

ACT Profile Report - State

Graduating Class 2013
Iowa



ACT, INC. -- CONFIDENTIAL



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

This report focuses on:

Performance - student test performance in the context of college readiness

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

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

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

Awareness - extent to which student aspirations match performance

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

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

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

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

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

The ACT:

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

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

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores, updated for 2013, are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	22
Biology	Science	23

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

32% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT: 22,526 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. 79% 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, 8% were college ready. 19% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 17% of these students were college ready. In comparison, 63% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 9% of the cohort took less than three years of natural science courses. 20% 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 39% 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.

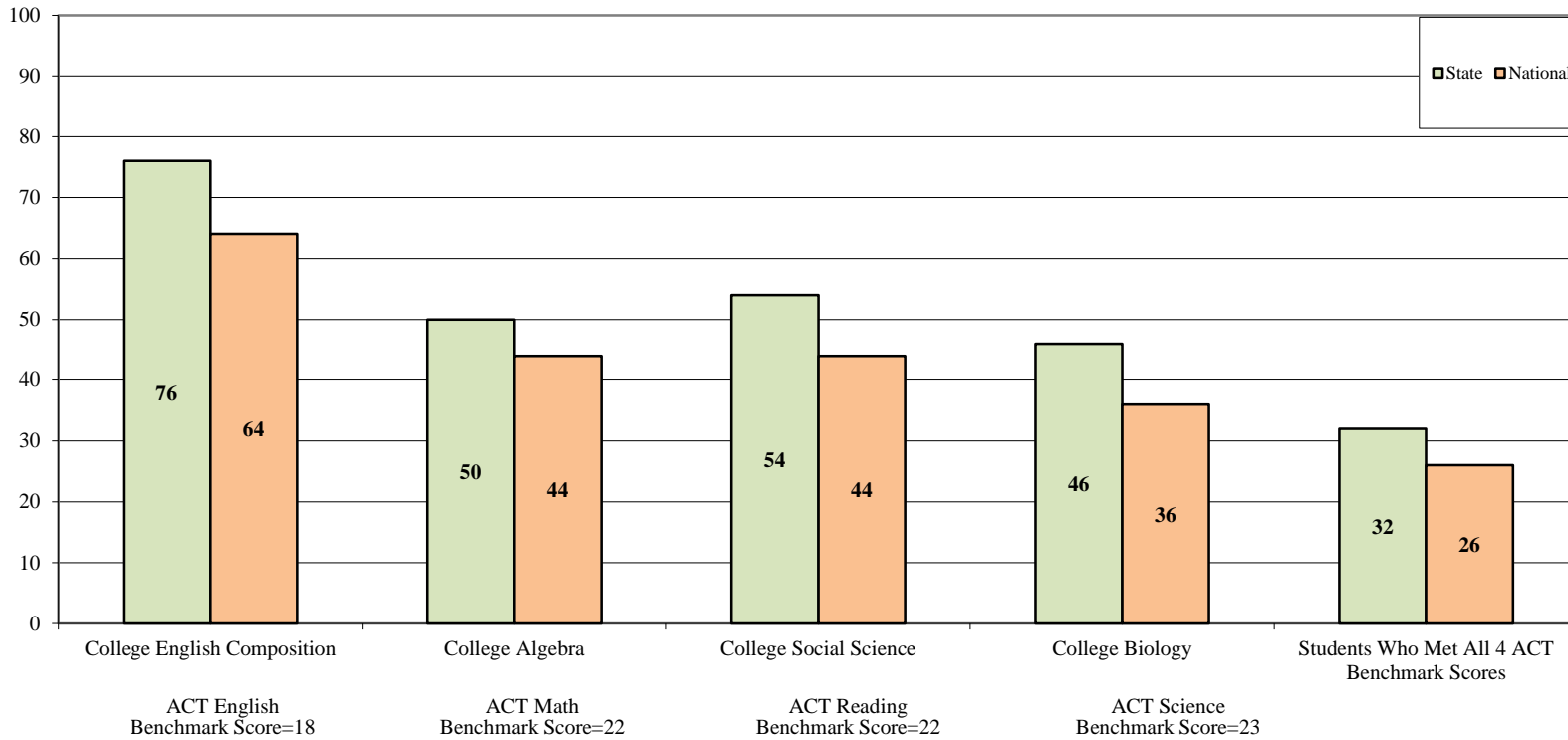
Section I

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.

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	22,377	1,480,469	79	67	50	42	64	53	37	28	29	23
2010	22,943	1,568,835	77	66	51	43	61	52	37	29	30	24
2011	22,968	1,623,112	77	66	52	45	62	52	40	30	31	25
2012	23,119	1,666,017	77	67	51	46	62	52	38	31	30	25
2013	22,526	1,799,243	76	64	50	44	54	44	46	36	32	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	22,377	1,480,469	21.9	20.6	21.9	21.0	22.9	21.4	22.4	20.9	22.4	21.1
2010	22,943	1,568,835	21.8	20.5	21.8	21.0	22.6	21.3	22.3	20.9	22.2	21.0
2011	22,968	1,623,112	21.7	20.6	21.9	21.1	22.6	21.3	22.4	20.9	22.3	21.1
2012	23,119	1,666,017	21.6	20.5	21.7	21.1	22.5	21.3	22.2	20.9	22.1	21.1
2013	22,526	1,799,243	21.5	20.2	21.6	20.9	22.5	21.1	22.2	20.7	22.1	20.9

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2009	1,480,469	20.6	21.0	21.4	20.9	21.1
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
2011	1,623,112	20.6	21.1	21.3	20.9	21.1
2012	1,666,017	20.5	21.1	21.3	20.9	21.1
2013	1,799,243	20.2	20.9	21.1	20.7	20.9

Total Students in Report: 22,526

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	17,450	4,613	78	21	22.6	19.3	22.6	19.4	23.6	20.6	23.0	20.3	23.1	20.1
2010	17,990	4,554	78	20	22.6	18.8	22.5	19.1	23.4	20.0	23.0	20.0	23.0	19.6
2011	18,228	4,236	79	18	22.5	19.0	22.6	19.3	23.3	20.2	23.1	20.2	23.0	19.8
2012	18,499	4,255	80	18	22.4	18.8	22.4	19.1	23.2	20.1	22.8	20.0	22.8	19.6
2013	17,894	4,049	79	18	22.4	18.8	22.4	19.0	23.3	20.1	22.9	19.9	22.9	19.6

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

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

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

	2009			2010			2011			2012			2013		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	22,377	100	22.4	22,943	100	22.2	22,968	100	22.3	23,119	100	22.1	22,526	100	22.1
Black/African American	448	2	18.3	583	3	17.3	583	3	17.1	601	3	17.6	601	3	17.3
American Indian/Alaska Native	81	0	20.2	81	0	20.3	68	0	20.3	77	0	20.4	57	0	19.4
White	19,741	88	22.6	19,967	87	22.5	19,652	86	22.6	19,515	84	22.5	18,712	83	22.5
Hispanic/Latino	556	2	19.9	700	3	18.9	927	4	19.6	1,140	5	19.3	1,204	5	19.1
Asian	429	2	22.7	537	2	22.5	537	2	22.9	475	2	22.3	545	2	21.8
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	1	0	20.0	6	0	19.5	11	0	22.4
Two or more races	336	2	21.9	371	2	21.5	431	2	21.4	581	3	21.7	630	3	21.4
Prefer not to respond/No response	786	4	22.8	704	3	21.1	769	3	21.5	724	3	22.2	766	3	22.1

Total Students in Report: 22,526

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



Total Students in Report: 22,526

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

Student Group	Test Session Duration	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Standard Time	22,247	99	21.6	21.7	22.6	22.2	22.1
	Extended Time	279	1	15.9	17.8	18.8	18.4	17.8
	Total	22,526	100	21.5	21.6	22.5	22.2	22.1
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	76	51	54	47	32
	Extended Time	37	20	29	22	14
	Total	76	50	54	46	32
National	Standard Time	65	45	45	37	27
	Extended Time	35	20	28	20	13
	Total	64	44	44	36	26

Section II

Academic Achievement

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

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

Total Students in Report: 22,526

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	73	100	56	100	194	100	92	100	14	100	36
35	214	100	92	100	126	99	139	100	52	100	35
34	344	99	203	99	417	99	147	99	119	100	34
33	369	97	173	98	496	97	117	98	195	99	33
32	281	96	254	98	555	95	262	98	304	98	32
31	399	94	230	97	850	92	366	97	400	97	31
30	508	93	346	96	697	88	394	95	549	95	30
29	557	90	454	94	711	85	499	93	639	93	29
28	614	88	764	92	774	82	626	91	810	90	28
27	729	85	1,151	89	868	79	891	88	983	86	27
26	1,012	82	1,359	83	904	75	1,067	84	1,180	82	26
25	1,167	77	1,564	77	948	71	1,915	80	1,420	77	25
24	1,513	72	1,737	70	1,642	67	2,288	71	1,607	70	24
23	1,691	65	1,508	63	1,296	59	1,658	61	1,851	63	23
22	1,564	58	1,411	56	1,594	53	2,023	54	1,913	55	22
21	1,926	51	1,219	50	1,776	46	2,355	45	1,854	47	21
20	1,867	42	1,003	44	1,642	39	1,766	34	1,802	38	20
19	1,216	34	1,427	40	1,327	31	1,511	26	1,635	30	19
18	1,006	29	1,458	34	1,310	25	1,263	20	1,439	23	18
17	897	24	2,103	27	956	20	733	14	1,100	17	17
16	1,033	20	2,045	18	899	15	656	11	886	12	16
15	1,083	16	1,246	9	769	11	480	8	636	8	15
14	669	11	491	3	503	8	354	6	459	5	14
13	467	8	166	1	540	6	322	4	334	3	13
12	362	6	50	1	319	3	226	3	218	2	12
11	364	4	7	1	174	2	229	2	97	1	11
10	271	3	5	1	146	1	79	1	24	1	10
9	158	1	1	1	37	1	37	1	2	1	9
8	118	1	1	1	23	1	18	1	2	1	8
7	38	1	1	1	17	1	7	1	1	1	7
6	10	1	1	1	8	1	2	1	0	1	6
5	1	1	0	1	1	1	2	1	1	1	5
4	3	1	0	1	3	1	1	1	0	1	4
3	1	1	0	1	3	1	1	1	0	1	3
2	1	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	21.5 (5.8)		21.6 (4.9)		22.5 (5.8)		22.2 (4.7)		22.1 (4.7)		Avg (SD)

¹CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 22,526

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	743	100	360	100	707	100	763	100	891	100	105	100	200	100	18
17	1,074	97	218	98	1,255	97	1,015	97	1,007	96	212	100	49	99	17
16	970	92	1,227	97	1,428	91	1,524	92	1,009	92	469	99	831	99	16
15	1,064	88	1,408	92	1,588	85	1,667	85	1,559	87	1,158	97	1,349	95	15
14	1,376	83	1,960	86	1,650	78	1,820	78	1,604	80	1,849	91	1,999	89	14
13	1,480	77	2,290	77	2,111	71	1,880	70	2,330	73	2,794	83	2,302	80	13
12	1,879	70	3,146	67	2,963	61	2,086	62	2,324	63	2,627	71	3,433	70	12
11	2,872	62	2,597	53	2,299	48	2,577	52	2,429	52	3,040	59	2,521	55	11
10	2,820	49	2,434	41	2,150	38	2,251	41	2,055	42	3,451	46	2,583	44	10
9	2,289	37	2,569	31	2,062	28	1,707	31	1,728	32	2,477	30	3,241	32	9
8	1,696	26	1,703	19	1,666	19	1,837	23	2,124	25	2,277	19	1,849	18	8
7	1,561	19	1,032	12	1,312	12	1,246	15	1,982	15	827	9	1,083	10	7
6	1,078	12	607	7	650	6	983	10	851	7	643	6	484	5	6
5	859	7	509	4	419	3	677	5	428	3	237	3	267	3	5
4	413	3	304	2	149	1	348	2	114	1	195	2	187	1	4
3	259	2	145	1	72	1	92	1	64	1	121	1	75	1	3
2	85	1	12	1	36	1	52	1	23	1	8	1	41	1	2
1	8	1	5	1	9	1	1	1	4	1	36	1	32	1	1
Avg (SD)	10.8 (3.6)		11.1 (3.1)		11.6 (3.3)		11.4 (3.5)		11.3 (3.4)		10.9 (2.7)		11.0 (2.8)		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)	25	25	27	25	25
Q2 (50th Percentile)	21	22	22	22	22
Q1 (25th Percentile)	18	17	18	19	19

Total Students in Report: 22,526

Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	22,526	79	22.9	19.6
	Black/African American	601	62	18.4	16.1
	American Indian/Alaska Native	57	72	20.4	18.1
	White	18,712	81	23.1	20.0
	Hispanic/Latino	1,204	68	20.3	17.2
	Asian	545	76	23.4	18.5
	Native Hawaiian/Other Pac. Isl.	11	82	23.6	17.0
	Two or more races	630	77	22.3	18.5
	Prefer not/No Response	766	69	23.8	19.7
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	21.5	21.6	22.5	22.2	22.1
	Black/African American	16.0	17.4	17.4	17.8	17.3
	American Indian/Alaska Native	18.3	18.9	20.2	20.0	19.4
	White	22.0	21.9	22.9	22.6	22.5
	Hispanic/Latino	18.0	18.9	19.6	19.4	19.1
	Asian	20.6	22.7	21.4	22.0	21.8
	Native Hawaiian/Other Pac. Isl.	21.0	23.0	22.5	22.5	22.4
	Two or more races	20.7	20.7	22.1	21.5	21.4
	Prefer not/No Response	21.7	21.5	22.8	22.1	22.1
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: 22,526

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	1,000	4	524	2	1,233	5	495	2
	28 to 32	2,359	10	2,048	9	3,587	16	2,147	10
	24 to 27	4,421	20	5,811	26	4,362	19	6,161	27
	20 to 23	7,048	31	5,141	23	6,308	28	7,802	35
	16 to 19	4,152	18	7,033	31	4,492	20	4,163	18
	13 to 15	2,219	10	1,903	8	1,812	8	1,156	5
	01 to 12	1,327	6	66	0	732	3	602	3
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	10,406	46	21.1	22.3	22.4	22.8	22.3
	Females	12,091	54	21.9	21.0	22.7	21.7	21.9
	Missing	29	0	14.0	15.9	15.1	15.2	15.3
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	73	56	53	52	36
	Females	78	45	54	42	29
National	Males	62	47	43	40	29
	Females	67	41	45	33	24

Total Students in Report: 22,526

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	17,894	82	22.4	57	22.4	59	23.3	52	22.9	36	22.9
	Less than Core	4,049	57	18.8	27	19.0	37	20.1	26	19.9	15	19.6
	Missing ³	583	25	14.5	12	16.7	18	16.3	13	16.6	7	16.1
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	20,919	78	21.8	20,750	54	22.0	20,959	55	22.8	19,928	50	22.7
	Less than Core	1,103	57	18.8	1,235	8	16.6	1,045	38	20.2	2,062	20	19.1
	Missing ³	504	25	14.5	541	12	16.7	522	20	16.4	536	14	16.6
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

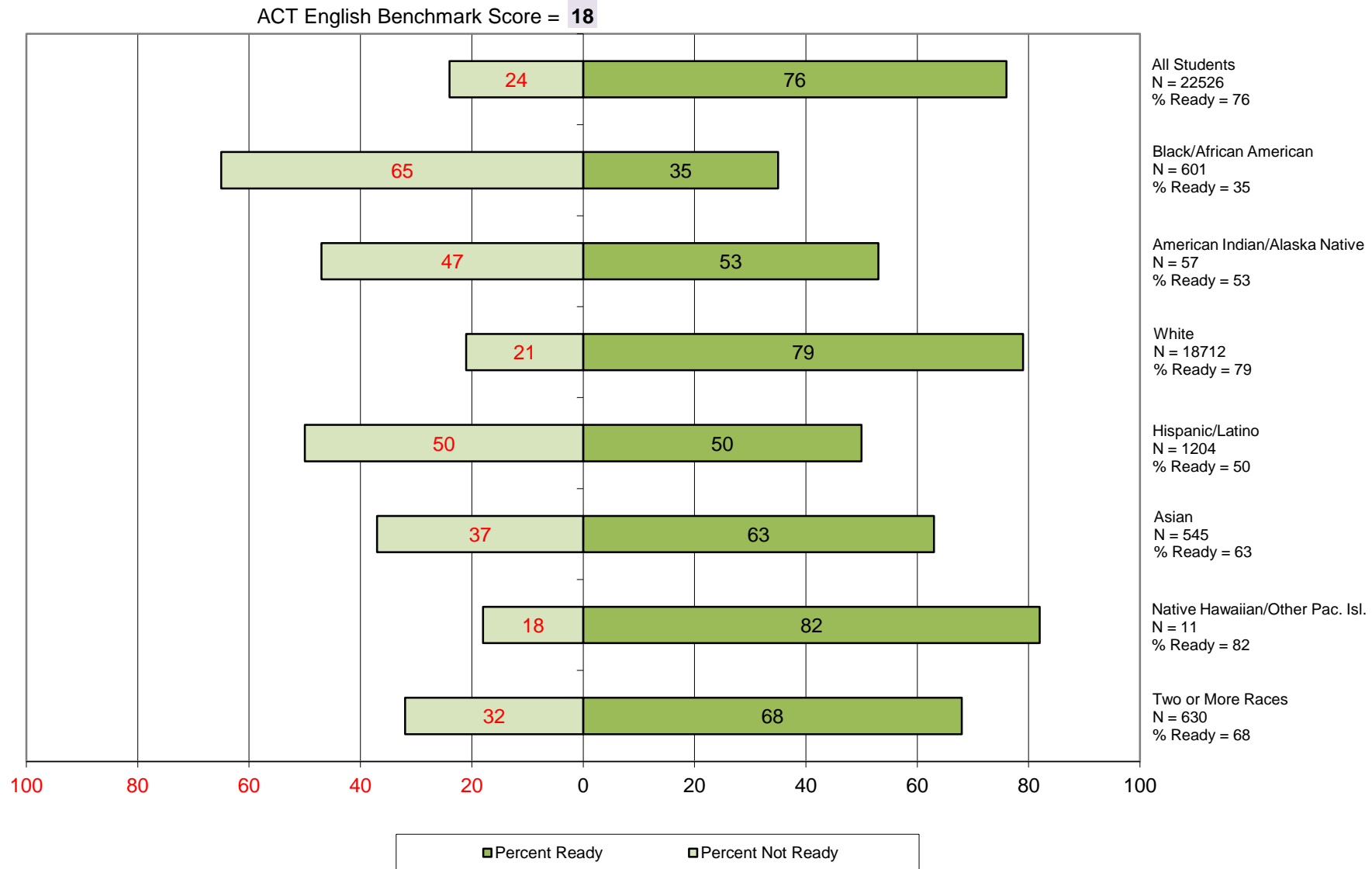


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

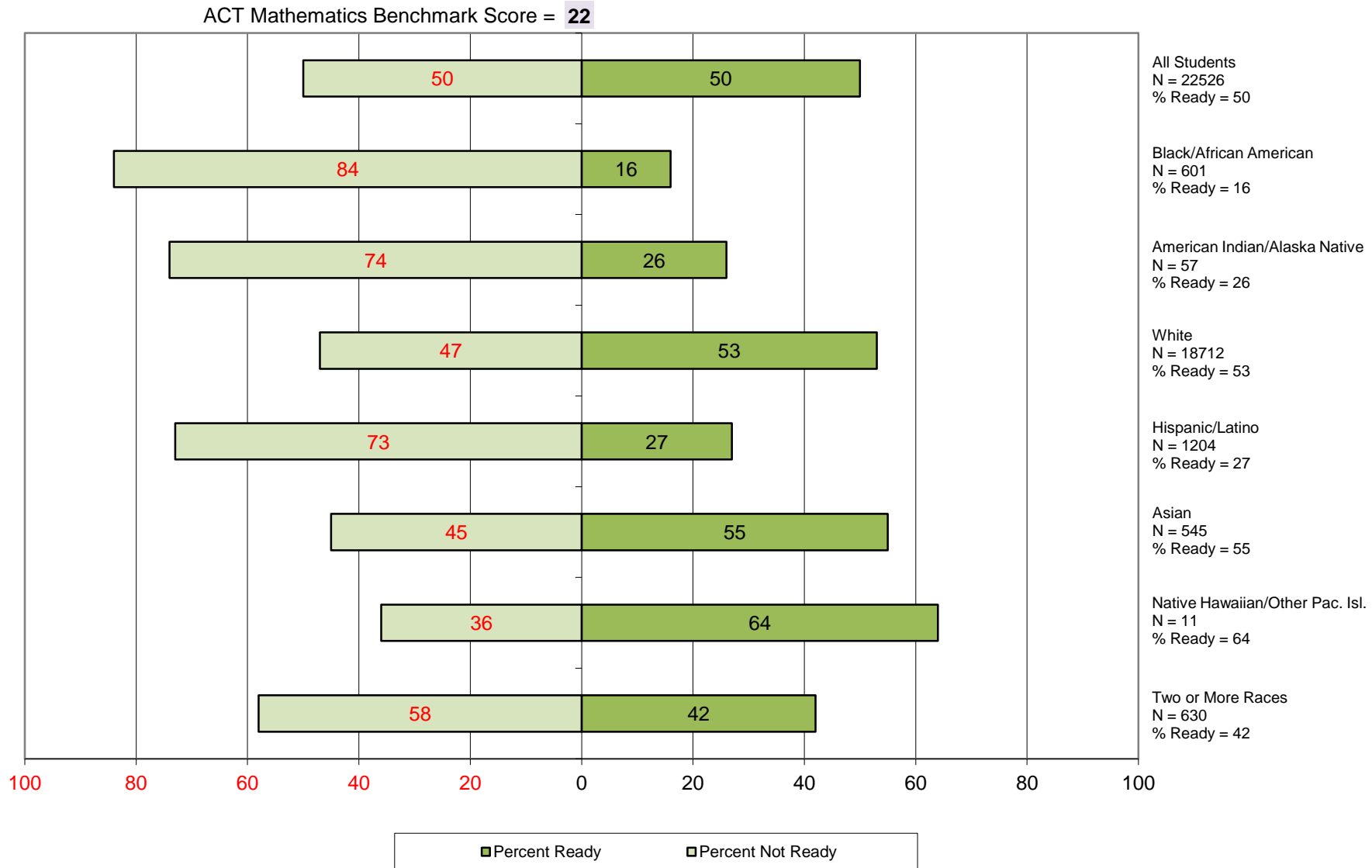


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

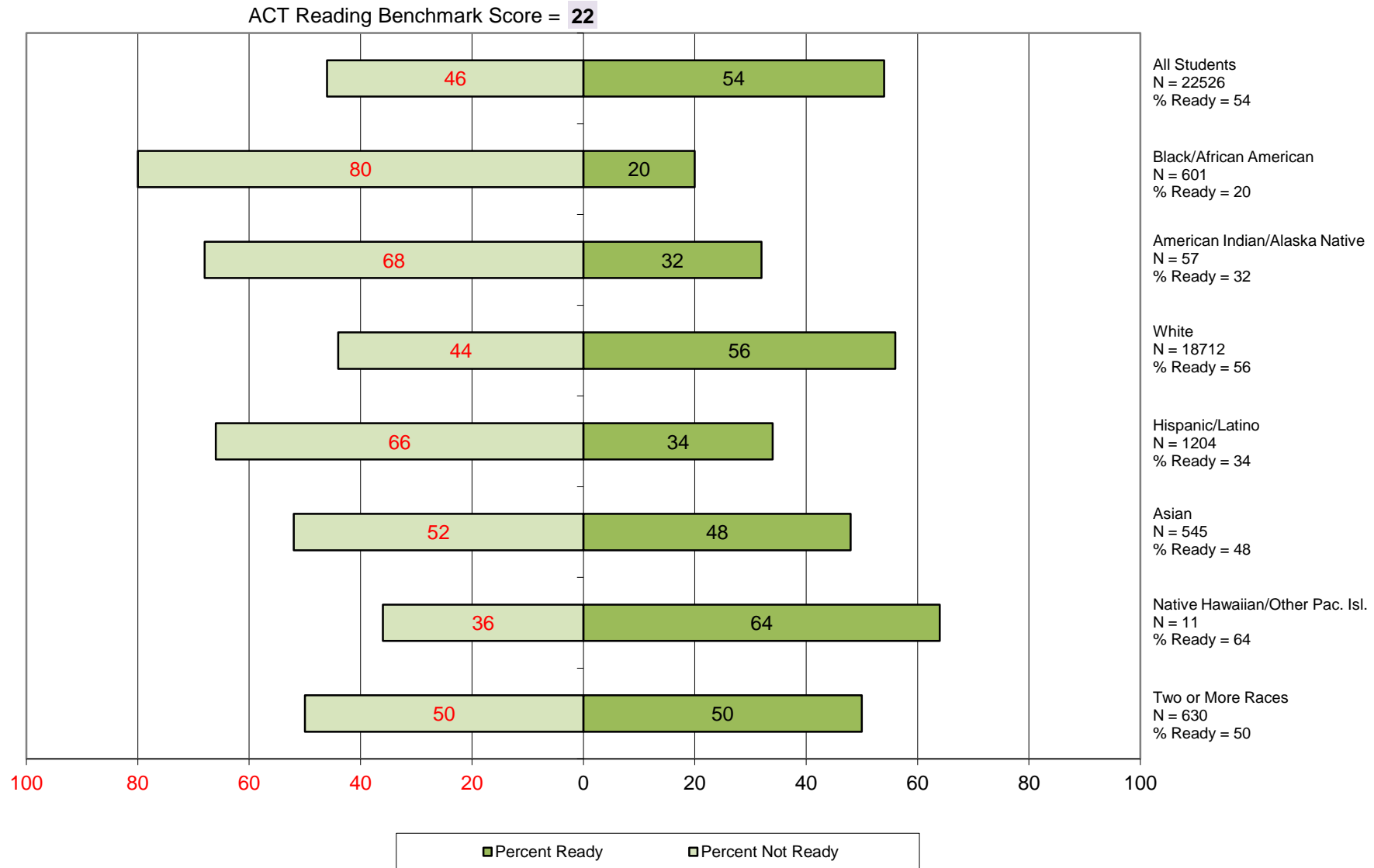


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

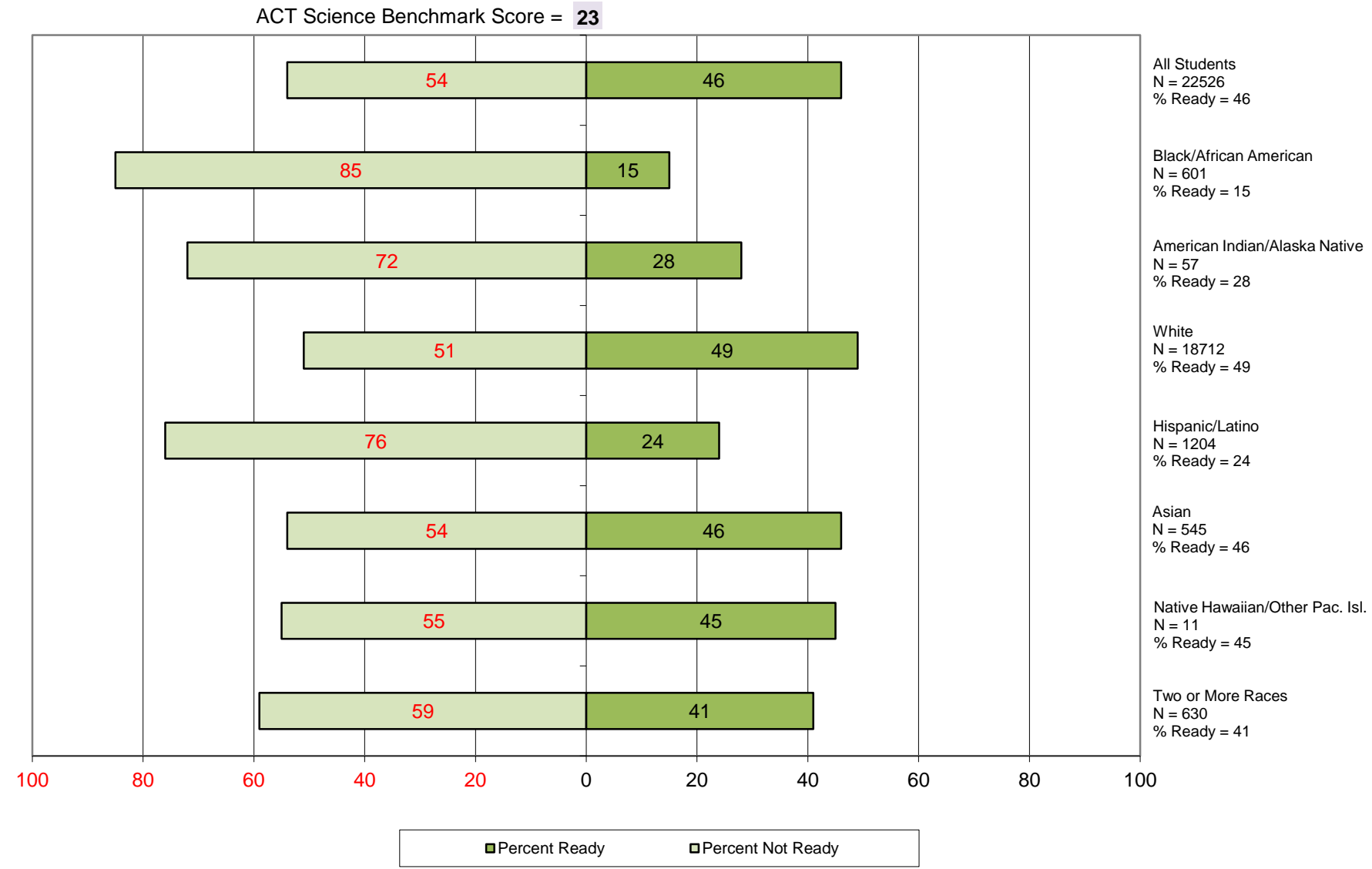
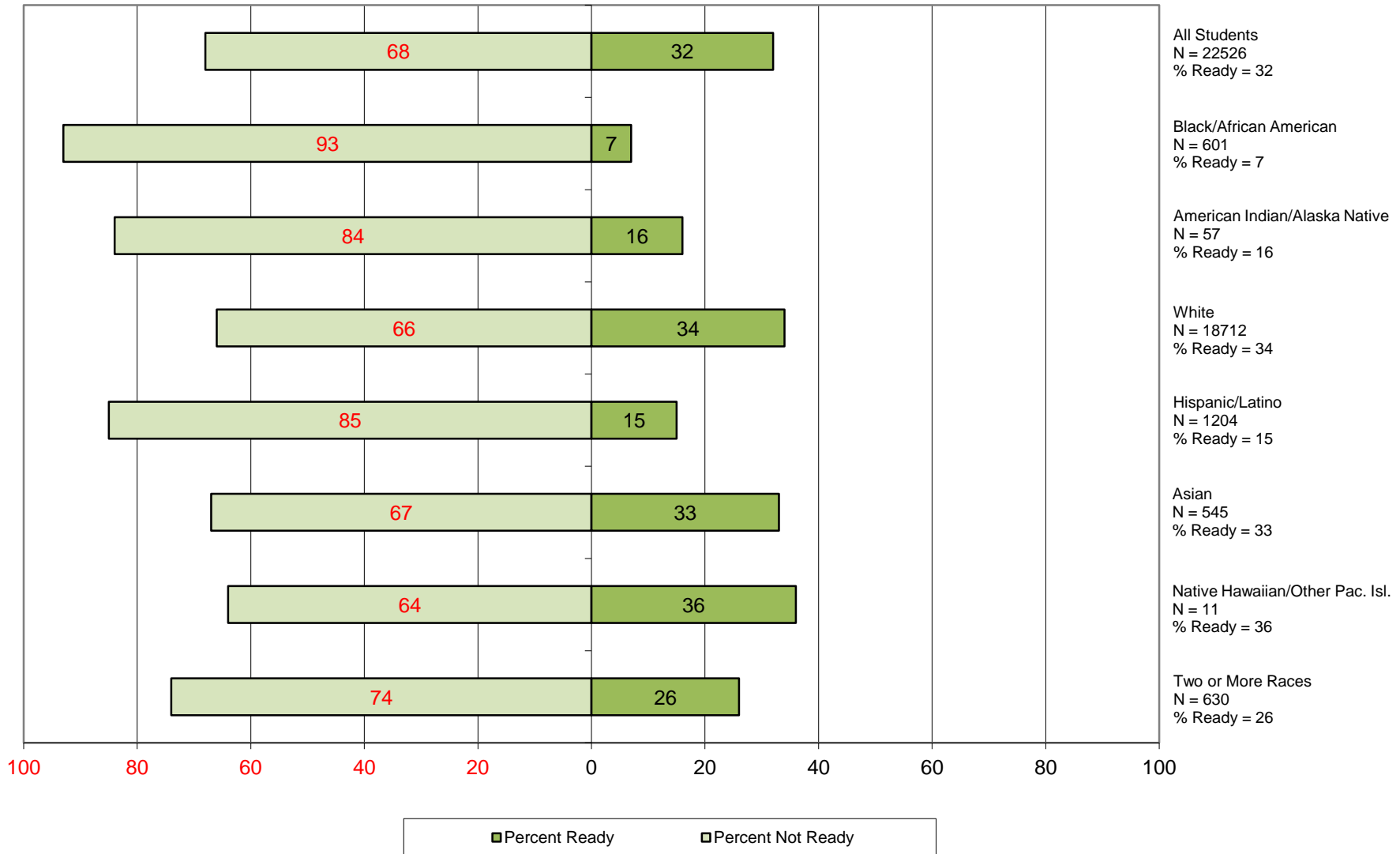


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 22,526

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	9,079	40	22.5	3.7	3,705	36	22.1	3.8	5,370	44	22.8	3.6
Eng 9, Eng 10, Eng 11, Eng 12	11,840	53	21.3	2.5	5,921	57	21.1	2.8	5,912	49	21.5	2.3
Less than 4 years of English	1,103	5	18.8	-	525	5	18.3	-	575	5	19.2	-
Zero years / no English courses reported	504	2	14.5	-	255	2	14.4	-	234	2	14.8	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,168	5	24.7	8.1	597	6	25.4	8.6	571	5	24.1	7.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,968	9	22.9	6.3	784	8	23.3	6.5	1,184	10	22.6	6.1
Alg 1, Alg 2, Geom, & Trig	1,413	6	21.2	4.6	615	6	21.6	4.8	797	7	20.9	4.4
Alg 1, Alg 2, Geom, & Other Adv Math	3,495	16	20.9	4.3	1,389	13	21.4	4.6	2,105	17	20.6	4.1
Other comb of 4 or more years of Math	7,507	33	24.4	7.8	3,929	38	25.0	8.2	3,574	30	23.7	7.2
Alg 1, Alg 2, & Geom	4,187	19	18.2	1.6	1,714	16	18.6	1.8	2,466	20	18.0	1.5
Other comb of 3 or 3.5 years of Math	1,012	4	20.6	4.0	528	5	20.9	4.1	484	4	20.2	3.7
Less than 3 years of Math	1,235	5	16.6	-	577	6	16.8	-	657	5	16.5	-
Zero years / no Math courses reported	541	2	16.7	-	273	3	17.2	-	253	2	16.3	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	431	2	22.2	2.0	237	2	22.2	2.3	194	2	22.1	1.6
Other comb of 4 or more years Social Science	12,956	58	23.1	2.9	5,901	57	23.1	3.2	7,048	58	23.2	2.7
US Hist, World Hist, & Am Gov	1,099	5	21.5	1.3	571	5	21.4	1.5	528	4	21.7	1.2
Other comb of 3 or 3.5 years of Social Science	6,473	29	22.4	2.2	2,938	28	22.2	2.3	3,530	29	22.6	2.1
Less than 3 years of Social Science	1,045	5	20.2	-	491	5	19.9	-	552	5	20.5	-
Zero years / no Social Science courses reported	522	2	16.4	-	268	3	16.2	-	239	2	16.7	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	10,061	45	23.6	4.5	5,270	51	24.2	5.2	4,787	40	22.9	3.7
Bio, Chem, Phys	1,175	5	24.9	5.8	600	6	25.8	6.8	574	5	23.9	4.7
Gen Sci ² , Bio, Chem	8,045	36	21.3	2.2	2,974	29	21.6	2.6	5,065	42	21.2	2.0
Other comb of 3 years of Natural Science	647	3	20.9	1.8	380	4	21.3	2.3	267	2	20.4	1.2
Less than 3 years of Natural Science	2,062	9	19.1	-	913	9	19.0	-	1,146	9	19.2	-
Zero years / no Natural Science courses reported	536	2	16.6	-	269	3	16.8	-	252	2	16.4	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 22,526

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	9,079	40	22.5	82	380,375	21	21.6	73
Eng 9, Eng 10, Eng 11, Eng 12	11,840	53	21.3	75	1,265,911	70	20.3	65
Less than 4 years of English	1,103	5	18.8	57	84,048	5	15.9	36
Zero years / no English courses reported	504	2	14.5	25	68,909	4	16.4	38
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,168	5	24.7	78	113,999	6	23.8	68
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,968	9	22.9	66	155,095	9	21.9	56
Alg 1, Alg 2, Geom, & Trig	1,413	6	21.2	49	119,993	7	19.4	32
Alg 1, Alg 2, Geom, & Other Adv Math	3,495	16	20.9	46	336,291	19	19.6	32
Other comb of 4 or more years of Math	7,507	33	24.4	73	610,720	34	23.6	65
Alg 1, Alg 2, & Geom	4,187	19	18.2	17	223,733	12	17.2	11
Other comb of 3 or 3.5 years of Math	1,012	4	20.6	42	88,866	5	19.7	34
Less than 3 years of Math	1,235	5	16.6	8	77,906	4	16.3	7
Zero years / no Math courses reported	541	2	16.7	12	72,640	4	17.9	20
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	431	2	22.2	49	50,989	3	22.2	51
Other comb of 4 or more years Social Science	12,956	58	23.1	57	908,394	50	22.0	50
US Hist, World Hist, & Am Gov	1,099	5	21.5	46	106,021	6	19.5	34
Other comb of 3 or 3.5 years of Social Science	6,473	29	22.4	53	489,586	27	21.0	43
Less than 3 years of Social Science	1,045	5	20.2	38	171,617	10	19.1	32
Zero years / no Social Science courses reported	522	2	16.4	20	72,636	4	17.7	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	10,061	45	23.6	59	767,293	43	21.9	46
Bio, Chem, Phys	1,175	5	24.9	68	183,685	10	23.0	54
Gen Sci ¹ , Bio, Chem	8,045	36	21.3	37	504,165	28	19.9	28
Other comb of 3 years of Natural Science	647	3	20.9	36	51,822	3	19.1	25
Less than 3 years of Natural Science	2,062	9	19.1	20	218,267	12	18.0	17
Zero years / no Natural Science courses reported	536	2	16.6	14	74,011	4	17.8	18

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

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

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

Total Students in Report: 22,526

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	861	4	20.6	104	8	18.5	726	4	20.9
Architecture	262	1	22.2	9	1	18.1	249	1	22.3
Area, Ethnic, & Multidisciplinary Studies	21	0	21.7	2	0	16.0	17	0	22.6
Arts: Visual & Performing	1,217	5	22.0	74	6	18.3	1,082	5	22.3
Business	2,011	9	21.6	121	10	18.0	1,820	9	21.9
Communications	379	2	22.2	11	1	16.2	361	2	22.4
Community, Family, & Personal Services	502	2	19.5	63	5	16.7	414	2	20.1
Computer Science & Mathematics	508	2	23.6	43	3	19.2	446	2	24.0
Education	1,825	8	21.3	42	3	17.2	1,724	9	21.4
Engineering	1,516	7	24.8	32	3	19.0	1,427	7	25.0
Engineering Technology & Drafting	282	1	21.2	37	3	17.3	233	1	21.9
English & Foreign Languages	265	1	24.7	2	0	17.5	252	1	24.7
Health Administration & Assisting	517	2	19.7	58	5	18.4	434	2	19.9
Health Sciences & Technologies	4,129	18	22.3	189	15	18.2	3,837	19	22.5
Philosophy, Religion, & Theology	112	0	22.5	4	0	20.3	104	1	22.6
Repair, Production, & Construction	298	1	18.7	168	13	18.2	114	1	19.4
Sciences: Biological & Physical	1,276	6	24.2	11	1	19.5	1,219	6	24.2
Social Sciences & Law	1,544	7	22.6	41	3	18.1	1,452	7	22.7
Undecided	4,333	19	22.6	213	17	18.3	3,793	19	22.8
No Response	658	3	15.8	32	3	13.6	59	0	17.5

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: 22,526

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	272	17.7	12	14.3	1	17.0	218	18.2	21	15.0
2-yr College Degree	986	18.1	33	14.3	4	15.5	799	18.6	73	16.2
Bachelors Degree	13,136	21.5	288	17.0	33	19.1	11,350	21.8	612	19.0
Graduate Study	2,922	24.4	62	18.9	5	21.2	2,478	24.8	120	22.1
Prof. Level Degree	3,709	24.6	113	20.2	10	24.1	2,917	25.0	227	21.5
Other	264	19.1	7	16.1	0	.	203	19.8	25	14.8
No Response	1,237	19.6	86	14.8	4	13.3	747	21.3	126	15.7

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	272	17.7	8	17.0	0	.	4	16.3	8	18.3
2-yr College Degree	986	18.1	16	14.6	0	.	31	17.6	30	18.1
Bachelors Degree	13,136	21.5	204	20.2	6	22.0	330	20.7	313	22.2
Graduate Study	2,922	24.4	65	23.3	1	21.0	85	23.1	106	24.8
Prof. Level Degree	3,709	24.6	174	25.9	4	23.3	138	24.0	126	25.6
Other	264	19.1	7	18.7	0	.	7	16.7	15	20.1
No Response	1,237	19.6	71	17.6	0	.	35	18.5	168	18.9

Total Students in Report: 22,526

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
IOWA STATE UNIVERSITY	Iowa	6,584	3,115	3,469	1	4	18	34	27	15	2
UNIVERSITY OF IOWA	Iowa	5,844	2,361	3,483	1	4	16	34	28	15	1
UNIVERSITY OF NORTHERN IOWA	Iowa	4,519	1,261	3,258	0	4	21	37	27	10	1
KIRKWOOD COMMUNITY COLLEGE	Iowa	1,158	382	776	1	10	34	35	16	4	0
DRAKE UNIVERSITY	Iowa	1,056	215	841	2	6	14	28	28	20	2
CENTRAL COLLEGE	Iowa	997	256	741	0	3	17	34	29	15	1
DES MOINES AREA COMMUNITY COLL-ANKENY	Iowa	903	393	510	5	15	31	32	13	3	0
SIMPSON COLLEGE	Iowa	831	197	634	1	5	20	34	26	14	1
WARTBURG COLLEGE	Iowa	820	180	640	0	3	16	34	33	13	1
GRAND VIEW UNIVERSITY	Iowa	640	150	490	4	13	31	33	16	3	0
COE COLLEGE	Iowa	585	123	462	0	3	18	37	29	12	1
HAWKEYE COMMUNITY COLLEGE	Iowa	532	176	356	1	12	39	36	10	2	0
LUTHER COLLEGE	Iowa	519	144	375	0	2	10	31	34	21	2
MORNINGSIDE COLLEGE	Iowa	458	154	304	0	5	26	33	27	9	0
NORTHWEST MISSOURI ST UNIV	Missouri	440	155	285	0	4	28	38	20	10	0
ST AMBROSE UNIVERSITY	Iowa	436	103	333	0	3	20	35	30	12	0
IOWA WESTERN COMM C-COUNCIL BLFS	Iowa	414	171	243	1	12	39	33	12	2	0
IOWA CENTRAL COMMUNITY COLL-FORT DODGE	Iowa	412	152	260	4	14	35	33	12	1	0
BUENA VISTA UNIVERSITY	Iowa	401	108	293	1	8	23	34	23	10	1
UNIVERSITY OF SOUTH DAKOTA	South Dakota	383	116	267	0	3	24	36	27	8	1
CREIGHTON UNIVERSITY	Nebraska	380	93	287	0	2	7	28	34	26	4
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	379	106	273	0	2	22	37	30	8	1
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	374	105	269	0	4	18	31	28	17	2
NORTHWESTERN COLLEGE	Iowa	344	112	232	1	2	18	31	32	14	1
LORAS COLLEGE	Iowa	330	87	243	0	2	22	36	25	14	1
UPPER IOWA UNIVERSITY	Iowa	330	84	246	1	7	30	38	20	4	0
MOUNT MERCY UNIVERSITY	Iowa	313	73	240	1	6	25	40	21	7	1
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	311	48	263	0	1	9	23	31	31	5
STATE-COLLEGE/NO REPORTS NOW	Iowa	310	310	0	18	33	26	13	5	4	0
NCAA ELIGIBILITY CENTER	Indiana	275	117	158	0	3	22	34	30	9	1
All Other Institutions		15,559	4,261	11,298	2	7	20	28	24	17	3
Total		46,837	15,308	31,529	1	6	20	32	25	14	2

Section V

Optional Writing Test Results

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

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

Total Students in Report: 22,526

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	4,537	942,769	24.5	21.3	7.3	7.0	23.1	20.5
Black/African American	113	114,751	19.6	16.3	6.7	6.1	19.0	16.0
American Indian/Alaska Native	11	6,031	21.0	16.8	7.4	6.1	20.7	16.4
White	3,637	518,407	24.8	22.9	7.3	7.2	23.4	21.9
Hispanic/Latino	242	151,504	21.0	18.6	7.1	6.8	20.4	18.3
Asian	187	54,580	25.8	23.5	7.7	7.6	24.5	22.7
Native Hawaiian/Other Pac. Isl.	2	2,812	28.5	19.5	9.5	6.9	28.0	19.2
Two or more races	149	35,355	23.4	21.5	7.4	7.0	22.4	20.6
Prefer not/No Response	196	59,329	25.2	21.8	7.2	7.1	23.5	20.9
Males	1,935	423,104	24.3	21.0	7.1	6.7	22.8	20.1
Females	2,602	513,945	24.6	21.6	7.4	7.2	23.4	20.9
Missing	0	5,720	.	16.6	.	6.3	.	16.5

