

ACT Profile Report - State

Graduating Class 2012
Iowa



ACT, INC. -- CONFIDENTIAL



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This report provides information about the performance of your 2012 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 2012 and tested under standard time conditions.

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 meeting or exceeding 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 are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

30% 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: 23,119 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 6% 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. 19% 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. 15% of these students were college ready. In comparison, 41% 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 your regional office at 847-634-2560.

Section I

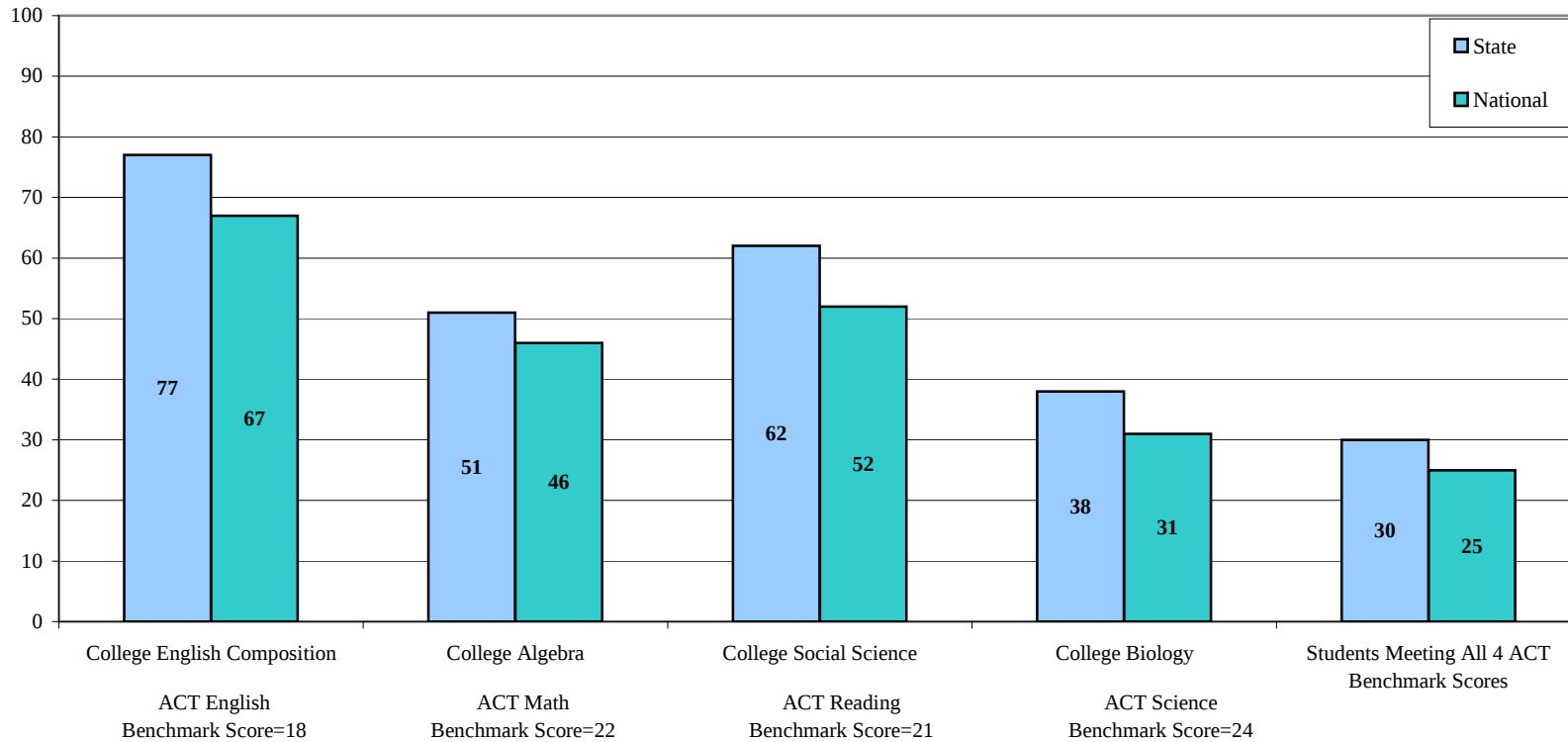
Executive Summary

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories.

Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 23,119

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: 23,119

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

Year	Number of Students Tested		Percent Meeting Benchmarks									
			English		Mathematics		Reading		Science		Meeting All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2008	22,950	1,421,941	79	68	50	43	63	53	37	28	29	22
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

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
2008	22,950	1,421,941	21.9	20.6	22.0	21.0	22.9	21.4	22.3	20.8	22.4	21.1
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

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested		Average ACT Scores				
			English	Mathematics	Reading	Science	Composite
2008	1,421,941		20.6	21.0	21.4	20.8	21.1
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

Total Students in Report: 23,119

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	Less than Core	English		Mathematics		Reading		Science		Composite	
	Core or More ¹	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	Core or More	Less than Core
2008	15,732	5,814	69	25	22.6	19.8	22.7	20.1	23.5	21.2	22.9	20.7	23.1	20.6
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

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.

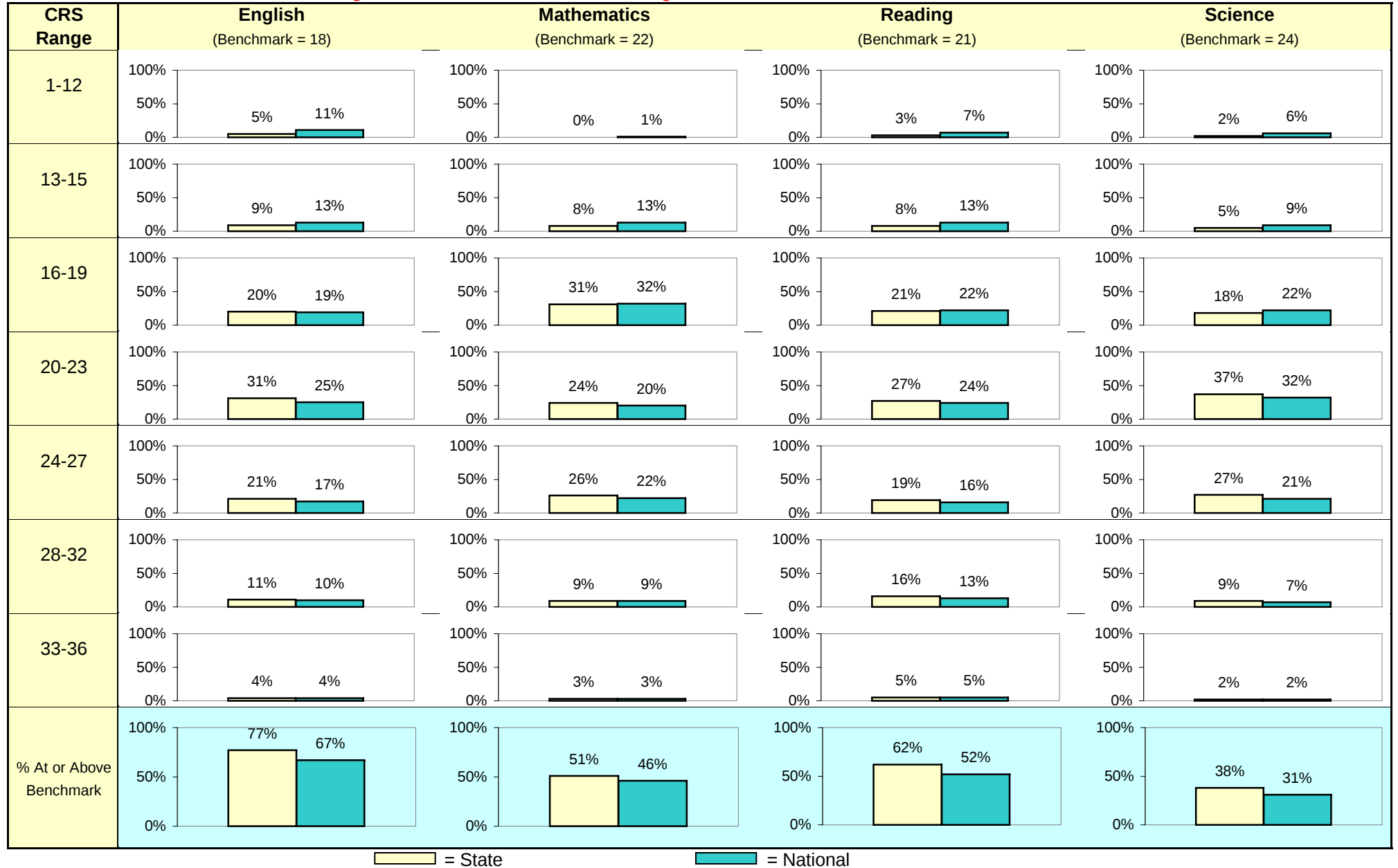
Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity¹

	2008			2009			2010			2011			2012		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	22,950	100	22.4	22,377	100	22.4	22,943	100	22.2	22,968	100	22.3	23,119	100	22.1
Black/African American	435	2	17.8	448	2	18.3	583	3	17.3	583	3	17.1	601	3	17.6
American Indian/Alaska Native	67	0	20.9	81	0	20.2	81	0	20.3	68	0	20.3	77	0	20.4
White	19,938	87	22.5	19,741	88	22.6	19,967	87	22.5	19,652	86	22.6	19,515	84	22.5
Hispanic/Latino	461	2	20.1	556	2	19.9	700	3	18.9	927	4	19.6	1,140	5	19.3
Asian	444	2	22.7	429	2	22.7	537	2	22.5	537	2	22.9	475	2	22.3
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	1	0	20.0	6	0	19.5
Two or more races	260	1	21.9	336	2	21.9	371	2	21.5	431	2	21.4	581	3	21.7
Prefer not to respond/No response	1,345	6	23.0	786	4	22.8	704	3	21.1	769	3	21.5	724	3	22.2

¹Refer to the section header on page 5 for a description of race/ethnicity changes.

Total Students in Report: 23,119

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



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Section II

Academic Achievement

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 23,119

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP¹), and Score Averages

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	78	100	64	100	160	100	95	100	14	100	36
35	237	100	130	100	193	99	105	100	60	100	35
34	316	99	181	99	400	98	93	99	109	100	34
33	310	97	215	98	511	97	131	99	179	99	33
32	378	96	275	97	586	95	242	98	275	98	32
31	420	94	216	96	778	92	346	97	412	97	31
30	525	92	384	95	780	89	446	96	582	95	30
29	553	90	461	94	749	85	380	94	644	93	29
28	597	88	757	92	812	82	706	92	880	90	28
27	945	85	1,017	88	978	79	1,198	89	1,053	86	27
26	982	81	1,517	84	915	74	1,103	84	1,188	82	26
25	1,139	77	1,450	77	998	70	1,701	79	1,505	77	25
24	1,715	72	1,971	71	1,566	66	2,292	72	1,723	70	24
23	1,606	65	1,712	63	1,422	59	2,081	62	1,862	63	23
22	1,561	58	1,441	55	1,597	53	2,092	53	1,917	55	22
21	2,119	51	978	49	1,800	46	2,196	44	1,973	46	21
20	1,769	42	1,376	45	1,455	38	2,168	34	1,863	38	20
19	1,437	34	1,439	39	1,265	32	1,437	25	1,659	30	19
18	1,047	28	1,684	33	1,645	27	1,248	19	1,504	23	18
17	959	23	1,878	25	996	20	792	13	1,135	16	17
16	1,083	19	2,186	17	838	15	586	10	907	11	16
15	1,021	14	1,238	8	859	12	500	7	643	7	15
14	681	10	383	2	638	8	386	5	467	4	14
13	388	7	122	1	442	5	314	3	300	2	13
12	290	5	30	1	365	3	198	2	164	1	12
11	313	4	10	1	172	2	136	1	81	1	11
10	281	3	2	1	118	1	107	1	14	1	10
9	171	2	2	1	37	1	26	1	2	1	9
8	120	1	0	1	21	1	9	1	3	1	8
7	51	1	0	1	12	1	2	1	1	1	7
6	20	1	0	1	7	1	2	1	0	1	6
5	6	1	0	1	1	1	1	1	0	1	5
4	0	1	0	1	2	1	0	1	0	1	4
3	0	1	0	1	1	1	0	1	0	1	3
2	1	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Avg (SD)	21.6 (5.7)		21.7 (4.9)		22.5 (5.8)		22.2 (4.6)		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.

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), and Subtest Score 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	812	100	267	100	631	100	774	100	987	100	219	100	238	100	18
17	941	96	307	99	1,249	97	1,196	97	1,053	96	132	99	56	99	17
16	1,283	92	1,415	98	1,601	92	1,579	91	754	91	606	98	730	99	16
15	978	87	1,438	91	1,447	85	1,507	85	1,486	88	839	96	1,378	96	15
14	1,695	83	2,017	85	1,826	79	2,019	78	1,914	81	2,067	92	1,990	90	14
13	1,123	75	2,289	76	2,345	71	2,052	69	2,668	73	2,881	83	2,507	81	13
12	2,262	70	2,831	67	2,709	61	2,245	61	2,408	62	2,431	71	3,177	70	12
11	2,718	61	3,165	54	2,080	49	1,990	51	2,576	51	3,346	60	3,033	56	11
10	3,020	49	2,511	41	2,439	40	2,214	42	2,017	40	3,661	46	3,160	43	10
9	2,319	36	2,731	30	2,205	29	2,302	33	1,761	31	2,842	30	2,676	30	9
8	1,844	26	1,547	18	1,683	20	1,890	23	2,339	24	2,004	18	1,831	18	8
7	1,537	18	1,027	11	1,618	13	1,156	14	2,017	14	979	9	1,216	10	7
6	1,077	11	602	7	640	6	1,063	9	699	5	539	5	484	5	6
5	717	7	503	4	391	3	727	5	318	2	261	2	246	3	5
4	404	3	302	2	166	1	224	2	84	1	164	1	261	2	4
3	278	2	144	1	58	1	128	1	22	1	75	1	56	1	3
2	99	1	22	1	28	1	50	1	13	1	29	1	60	1	2
1	12	1	1	1	3	1	3	1	3	1	44	1	20	1	1
Avg (SD)	10.8 (3.6)		11.2 (3.0)		11.6 (3.3)		11.4 (3.6)		11.4 (3.3)		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	20	19

Total Students in Report: 23,119

Table 2.4. Average ACT Composite Scores for Race/Ethnicity¹ by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ²	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	23,119	80	22.8	19.6
	Black/African American	601	63	19.0	15.6
	American Indian/Alaska Native	77	75	21.2	17.7
	White	19,515	82	23.0	20.2
	Hispanic/Latino	1,140	68	20.6	16.9
	Asian	475	82	23.2	18.8
	Native Hawaiian/Other Pac. Isl.	6	50	21.0	18.0
	Two or more races	581	77	22.4	19.8
	Prefer not/No Response	724	73	23.7	18.8
National	All Students	1,666,017	76	21.8	19.1
	Black/African American	222,237	72	17.5	15.9
	American Indian/Alaska Native	13,523	66	19.3	16.9
	White	983,148	77	23.0	20.3
	Hispanic/Latino	234,456	73	19.5	17.4
	Asian	68,080	81	24.1	21.8
	Native Hawaiian/Other Pac. Isl.	4,545	74	20.4	18.3
	Two or more races	55,500	76	22.0	19.6
	Prefer not/No Response	84,528	68	22.5	19.2

¹Refer to the section header on page 11 for a description of race/ethnicity changes.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.**Table 2.5. Average ACT Scores by Race/Ethnicity¹**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.6	21.7	22.5	22.2	22.1
	Black/African American	16.3	17.6	17.9	18.1	17.6
	American Indian/Alaska Native	19.5	20.2	20.6	20.6	20.4
	White	22.0	22.0	22.9	22.5	22.5
	Hispanic/Latino	18.1	19.2	19.8	19.8	19.3
	Asian	21.3	23.5	21.6	22.5	22.3
	Native Hawaiian/Other Pac. Isl.	20.5	18.3	18.2	20.2	19.5
	Two or more races	21.2	21.1	22.4	21.7	21.7
	Prefer not/No Response	21.8	21.6	22.8	21.9	22.2
National	All Students	20.5	21.1	21.3	20.9	21.1
	Black/African American	16.0	17.3	17.2	17.2	17.0
	American Indian/Alaska Native	17.1	18.5	18.7	18.7	18.4
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.7	19.4	19.0	18.9	18.9
	Asian	22.7	25.2	22.9	23.2	23.6
	Native Hawaiian/Other Pac. Isl.	18.9	20.4	19.8	19.7	19.8
	Two or more races	21.0	21.1	21.8	21.2	21.4
	Prefer not/No Response	20.7	21.3	21.5	20.9	21.3

¹Refer to the section header on page 11 for a description of race/ethnicity changes.

Total Students in Report: 23,119

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	941	4	590	3	1,264	5	424	2
	28 to 32	2,473	11	2,093	9	3,705	16	2,120	9
	24 to 27	4,781	21	5,955	26	4,457	19	6,294	27
	20 to 23	7,055	31	5,507	24	6,274	27	8,537	37
	16 to 19	4,526	20	7,187	31	4,744	21	4,063	18
	13 to 15	2,090	9	1,743	8	1,939	8	1,200	5
	01 to 12	1,253	5	44	0	736	3	481	2
National	33 to 36	74,039	4	50,719	3	81,737	5	30,082	2
	28 to 32	167,405	10	149,540	9	223,134	13	123,485	7
	24 to 27	291,143	17	369,818	22	262,453	16	355,144	21
	20 to 23	414,094	25	332,787	20	399,794	24	532,341	32
	16 to 19	318,585	19	538,042	32	366,975	22	373,233	22
	13 to 15	210,405	13	216,778	13	220,083	13	158,083	9
	01 to 12	190,346	11	8,333	1	111,841	7	93,649	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	10,684	46	21.3	22.5	22.5	22.9	22.4
	Females	12,380	54	22.0	21.1	22.5	21.7	21.9
	Missing	55	0	15.1	16.8	17.2	17.2	16.7
National	Males	761,554	46	20.2	21.7	21.2	21.4	21.2
	Females	900,625	54	20.9	20.6	21.4	20.5	21.0
	Missing	3,838	0	16.1	17.8	17.6	17.8	17.5

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

Student Group	Gender	Percent of Students				Meet All Four
		English	Mathematics	Reading	Science	
State	Males	74	57	62	45	35
	Females	79	46	62	33	26
National	Males	64	50	51	35	29
	Females	69	42	53	27	22

Total Students in Report: 23,119

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ⁴	Avg
State	Core or More ²	18,499	82	22.4	57	22.4	66	23.2	43	22.8	34	22.8
	Less than Core	4,255	57	18.8	28	19.1	44	20.1	21	20.0	14	19.6
	Missing ³	365	36	15.5	15	17.3	25	17.2	14	17.6	7	17.0
National	Core or More	1,259,744	72	21.3	51	21.8	57	22.0	35	21.6	29	21.8
	Less than Core	355,849	51	18.3	29	19.1	38	19.4	19	19.1	14	19.1
	Missing	50,424	38	16.2	22	18.1	27	17.6	14	17.8	10	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 meet 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	21,690	78	21.9	21,454	54	22.1	21,744	63	22.7	20,614	41	22.6
	Less than Core	1,133	58	18.6	1,323	8	16.8	1,071	45	20.4	2,190	15	19.2
	Missing ³	296	38	15.8	342	16	17.3	304	27	17.3	315	15	17.8
National	Core or More	1,558,562	68	20.8	1,550,768	48	21.4	1,471,658	54	21.6	1,425,217	33	21.4
	Less than Core	64,748	41	16.5	69,741	8	16.6	149,266	40	19.7	194,661	13	18.4
	Missing	42,707	40	16.5	45,508	22	18.2	45,093	29	17.8	46,139	14	17.9

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.

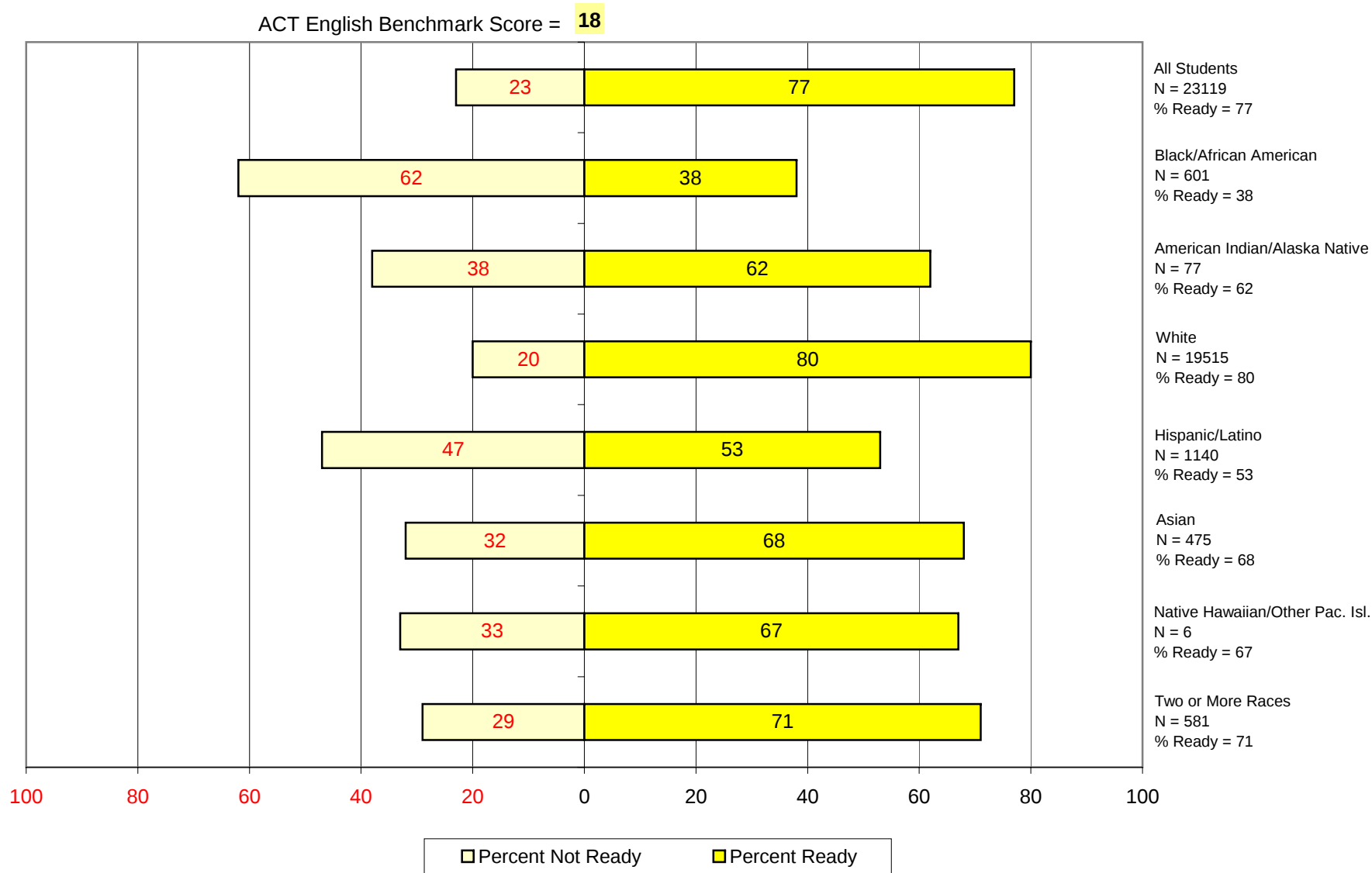
Section III

College Readiness and the Impact of Course Rigor

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories.

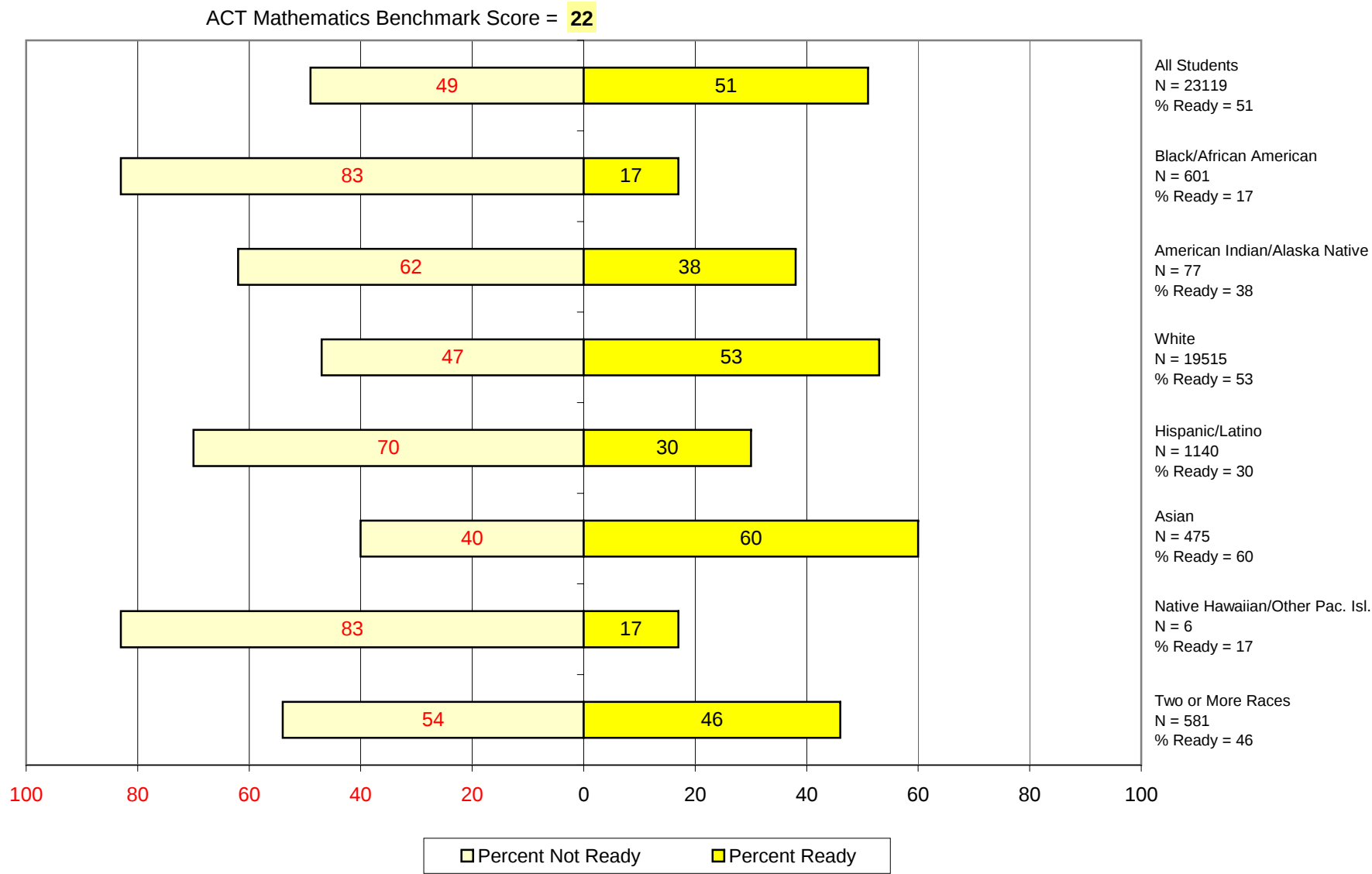
Therefore, trend data may not be present where direct conversions are not available.

Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ENGLISH



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

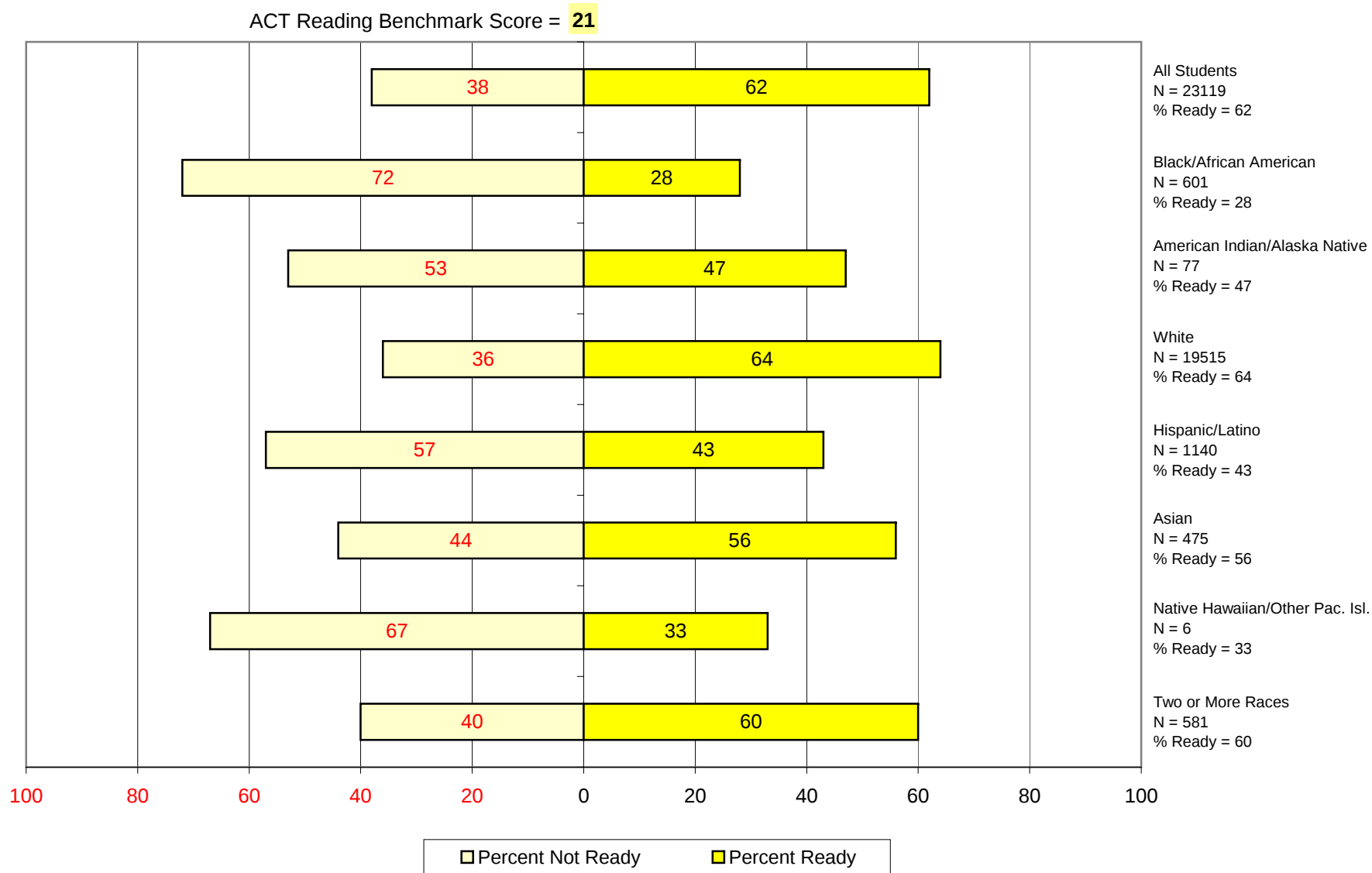
Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: MATHEMATICS



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 23,119

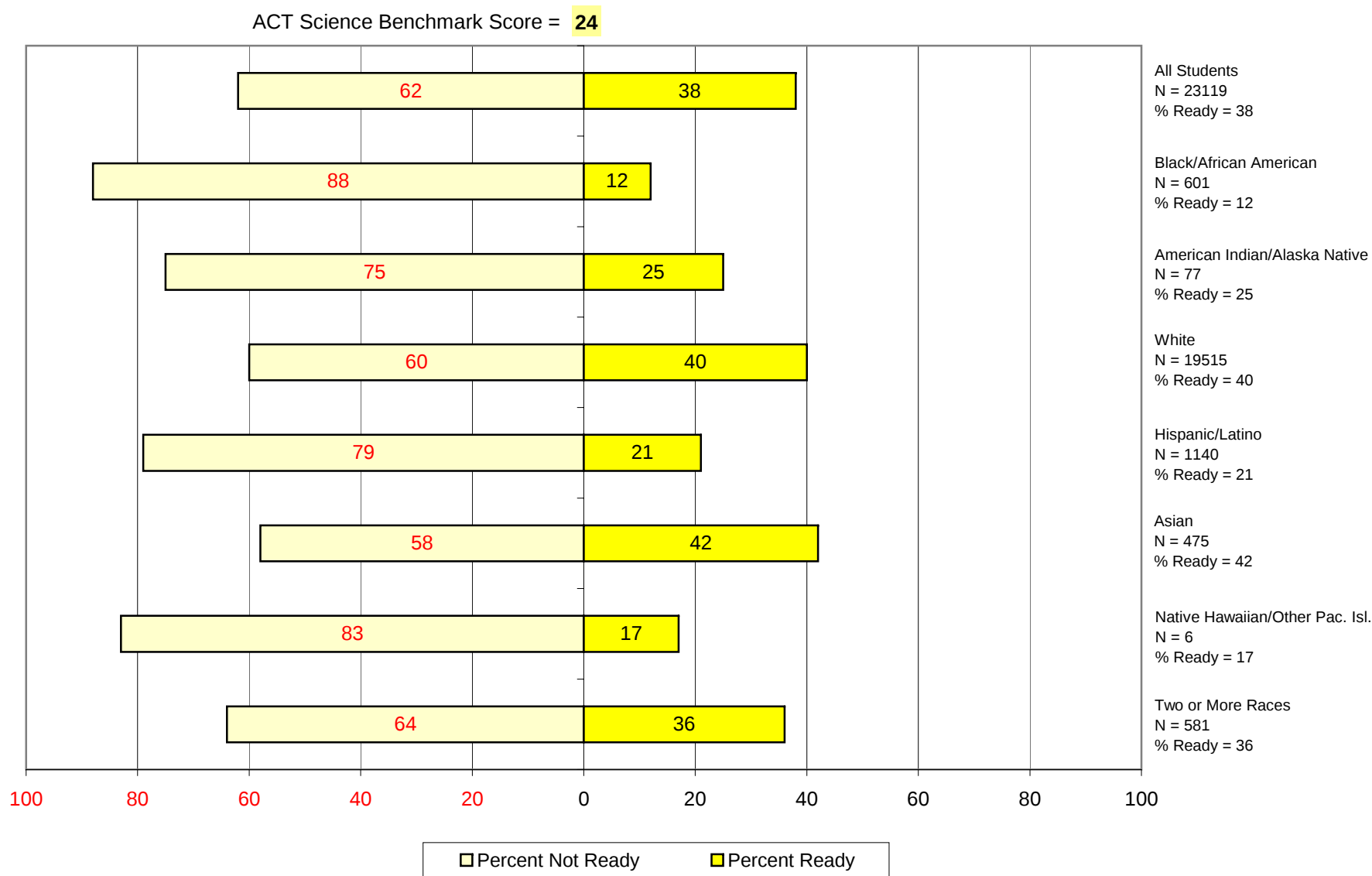
Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: READING



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 23,119

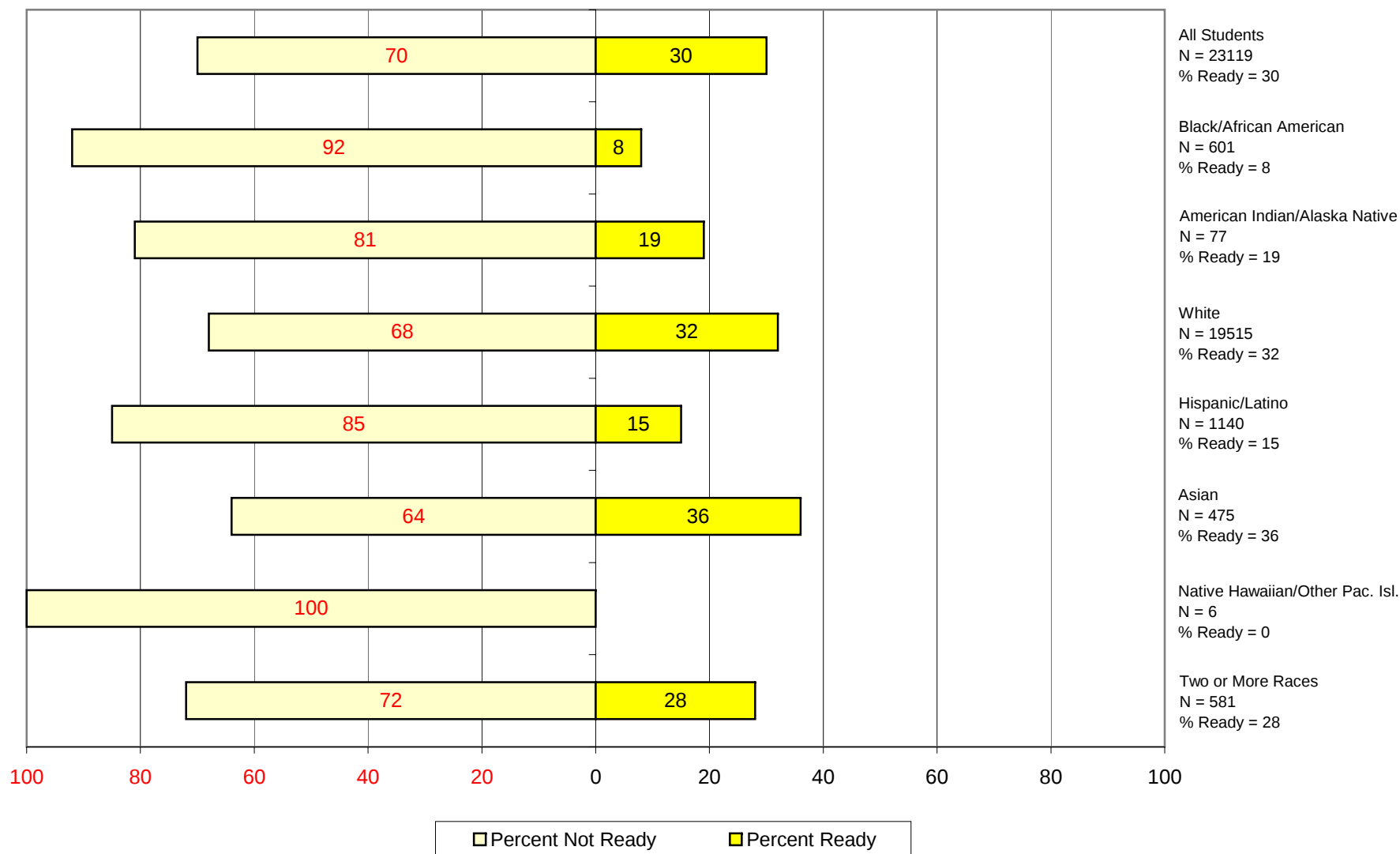
Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: SCIENCE



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 23,119

Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ALL FOUR



¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 23,119

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	9,609	42	22.6	4.0	3,909	37	22.1	3.6	5,698	46	22.9	4.1
Eng 9, Eng 10, Eng 11, Eng 12	12,081	52	21.3	2.7	6,093	57	21.1	2.6	5,963	48	21.5	2.7
Less than 4 years of English	1,133	5	18.6	-	515	5	18.5	-	599	5	18.8	-
Zero years / no English courses reported	296	1	15.8	-	167	2	15.5	-	120	1	16.4	-
MATHEMATICS COURSE PATTERN												
	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹	N	Percent	ACT Math	Course Value Added ¹
Alg 1, Alg 2, Geom, Trig, & Calc	1,223	5	24.8	8.0	606	6	25.3	8.1	614	5	24.3	7.8
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,042	9	23.0	6.2	801	7	23.5	6.3	1,241	10	22.6	6.1
Alg 1, Alg 2, Geom, & Trig	1,402	6	21.2	4.4	616	6	21.8	4.6	786	6	20.8	4.3
Alg 1, Alg 2, Geom, & Other Adv Math	3,689	16	20.9	4.1	1,444	14	21.3	4.1	2,240	18	20.7	4.2
Other comb of 4 or more years of Math	7,502	32	24.6	7.8	4,017	38	25.3	8.1	3,479	28	23.8	7.3
Alg 1, Alg 2, & Geom	4,500	19	18.4	1.6	1,847	17	18.7	1.5	2,631	21	18.2	1.7
Other comb of 3 or 3.5 years of Math	1,096	5	20.4	3.6	562	5	20.9	3.7	532	4	19.9	3.4
Less than 3 years of Math	1,323	6	16.8	-	605	6	17.2	-	711	6	16.5	-
Zero years / no Math courses reported	342	1	17.3	-	186	2	17.8	-	146	1	16.8	-
SOCIAL SCIENCE COURSE PATTERN												
	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹	N	Percent	ACT Reading	Course Value Added ¹
US Hist, World Hist, Am Gov, & Other Hist	444	2	22.2	1.8	236	2	21.6	1.2	207	2	23.0	2.5
Other comb of 4 or more years Social Science	13,422	58	23.0	2.6	6,140	57	23.1	2.7	7,267	59	22.9	2.4
US Hist, World Hist, & Am Gov	1,084	5	21.6	1.2	567	5	21.4	1.0	515	4	21.9	1.4
Other comb of 3 or 3.5 years of Social Science	6,794	29	22.3	1.9	3,075	29	22.4	2.0	3,706	30	22.3	1.8
Less than 3 years of Social Science	1,071	5	20.4	-	497	5	20.4	-	560	5	20.5	-
Zero years / no Social Science courses reported	304	1	17.3	-	169	2	17.0	-	125	1	17.8	-
NATURAL SCIENCE COURSE PATTERN												
	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹	N	Percent	ACT Science	Course Value Added ¹
Gen Sci ² , Bio, Chem, & Phys	10,305	45	23.6	4.4	5,320	50	24.3	5.0	4,976	40	22.8	3.8
Bio, Chem, Phys	1,168	5	24.7	5.5	606	6	25.5	6.2	558	5	23.9	4.9
Gen Sci ² , Bio, Chem	8,472	37	21.3	2.1	3,205	30	21.6	2.3	5,255	42	21.1	2.1
Other comb of 3 years of Natural Science	669	3	21.2	2.0	391	4	21.8	2.5	275	2	20.3	1.3
Less than 3 years of Natural Science	2,190	9	19.2	-	992	9	19.3	-	1,183	10	19.0	-
Zero years / no Natural Science courses reported	315	1	17.8	-	170	2	17.9	-	133	1	17.7	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took

less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 23,119

Table 3.2. College Readiness Percents by Common Course Patterns

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	9,609	42	22.6	82	380,162	23	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	12,081	52	21.3	75	1,178,400	71	20.5	67
Less than 4 years of English	1,133	5	18.6	58	64,748	4	16.5	41
Zero years / no English courses reported	296	1	15.8	38	42,707	3	16.5	40
MATHEMATICS COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	1,223	5	24.8	78	108,668	7	24.0	69
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,042	9	23.0	67	151,050	9	22.0	58
Alg 1, Alg 2, Geom, & Trig	1,402	6	21.2	51	115,739	7	19.6	34
Alg 1, Alg 2, Geom, & Other Adv Math	3,689	16	20.9	46	279,658	17	19.9	36
Other comb of 4 or more years of Math	7,502	32	24.6	75	585,086	35	23.6	66
Alg 1, Alg 2, & Geom	4,500	19	18.4	19	228,058	14	17.3	12
Other comb of 3 or 3.5 years of Math	1,096	5	20.4	38	82,509	5	19.9	35
Less than 3 years of Math	1,323	6	16.8	8	69,741	4	16.6	8
Zero years / no Math courses reported	342	1	17.3	16	45,508	3	18.2	22
SOCIAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	444	2	22.2	60	47,179	3	22.3	59
Other comb of 4 or more years Social Science	13,422	58	23.0	65	887,744	53	21.9	56
US Hist, World Hist, & Am Gov	1,084	5	21.6	54	84,563	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	6,794	29	22.3	60	452,172	27	21.2	51
Less than 3 years of Social Science	1,071	5	20.4	45	149,266	9	19.7	40
Zero years / no Social Science courses reported	304	1	17.3	27	45,093	3	17.8	29
NATURAL SCIENCE COURSE PATTERN								
	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci ¹ , Bio, Chem, & Phys	10,305	45	23.6	50	740,499	44	21.9	39
Bio, Chem, Phys	1,168	5	24.7	61	171,734	10	23.0	47
Gen Sci ¹ , Bio, Chem	8,472	37	21.3	28	466,992	28	20.0	22
Other comb of 3 years of Natural Science	669	3	21.2	32	45,992	3	19.5	20
Less than 3 years of Natural Science	2,190	9	19.2	15	194,661	12	18.4	13
Zero years / no Natural Science courses reported	315	1	17.8	15	46,139	3	17.9	14

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories.

Therefore, trend data may not be present where direct conversions are not available.

Tables within this section have been changed to reflect the updated Educational Major categories implemented by ACT in the fall of 2010.

Total Students in Report: 23,119

Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans

Planned Educational Major ¹	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ²	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp
Agriculture & Natural Resources Conservation	807	3	20.7	108	9	18.6	660	3	21.1
Architecture	286	1	22.4	10	1	16.9	261	1	22.7
Area, Ethnic, & Multidisciplinary Studies	28	0	22.9	3	0	16.7	23	0	23.9
Arts: Visual & Performing	1,461	6	22.1	81	7	18.2	1,302	6	22.3
Business	2,069	9	21.6	115	9	18.6	1,879	9	21.9
Communications	452	2	22.2	13	1	18.9	426	2	22.2
Community, Family, & Personal Services	572	2	19.4	87	7	17.4	457	2	19.8
Computer Science & Mathematics	527	2	23.7	25	2	17.6	482	2	24.0
Education	1,778	8	21.2	34	3	18.3	1,683	8	21.3
Engineering	1,446	6	24.7	25	2	18.2	1,382	7	24.8
Engineering Technology & Drafting	306	1	22.6	19	2	17.4	274	1	23.1
English & Foreign Languages	348	2	24.8	1	0	22.0	332	2	24.9
Health Administration & Assisting	499	2	19.7	48	4	17.8	430	2	19.9
Health Sciences & Technologies	4,301	19	22.1	194	16	18.6	3,983	19	22.3
Philosophy, Religion, & Theology	129	1	21.8	5	0	17.0	116	1	21.9
Repair, Production, & Construction	276	1	18.7	126	10	17.7	126	1	19.8
Sciences: Biological & Physical	1,356	6	24.4	14	1	18.3	1,300	6	24.4
Social Sciences & Law	1,550	7	22.2	56	5	17.8	1,443	7	22.3
Undecided	4,391	19	22.7	224	18	18.3	3,834	19	23.0
No Response	530	2	16.7	26	2	14.7	110	1	19.0

¹Refer to the section header on page 25 for a description of educational major changes.

²2-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.

³Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 23,119

Table 4.2. Average ACT Composite Scores for Racial/Ethnic¹ 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	224	18.1	12	14.1	1	12.0	188	18.7	14	15.1
2-yr College Degree	993	18.1	28	14.7	4	16.3	841	18.5	61	15.3
Bachelors Degree	13,372	21.5	296	17.1	46	20.2	11,669	21.8	607	19.2
Graduate Study	3,174	24.2	69	18.7	5	22.6	2,713	24.5	122	21.4
Prof. Level Degree	3,960	24.5	134	20.3	16	22.3	3,104	24.9	227	21.3
Other	302	19.2	9	17.1	2	19.5	234	19.6	19	16.8
No Response	1,094	20.4	53	14.6	3	18.3	766	21.4	90	16.5

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	224	18.1	3	15.3	0	.	3	15.0	3	16.0
2-yr College Degree	993	18.1	16	15.9	0	.	15	16.8	28	16.4
Bachelors Degree	13,372	21.5	179	19.7	5	19.0	290	21.1	280	21.7
Graduate Study	3,174	24.2	62	23.9	0	.	91	23.3	112	23.9
Prof. Level Degree	3,960	24.5	172	25.3	0	.	136	23.8	171	24.4
Other	302	19.2	12	20.1	0	.	8	17.4	18	19.0
No Response	1,094	20.4	31	22.5	1	22.0	38	18.2	112	20.3

¹Refer to the section header on page 25 for a description of race/ethnicity changes.

Total Students in Report: 23,119

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	6,542	3,007	3,535	1	3	18	34	29	14	1
UNIVERSITY OF IOWA	Iowa	6,188	2,410	3,778	1	3	17	34	29	15	1
UNIVERSITY OF NORTHERN IOWA	Iowa	5,058	1,442	3,616	0	3	20	39	27	10	0
KIRKWOOD COMMUNITY COLLEGE	Iowa	1,317	412	905	1	9	33	37	16	3	0
DRAKE UNIVERSITY	Iowa	1,163	286	877	2	6	14	26	31	19	2
CENTRAL COLLEGE	Iowa	1,081	281	800	1	3	19	34	30	11	1
DES MOINES AREA COMMUNITY COLL-ANKENY	Iowa	966	399	567	4	14	33	33	12	3	0
WARTBURG COLLEGE	Iowa	955	216	739	0	3	16	35	32	13	1
SIMPSON COLLEGE	Iowa	901	209	692	1	6	19	35	27	10	1
GRAND VIEW UNIVERSITY	Iowa	683	164	519	5	17	33	30	14	2	0
HAWKEYE COMMUNITY COLLEGE	Iowa	618	239	379	2	11	37	37	11	3	0
LUTHER COLLEGE	Iowa	571	146	425	0	2	12	27	36	20	2
COE COLLEGE	Iowa	570	134	436	0	3	20	35	31	11	0
MORNINGSIDE COLLEGE	Iowa	470	124	346	0	7	24	39	23	7	0
IOWA WESTERN COMM C-COUNCIL BLFS	Iowa	451	200	251	1	12	37	35	13	2	0
UNIVERSITY OF SOUTH DAKOTA	South Dakota	446	125	321	0	3	24	40	24	8	0
IOWA CENTRAL COMMUNITY COLL-FORT DODGE	Iowa	441	187	254	1	11	36	36	13	4	0
NORTHWEST MISSOURI ST UNIV	Missouri	422	137	285	0	5	27	38	24	6	0
BUENA VISTA UNIVERSITY	Iowa	410	111	299	1	4	25	39	24	7	0
NORTHWESTERN COLLEGE	Iowa	407	133	274	1	2	16	34	33	13	1
ST AMBROSE UNIVERSITY	Iowa	403	122	281	0	4	23	37	24	12	0
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	394	98	296	0	1	15	33	33	17	2
CREIGHTON UNIVERSITY	Nebraska	377	84	293	0	2	6	24	39	25	5
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	374	112	262	0	3	20	33	33	10	1
LORAS COLLEGE	Iowa	366	83	283	0	4	22	34	33	8	0
NCAA ELIGIBILITY CENTER	Indiana	317	133	184	2	4	17	36	29	12	1
UPPER IOWA UNIVERSITY	Iowa	315	100	215	1	9	31	35	20	4	0
MOUNT MERCY UNIVERSITY	Iowa	310	93	217	1	5	25	40	26	4	0
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	292	45	247	0	2	9	24	34	29	2
NORTH IOWA AREA COMMUNITY COLL	Iowa	285	117	168	0	8	31	39	16	6	0
All Other Institutions		16,466	4,471	11,995	1	6	20	28	24	17	3
Total		49,559	15,820	33,739	1	5	20	33	26	14	1

Section V

Optional Writing Test Results

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 23,119

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity¹ 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	4,970	931,148	24.3	21.5	7.3	7.1	23.0	20.7
Black/African American	139	113,247	19.1	16.6	6.6	6.2	18.5	16.4
American Indian/Alaska Native	18	5,233	21.5	17.8	7.1	6.5	20.8	17.5
White	4,057	518,974	24.5	23.2	7.3	7.2	23.1	22.1
Hispanic/Latino	244	150,249	21.1	18.5	7.0	6.8	20.3	18.3
Asian	163	53,381	26.0	23.7	7.7	7.6	24.6	22.8
Native Hawaiian/Other Pac. Isl.	2	2,851	25.5	19.9	7.0	7.1	23.5	19.6
Two or more races	170	32,346	24.5	21.9	7.3	7.1	23.2	21.1
Prefer not/No Response	177	54,867	26.1	21.8	7.4	7.1	24.4	21.0
Males	2,055	413,617	24.4	21.2	7.1	6.8	22.9	20.3
Females	2,913	515,745	24.2	21.7	7.4	7.2	23.0	21.1
Missing	2	1,786	23.5	16.8	7.5	6.3	23.0	16.6

¹Refer to the section header on page 29 for a description of race/ethnicity changes.

