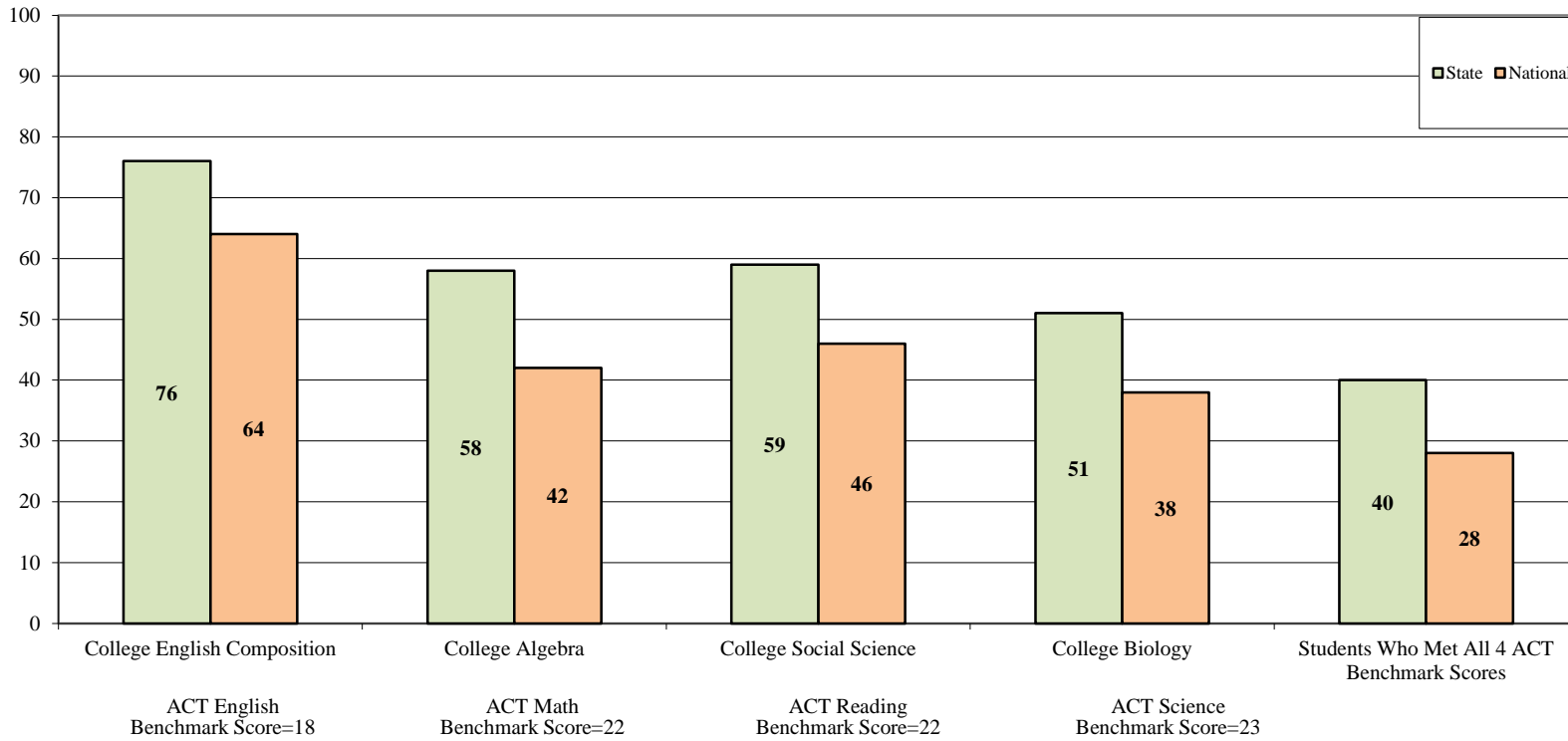
Executive Summary

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.

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

Year	Number of Students Tested		Percent Who Met Benchmarks									
			English		Mathematics		Reading		Science		Met All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2011	24,280	1,623,112	75	66	58	45	62	52	37	30	33	25
2012	25,426	1,666,017	76	67	59	46	62	52	38	31	34	25
2013	26,171	1,799,243	77	64	61	44	57	44	47	36	38	26
2014	27,136	1,845,787	75	64	59	43	55	44	49	37	38	26
2015	29,776	1,924,436	76	64	58	42	59	46	51	38	40	28

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2011	24,280	1,623,112	21.9	20.6	22.6	21.1	22.6	21.3	21.8	20.9	22.3	21.1
2012	25,426	1,666,017	22.0	20.5	22.7	21.1	22.7	21.3	21.9	20.9	22.4	21.1
2013	26,171	1,799,243	22.2	20.2	23.0	20.9	23.0	21.1	22.2	20.7	22.7	20.9
2014	27,136	1,845,787	22.1	20.3	22.8	20.9	23.0	21.3	22.2	20.8	22.7	21.0
2015	29,776	1,924,436	22.5	20.4	22.8	20.8	23.2	21.4	22.5	20.9	22.9	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
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
2015	1,924,436	20.4	20.8	21.4	20.9	21.0

Total Students in Report: 29,776

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
2011	19,185	4,264	79	18	22.4	20.5	23.0	21.4	23.0	21.3	22.2	20.6	22.8	21.1
2012	20,598	4,227	81	17	22.3	20.8	22.9	21.7	23.0	21.6	22.2	20.9	22.7	21.4
2013	21,156	4,395	81	17	22.5	21.0	23.3	22.1	23.3	22.0	22.4	21.3	23.0	21.7
2014	22,017	4,630	81	17	22.4	21.2	23.1	22.1	23.2	22.1	22.5	21.5	22.9	21.9
2015	23,936	5,227	80	18	22.8	21.6	23.1	22.1	23.5	22.3	22.8	21.8	23.1	22.1

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.

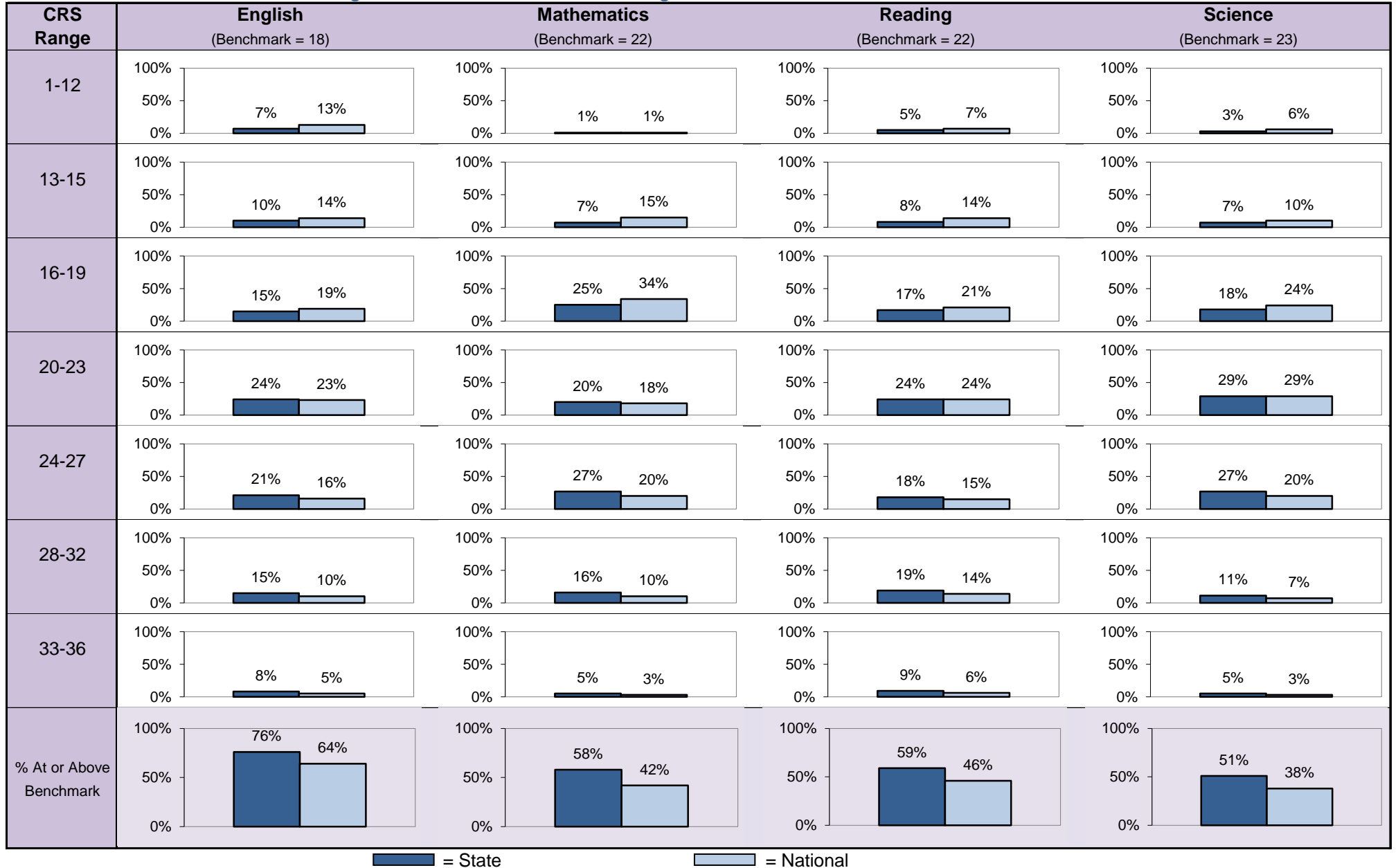
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2011			2012			2013			2014			2015		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	24,280	100	22.3	25,426	100	22.4	26,171	100	22.7	27,136	100	22.7	29,776	100	22.9
Black/African American	2,738	11	16.8	2,705	11	17.0	2,384	9	17.1	2,800	10	17.0	2,887	10	17.1
American Indian/Alaska Native	39	0	18.7	43	0	20.7	37	0	19.0	61	0	19.3	60	0	18.7
White	17,987	74	23.2	18,638	73	23.3	19,396	74	23.4	19,517	72	23.5	21,164	71	23.7
Hispanic/Latino	843	3	20.3	1,055	4	19.8	1,092	4	20.0	1,227	5	20.3	1,462	5	20.2
Asian	971	4	23.9	1,100	4	23.4	1,120	4	24.1	1,332	5	23.6	1,547	5	24.5
Native Hawaiian/Other Pacific Islander	7	0	22.9	28	0	20.6	27	0	20.9	29	0	22.2	21	0	21.1
Two or more races	507	2	21.1	591	2	21.5	674	3	22.0	741	3	21.6	865	3	22.2
Prefer not to respond/No response	1,188	5	22.4	1,266	5	23.6	1,441	6	23.8	1,429	5	23.4	1,770	6	23.8

Total Students in Report: 29,776

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



Total Students in Report: 29,776

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	28,824	97	22.5	22.9	23.2	22.6	22.9
	Extended Time	952	3	20.7	21.0	22.7	21.4	21.6
	Total	29,776	100	22.5	22.8	23.2	22.5	22.9
National	Standard Time	1,838,433	96	20.6	21.0	21.5	21.1	21.2
	Extended Time	86,003	4	16.5	18.1	18.8	18.3	18.1
	Total	1,924,436	100	20.4	20.8	21.4	20.9	21.0

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

Student Group	Test Session Duration	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Standard Time	76	59	59	51	40
	Extended Time	65	43	53	41	33
	Total	76	58	59	51	40
National	Standard Time	65	43	47	39	28
	Extended Time	38	22	32	23	16
	Total	64	42	46	38	28

Section II

Academic Achievement

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

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

Total Students in Report: 29,776

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	135	100	162	100	314	100	246	100	30	100	36
35	639	100	284	99	437	99	384	99	171	100	35
34	846	97	491	99	831	97	480	98	406	99	34
33	709	95	415	97	1,130	95	429	96	584	98	33
32	939	92	511	95	1,062	91	665	95	699	96	32
31	866	89	577	94	1,062	87	361	93	841	94	31
30	769	86	849	92	1,297	84	616	91	1,038	91	30
29	798	84	1,035	89	1,084	79	665	89	1,195	87	29
28	1,202	81	1,785	85	1,135	76	963	87	1,400	83	28
27	987	77	1,864	79	1,211	72	1,210	84	1,597	79	27
26	1,458	74	2,321	73	1,229	68	1,753	80	1,809	73	26
25	2,002	69	1,856	65	1,275	64	2,414	74	1,859	67	25
24	1,684	62	2,012	59	1,682	59	2,702	66	2,016	61	24
23	1,897	56	1,873	52	1,870	54	2,331	57	2,105	54	23
22	1,674	50	1,341	46	1,829	48	1,854	49	1,974	47	22
21	2,010	44	1,192	42	1,840	41	2,465	43	1,898	40	21
20	1,712	37	1,458	38	1,691	35	1,862	34	1,737	34	20
19	1,212	32	1,481	33	1,563	30	1,725	28	1,576	28	19
18	1,119	28	1,617	28	1,382	24	1,450	22	1,479	23	18
17	977	24	2,233	22	1,026	20	1,131	17	1,308	18	17
16	1,231	21	2,038	15	1,019	16	1,064	14	1,143	14	16
15	1,469	16	1,298	8	986	13	830	10	941	10	15
14	871	12	586	4	839	9	587	7	782	7	14
13	529	9	286	2	639	7	607	5	543	4	13
12	525	7	122	1	682	5	335	3	359	2	12
11	462	5	48	1	259	2	296	2	159	1	11
10	440	4	22	1	234	1	146	1	79	1	10
9	312	2	7	1	38	1	110	1	31	1	9
8	125	1	7	1	43	1	47	1	8	1	8
7	106	1	0	1	41	1	11	1	6	1	7
6	41	1	4	1	26	1	11	1	2	1	6
5	15	1	0	1	4	1	17	1	1	1	5
4	7	1	0	1	10	1	2	1	0	1	4
3	3	1	0	1	1	1	3	1	0	1	3
2	5	1	0	1	5	1	2	1	0	1	2
1	0	1	1	1	0	1	2	1	0	1	1
Avg (SD)	22.5 (6.5)		22.8 (5.4)		23.2 (6.4)		22.5 (5.5)		22.9 (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: 29,776

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	1,866	100	629	100	1,344	100	1,845	100	1,876	100	354	100	388	100	18
17	2,622	94	715	98	2,048	95	2,163	94	1,782	94	458	99	178	99	17
16	1,504	85	2,456	95	2,351	89	2,417	87	2,816	88	1,056	97	1,928	98	16
15	2,439	80	2,436	87	2,333	81	3,087	78	2,355	78	2,564	94	2,634	92	15
14	1,545	72	2,359	79	2,026	73	2,593	68	2,420	70	3,814	85	3,287	83	14
13	2,267	66	3,111	71	2,956	66	2,379	59	3,222	62	3,677	72	3,134	72	13
12	2,278	59	3,140	61	2,941	56	2,295	51	3,177	51	2,857	60	3,368	61	12
11	3,150	51	3,446	50	2,690	46	2,361	44	2,115	41	3,901	50	3,121	50	11
10	2,629	41	2,503	39	2,939	37	2,062	36	2,355	34	3,573	37	3,298	39	10
9	2,115	32	2,932	30	1,963	27	2,139	29	2,134	26	3,191	25	3,138	28	9
8	2,123	25	2,254	20	2,380	21	1,611	22	1,924	19	1,990	15	2,139	18	8
7	1,654	18	1,186	13	1,915	13	1,532	16	2,120	12	1,207	8	1,257	11	7
6	1,431	12	969	9	839	6	1,607	11	882	5	299	4	765	6	6
5	923	7	788	6	524	4	921	6	358	2	438	3	542	4	5
4	666	4	523	3	225	2	513	3	146	1	131	1	190	2	4
3	396	2	245	1	94	1	166	1	62	1	199	1	260	1	3
2	148	1	70	1	142	1	80	1	28	1	6	1	9	1	2
1	20	1	14	1	66	1	5	1	4	1	61	1	140	1	1
Avg (SD)	11.5 (4.0)		11.4 (3.4)		11.8 (3.6)		12.0 (3.9)		12.2 (3.5)		11.5 (2.9)		11.4 (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	28	26	27
Q2 (50th Percentile)	23	23	23	23	23
Q1 (25th Percentile)	18	18	19	19	19

Total Students in Report: 29,776

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	29,776	80	23.1	22.1
	Black/African American	2,887	72	17.3	16.7
	American Indian/Alaska Native	60	70	19.3	16.8
	White	21,164	83	23.8	23.3
	Hispanic/Latino	1,462	74	20.8	18.8
	Asian	1,547	72	24.8	24.1
	Native Hawaiian/Other Pac. Isl.	21	67	22.5	19.3
	Two or more races	865	83	22.6	21.0
	Prefer not/No Response	1,770	69	24.4	23.5
National	All Students	1,924,436	72	21.9	18.9
	Black/African American	252,566	67	17.8	15.9
	American Indian/Alaska Native	14,711	61	19.0	16.5
	White	1,057,803	76	23.2	20.2
	Hispanic/Latino	299,920	71	19.6	17.4
	Asian	87,499	79	24.5	22.0
	Native Hawaiian/Other Pac. Isl.	6,090	62	20.3	16.5
	Two or more races	76,066	73	22.0	19.3
	Prefer not/No Response	129,781	54	22.6	18.5

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	22.5	22.8	23.2	22.5	22.9
	Black/African American	16.0	17.7	17.3	17.1	17.1
	American Indian/Alaska Native	17.4	18.9	19.1	18.8	18.7
	White	23.4	23.4	24.1	23.3	23.7
	Hispanic/Latino	19.3	20.4	20.7	20.0	20.2
	Asian	23.7	26.0	23.7	24.1	24.5
	Native Hawaiian/Other Pac. Isl.	20.4	21.5	21.4	20.5	21.1
	Two or more races	21.8	22.0	22.8	21.8	22.2
	Prefer not/No Response	23.6	23.6	24.2	23.2	23.8
National	All Students	20.4	20.8	21.4	20.9	21.0
	Black/African American	15.9	17.2	17.4	17.3	17.1
	American Indian/Alaska Native	16.6	18.1	18.4	18.2	17.9
	White	22.1	21.9	22.9	22.2	22.4
	Hispanic/Latino	17.8	19.1	19.2	19.0	18.9
	Asian	23.0	25.0	23.3	23.6	23.9
	Native Hawaiian/Other Pac. Isl.	17.7	19.2	18.9	18.8	18.8
	Two or more races	20.7	20.8	21.8	21.1	21.2
	Prefer not/No Response	19.9	20.5	21.1	20.5	20.6

Total Students in Report: 29,776

Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	2,329	8	1,352	5	2,712	9	1,539	5
	28 to 32	4,574	15	4,757	16	5,640	19	3,270	11
	24 to 27	6,131	21	8,053	27	5,397	18	8,079	27
	20 to 23	7,293	24	5,864	20	7,230	24	8,512	29
	16 to 19	4,539	15	7,369	25	4,990	17	5,370	18
	13 to 15	2,869	10	2,170	7	2,464	8	2,024	7
	01 to 12	2,041	7	211	1	1,343	5	982	3
National	33 to 36	100,774	5	54,201	3	114,663	6	62,731	3
	28 to 32	198,676	10	185,515	10	261,565	14	140,666	7
	24 to 27	303,299	16	384,130	20	281,364	15	388,063	20
	20 to 23	444,997	23	352,854	18	463,232	24	559,967	29
	16 to 19	357,690	19	646,399	34	409,189	21	462,353	24
	13 to 15	277,710	14	283,831	15	264,288	14	200,383	10
	01 to 12	241,290	13	17,506	1	130,135	7	110,273	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	12,872	43	22.3	23.7	23.4	23.3	23.3
	Females	16,849	57	22.6	22.1	23.1	22.0	22.6
	Missing	55	0	18.9	24.7	18.6	19.8	20.6
National	Males	895,775	47	20.0	21.3	21.2	21.3	21.1
	Females	1,013,212	53	20.8	20.4	21.6	20.6	21.0
	Missing	15,449	1	15.7	17.7	17.6	17.5	17.3

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

Student Group	Gender	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Males	75	65	60	57	45
	Females	77	54	58	47	36
National	Males	61	46	45	42	30
	Females	66	39	47	36	26

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	23,936	78	22.8	60	23.1	61	23.5	53	22.8	42	23.1
	Less than Core	5,227	69	21.6	52	22.1	52	22.3	46	21.8	36	22.1
	Missing ³	613	55	18.9	33	19.7	36	20.1	28	19.7	19	19.7
National	Core or More	1,389,338	71	21.4	49	21.7	52	22.3	44	21.8	33	21.9
	Less than Core	424,562	48	18.0	27	18.9	32	19.3	24	19.0	16	18.9
	Missing	110,536	38	16.3	19	17.8	25	18.0	19	17.8	11	17.6

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	28,695	77	22.6	28,775	59	23.0	25,241	59	23.3	28,076	53	22.7
	Less than Core	497	60	19.4	417	18	18.0	3,947	57	23.0	1,114	24	18.9
	Missing ³	584	57	19.1	584	34	19.8	588	36	20.2	586	29	19.7
National	Core or More	1,732,463	67	20.8	1,743,121	45	21.2	1,627,689	49	21.8	1,592,830	42	21.5
	Less than Core	93,944	36	15.9	78,951	8	16.3	194,720	34	19.5	227,926	18	18.1
	Missing	98,029	40	16.5	102,364	20	17.8	102,027	26	18.1	103,680	20	18.0

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

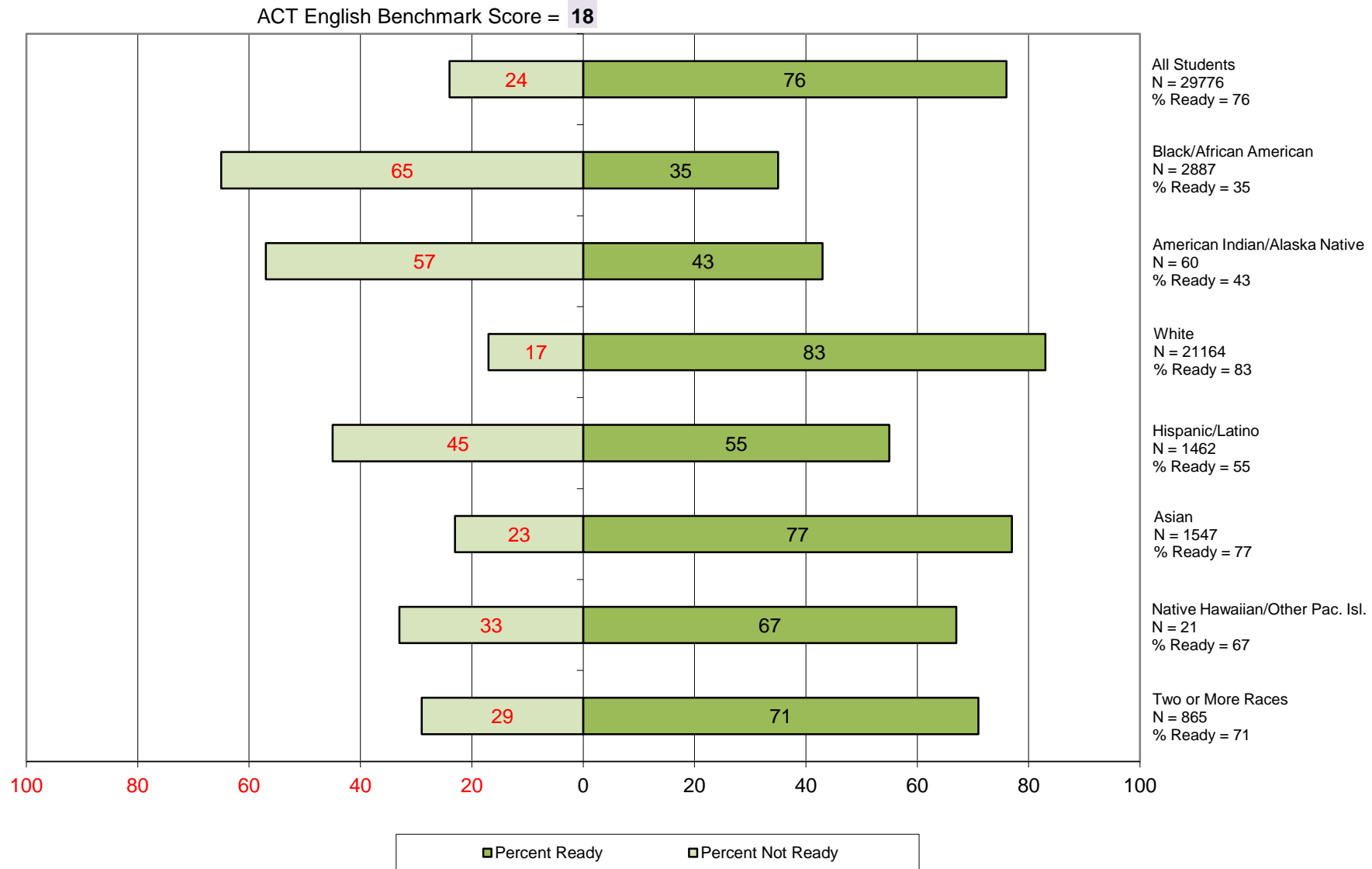


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

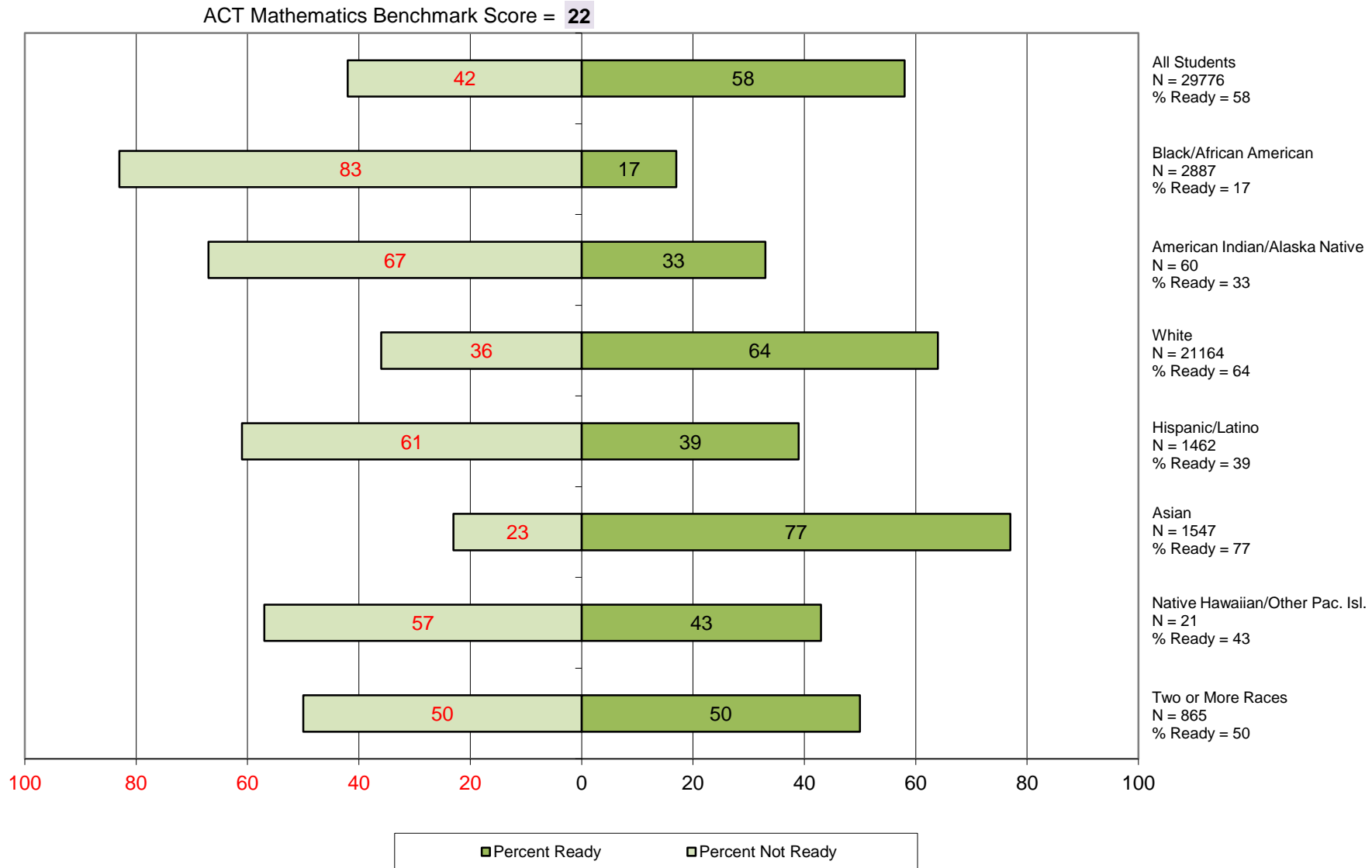


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

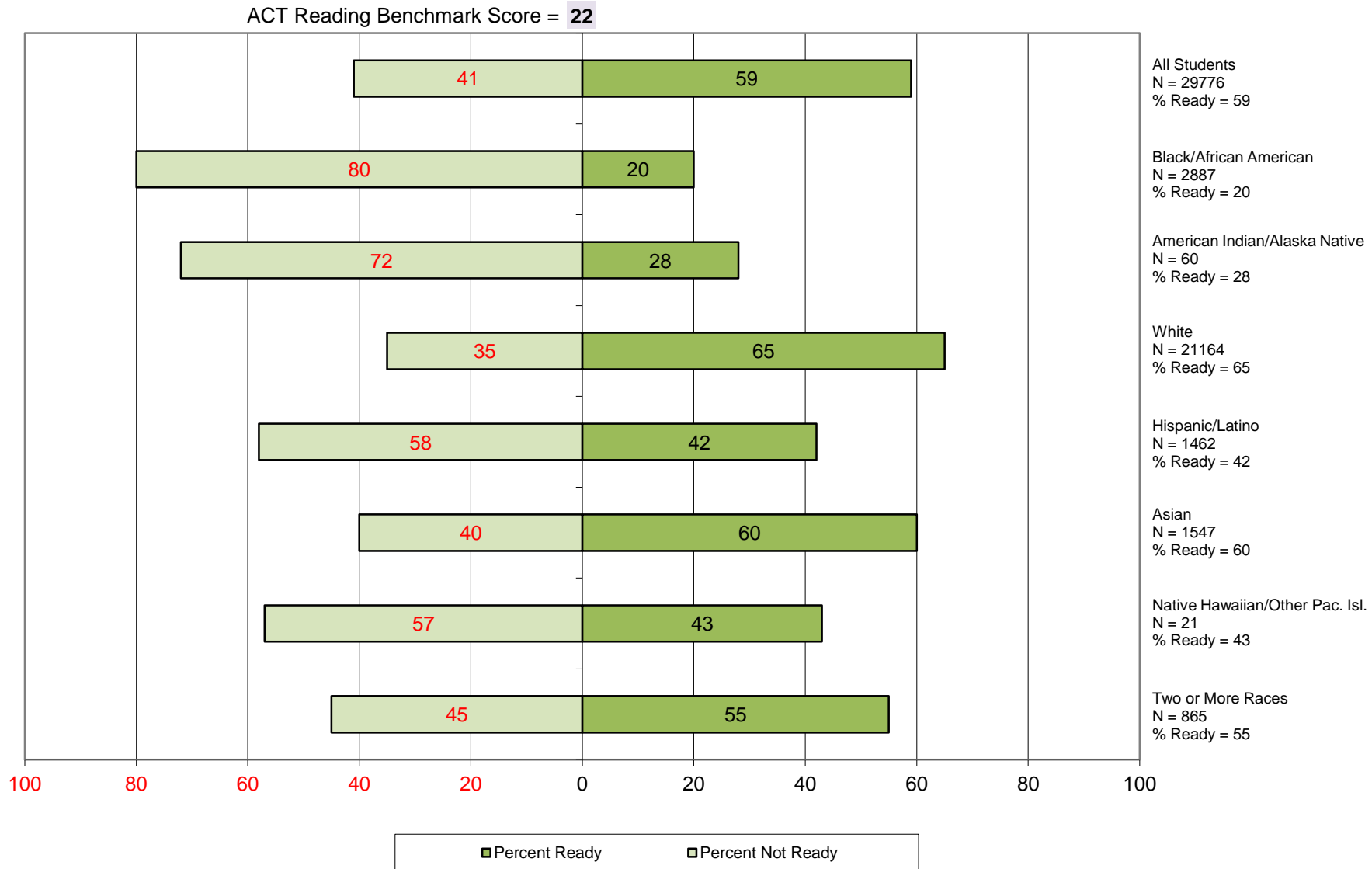


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

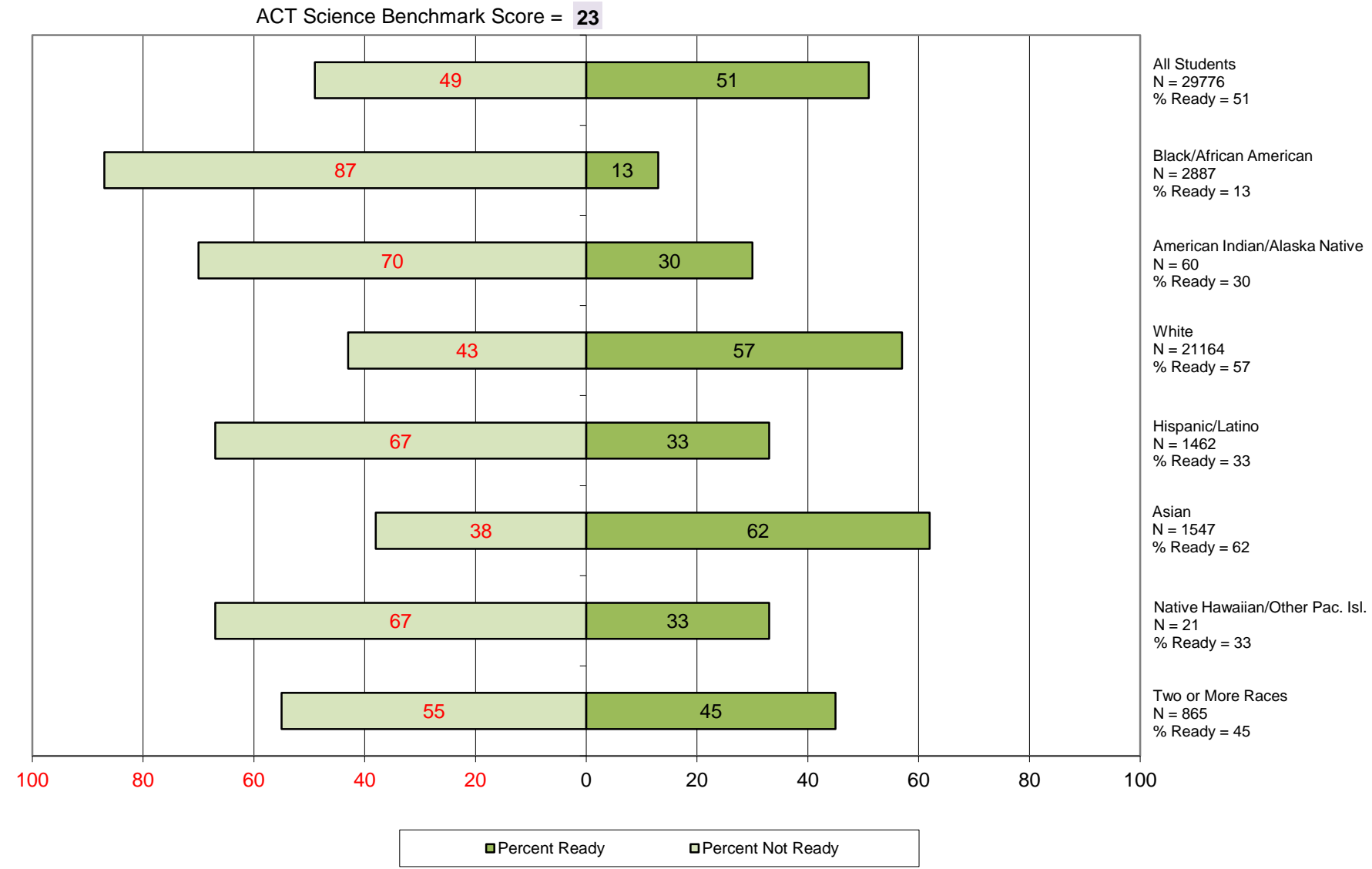
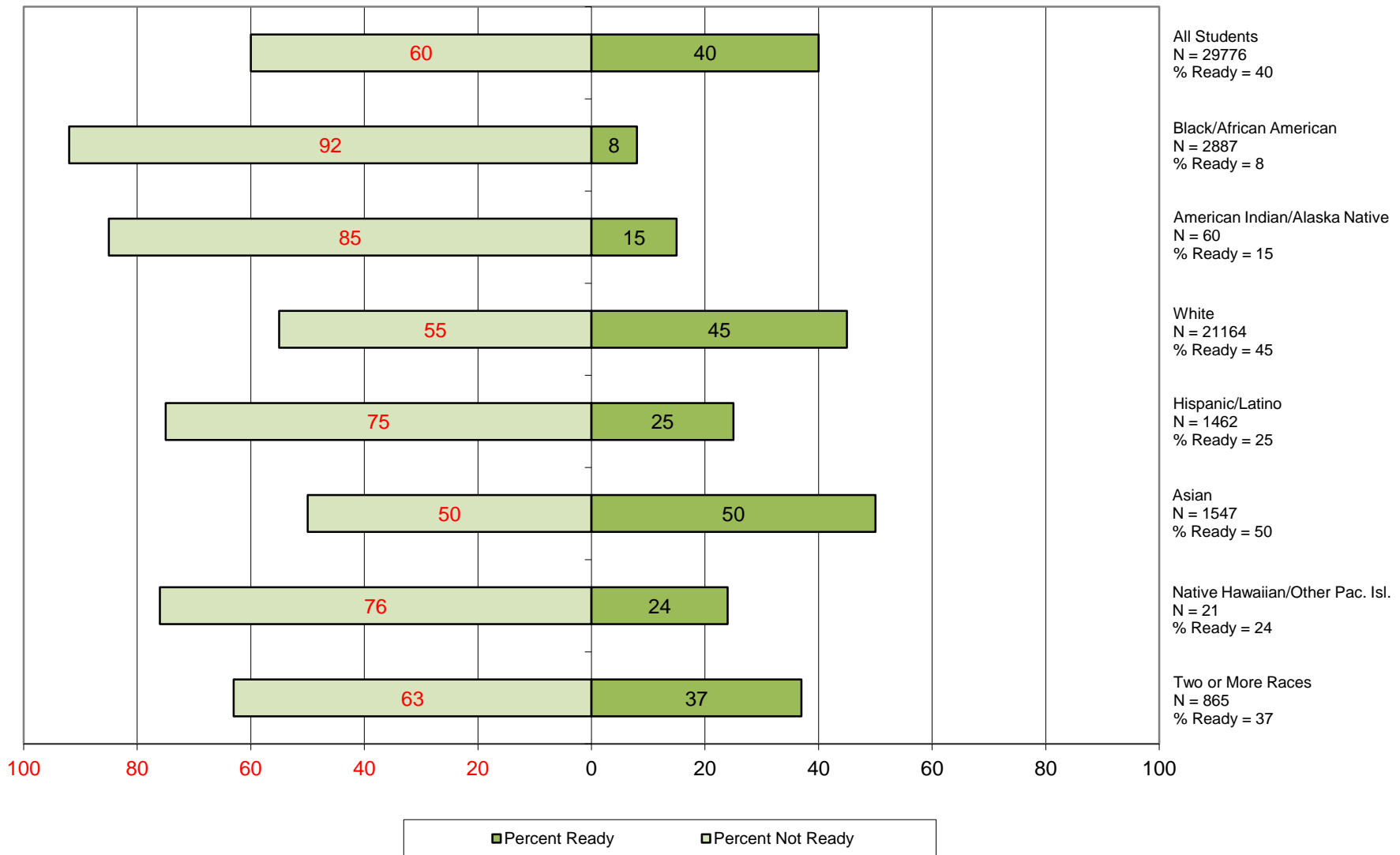


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 29,776

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	5,909	20	22.9	3.5	2,379	18	22.8	3.7	3,530	21	23.0	3.2
Eng 9, Eng 10, Eng 11, Eng 12	22,786	77	22.5	3.1	9,973	77	22.4	3.3	12,813	76	22.6	2.8
Less than 4 years of English	497	2	19.4	-	242	2	19.1	-	255	2	19.8	-
Zero years / no English courses reported	584	2	19.1	-	278	2	18.9	-	251	1	19.4	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	3,953	13	24.5	6.5	1,633	13	25.4	6.6	2,320	14	23.9	6.7
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,819	9	21.5	3.5	900	7	22.1	3.3	1,919	11	21.3	4.1
Alg 1, Alg 2, Geom, & Trig	2,100	7	19.5	1.5	775	6	19.8	1.0	1,325	8	19.3	2.1
Alg 1, Alg 2, Geom, & Other Adv Math	2,821	9	19.5	1.5	992	8	19.9	1.1	1,829	11	19.3	2.1
Other comb of 4 or more years of Math	14,197	48	24.8	6.8	6,912	54	25.6	6.8	7,285	43	24.0	6.8
Alg 1, Alg 2, & Geom	1,641	6	17.2	-0.8	682	5	17.6	-1.2	959	6	16.9	-0.3
Other comb of 3 or 3.5 years of Math	1,244	4	21.5	3.5	510	4	21.7	2.9	734	4	21.4	4.2
Less than 3 years of Math	417	1	18.0	-	194	2	18.8	-	223	1	17.2	-
Zero years / no Math courses reported	584	2	19.8	-	274	2	19.7	-	255	2	18.8	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,156	7	23.4	0.4	1,089	8	23.3	0.1	1,067	6	23.5	0.7
Other comb of 4 or more years Social Science	13,767	46	23.3	0.3	5,892	46	23.4	0.2	7,875	47	23.2	0.4
US Hist, World Hist, & Am Gov	1,672	6	22.7	-0.3	760	6	23.1	-0.1	912	5	22.4	-0.4
Other comb of 3 or 3.5 years of Social Science	7,646	26	23.5	0.5	3,114	24	23.8	0.6	4,532	27	23.3	0.5
Less than 3 years of Social Science	3,947	13	23.0	-	1,743	14	23.2	-	2,204	13	22.8	-
Zero years / no Social Science courses reported	588	2	20.2	-	274	2	20.3	-	259	2	20.4	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	18,625	63	23.1	4.2	8,563	67	23.9	5.1	10,062	60	22.5	3.5
Bio, Chem, Phys	3,617	12	24.4	5.5	1,579	12	25.5	6.7	2,038	12	23.6	4.6
Gen Sci ² , Bio, Chem	5,539	19	20.4	1.5	1,827	14	20.1	1.3	3,712	22	20.5	1.5
Other comb of 3 years of Natural Science	295	1	20.2	1.3	164	1	20.8	2.0	131	1	19.5	0.5
Less than 3 years of Natural Science	1,114	4	18.9	-	463	4	18.8	-	651	4	19.0	-
Zero years / no Natural Science courses reported	586	2	19.7	-	276	2	20.2	-	255	2	19.2	-

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: 29,776

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	5,909	20	22.9	78	373,145	19	21.7	72
Eng 9, Eng 10, Eng 11, Eng 12	22,786	77	22.5	76	1,359,318	71	20.6	65
Less than 4 years of English	497	2	19.4	60	93,944	5	15.9	36
Zero years / no English courses reported	584	2	19.1	57	98,029	5	16.5	40
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	3,953	13	24.5	75	123,105	6	23.5	65
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,819	9	21.5	50	164,036	9	21.7	53
Alg 1, Alg 2, Geom, & Trig	2,100	7	19.5	30	123,192	6	19.1	28
Alg 1, Alg 2, Geom, & Other Adv Math	2,821	9	19.5	32	362,476	19	19.4	30
Other comb of 4 or more years of Math	14,197	48	24.8	73	655,589	34	23.7	64
Alg 1, Alg 2, & Geom	1,641	6	17.2	12	219,221	11	17.1	11
Other comb of 3 or 3.5 years of Math	1,244	4	21.5	49	95,502	5	19.8	34
Less than 3 years of Math	417	1	18.0	18	78,951	4	16.3	8
Zero years / no Math courses reported	584	2	19.8	34	102,364	5	17.8	20
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,156	7	23.4	59	48,944	3	22.3	51
Other comb of 4 or more years Social Science	13,767	46	23.3	60	942,441	49	22.3	52
US Hist, World Hist, & Am Gov	1,672	6	22.7	54	108,348	6	19.7	35
Other comb of 3 or 3.5 years of Social Science	7,646	26	23.5	60	527,956	27	21.4	46
Less than 3 years of Social Science	3,947	13	23.0	57	194,720	10	19.5	34
Zero years / no Social Science courses reported	588	2	20.2	36	102,027	5	18.1	26
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	18,625	63	23.1	56	807,744	42	22.2	48
Bio, Chem, Phys	3,617	12	24.4	66	217,893	11	23.2	55
Gen Sci ¹ , Bio, Chem	5,539	19	20.4	33	512,754	27	20.1	30
Other comb of 3 years of Natural Science	295	1	20.2	31	54,439	3	19.1	24
Less than 3 years of Natural Science	1,114	4	18.9	24	227,926	12	18.1	18
Zero years / no Natural Science courses reported	586	2	19.7	29	103,680	5	18.0	20

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: 29,776

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	234	1	21.9	11	3	15.5	205	1	22.2
Architecture	237	1	22.3	3	1	19.7	209	1	22.7
Area, Ethnic, & Multidisciplinary Studies	37	0	24.7	0	0	.	34	0	24.8
Arts: Visual & Performing	1,202	4	21.3	30	7	16.7	1,015	4	21.8
Business	3,770	13	22.3	54	13	17.7	3,245	13	22.6
Communications	826	3	21.9	4	1	16.0	732	3	22.1
Community, Family, & Personal Services	282	1	18.9	13	3	15.5	239	1	19.4
Computer Science & Mathematics	1,046	4	24.7	19	5	17.1	917	4	24.9
Education	1,298	4	20.8	12	3	16.3	1,152	5	21.0
Engineering	3,375	11	25.9	10	2	16.6	3,020	12	25.9
Engineering Technology & Drafting	235	1	21.1	8	2	17.5	192	1	21.7
English & Foreign Languages	350	1	24.8	3	1	17.3	312	1	24.9
Health Administration & Assisting	607	2	18.6	32	8	16.9	467	2	19.1
Health Sciences & Technologies	5,410	18	22.1	97	23	17.6	4,805	19	22.4
Philosophy, Religion, & Theology	108	0	23.1	2	0	20.0	89	0	23.3
Repair, Production, & Construction	57	0	16.7	21	5	16.8	25	0	17.4
Sciences: Biological & Physical	3,085	10	24.9	13	3	16.2	2,812	11	25.0
Social Sciences & Law	2,282	8	22.6	18	4	15.8	1,996	8	22.9
Undecided	4,877	16	22.8	62	15	18.9	3,741	15	23.0
No Response	456	2	20.1	3	1	14.7	42	0	21.6

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: 29,776

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	115	17.9	23	13.8	1	13.0	51	19.4	8	17.3
2-yr College Degree	301	17.0	46	14.7	0	.	186	18.1	23	14.9
Bachelors Degree	11,811	21.4	1,017	16.1	34	18.9	9,130	22.1	516	18.7
Graduate Study	6,776	24.6	353	19.2	8	20.6	5,331	25.0	261	22.9
Prof. Level Degree	6,663	25.0	632	19.7	6	19.5	4,433	25.7	372	22.6
Other	245	20.5	34	14.8	2	11.0	134	22.6	27	16.4
No Response	3,865	21.6	782	15.8	9	18.0	1,899	24.2	255	18.0

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	115	17.9	21	18.6	0	.	7	20.0	4	18.8
2-yr College Degree	301	17.0	17	15.8	1	12.0	9	17.8	19	16.4
Bachelors Degree	11,811	21.4	356	22.2	11	22.5	316	20.6	431	22.1
Graduate Study	6,776	24.6	299	25.5	3	26.3	186	24.0	335	25.3
Prof. Level Degree	6,663	25.0	570	26.6	3	17.7	223	24.4	424	26.2
Other	245	20.5	24	20.7	0	.	10	20.6	14	22.1
No Response	3,865	21.6	260	23.1	3	17.3	114	20.4	543	22.5

Total Students in Report: 29,776

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
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	3,278	1,255	2,023	1	6	17	27	29	17	3
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,612	1,093	1,519	0	2	9	26	36	23	3
TEMPLE UNIVERSITY	Pennsylvania	1,417	463	954	2	10	23	29	23	12	1
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	956	256	700	1	11	30	33	19	6	0
DREXEL UNIVERSITY	Pennsylvania	814	198	616	1	4	13	26	30	21	4
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	808	327	481	0	3	8	16	24	35	14
DUQUESNE UNIVERSITY	Pennsylvania	766	221	545	1	2	12	34	37	13	1
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	722	193	529	4	13	34	32	15	2	0
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	716	179	537	4	12	35	32	14	2	0
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	689	244	445	2	14	34	33	14	3	0
NCAA ELIGIBILITY CENTER	Indiana	594	354	240	2	9	23	28	24	12	2
WEST VIRGINIA UNIVERSITY	West Virginia	473	155	318	1	4	23	38	25	8	0
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	468	124	344	2	13	28	31	20	6	0
UNIVERSITY OF DELAWARE	Delaware	464	115	349	0	1	8	27	34	27	3
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	463	120	343	3	18	35	27	12	4	0
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	446	128	318	4	16	38	28	11	3	0
ROBERT MORRIS UNIVERSITY	Pennsylvania	420	103	317	0	9	25	37	21	8	1
VILLANOVA UNIVERSITY	Pennsylvania	378	105	273	1	5	12	25	30	22	5
LEHIGH UNIVERSITY	Pennsylvania	356	97	259	0	1	5	15	34	38	7
OHIO STATE UNIVERSITY THE	Ohio	354	100	254	1	3	7	27	37	23	3
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	351	126	225	4	18	36	28	11	2	1
CARNEGIE MELLON UNIVERSITY	Pennsylvania	348	116	232	1	1	3	14	29	37	16
GANNON UNIVERSITY	Pennsylvania	348	108	240	2	12	27	32	18	9	1
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	308	65	243	4	14	38	30	12	2	0
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	297	92	205	5	22	35	24	11	3	0
YORK COLLEGE OF PENNSYLVANIA	Pennsylvania	294	103	191	1	5	29	34	24	6	0
BUCKNELL UNIVERSITY	Pennsylvania	266	71	195	1	2	6	14	36	35	6
UNIVERSITY OF SCRANTON	Pennsylvania	260	72	188	0	4	14	33	35	12	2
ARCADIA UNIVERSITY	Pennsylvania	250	67	183	3	11	17	34	24	10	1
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	250	65	185	4	12	39	33	11	1	0
All Other Institutions		21,909	6,229	15,680	1	7	16	26	26	19	4
Total		42,075	12,944	29,131	1	7	18	27	26	17	4

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.

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	22,677	1,108,908	23.2	21.0	7.4	6.9	22.3	20.2
Black/African American	2,257	136,380	16.4	16.3	6.2	6.0	16.2	15.9
American Indian/Alaska Native	42	7,142	18.0	16.5	6.7	5.9	17.8	16.0
White	15,740	567,060	24.3	22.8	7.6	7.1	23.2	21.8
Hispanic/Latino	1,117	196,970	20.0	18.4	6.9	6.7	19.5	18.1
Asian	1,373	68,736	24.3	23.9	7.6	7.6	23.3	23.0
Native Hawaiian/Other Pac. Isl.	17	4,070	19.7	18.0	7.2	6.5	19.5	17.6
Two or more races	686	45,517	22.2	21.3	7.1	6.9	21.3	20.4
Prefer not/No Response	1,445	83,033	24.1	20.8	7.5	6.7	23.0	19.9
Males	9,607	507,737	23.2	20.7	7.2	6.6	22.1	19.7
Females	13,015	590,537	23.2	21.4	7.5	7.1	22.4	20.8
Missing	55	10,634	18.9	16.0	7.0	5.6	18.7	15.4

