

ACT Profile Report - State

Graduating Class 2013
Delaware



ACT, INC. -- CONFIDENTIAL



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Table of Contents

<p>Section I: Executive Summary</p> <ul style="list-style-type: none"> Percent of Your Students Ready for College-Level Coursework Five Year Trends—Percent of Students Who Met College Readiness Benchmarks Five Year Trends—Average ACT Scores Five Year Trends—Average ACT Scores by Level of Preparation Five Year Trends—Percent and Average Composite Score by Race/Ethnicity Percent of Students in College Readiness Standards Score Ranges Average ACT College Reportable Scores by Test Session Duration Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration 	<p>Page 5</p>
<p>Section II: Academic Achievement</p> <ul style="list-style-type: none"> ACT Score Distributions, Cumulative Percentages, Averages, and Quartile Values Average ACT Composite Scores for Race/Ethnicity by Level of Preparation Average ACT Scores by Race/Ethnicity Percent of Students in College Readiness Standards Score Ranges Average ACT Scores by Gender Percent of Students Who Met College Readiness Benchmark Scores by Gender College Readiness Benchmark Percent and Average ACT Scores by Overall High School Curriculum College Readiness Benchmark Percent and Average ACT Scores by Content-Specific Curriculum 	<p>Page 11</p>
<p>Section III: College Readiness & Impact of Course Rigor</p> <ul style="list-style-type: none"> Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity Average ACT Scores and Average ACT Score Changes by Common Course Patterns College Readiness Percents by Common Course Patterns 	<p>Page 17</p>
<p>Section IV: Career and Educational Aspirations</p> <ul style="list-style-type: none"> Distribution of Planned Educational Majors for All Students by College Plans Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations Students' Score Report Preferences at Time of Testing 	<p>Page 25</p>
<p>Section V: Optional Writing Test Results</p> <ul style="list-style-type: none"> Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing 	<p>Page 29</p>

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

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: 1,423 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. 78% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES: Table 3.2 reports 3% of the cohort took less than three years of math courses. Of these students, 28% were college ready. 4% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 11% 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. 16% of these students were college ready. In comparison, 50% 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.

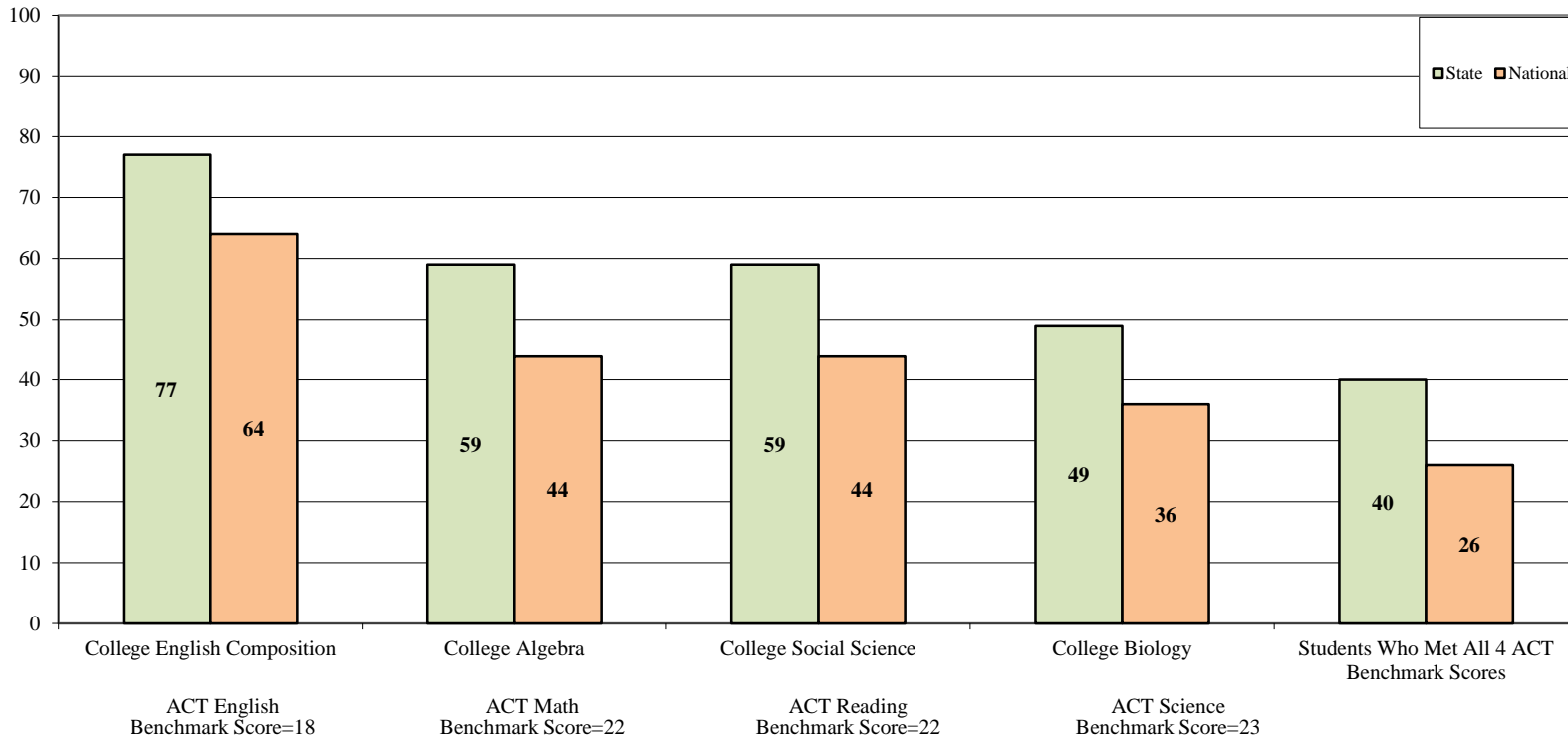
Section I

Executive Summary

Beginning 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: 1,423

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	1,060	1,480,469	77	67	55	42	64	53	37	28	31	23
2010	1,213	1,568,835	80	66	57	43	64	52	40	29	35	24
2011	1,481	1,623,112	74	66	57	45	60	52	39	30	34	25
2012	1,328	1,666,017	76	67	57	46	63	52	39	31	34	25
2013	1,423	1,799,243	77	64	59	44	59	44	49	36	40	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	1,060	1,480,469	22.2	20.6	22.5	21.0	23.1	21.4	22.0	20.9	22.6	21.1
2010	1,213	1,568,835	22.8	20.5	22.7	21.0	23.4	21.3	22.5	20.9	23.0	21.0
2011	1,481	1,623,112	22.0	20.6	22.4	21.1	22.7	21.3	22.0	20.9	22.4	21.1
2012	1,328	1,666,017	22.3	20.5	22.4	21.1	23.0	21.3	22.1	20.9	22.6	21.1
2013	1,423	1,799,243	22.5	20.2	22.8	20.9	23.4	21.1	22.4	20.7	22.9	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: 1,423

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	852	199	80	19	22.3	21.8	22.6	22.0	23.1	23.0	22.1	21.6	22.7	22.2
2010	971	235	80	19	22.6	23.7	22.6	23.5	23.2	24.3	22.4	23.1	22.8	23.7
2011	1,172	288	79	19	22.1	21.7	22.5	22.2	22.8	22.2	22.1	21.7	22.5	22.1
2012	1,030	272	78	20	22.4	22.2	22.5	22.3	23.1	22.8	22.3	21.7	22.7	22.4
2013	1,107	302	78	21	22.5	22.4	22.8	22.8	23.3	23.4	22.4	22.1	22.9	22.8

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.

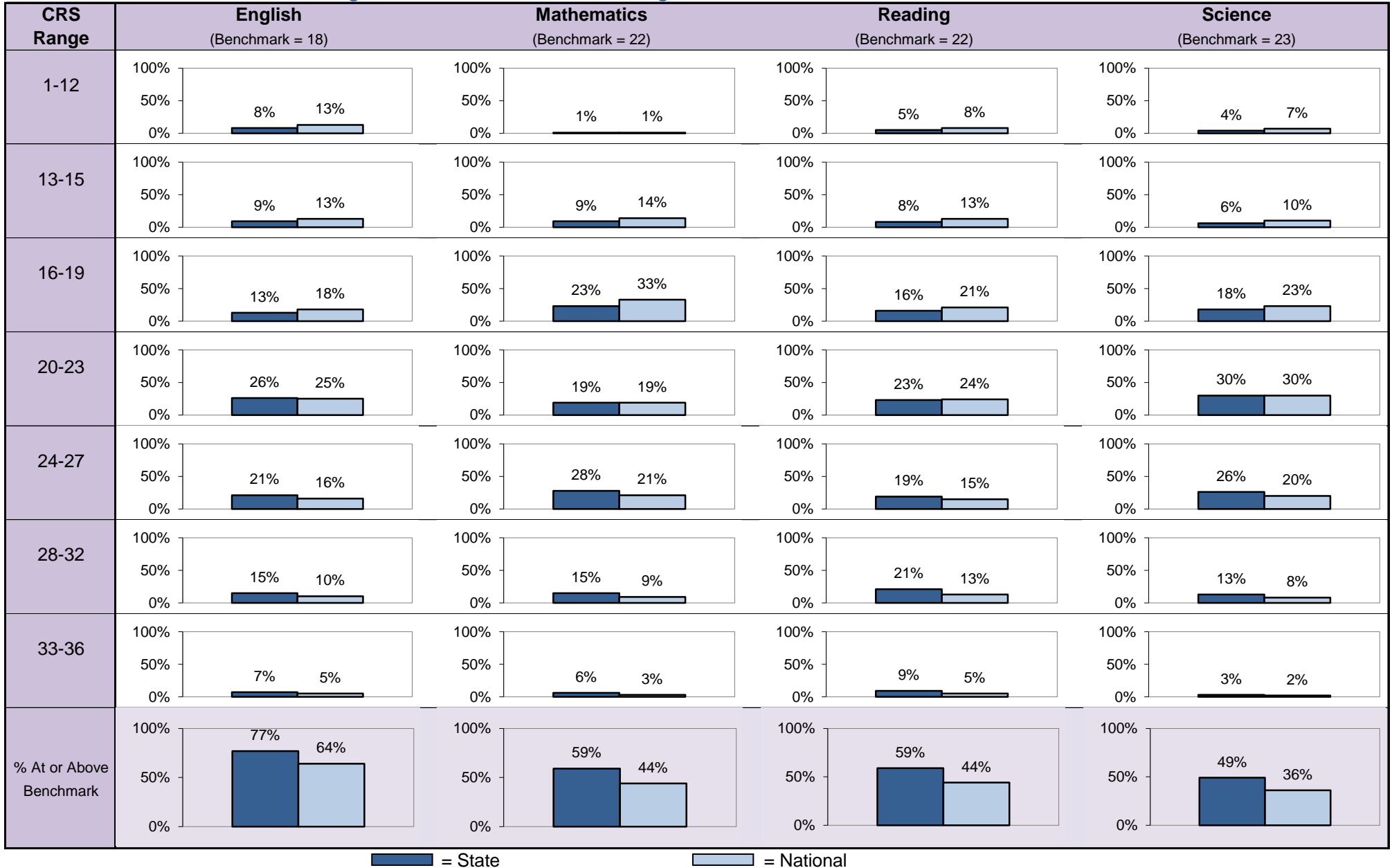
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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	1,060	100	22.6	1,213	100	23.0	1,481	100	22.4	1,328	100	22.6	1,423	100	22.9
Black/African American	170	16	18.5	193	16	18.3	252	17	17.3	227	17	17.7	244	17	17.5
American Indian/Alaska Native	4	0	19.3	4	0	19.5	4	0	20.3	5	0	22.4	2	0	24.0
White	733	69	23.3	836	69	23.9	972	66	23.5	876	66	23.6	914	64	24.0
Hispanic/Latino	20	2	21.9	40	3	22.7	59	4	21.0	46	3	21.1	55	4	21.4
Asian	36	3	26.4	55	5	26.6	62	4	27.2	65	5	25.9	86	6	26.4
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	7	0	20.1	1	0	26.0	3	0	18.3
Two or more races	27	3	23.1	30	2	22.5	58	4	22.1	43	3	21.7	47	3	22.1
Prefer not to respond/No response	70	7	22.8	55	5	23.4	67	5	22.8	65	5	23.2	72	5	24.1

Total Students in Report: 1,423

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



Total Students in Report: 1,423

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	1,383	97	22.5	22.8	23.3	22.3	22.9
	Extended Time	40	3	22.0	24.1	24.9	24.6	24.0
	Total	1,423	100	22.5	22.8	23.4	22.4	22.9
National	Standard Time	1,727,041	96	20.4	21.0	21.3	20.9	21.0
	Extended Time	72,202	4	15.9	17.7	18.1	17.9	17.5
	Total	1,799,243	100	20.2	20.9	21.1	20.7	20.9

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

Student Group	Test Session Duration	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Standard Time	77	59	58	49	39
	Extended Time	75	68	65	65	55
	Total	77	59	59	49	40
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: 1,423

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	11	100	10	100	28	100	15	100	3	100	36
35	23	99	15	99	10	98	9	99	10	100	35
34	33	98	32	98	50	97	9	98	14	99	34
33	39	95	23	96	43	94	11	98	27	98	33
32	35	93	22	94	45	91	25	97	32	96	32
31	43	90	34	93	89	88	27	95	45	94	31
30	45	87	33	90	55	81	35	93	47	91	30
29	35	84	51	88	45	78	50	91	50	87	29
28	55	81	70	85	61	74	50	87	84	84	28
27	66	78	93	80	54	70	50	84	75	78	27
26	82	73	97	73	45	66	66	80	92	73	26
25	72	67	99	66	62	63	122	76	91	66	25
24	83	62	105	59	103	59	128	67	87	60	24
23	99	56	100	52	67	52	101	58	78	54	23
22	86	49	55	45	77	47	119	51	121	48	22
21	99	43	63	41	102	41	122	43	92	40	21
20	91	36	52	37	78	34	88	34	81	33	20
19	46	30	60	33	72	29	82	28	77	28	19
18	57	27	61	29	66	24	76	22	63	22	18
17	34	23	100	24	44	19	44	17	57	18	17
16	51	20	113	17	42	16	57	14	42	14	16
15	55	17	73	9	40	13	35	10	50	11	15
14	33	13	36	4	35	10	23	7	40	7	14
13	37	11	14	2	40	8	21	6	26	5	13
12	28	8	6	1	34	5	16	4	26	3	12
11	26	6	4	1	20	3	19	3	8	1	11
10	27	4	2	1	6	1	11	2	2	1	10
9	15	2	0	1	6	1	8	1	0	1	9
8	6	1	0	1	3	1	0	1	3	1	8
7	4	1	0	1	0	1	1	1	0	1	7
6	6	1	0	1	1	1	3	1	0	1	6
5	1	1	0	1	0	1	0	1	0	1	5
4	0	1	0	1	0	1	0	1	0	1	4
3	0	1	0	1	0	1	0	1	0	1	3
2	0	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	22.5 (6.6)		22.8 (5.6)		23.4 (6.5)		22.4 (5.3)		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: 1,423

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	84	100	47	100	79	100	87	100	106	100	17	100	29	100	18
17	106	94	11	97	100	94	127	94	97	93	48	99	2	98	17
16	96	87	117	96	122	87	130	85	92	86	45	95	97	98	16
15	84	80	125	88	87	79	142	76	152	79	134	92	111	91	15
14	95	74	142	79	82	73	109	66	114	69	157	83	141	83	14
13	100	67	134	69	140	67	113	58	120	61	188	72	172	73	13
12	113	60	184	60	161	57	116	50	127	52	139	59	202	61	12
11	162	52	132	47	135	46	113	42	141	43	134	49	120	47	11
10	137	41	139	37	121	36	93	34	95	33	184	39	136	39	10
9	115	31	114	28	87	28	90	28	88	27	104	26	147	29	9
8	78	23	78	20	84	22	95	21	109	20	120	19	96	19	8
7	79	18	61	14	107	16	69	15	92	13	44	11	61	12	7
6	54	12	49	10	51	8	60	10	54	6	44	8	56	8	6
5	50	8	47	6	33	5	51	6	20	3	32	5	12	4	5
4	35	5	30	3	20	2	21	2	10	1	13	2	27	3	4
3	22	2	9	1	6	1	5	1	6	1	12	1	6	1	3
2	12	1	4	1	6	1	2	1	0	1	1	1	7	1	2
1	1	1	0	1	2	1	0	1	0	1	7	1	1	1	1
Avg (SD)	11.4 (4.0)		11.5 (3.4)		11.8 (3.7)		12.1 (3.9)		12.1 (3.7)		11.4 (3.2)		11.3 (3.2)		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	25	27
Q2 (50th Percentile)	23	23	23	22	23
Q1 (25th Percentile)	18	18	19	19	19

Total Students in Report: 1,423

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	1,423	78	22.9	22.8
	Black/African American	244	73	17.8	16.6
	American Indian/Alaska Native	2	100	24.0	.
	White	914	79	23.9	24.4
	Hispanic/Latino	55	69	21.2	21.9
	Asian	86	77	26.1	27.5
	Native Hawaiian/Other Pac. Isl.	3	67	21.5	12.0
	Two or more races	47	87	21.8	24.2
	Prefer not/No Response	72	78	24.3	24.4
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	22.5	22.8	23.4	22.4	22.9
	Black/African American	16.1	18.0	17.8	17.7	17.5
	American Indian/Alaska Native	24.5	26.0	21.5	22.5	24.0
	White	23.8	23.7	24.7	23.4	24.0
	Hispanic/Latino	20.6	21.4	21.9	21.5	21.4
	Asian	26.6	27.8	25.7	25.0	26.4
	Native Hawaiian/Other Pac. Isl.	18.0	20.0	17.0	19.3	18.3
	Two or more races	21.7	21.4	22.6	21.7	22.1
	Prefer not/No Response	23.7	24.1	25.0	23.3	24.1
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: 1,423

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	106	7	80	6	131	9	44	3
	28 to 32	213	15	210	15	295	21	187	13
	24 to 27	303	21	394	28	264	19	366	26
	20 to 23	375	26	270	19	324	23	430	30
	16 to 19	188	13	334	23	224	16	259	18
	13 to 15	125	9	123	9	115	8	79	6
	01 to 12	113	8	12	1	70	5	58	4
National	33 to 36	81,846	5	51,648	3	89,731	5	36,033	2
	28 to 32	175,672	10	156,561	9	239,643	13	138,865	8
	24 to 27	291,095	16	385,102	21	277,723	15	364,600	20
	20 to 23	447,398	25	343,822	19	424,936	24	542,531	30
	16 to 19	327,718	18	590,816	33	384,706	21	413,107	23
	13 to 15	242,064	13	258,384	14	240,069	13	183,840	10
	01 to 12	233,450	13	12,910	1	142,435	8	120,267	7

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	665	47	22.5	23.9	23.7	23.4	23.5
	Females	758	53	22.4	21.9	23.2	21.5	22.4
	Missing	0	0
National	Males	835,431	46	19.8	21.4	20.9	21.2	20.9
	Females	954,919	53	20.6	20.5	21.4	20.4	20.9
	Missing	8,893	0	16.1	18.2	17.6	17.7	17.5

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

Student Group	Gender	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Males	78	66	60	56	46
	Females	77	53	57	43	34
National	Males	62	47	43	40	29
	Females	67	41	45	33	24

Total Students in Report: 1,423

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	1,107	78	22.5	60	22.8	58	23.3	49	22.4	39	22.9
	Less than Core	302	74	22.4	56	22.8	59	23.4	49	22.1	42	22.8
	Missing ³	14	86	22.3	64	22.6	71	25.6	71	24.1	64	23.8
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	1,395	77	22.5	1,367	60	23.0	1,173	57	23.1	1,355	50	22.5
	Less than Core	17	59	18.6	43	28	18.4	238	68	24.8	56	16	17.8
	Missing ³	11	82	22.4	13	62	22.2	12	75	26.4	12	75	24.8
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

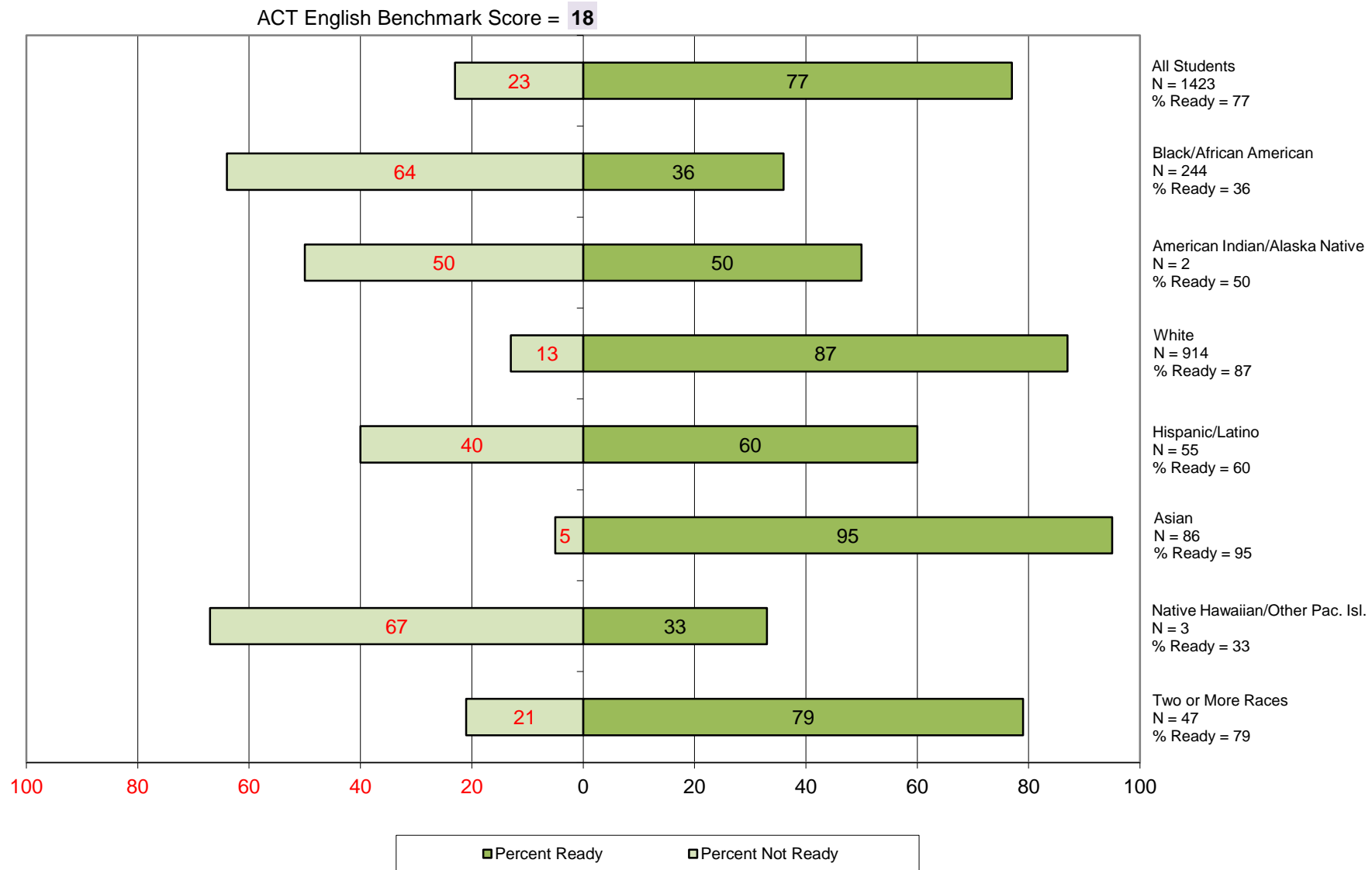


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

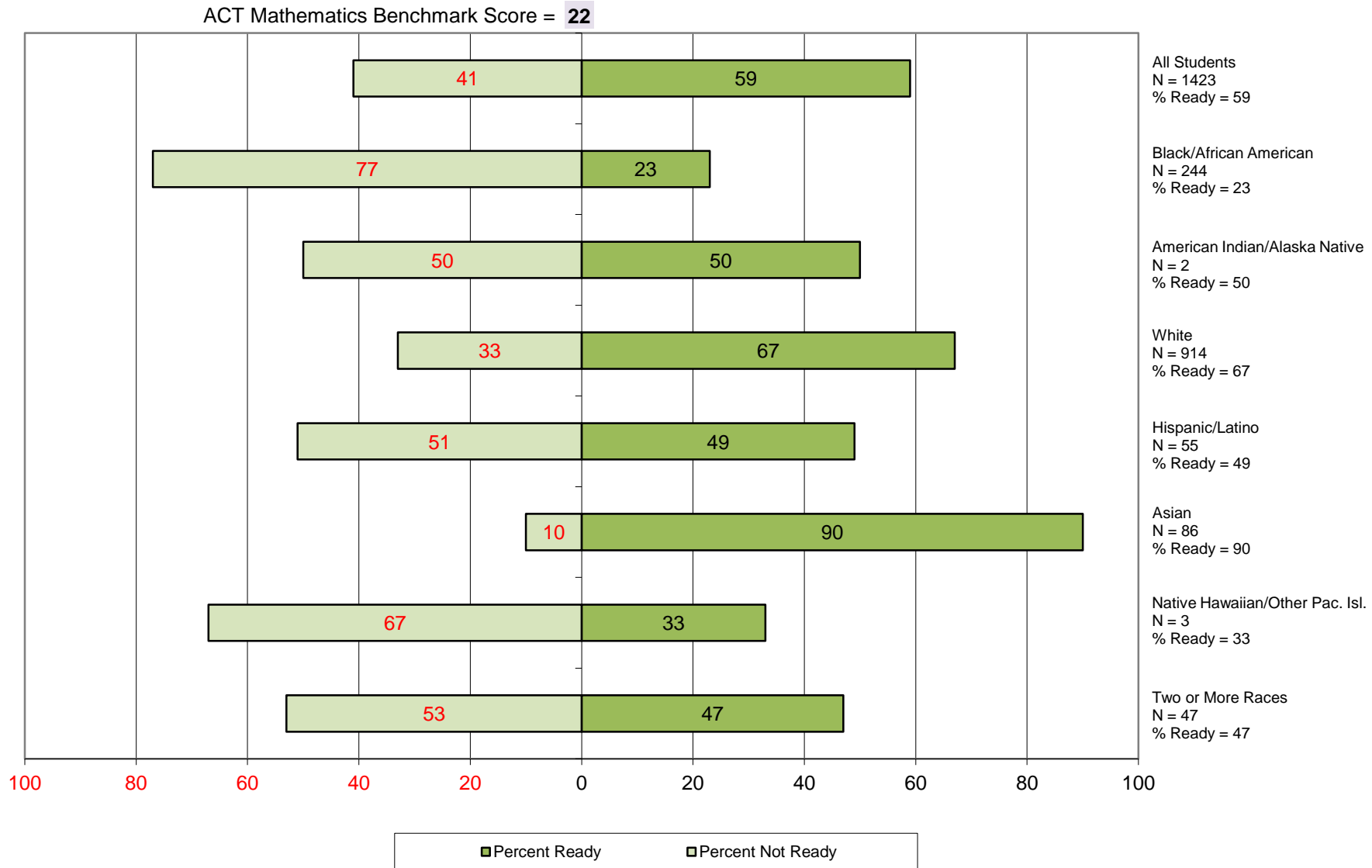


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

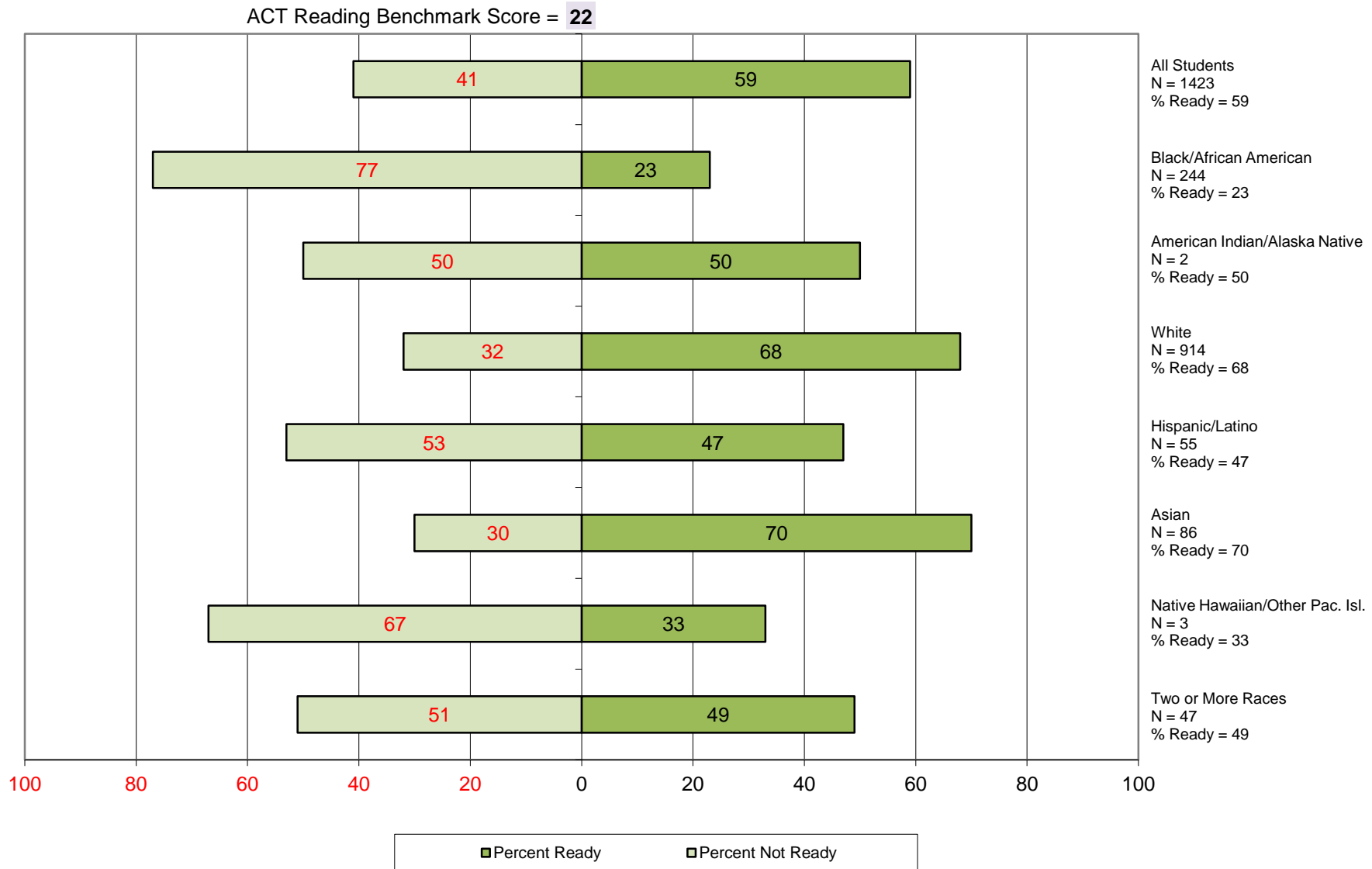


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

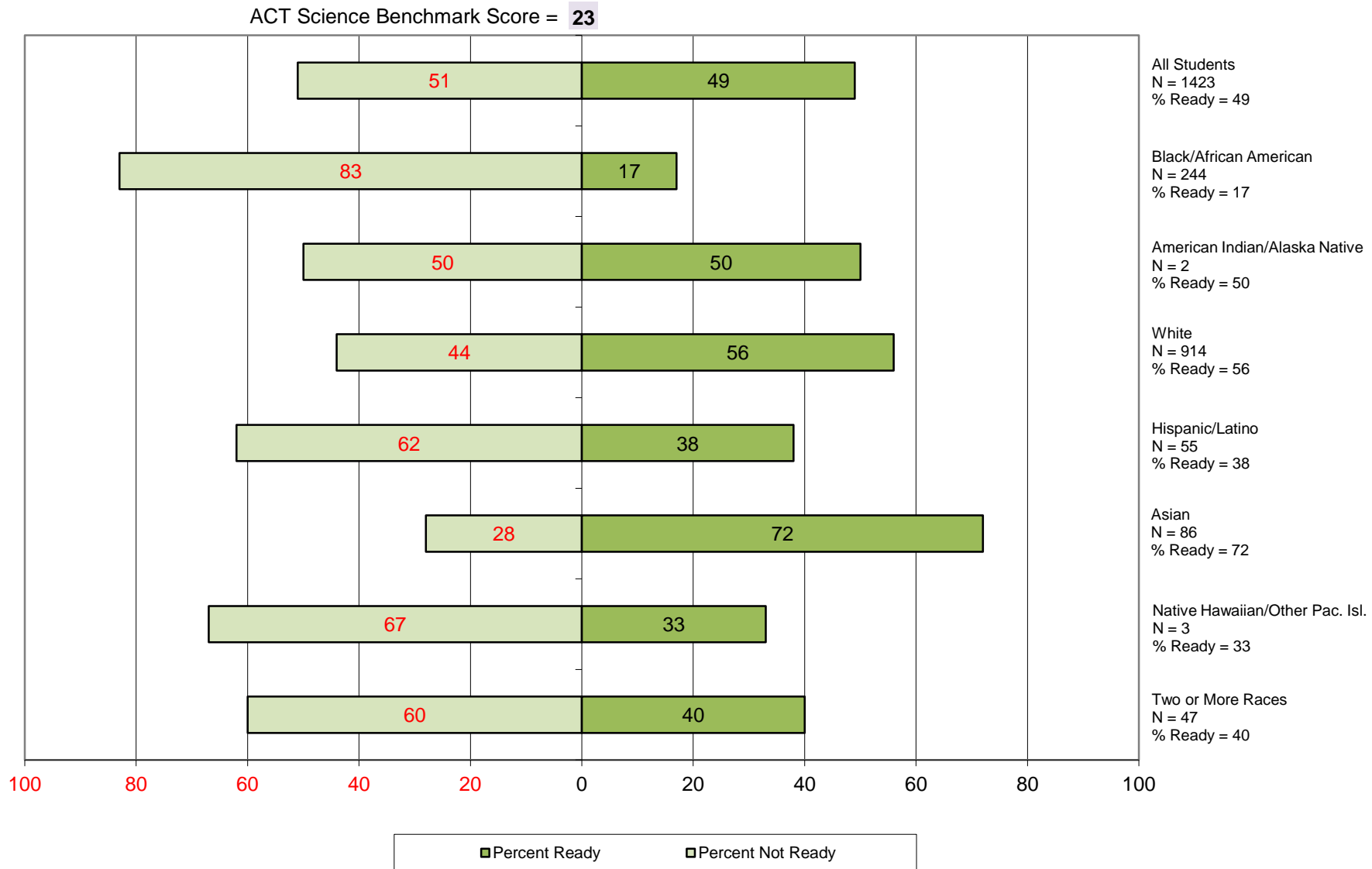
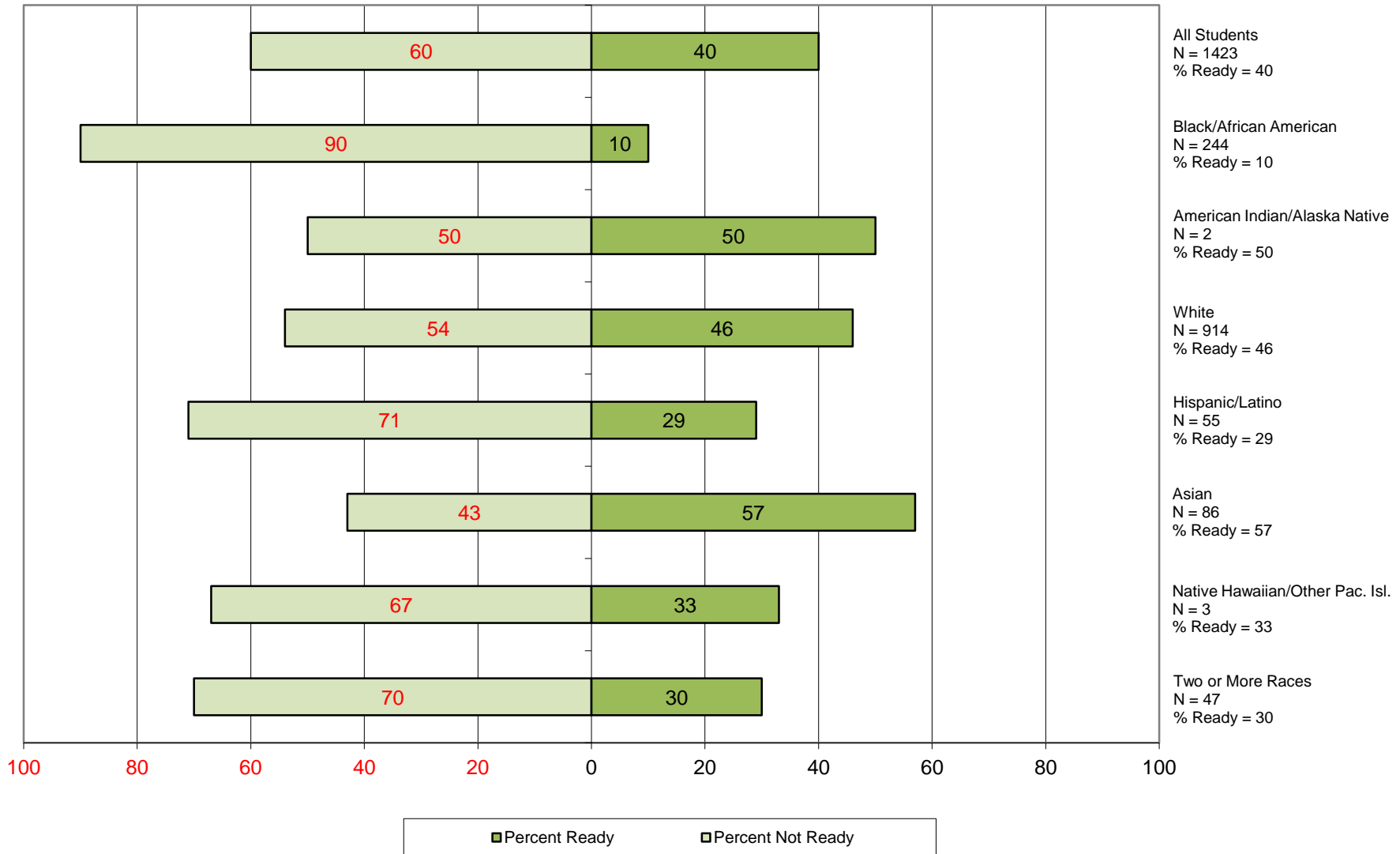


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 1,423

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	276	19	23.5	4.9	122	18	23.3	6.9	154	20	23.7	3.0
Eng 9, Eng 10, Eng 11, Eng 12	1,119	79	22.2	3.6	531	80	22.5	6.1	588	78	22.0	1.3
Less than 4 years of English	17	1	18.6	-	8	1	16.4	-	9	1	20.7	-
Zero years / no English courses reported	11	1	22.4	-	4	1	20.3	-	7	1	23.6	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	135	9	24.8	6.4	53	8	26.0	8.0	82	11	24.0	5.5
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	135	9	20.6	2.2	55	8	21.0	3.0	80	11	20.4	1.9
Alg 1, Alg 2, Geom, & Trig	82	6	19.9	1.5	32	5	20.7	2.7	50	7	19.4	0.9
Alg 1, Alg 2, Geom, & Other Adv Math	166	12	18.8	0.4	65	10	19.3	1.3	101	13	18.5	0.0
Other comb of 4 or more years of Math	719	51	25.0	6.6	389	58	25.8	7.8	330	44	24.0	5.5
Alg 1, Alg 2, & Geom	54	4	17.0	-1.4	26	4	17.8	-0.2	28	4	16.2	-2.3
Other comb of 3 or 3.5 years of Math	76	5	21.2	2.8	28	4	22.4	4.4	48	6	20.5	2.0
Less than 3 years of Math	43	3	18.4	-	13	2	18.0	-	30	4	18.5	-
Zero years / no Math courses reported	13	1	22.2	-	4	1	22.3	-	9	1	22.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	52	4	24.2	-0.6	34	5	23.9	-2.4	18	2	24.6	0.8
Other comb of 4 or more years Social Science	655	46	22.8	-2.0	316	48	22.8	-3.5	339	45	22.7	-1.1
US Hist, World Hist, & Am Gov	57	4	23.1	-1.7	28	4	23.7	-2.6	29	4	22.5	-1.3
Other comb of 3 or 3.5 years of Social Science	409	29	23.4	-1.4	186	28	23.5	-2.8	223	29	23.3	-0.5
Less than 3 years of Social Science	238	17	24.8	-	97	15	26.3	-	141	19	23.8	-
Zero years / no Social Science courses reported	12	1	26.4	-	4	1	24.8	-	8	1	27.3	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	925	65	23.2	5.4	474	71	24.0	5.2	451	59	22.3	5.0
Bio, Chem, Phys	163	11	24.1	6.3	80	12	25.4	6.6	83	11	22.9	5.6
Gen Sci ² , Bio, Chem	248	17	19.2	1.4	79	12	18.8	0.0	169	22	19.4	2.1
Other comb of 3 years of Natural Science	19	1	21.0	3.2	8	1	20.0	1.2	11	1	21.7	4.4
Less than 3 years of Natural Science	56	4	17.8	-	20	3	18.8	-	36	5	17.3	-
Zero years / no Natural Science courses reported	12	1	24.8	-	4	1	25.0	-	8	1	24.8	-

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: 1,423

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	276	19	23.5	83	380,375	21	21.6	73
Eng 9, Eng 10, Eng 11, Eng 12	1,119	79	22.2	76	1,265,911	70	20.3	65
Less than 4 years of English	17	1	18.6	59	84,048	5	15.9	36
Zero years / no English courses reported	11	1	22.4	82	68,909	4	16.4	38
MATHEMATICS COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Math	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Who Met Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	135	9	24.8	81	113,999	6	23.8	68
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	135	9	20.6	46	155,095	9	21.9	56
Alg 1, Alg 2, Geom, & Trig	82	6	19.9	34	119,993	7	19.4	32
Alg 1, Alg 2, Geom, & Other Adv Math	166	12	18.8	28	336,291	19	19.6	32
Other comb of 4 or more years of Math	719	51	25.0	74	610,720	34	23.6	65
Alg 1, Alg 2, & Geom	54	4	17.0	11	223,733	12	17.2	11
Other comb of 3 or 3.5 years of Math	76	5	21.2	51	88,866	5	19.7	34
Less than 3 years of Math	43	3	18.4	28	77,906	4	16.3	7
Zero years / no Math courses reported	13	1	22.2	62	72,640	4	17.9	20
SOCIAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Reading	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Who Met Benchmark
US Hist, World Hist, Am Gov, & Other Hist	52	4	24.2	67	50,989	3	22.2	51
Other comb of 4 or more years Social Science	655	46	22.8	55	908,394	50	22.0	50
US Hist, World Hist, & Am Gov	57	4	23.1	56	106,021	6	19.5	34
Other comb of 3 or 3.5 years of Social Science	409	29	23.4	57	489,586	27	21.0	43
Less than 3 years of Social Science	238	17	24.8	68	171,617	10	19.1	32
Zero years / no Social Science courses reported	12	1	26.4	75	72,636	4	17.7	25
NATURAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Science	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Who Met Benchmark
Gen Sci ¹ , Bio, Chem, & Phys	925	65	23.2	55	767,293	43	21.9	46
Bio, Chem, Phys	163	11	24.1	63	183,685	10	23.0	54
Gen Sci ¹ , Bio, Chem	248	17	19.2	25	504,165	28	19.9	28
Other comb of 3 years of Natural Science	19	1	21.0	32	51,822	3	19.1	25
Less than 3 years of Natural Science	56	4	17.8	16	218,267	12	18.0	17
Zero years / no Natural Science courses reported	12	1	24.8	75	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: 1,423

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	18	1	21.6	0	0	.	17	1	21.0
Architecture	7	0	22.9	0	0	.	6	0	22.2
Area, Ethnic, & Multidisciplinary Studies	1	0	32.0	0	0	.	1	0	32.0
Arts: Visual & Performing	58	4	21.6	0	0	.	53	4	21.7
Business	153	11	21.9	0	0	.	135	11	21.8
Communications	52	4	22.0	0	0	.	47	4	21.9
Community, Family, & Personal Services	16	1	18.8	0	0	.	15	1	19.2
Computer Science & Mathematics	34	2	25.2	1	14	15.0	32	3	25.3
Education	76	5	19.7	0	0	.	69	6	19.6
Engineering	177	12	26.6	0	0	.	162	13	26.4
Engineering Technology & Drafting	10	1	17.2	1	14	11.0	8	1	17.6
English & Foreign Languages	19	1	25.8	0	0	.	16	1	25.5
Health Administration & Assisting	14	1	18.2	0	0	.	13	1	17.9
Health Sciences & Technologies	254	18	21.9	0	0	.	232	19	21.9
Philosophy, Religion, & Theology	10	1	22.1	0	0	.	8	1	21.5
Repair, Production, & Construction	2	0	17.5	1	14	18.0	1	0	17.0
Sciences: Biological & Physical	131	9	23.8	1	14	14.0	120	10	24.0
Social Sciences & Law	146	10	22.2	2	29	14.5	124	10	22.3
Undecided	236	17	23.6	1	14	29.0	177	14	23.1
No Response	9	1	21.7	0	0	.	4	0	22.5

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: 1,423

Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	2	25.0	0	.	0	.	2	25.0	0	.
2-yr College Degree	5	13.2	4	13.0	0	.	1	14.0	0	.
Bachelors Degree	500	20.6	93	15.3	1	14.0	332	22.2	21	19.1
Graduate Study	375	24.0	60	19.0	1	34.0	270	24.9	11	22.1
Prof. Level Degree	365	24.5	69	19.7	0	.	196	25.5	20	22.8
Other	16	21.3	3	12.3	0	.	9	22.2	0	.
No Response	160	24.2	15	17.8	0	.	104	25.1	3	26.0

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	2	25.0	0	.	0	.	0	.	0	.
2-yr College Degree	5	13.2	0	.	0	.	0	.	0	.
Bachelors Degree	500	20.6	11	24.5	1	16.0	28	20.0	13	17.6
Graduate Study	375	24.0	18	27.4	1	27.0	6	25.7	8	22.3
Prof. Level Degree	365	24.5	42	26.9	0	.	10	24.8	28	27.5
Other	16	21.3	0	.	0	.	1	28.0	3	25.0
No Response	160	24.2	15	25.2	1	12.0	2	24.0	20	24.2

Total Students in Report: 1,423

Table 4.3. Students' Score Report Preferences at Time of Testing

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
UNIVERSITY OF DELAWARE	Delaware	378	207	171	1	4	18	31	28	18	2
DELAWARE STATE UNIVERSITY	Delaware	73	26	47	11	32	33	16	8	0	0
UNIVERSITY OF MARYLAND COLLEGE PARK	Maryland	51	13	38	2	4	10	20	29	33	2
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	45	11	34	2	2	38	40	16	2	0
TEMPLE UNIVERSITY	Pennsylvania	39	12	27	3	15	26	28	23	5	0
DREXEL UNIVERSITY	Pennsylvania	37	4	33	0	3	16	38	22	19	3
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	37	7	30	0	3	8	19	41	22	8
JAMES MADISON UNIVERSITY	Virginia	34	4	30	0	3	21	26	32	18	0
WEST VIRGINIA UNIVERSITY	West Virginia	29	10	19	0	7	31	45	14	3	0
TOWSON UNIVERSITY	Maryland	26	12	14	4	4	35	38	12	8	0
UNIVERSITY OF PITTSBURGH	Pennsylvania	26	5	21	0	4	4	23	35	31	4
WILMINGTON COLLEGE	Delaware	26	4	22	4	27	19	38	8	4	0
BOSTON UNIVERSITY	Massachusetts	25	7	18	0	0	4	24	40	28	4
DELAWARE TECH & COMM COLL-STANTON/WILM	Delaware	24	5	19	13	17	29	25	17	0	0
SALISBURY UNIVERSITY	Maryland	24	5	19	0	21	25	33	17	4	0
YORK COLLEGE OF PENNSYLVANIA	Pennsylvania	24	3	21	0	4	25	50	21	0	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	23	5	18	0	4	13	22	26	35	0
NCAA ELIGIBILITY CENTER	Indiana	22	15	7	5	18	18	23	23	14	0
NEW YORK UNIVERSITY	New York	21	6	15	0	10	5	14	33	29	10
VIRGINIA TECH	Virginia	21	6	15	0	0	5	33	38	24	0
WESLEY COLLEGE	Delaware	21	3	18	10	19	38	14	19	0	0
LIBERTY UNIVERSITY	Virginia	20	8	12	0	10	25	25	40	0	0
NEUMANN UNIVERSITY	Pennsylvania	20	6	14	20	15	30	30	5	0	0
SAINT JOSEPH'S UNIVERSITY	Pennsylvania	19	2	17	0	0	11	53	26	11	0
UNIV OF SOUTH CAROLINA-COLUMBIA	South Carolina	18	4	14	0	0	11	22	50	17	0
UNIVERSITY OF VIRGINIA	Virginia	18	3	15	0	6	6	28	6	44	11
CORNELL UNIVERSITY	New York	17	4	13	0	0	6	12	18	47	18
VILLANOVA UNIVERSITY	Pennsylvania	17	1	16	0	0	6	29	41	18	6
LINCOLN UNIVERSITY OF PA	Pennsylvania	16	4	12	31	31	25	13	0	0	0
IMMACULATA UNIVERSITY	Pennsylvania	14	3	11	7	7	21	43	21	0	0
All Other Institutions		1,132	274	858	3	11	17	25	23	19	3
Total		2,297	679	1,618	3	9	18	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: 1,423

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing

	N		Average ACT Scores					
	State	National	English		Essay		English/Writing Combined	
			State	National	State	National	State	National
All Students	1,161	942,769	23.2	21.3	7.4	7.0	22.3	20.5
Black/African American	180	114,751	17.0	16.3	6.5	6.1	16.9	16.0
American Indian/Alaska Native	1	6,031	16.0	16.8	6.0	6.1	16.0	16.4
White	756	518,407	24.3	22.9	7.6	7.2	23.3	21.9
Hispanic/Latino	45	151,504	21.2	18.6	7.5	6.8	21.0	18.3
Asian	80	54,580	26.9	23.5	7.9	7.6	25.5	22.7
Native Hawaiian/Other Pac. Isl.	2	2,812	21.5	19.5	8.0	6.9	22.0	19.2
Two or more races	35	35,355	22.4	21.5	7.4	7.0	21.7	20.6
Prefer not/No Response	62	59,329	25.0	21.8	7.7	7.1	23.8	20.9
Males	534	423,104	23.3	21.0	7.3	6.7	22.3	20.1
Females	627	513,945	23.1	21.6	7.5	7.2	22.4	20.9
Missing	0	5,720	.	16.6	.	6.3	.	16.5

