

ACT Profile Report - State

Graduating Class 2011
Massachusetts



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This report provides information about the performance of your 2011 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 2011 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

43% 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: 14,975 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. 65% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES: Table 3.2 reports 1% of the cohort took less than three years of math courses. Of these students, 34% were college ready. 4% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 26% of these students were college ready. In comparison, 76% 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. 28% of these students were college ready. In comparison, 48% 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 19% 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 508-229-0111.

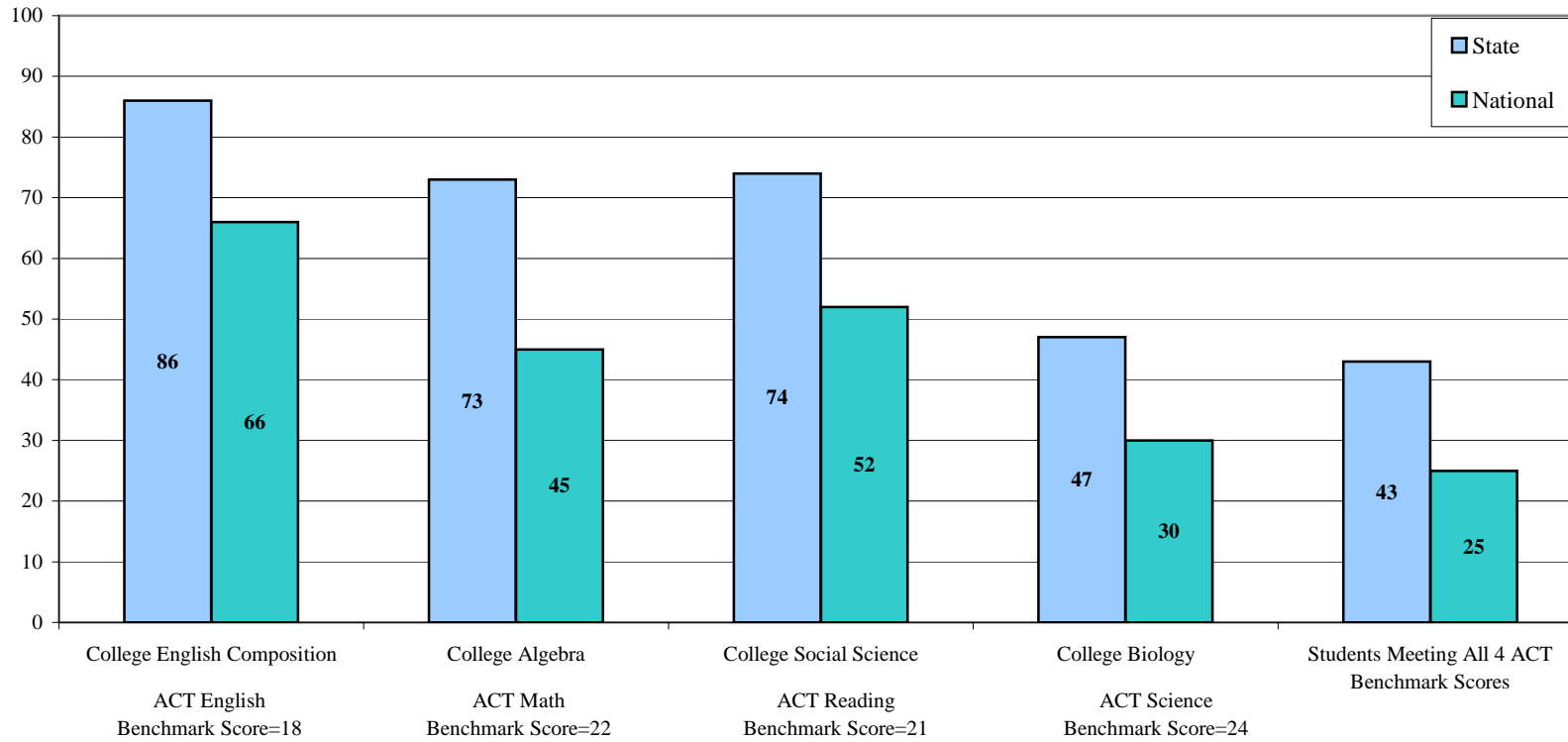
Section I

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: 14,975

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: 14,975

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
2007	10,510	1,300,599	85	69	65	43	70	53	41	28	36	23
2008	12,469	1,421,941	85	68	65	43	70	53	40	28	36	22
2009	13,093	1,480,469	86	67	68	42	73	53	43	28	39	23
2010	14,736	1,568,835	86	66	70	43	71	52	46	29	41	24
2011	14,975	1,623,112	86	66	73	45	74	52	47	30	43	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
2007	10,510	1,300,599	23.5	20.7	23.6	21.0	23.9	21.5	22.6	21.0	23.5	21.2
2008	12,469	1,421,941	23.5	20.6	23.9	21.0	24.0	21.4	22.5	20.8	23.6	21.1
2009	13,093	1,480,469	23.9	20.6	24.3	21.0	24.3	21.4	22.8	20.9	23.9	21.1
2010	14,736	1,568,835	24.0	20.5	24.3	21.0	24.2	21.3	23.1	20.9	24.0	21.0
2011	14,975	1,623,112	24.1	20.6	24.6	21.1	24.4	21.3	23.2	20.9	24.2	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
2007	1,300,599	20.7	21.0	21.5	21.0	21.2
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

Total Students in Report: 14,975

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
2007	3,402	4,279	32	41	23.6	23.2	23.7	23.4	24.1	23.8	22.7	22.4	23.6	23.3
2008	5,853	4,816	47	39	23.5	23.3	23.9	23.7	24.1	23.7	22.5	22.3	23.6	23.4
2009	8,310	4,490	63	34	24.1	23.8	24.3	24.3	24.5	24.0	22.9	22.8	24.1	23.9
2010	9,379	5,108	64	35	24.2	23.8	24.4	24.2	24.4	23.9	23.2	22.9	24.2	23.8
2011	9,685	5,076	65	34	24.2	24.1	24.6	24.7	24.5	24.4	23.3	23.2	24.3	24.2

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.

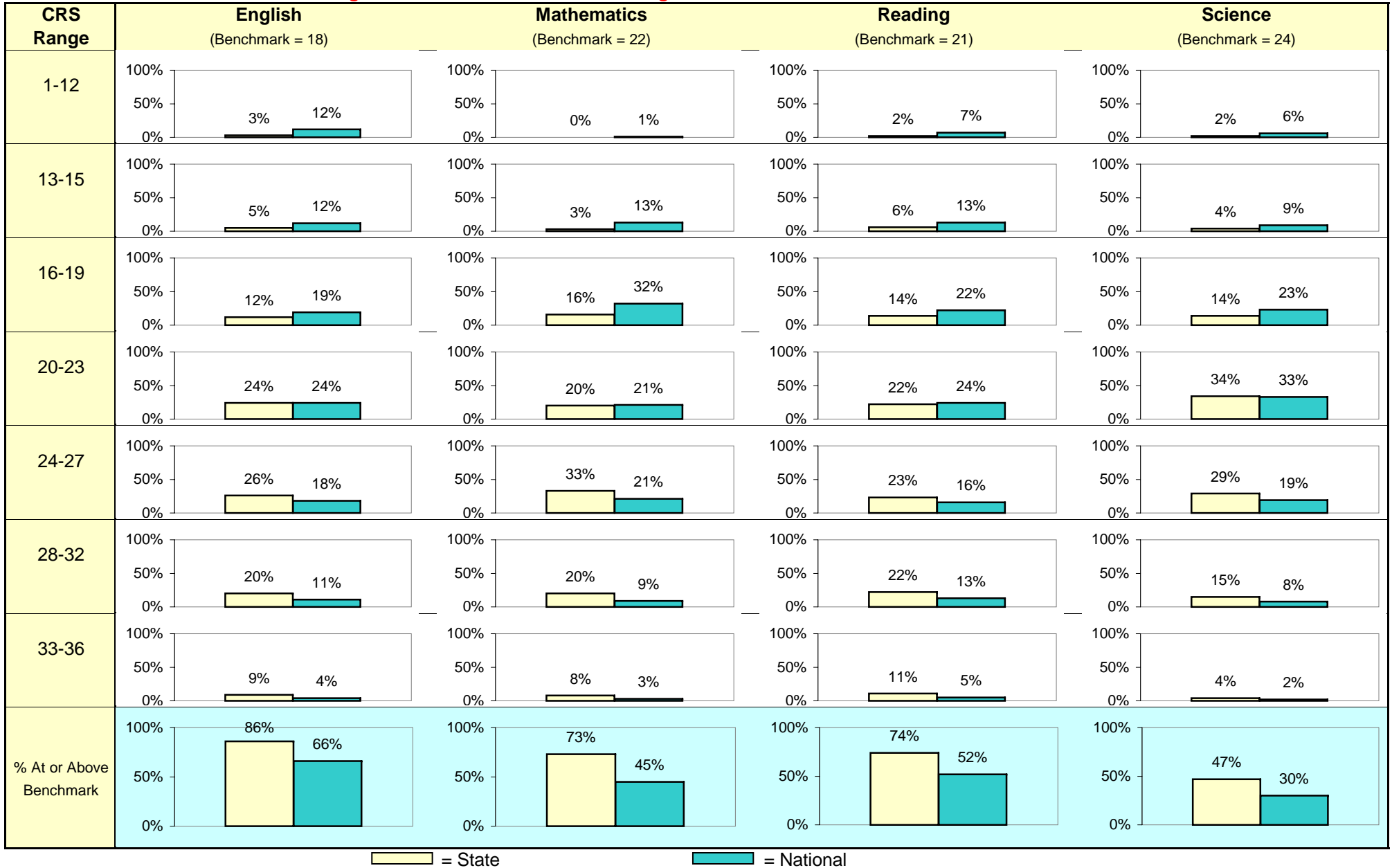
Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity¹

	2007			2008			2009			2010			2011		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	10,510	100	23.5	12,469	100	23.6	13,093	100	23.9	14,736	100	24.0	14,975	100	24.2
Black/African American	348	3	19.0	405	3	19.3	462	4	19.1	604	4	19.2	573	4	19.4
American Indian/Alaska Native	15	0	21.8	17	0	22.8	21	0	23.8	33	0	22.5	23	0	23.8
White	6,305	60	23.5	8,678	70	23.6	10,008	76	24.1	11,308	77	24.3	11,460	77	24.5
Hispanic/Latino	241	2	20.9	328	3	21.3	360	3	21.2	503	3	20.7	675	5	21.1
Asian	364	3	23.8	407	3	24.3	593	5	25.2	788	5	25.3	836	6	25.5
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	0	0	.	4	0	21.5
Two or more races	139	1	23.9	173	1	23.5	275	2	24.5	302	2	24.3	302	2	25.0
Prefer not to respond/No response	3,098	29	24.2	2,461	20	24.4	1,374	10	24.5	1,198	8	24.5	1,102	7	24.5

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

Total Students in Report: 14,975

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



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: 14,975

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	100	100	159	100	202	100	85	100	10	100	36
35	458	99	242	99	301	99	118	99	99	100	35
34	360	96	457	97	511	97	88	99	182	99	34
33	469	94	336	94	587	93	276	98	316	98	33
32	506	91	476	92	617	89	209	96	419	96	32
31	583	87	428	89	652	85	203	95	552	93	31
30	502	83	478	86	805	81	422	93	692	89	30
29	638	80	706	83	541	75	424	91	781	85	29
28	728	76	936	78	695	72	936	88	956	80	28
27	889	71	1,084	72	717	67	635	82	1,036	73	27
26	796	65	1,349	65	736	62	1,016	77	1,102	66	26
25	941	60	1,229	56	798	58	1,153	71	1,119	59	25
24	1,250	53	1,214	47	1,251	52	1,492	63	1,175	51	24
23	790	45	1,116	39	686	44	1,545	53	1,149	44	23
22	1,090	40	732	32	950	39	919	43	998	36	22
21	1,032	33	508	27	959	33	1,411	36	923	29	21
20	747	26	646	24	691	26	1,173	27	850	23	20
19	582	21	563	19	692	22	690	19	651	17	19
18	420	17	666	15	584	17	672	15	574	13	18
17	434	14	548	11	461	13	364	10	425	9	17
16	429	11	632	7	363	10	296	8	342	6	16
15	372	8	329	3	296	8	256	6	242	4	15
14	261	6	88	1	378	6	188	4	180	3	14
13	139	4	38	1	154	3	131	3	109	1	13
12	143	3	7	1	174	2	83	2	55	1	12
11	113	2	4	1	72	1	72	1	24	1	11
10	70	1	2	1	58	1	69	1	7	1	10
9	69	1	0	1	21	1	27	1	4	1	9
8	39	1	0	1	14	1	16	1	1	1	8
7	16	1	0	1	2	1	1	1	1	1	7
6	5	1	1	1	7	1	2	1	1	1	6
5	3	1	0	1	0	1	1	1	0	1	5
4	0	1	1	1	0	1	2	1	0	1	4
3	1	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)	24.1 (5.9)		24.6 (5.2)		24.4 (6.0)		23.2 (4.8)		24.2 (4.9)		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: 14,975

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	1,085	100	522	100	812	100	824	100	1,539	100	471	100	700	100	18
17	1,556	93	19	97	1,013	95	1,866	94	1,310	90	338	97	39	95	17
16	1,089	82	1,818	96	1,686	88	1,686	82	1,120	81	920	95	1,008	95	16
15	1,422	75	1,886	84	1,089	77	1,587	71	1,620	73	990	88	1,890	88	15
14	1,071	66	1,435	72	1,069	69	1,145	60	1,839	63	2,300	82	2,140	76	14
13	1,373	58	1,540	62	1,408	62	1,310	53	1,910	50	2,696	66	1,910	61	13
12	1,232	49	1,957	52	1,850	53	1,241	44	1,068	38	1,538	48	1,886	49	12
11	1,582	41	1,756	39	1,386	40	1,359	35	1,562	31	1,927	38	1,653	36	11
10	1,528	30	1,278	27	1,311	31	1,034	26	911	20	1,452	25	1,405	25	10
9	894	20	1,075	18	1,104	22	801	20	589	14	1,210	16	1,022	16	9
8	679	14	646	11	807	15	644	14	796	10	548	8	543	9	8
7	522	10	448	7	700	10	506	10	517	5	282	4	354	5	7
6	441	6	239	4	326	5	510	6	146	1	69	2	217	3	6
5	238	3	151	2	223	3	291	3	24	1	127	2	34	1	5
4	134	2	122	1	113	1	103	1	15	1	23	1	110	1	4
3	93	1	65	1	48	1	46	1	8	1	64	1	13	1	3
2	31	1	14	1	19	1	21	1	1	1	6	1	38	1	2
1	5	1	4	1	11	1	1	1	0	1	14	1	13	1	1
Avg (SD)	12.5 (3.6)		12.3 (3.1)		12.3 (3.5)		12.8 (3.6)		13.2 (3.2)		12.3 (2.7)		12.4 (2.9)		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)	28	28	29	26	28
Q2 (50th Percentile)	24	25	24	23	24
Q1 (25th Percentile)	20	21	20	20	21

Total Students in Report: 14,975

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	14,975	65	24.3	24.2
	Black/African American	573	54	19.6	19.2
	American Indian/Alaska Native	23	78	25.0	19.4
	White	11,460	66	24.5	24.6
	Hispanic/Latino	675	56	21.5	20.8
	Asian	836	57	25.8	25.2
	Native Hawaiian/Other Pac. Isl.	4	75	18.7	30.0
	Two or more races	302	66	24.8	25.6
	Prefer not/No Response	1,102	65	24.5	24.9
National	All Students	1,623,112	74	21.9	19.0
	Black/African American	223,383	69	17.5	15.9
	American Indian/Alaska Native	14,970	63	19.7	17.1
	White	981,585	76	23.1	20.3
	Hispanic/Latino	200,661	72	19.4	17.2
	Asian	66,650	81	24.1	21.9
	Native Hawaiian/Other Pac. Isl.	2,244	78	20.0	17.8
	Two or more races	46,378	72	21.8	19.3
	Prefer not/No Response	87,241	65	22.1	18.7

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	24.1	24.6	24.4	23.2	24.2
	Black/African American	18.8	19.8	19.7	18.6	19.4
	American Indian/Alaska Native	23.0	24.1	24.1	23.3	23.8
	White	24.5	24.8	24.8	23.5	24.5
	Hispanic/Latino	20.6	21.5	21.5	20.6	21.1
	Asian	24.7	27.7	24.6	24.7	25.5
	Native Hawaiian/Other Pac. Isl.	21.3	21.3	21.8	21.5	21.5
	Two or more races	25.1	25.2	25.4	24.0	25.0
	Prefer not/No Response	24.4	25.1	24.6	23.3	24.5
National	All Students	20.6	21.1	21.3	20.9	21.1
	Black/African American	15.9	17.2	17.0	17.1	17.0
	American Indian/Alaska Native	17.5	18.6	19.1	18.9	18.6
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.6	19.2	18.9	18.8	18.7
	Asian	22.8	25.1	22.9	23.1	23.6
	Native Hawaiian/Other Pac. Isl.	18.6	19.9	19.4	19.5	19.5
	Two or more races	20.7	20.7	21.6	20.9	21.1
	Prefer not/No Response	20.2	20.9	21.0	20.4	20.7

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

Total Students in Report: 14,975

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	1,387	9	1,194	8	1,601	11	567	4
	28 to 32	2,957	20	3,024	20	3,310	22	2,194	15
	24 to 27	3,876	26	4,876	33	3,502	23	4,296	29
	20 to 23	3,659	24	3,002	20	3,286	22	5,048	34
	16 to 19	1,865	12	2,409	16	2,100	14	2,022	14
	13 to 15	772	5	455	3	828	6	575	4
	01 to 12	459	3	15	0	348	2	273	2
National	33 to 36	68,159	4	49,703	3	81,236	5	32,031	2
	28 to 32	174,801	11	144,331	9	211,084	13	130,969	8
	24 to 27	286,161	18	344,894	21	265,974	16	316,182	19
	20 to 23	394,076	24	332,913	21	382,505	24	530,056	33
	16 to 19	309,855	19	525,628	32	360,259	22	366,855	23
	13 to 15	201,235	12	217,338	13	214,265	13	153,754	9
	01 to 12	188,825	12	8,305	1	107,789	7	93,265	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	6,560	44	23.9	25.5	24.4	23.9	24.5
	Females	8,413	56	24.3	24.0	24.5	22.7	24.0
	Missing	2	0	20.5	22.5	21.0	21.0	21.5
National	Males	739,070	46	20.2	21.6	21.1	21.4	21.2
	Females	879,957	54	20.9	20.6	21.4	20.5	21.0
	Missing	4,085	0	16.4	17.8	17.7	17.8	17.6

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	85	78	73	52	48
	Females	87	69	74	43	40
National	Males	64	49	51	34	28
	Females	69	41	53	26	22

Total Students in Report: 14,975

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	9,685	87	24.2	74	24.6	75	24.5	47	23.3	43	24.3
	Less than Core	5,076	85	24.1	73	24.7	72	24.4	48	23.2	44	24.2
	Missing ³	214	75	21.5	59	22.8	54	21.6	34	21.2	27	21.9
National	Core or More	1,202,164	72	21.5	51	21.8	57	22.0	34	21.6	29	21.9
	Less than Core	366,518	51	18.3	27	19.0	38	19.3	17	19.0	13	19.0
	Missing	54,430	38	16.3	21	18.0	27	17.7	12	17.7	9	17.5

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	14,577	86	24.2	14,628	74	24.7	10,122	74	24.4	14,203	48	23.3
	Less than Core	197	74	21.5	143	34	19.5	4,648	74	24.6	569	28	20.7
	Missing ³	201	76	21.6	204	59	22.7	205	55	21.7	203	33	21.2
National	Core or More	1,510,179	68	20.9	1,494,425	47	21.4	1,424,252	54	21.6	1,367,777	33	21.4
	Less than Core	66,225	40	16.6	79,145	8	16.4	149,746	40	19.7	205,148	12	18.3
	Missing	46,708	39	16.5	49,542	21	18.1	49,114	28	17.9	50,187	13	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.

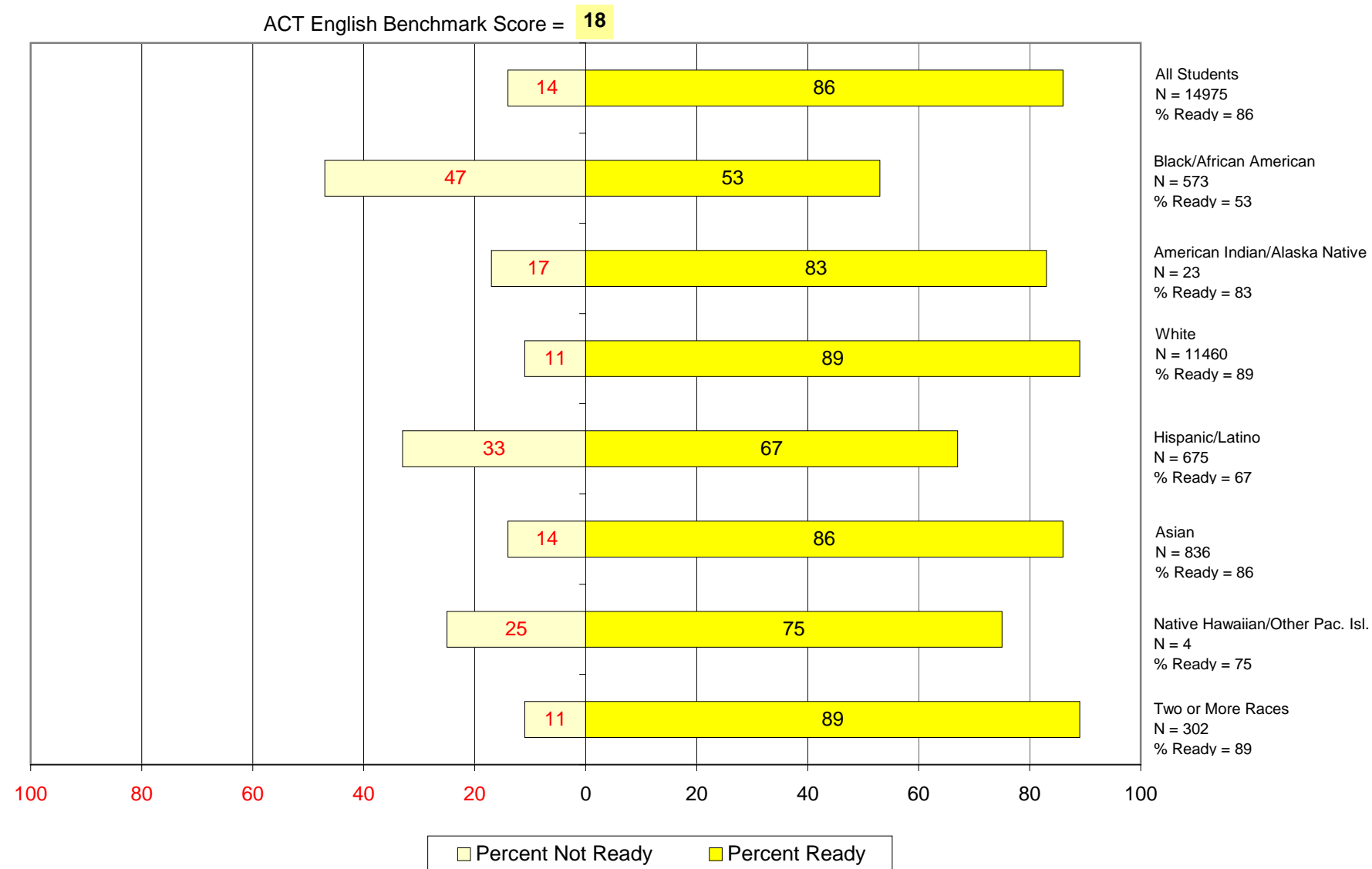
Section III

College Readiness and the Impact of Course Rigor

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: 14,975

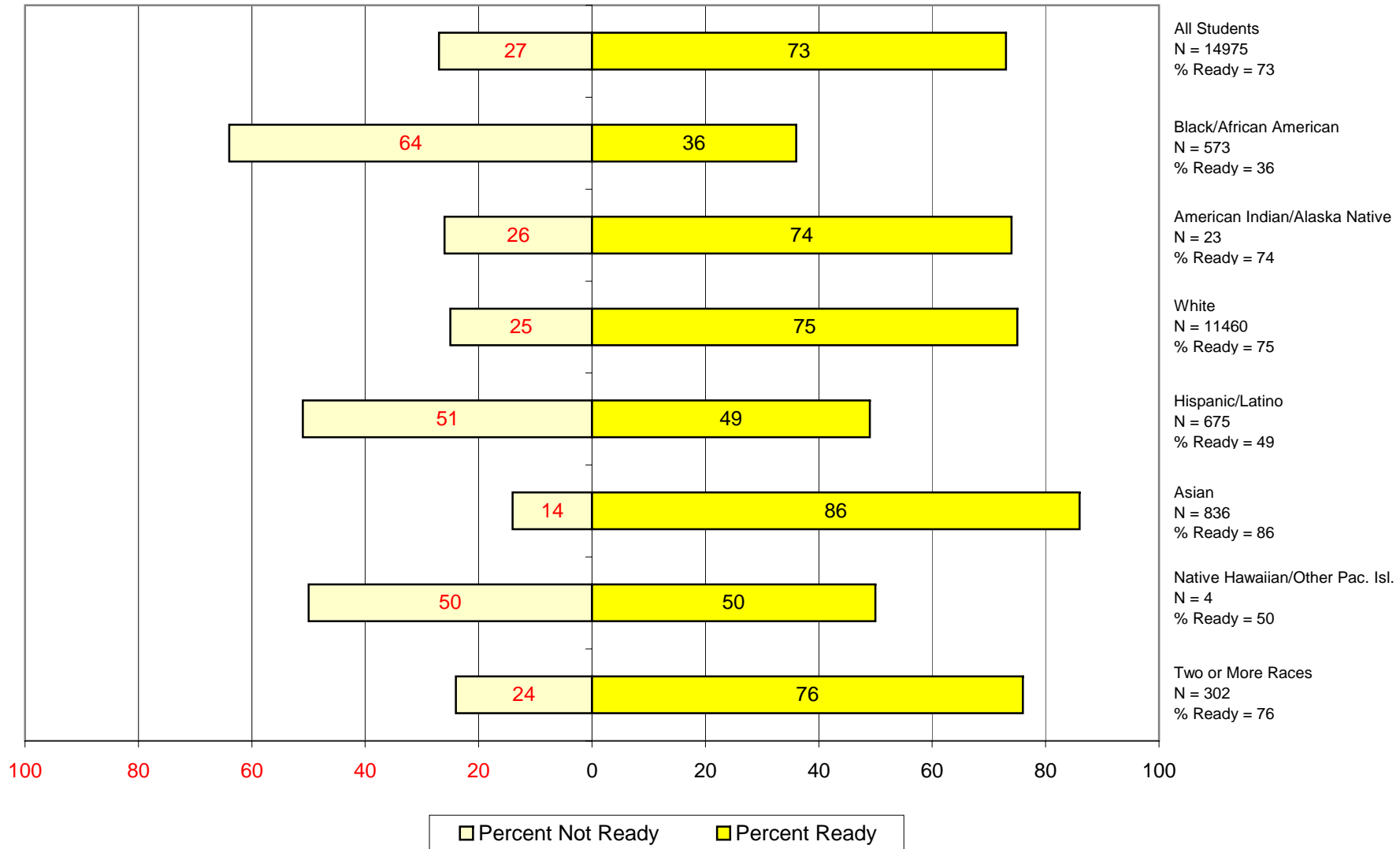
Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ENGLISH



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

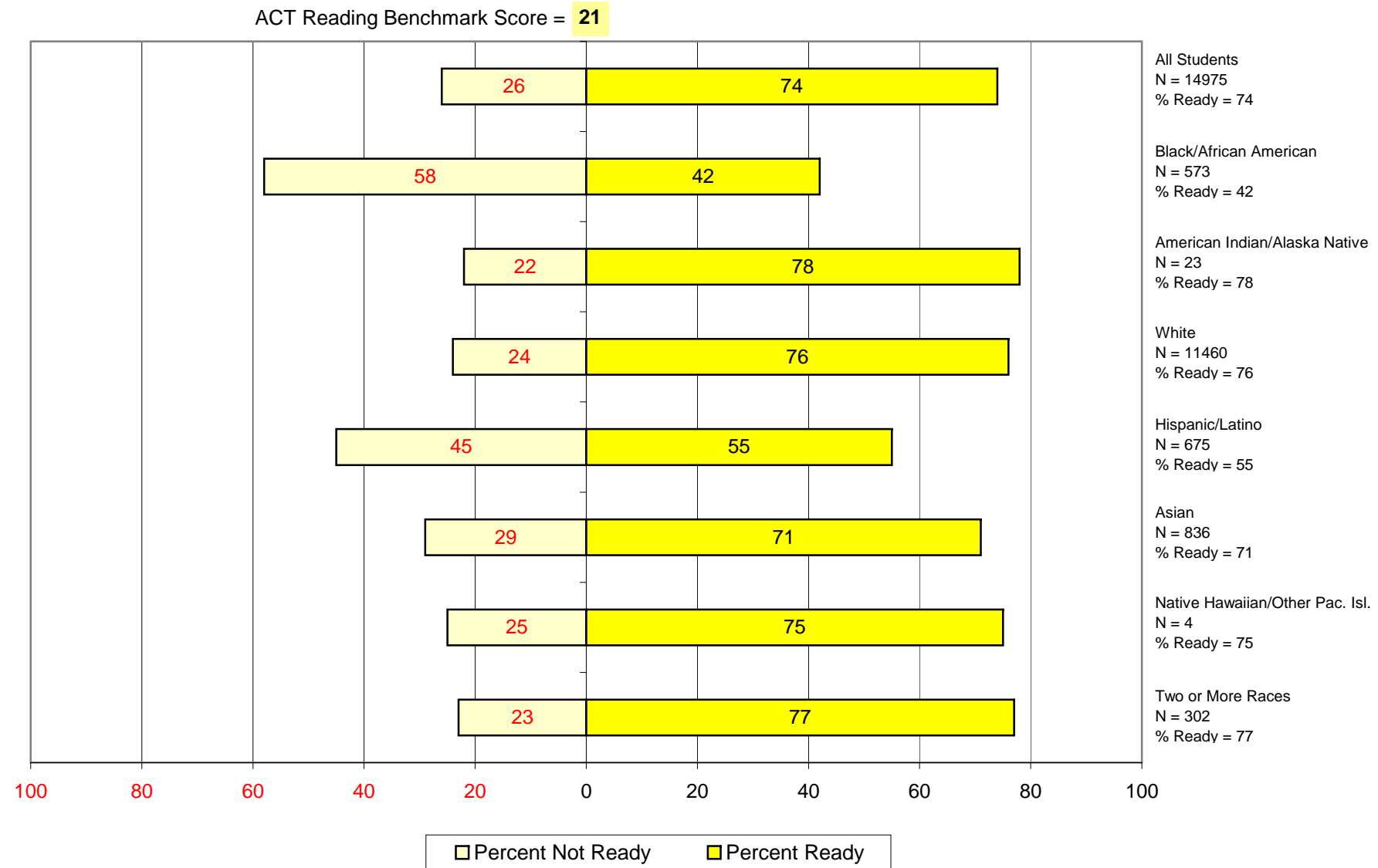
ACT Mathematics Benchmark Score = **22**



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

Total Students in Report: 14,975

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

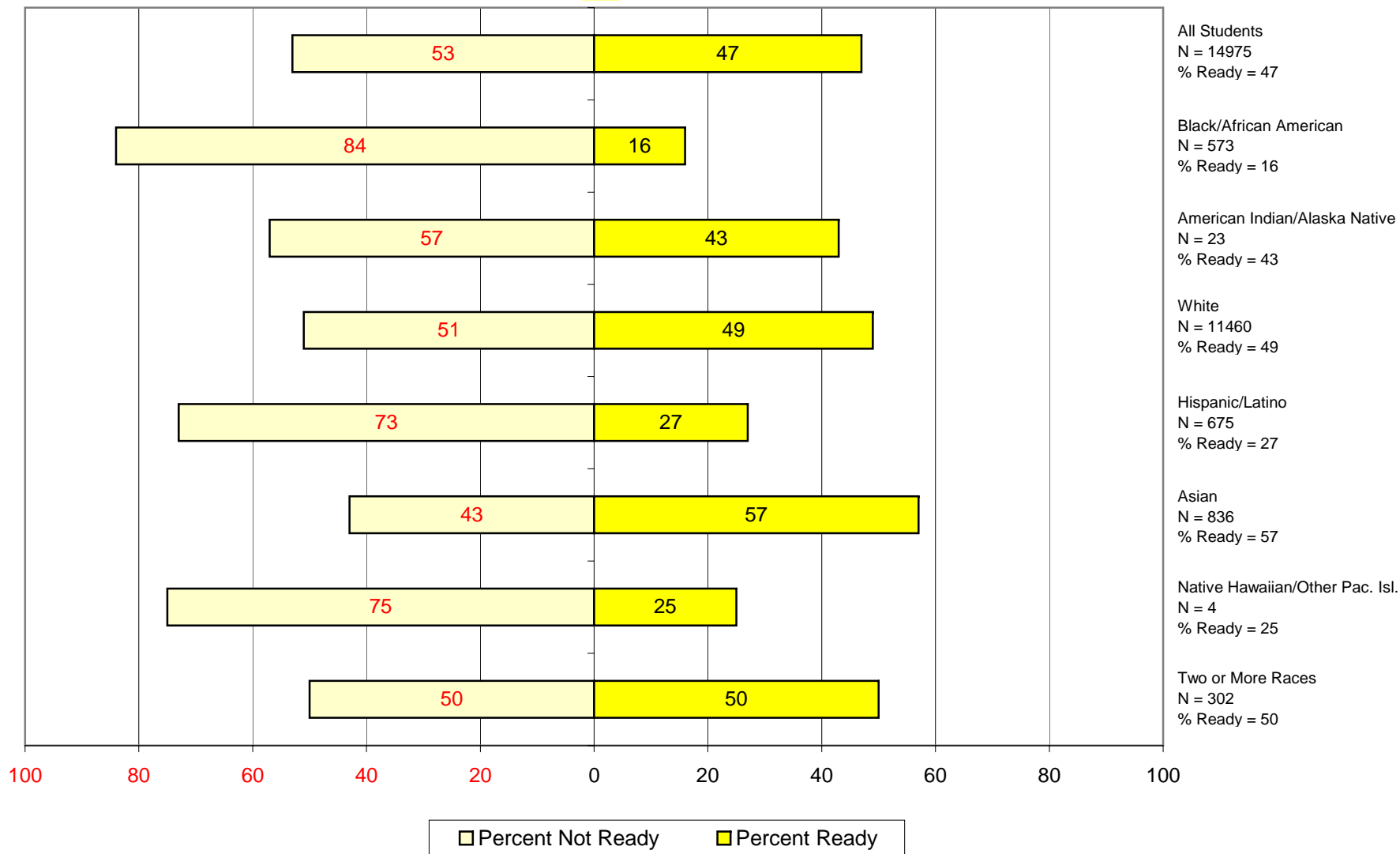


¹Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 14,975

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

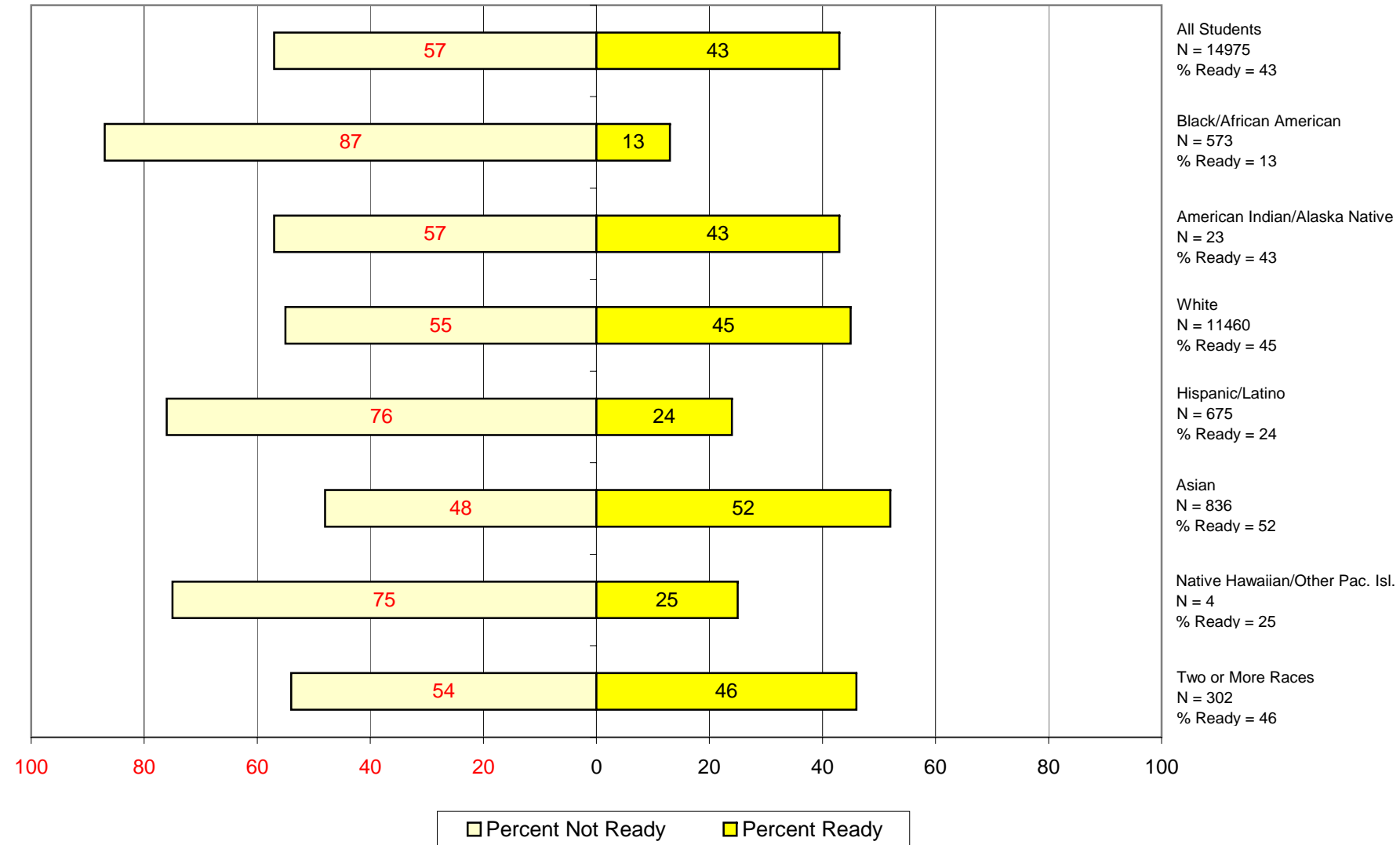
ACT Science Benchmark Score = **24**



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

Total Students in Report: 14,975

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: 14,975

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	4,142	28	24.2	2.7	1,691	26	23.7	2.1	2,451	29	24.5	3.0
Eng 9, Eng 10, Eng 11, Eng 12	10,435	70	24.2	2.7	4,665	71	24.0	2.4	5,770	69	24.3	2.8
Less than 4 years of English	197	1	21.5	-	100	2	21.6	-	97	1	21.5	-
Zero years / no English courses reported	201	1	21.6	-	104	2	20.5	-	95	1	22.9	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,793	12	26.6	7.1	730	11	27.5	7.2	1,063	13	26.1	7.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,417	9	23.6	4.1	541	8	24.4	4.1	875	10	23.1	4.2
Alg 1, Alg 2, Geom, & Trig	690	5	21.5	2.0	281	4	22.1	1.8	409	5	21.1	2.2
Alg 1, Alg 2, Geom, & Other Adv Math	1,834	12	21.4	1.9	619	9	22.1	1.8	1,215	14	21.1	2.2
Other comb of 4 or more years of Math	7,484	50	26.1	6.6	3,635	55	26.8	6.5	3,849	46	25.5	6.6
Alg 1, Alg 2, & Geom	642	4	19.0	-0.5	266	4	19.1	-1.2	376	4	18.9	0.0
Other comb of 3 or 3.5 years of Math	768	5	23.8	4.3	315	5	24.1	3.8	453	5	23.5	4.6
Less than 3 years of Math	143	1	19.5	-	67	1	20.3	-	76	1	18.9	-
Zero years / no Math courses reported	204	1	22.7	-	106	2	22.7	-	97	1	22.7	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	765	5	25.2	0.6	378	6	24.7	0.0	387	5	25.7	1.2
Other comb of 4 or more years Social Science	4,272	29	24.0	-0.6	2,076	32	23.9	-0.8	2,196	26	24.2	-0.3
US Hist, World Hist, & Am Gov	584	4	24.7	0.1	273	4	24.7	0.0	311	4	24.7	0.2
Other comb of 3 or 3.5 years of Social Science	4,501	30	24.6	0.0	1,838	28	24.6	-0.1	2,663	32	24.6	0.1
Less than 3 years of Social Science	4,648	31	24.6	-	1,886	29	24.7	-	2,761	33	24.5	-
Zero years / no Social Science courses reported	205	1	21.7	-	109	2	20.8	-	95	1	22.6	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	9,233	62	23.7	3.0	4,258	65	24.3	3.6	4,975	59	23.1	2.4
Bio, Chem, Phys	2,466	16	24.3	3.6	1,138	17	25.1	4.4	1,327	16	23.6	2.9
Gen Sci ² , Bio, Chem	2,334	16	21.2	0.5	748	11	21.3	0.6	1,586	19	21.1	0.4
Other comb of 3 years of Natural Science	170	1	21.0	0.3	96	1	21.5	0.8	74	1	20.3	-0.4
Less than 3 years of Natural Science	569	4	20.7	-	213	3	20.7	-	356	4	20.7	-
Zero years / no Natural Science courses reported	203	1	21.2	-	107	2	21.4	-	95	1	21.0	-

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: 14,975

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	4,142	28	24.2	86	366,770	23	21.8	74
Eng 9, Eng 10, Eng 11, Eng 12	10,435	70	24.2	86	1,143,409	70	20.6	66
Less than 4 years of English	197	1	21.5	74	66,225	4	16.6	40
Zero years / no English courses reported	201	1	21.6	76	46,708	3	16.5	39
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,793	12	26.6	87	102,806	6	24.2	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,417	9	23.6	71	147,655	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	690	5	21.5	52	115,939	7	19.7	34
Alg 1, Alg 2, Geom, & Other Adv Math	1,834	12	21.4	52	271,304	17	19.9	36
Other comb of 4 or more years of Math	7,484	50	26.1	83	539,241	33	23.8	66
Alg 1, Alg 2, & Geom	642	4	19.0	26	238,527	15	17.3	12
Other comb of 3 or 3.5 years of Math	768	5	23.8	69	78,953	5	19.9	35
Less than 3 years of Math	143	1	19.5	34	79,145	5	16.4	8
Zero years / no Math courses reported	204	1	22.7	59	49,542	3	18.1	21
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	765	5	25.2	78	47,284	3	22.5	59
Other comb of 4 or more years Social Science	4,272	29	24.0	72	845,170	52	21.9	56
US Hist, World Hist, & Am Gov	584	4	24.7	74	86,167	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	4,501	30	24.6	75	445,631	27	21.1	51
Less than 3 years of Social Science	4,648	31	24.6	74	149,746	9	19.7	40
Zero years / no Social Science courses reported	205	1	21.7	55	49,114	3	17.9	28
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	9,233	62	23.7	51	686,167	42	22.1	39
Bio, Chem, Phys	2,466	16	24.3	57	160,020	10	23.1	46
Gen Sci ¹ , Bio, Chem	2,334	16	21.2	29	476,294	29	20.1	21
Other comb of 3 years of Natural Science	170	1	21.0	30	45,296	3	19.6	20
Less than 3 years of Natural Science	569	4	20.7	28	205,148	13	18.3	12
Zero years / no Natural Science courses reported	203	1	21.2	33	50,187	3	17.8	13

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: 14,975

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	62	0	22.5	0	0	.	57	0	22.4
Architecture	170	1	24.2	0	0	.	149	1	24.0
Area, Ethnic, & Multidisciplinary Studies	81	1	26.8	0	0	.	71	1	26.9
Arts: Visual & Performing	646	4	23.9	5	8	18.6	542	4	23.9
Business	2,077	14	23.4	20	34	20.5	1,761	14	23.4
Communications	428	3	23.1	1	2	21.0	379	3	23.0
Community, Family, & Personal Services	187	1	20.5	2	3	16.5	168	1	20.5
Computer Science & Mathematics	331	2	25.8	1	2	15.0	274	2	25.9
Education	699	5	21.9	2	3	17.5	619	5	21.9
Engineering	816	5	26.0	2	3	23.0	705	6	26.0
Engineering Technology & Drafting	322	2	25.6	1	2	14.0	284	2	25.5
English & Foreign Languages	309	2	26.3	0	0	.	257	2	26.4
Health Administration & Assisting	107	1	21.1	0	0	.	96	1	21.5
Health Sciences & Technologies	2,060	14	23.2	6	10	19.2	1,846	15	23.3
Philosophy, Religion, & Theology	47	0	23.6	1	2	15.0	35	0	23.9
Repair, Production, & Construction	21	0	19.6	1	2	16.0	15	0	19.8
Sciences: Biological & Physical	1,572	10	25.9	0	0	.	1,401	11	25.9
Social Sciences & Law	1,423	10	24.1	4	7	21.3	1,230	10	24.0
Undecided	3,360	22	24.9	11	19	19.1	2,483	20	24.7
No Response	257	2	22.1	2	3	16.5	108	1	22.0

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: 14,975

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	20	22.0	0	.	0	.	15	21.3	0	.
2-yr College Degree	39	18.0	3	17.3	0	.	27	18.3	4	17.0
Bachelors Degree	4,616	22.2	154	17.3	7	22.0	3,820	22.6	183	18.2
Graduate Study	4,145	24.9	98	20.8	5	23.8	3,377	25.1	157	22.9
Prof. Level Degree	3,719	25.8	188	21.1	7	25.4	2,559	26.2	190	23.0
Other	174	23.2	7	15.9	0	.	119	23.7	9	22.9
No Response	2,262	24.6	123	18.4	4	24.0	1,543	25.2	132	20.4

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	20	22.0	4	24.8	0	.	0	.	1	21.0
2-yr College Degree	39	18.0	2	16.5	0	.	1	16.0	2	19.5
Bachelors Degree	4,616	22.2	143	22.8	1	20.0	77	21.8	231	21.8
Graduate Study	4,145	24.9	161	25.9	3	22.0	78	25.2	266	24.6
Prof. Level Degree	3,719	25.8	350	26.6	0	.	103	27.1	322	25.9
Other	174	23.2	17	23.2	0	.	7	23.7	15	22.9
No Response	2,262	24.6	159	25.6	0	.	36	26.3	265	25.1

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

Total Students in Report: 14,975

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
UNIV OF MASSACHUSETTS AMHERST	Massachusetts	883	240	643	0	3	13	31	33	18	1
NORTHEASTERN UNIVERSITY	Massachusetts	629	202	427	0	3	9	25	38	23	2
BOSTON UNIVERSITY	Massachusetts	518	188	330	0	2	8	22	36	28	3
BOSTON COLLEGE	Massachusetts	356	153	203	0	2	6	21	35	33	3
UNIVERSITY OF NEW HAMPSHIRE	New Hampshire	319	49	270	0	4	11	36	39	10	0
UNIVERSITY OF RHODE ISLAND	Rhode Island	274	56	218	0	3	19	38	29	10	1
WESTFIELD STATE UNIVERSITY	Massachusetts	260	70	190	1	11	34	38	15	1	0
UNIV OF MASSACHUSETTS-DARTMOUTH	Massachusetts	254	48	206	2	11	25	38	20	4	0
QUINNIPIAC UNIVERSITY	Connecticut	248	63	185	0	2	10	35	36	17	1
UNIVERSITY OF CONNECTICUT	Connecticut	248	45	203	0	2	11	24	43	19	1
BRIDGEWATER STATE COLLEGE	Massachusetts	244	64	180	1	9	30	38	20	3	0
UNIV OF MASSACHUSETTS LOWELL	Massachusetts	226	45	181	1	7	19	41	19	10	2
UNIVERSITY OF VERMONT	Vermont	201	48	153	0	0	4	29	41	24	1
SALEM STATE COLLEGE	Massachusetts	199	43	156	3	16	34	33	11	2	1
TUFTS UNIVERSITY	Massachusetts	194	63	131	0	1	8	13	24	44	10
WORCESTER STATE UNIVERSITY	Massachusetts	179	47	132	3	9	30	41	13	3	1
ROGER WILLIAMS UNIVERSITY	Rhode Island	175	53	122	0	3	15	37	34	10	1
BROWN UNIVERSITY	Rhode Island	168	59	109	0	0	3	11	27	48	11
FITCHBURG STATE UNIVERSITY	Massachusetts	155	45	110	1	10	27	41	17	2	1
WORCESTER POLYTECHNIC INST	Massachusetts	151	49	102	1	1	5	19	39	29	6
STONEHILL COLLEGE	Massachusetts	146	30	116	0	1	12	34	36	16	1
FRAMINGHAM STATE COLLEGE	Massachusetts	142	29	113	2	13	29	35	20	1	1
SUFFOLK UNIVERSITY	Massachusetts	140	30	110	1	4	19	41	27	9	0
MASSACHUSETTS COLL PHARM/HLTH SCIENCES	Massachusetts	137	45	92	1	2	26	31	30	8	1
UNIV OF MASSACHUSETTS BOSTON	Massachusetts	134	19	115	1	8	30	37	17	7	0
ENDICOTT COLLEGE	Massachusetts	131	39	92	0	5	31	38	21	5	0
BENTLEY UNIVERSITY	Massachusetts	129	45	84	0	1	9	26	42	22	1
NCAA ELIGIBILITY CENTER	Indiana	125	79	46	0	5	15	34	31	14	1
PROVIDENCE COLLEGE	Rhode Island	120	20	100	0	1	10	18	42	27	3
HARVARD COLLEGE	Massachusetts	115	49	66	0	1	6	20	23	35	16
All Other Institutions		7,678	2,033	5,645	1	4	14	25	29	23	4
Total		14,878	4,048	10,830	1	4	15	28	30	20	3

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: 14,975

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	13,226	905,035	24.5	21.5	7.9	7.1	23.7	20.8
Black/African American	504	112,251	19.2	16.7	7.2	6.3	19.2	16.5
American Indian/Alaska Native	17	5,519	22.8	18.4	7.9	6.5	22.5	18.0
White	10,087	522,234	24.9	23.2	7.9	7.3	24.0	22.2
Hispanic/Latino	586	128,599	21.1	18.4	7.5	6.8	20.8	18.2
Asian	783	51,829	25.0	23.8	8.0	7.6	24.2	22.9
Native Hawaiian/Other Pac. Isl.	4	1,332	21.3	19.7	6.8	7.2	20.3	19.5
Two or more races	262	27,722	25.7	21.6	8.0	7.0	24.6	20.8
Prefer not/No Response	983	55,549	24.9	21.3	7.8	7.0	23.9	20.5
Males	5,696	399,206	24.3	21.3	7.7	6.8	23.4	20.3
Females	7,528	503,699	24.7	21.8	8.0	7.3	23.9	21.1
Missing	2	2,130	20.5	17.6	7.5	6.2	20.5	17.1

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

