

# ACT Profile Report - State

Graduating Class 2012  
Massachusetts



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](http://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](http://www.act.org)

## How to Improve Scores and Increase College Readiness

44% 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:** 15,398 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. 64% 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, 43% were college ready. 4% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 25% of these students were college ready. In comparison, 75% 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. 25% 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 20% 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](http://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

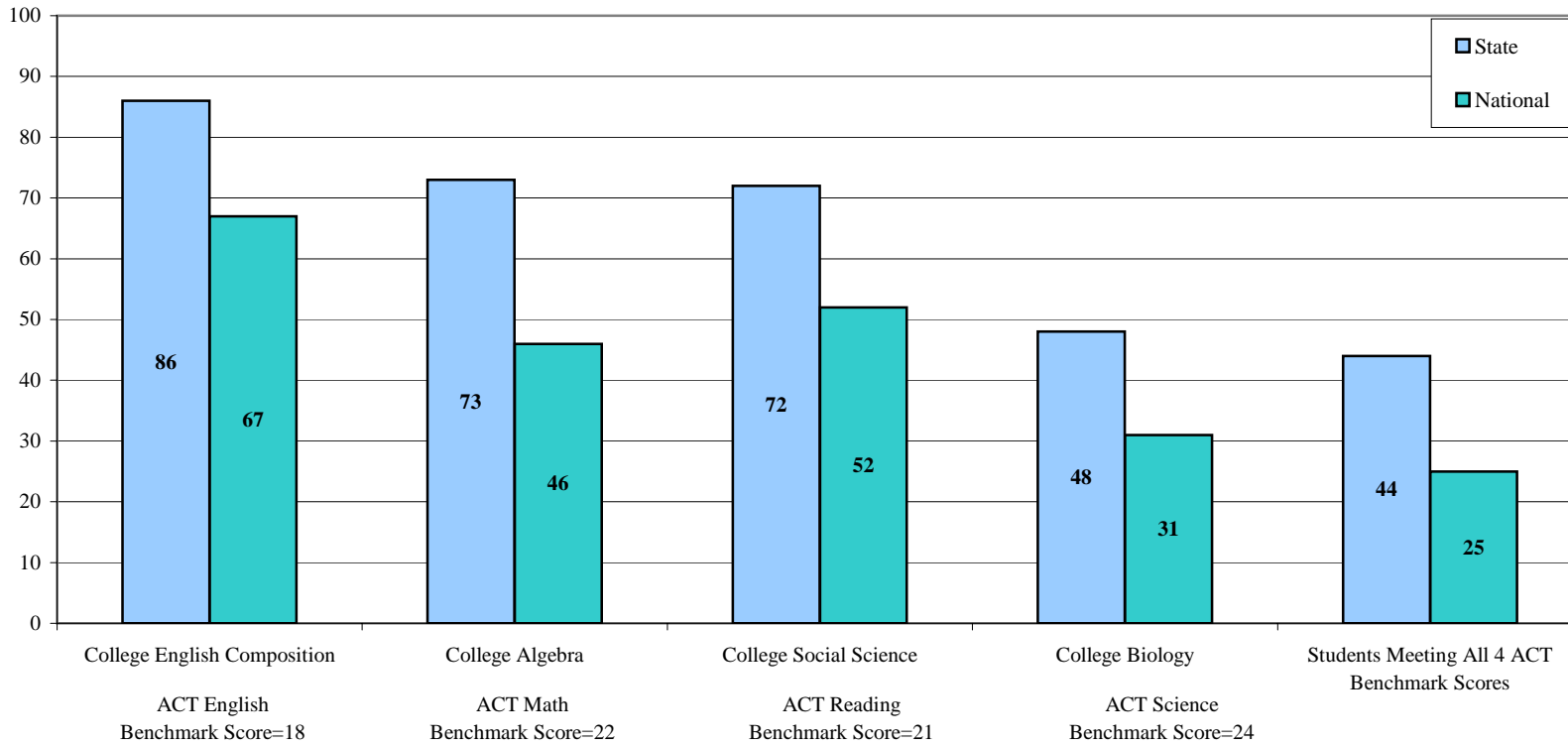
## Executive Summary

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: 15,398

**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: 15,398

**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	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
<b>2012</b>	<b>15,398</b>	<b>1,666,017</b>	<b>86</b>	<b>67</b>	<b>73</b>	<b>46</b>	<b>72</b>	<b>52</b>	<b>48</b>	<b>31</b>	<b>44</b>	<b>25</b>

**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	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
<b>2012</b>	<b>15,398</b>	<b>1,666,017</b>	<b>23.9</b>	<b>20.5</b>	<b>24.5</b>	<b>21.1</b>	<b>24.2</b>	<b>21.3</b>	<b>23.2</b>	<b>20.9</b>	<b>24.1</b>	<b>21.1</b>

**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
<b>2012</b>	<b>1,666,017</b>	<b>20.5</b>	<b>21.1</b>	<b>21.3</b>	<b>20.9</b>	<b>21.1</b>

Total Students in Report: 15,398

**Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation**

Year	Number of Students Tested		Percent <sup>2</sup>		Average ACT Scores									
	Core or More <sup>1</sup>	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
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
<b>2012</b>	<b>9,840</b>	<b>5,373</b>	<b>64</b>	<b>35</b>	<b>24.1</b>	<b>23.7</b>	<b>24.6</b>	<b>24.3</b>	<b>24.4</b>	<b>23.9</b>	<b>23.4</b>	<b>23.0</b>	<b>24.2</b>	<b>23.9</b>

<sup>1</sup>"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.

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

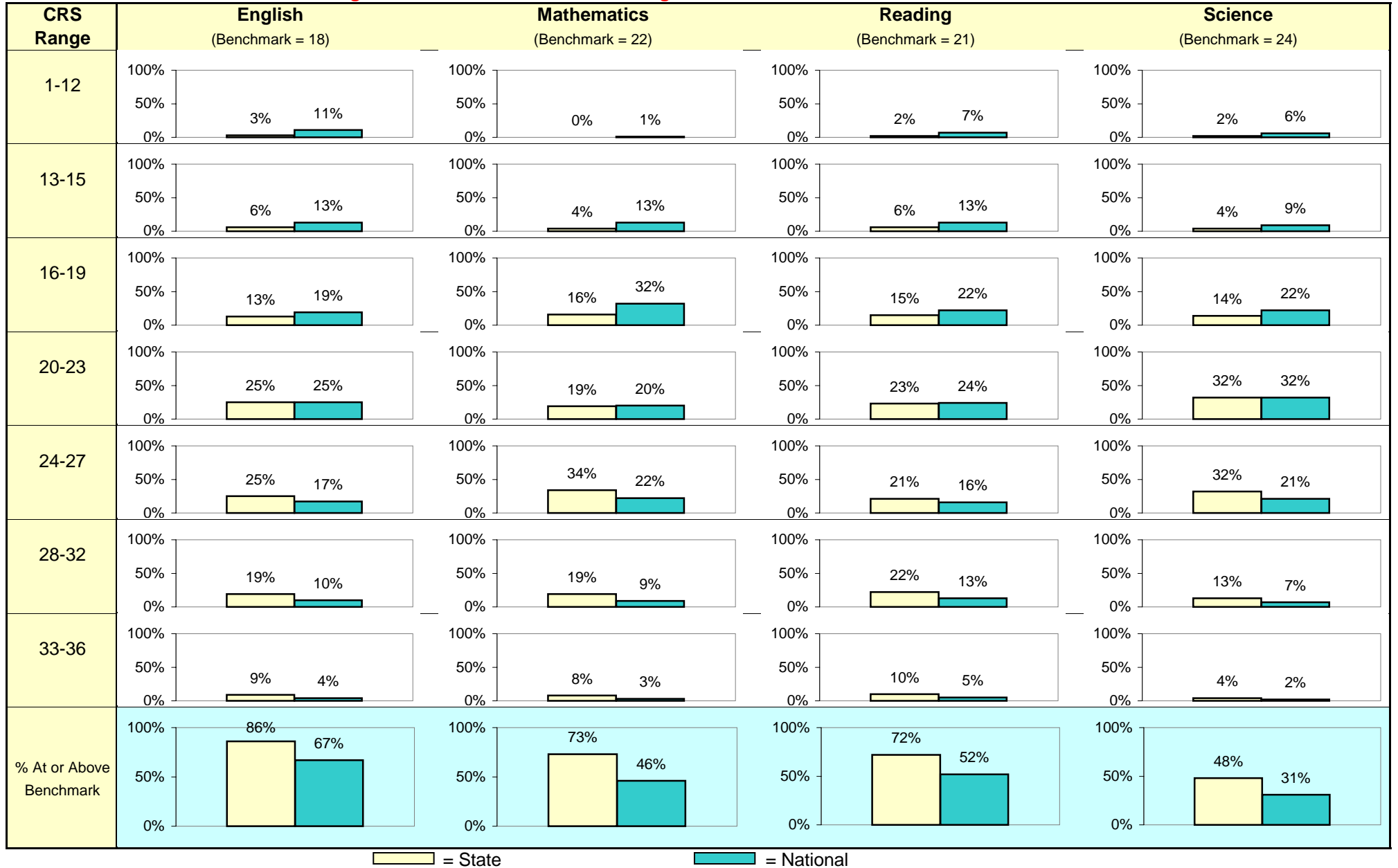
**Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity<sup>1</sup>**

	2008			2009			2010			2011			2012		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</b>	<b>12,469</b>	<b>100</b>	<b>23.6</b>	<b>13,093</b>	<b>100</b>	<b>23.9</b>	<b>14,736</b>	<b>100</b>	<b>24.0</b>	<b>14,975</b>	<b>100</b>	<b>24.2</b>	<b>15,398</b>	<b>100</b>	<b>24.1</b>
Black/African American	405	3	19.3	462	4	19.1	604	4	19.2	573	4	19.4	651	4	19.2
American Indian/Alaska Native	17	0	22.8	21	0	23.8	33	0	22.5	23	0	23.8	34	0	22.3
White	8,678	70	23.6	10,008	76	24.1	11,308	77	24.3	11,460	77	24.5	11,296	73	24.3
Hispanic/Latino	328	3	21.3	360	3	21.2	503	3	20.7	675	5	21.1	819	5	21.4
Asian	407	3	24.3	593	5	25.2	788	5	25.3	836	6	25.5	1,016	7	25.1
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	4	0	21.5	12	0	24.4
Two or more races	173	1	23.5	275	2	24.5	302	2	24.3	302	2	25.0	361	2	24.6
Prefer not to respond/No response	2,461	20	24.4	1,374	10	24.5	1,198	8	24.5	1,102	7	24.5	1,209	8	24.9

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

Total Students in Report: 15,398

**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: 15,398

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages**

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	89	100	118	100	231	100	139	100	20	100	36
35	373	99	278	99	277	98	153	99	86	100	35
34	481	97	363	97	354	97	123	98	193	99	34
33	428	94	411	95	602	94	148	97	307	98	33
32	480	91	349	92	634	90	266	96	434	96	32
31	515	88	343	90	758	86	367	95	554	93	31
30	669	85	597	88	710	81	429	92	676	90	30
29	573	80	647	84	660	77	402	89	808	85	29
28	658	77	966	80	680	73	545	87	883	80	28
27	880	72	1,164	74	764	68	1,097	83	1,045	74	27
26	940	67	1,429	66	712	63	743	76	1,085	67	26
25	898	60	1,274	57	736	59	1,394	71	1,150	60	25
24	1,204	55	1,443	48	1,089	54	1,650	62	1,214	53	24
23	905	47	1,084	39	919	47	1,309	52	1,258	45	23
22	977	41	740	32	963	41	1,375	43	1,091	37	22
21	1,131	35	397	27	998	34	1,156	34	942	30	21
20	844	27	719	25	683	28	1,043	27	839	24	20
19	641	22	607	20	676	24	711	20	662	18	19
18	506	18	654	16	741	19	673	15	571	14	18
17	400	14	615	12	536	14	417	11	449	10	17
16	431	12	636	8	360	11	300	8	365	7	16
15	422	9	405	4	432	9	262	6	305	5	15
14	279	6	94	1	264	6	191	5	195	3	14
13	159	4	53	1	244	4	154	3	125	2	13
12	151	3	7	1	176	2	111	2	90	1	12
11	108	2	3	1	95	1	94	2	34	1	11
10	110	2	0	1	54	1	82	1	11	1	10
9	65	1	0	1	28	1	33	1	4	1	9
8	47	1	0	1	10	1	10	1	2	1	8
7	20	1	1	1	7	1	12	1	0	1	7
6	6	1	0	1	5	1	5	1	0	1	6
5	3	1	0	1	0	1	1	1	0	1	5
4	4	1	0	1	0	1	0	1	0	1	4
3	1	1	0	1	0	1	1	1	0	1	3
2	0	1	0	1	0	1	1	1	0	1	2
1	0	1	1	1	0	1	1	1	0	1	1
Avg (SD)	23.9 (6.0)		24.5 (5.1)		24.2 (6.1)		23.2 (4.9)		24.1 (5.0)		Avg (SD)

<sup>1</sup>CP 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: 15,398

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), 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	1,208	100	333	100	727	100	1,054	100	1,608	100	374	100	479	100	18
17	1,195	92	470	98	1,232	95	1,440	93	1,435	90	251	98	128	97	17
16	1,616	84	1,642	95	1,406	87	1,607	84	993	80	1,026	96	1,239	96	16
15	921	74	1,361	84	1,096	78	1,241	73	1,579	74	1,166	89	1,636	88	15
14	1,642	68	1,890	75	1,351	71	1,558	65	1,640	64	2,443	82	1,909	77	14
13	825	57	1,748	63	1,625	62	1,489	55	1,956	53	2,643	66	2,113	65	13
12	1,478	52	1,860	52	1,656	52	1,281	46	1,596	40	1,731	49	2,175	51	12
11	1,507	42	1,804	40	1,218	41	1,130	37	1,378	30	1,741	37	1,687	37	11
10	1,536	33	1,169	28	1,293	33	1,184	30	942	21	1,650	26	1,396	26	10
9	1,058	23	1,366	20	1,241	25	948	22	686	15	898	15	994	17	9
8	810	16	610	11	947	17	994	16	771	10	741	10	685	11	8
7	604	10	454	7	852	10	489	10	581	5	331	5	480	6	7
6	414	6	294	4	345	5	482	6	159	2	159	3	217	3	6
5	239	4	177	3	195	3	312	3	48	1	134	2	52	2	5
4	196	2	145	1	115	1	110	1	13	1	41	1	139	1	4
3	102	1	56	1	58	1	61	1	11	1	42	1	5	1	3
2	43	1	18	1	21	1	16	1	1	1	0	1	47	1	2
1	4	1	1	1	20	1	2	1	1	1	27	1	17	1	1
Avg (SD)	12.4 (3.7)		12.2 (3.1)		12.2 (3.5)		12.6 (3.6)		13.2 (3.2)		12.2 (2.8)		12.2 (2.9)		Avg (SD)

<sup>1</sup>CP 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: 15,398

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity<sup>1</sup> by Level of Preparation**

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More <sup>2</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	<b>All Students</b>	<b>15,398</b>	<b>64</b>	<b>24.2</b>	<b>23.9</b>
	Black/African American	651	54	19.5	18.9
	American Indian/Alaska Native	34	65	22.8	21.3
	White	11,296	66	24.3	24.4
	Hispanic/Latino	819	56	22.4	20.2
	Asian	1,016	55	25.5	24.6
	Native Hawaiian/Other Pac. Isl.	12	58	22.6	27.0
	Two or more races	361	60	24.8	24.1
	Prefer not/No Response	1,209	67	25.3	24.2
National	<b>All Students</b>	<b>1,666,017</b>	<b>76</b>	<b>21.8</b>	<b>19.1</b>
	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

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

<sup>2</sup>"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<sup>1</sup>**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	<b>All Students</b>	23.9	24.5	24.2	23.2	24.1
	Black/African American	18.4	20.0	19.2	18.7	19.2
	American Indian/Alaska Native	22.4	22.4	22.3	21.1	22.3
	White	24.3	24.6	24.5	23.5	24.3
	Hispanic/Latino	20.9	21.9	21.6	20.9	21.4
	Asian	24.2	27.2	24.1	24.3	25.1
	Native Hawaiian/Other Pac. Isl.	24.4	25.0	24.1	23.0	24.4
	Two or more races	24.5	24.5	25.0	23.6	24.6
	Prefer not/No Response	25.0	25.2	25.0	23.9	24.9
National	<b>All Students</b>	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

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



Total Students in Report: 15,398

**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	1,371	9	1,170	8	1,464	10	563	4
	28 to 32	2,895	19	2,902	19	3,442	22	2,009	13
	24 to 27	3,922	25	5,310	34	3,301	21	4,884	32
	20 to 23	3,857	25	2,940	19	3,563	23	4,883	32
	16 to 19	1,978	13	2,512	16	2,313	15	2,101	14
	13 to 15	860	6	552	4	940	6	607	4
	01 to 12	515	3	12	0	375	2	351	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	6,723	44	23.5	25.2	24.1	23.9	24.3
	Females	8,675	56	24.3	23.9	24.3	22.7	23.9
	Missing	0	0	.	.	.	.	.
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	84	77	71	54	48
	Females	87	70	73	44	40
National	Males	64	50	51	35	29
	Females	69	42	53	27	22

Total Students in Report: 15,398

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

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>4</sup>	Avg
State	Core or More <sup>2</sup>	9,840	87	24.1	74	24.6	73	24.4	49	23.4	45	24.2
	Less than Core	5,373	83	23.7	71	24.3	70	23.9	47	23.0	43	23.9
	Missing <sup>3</sup>	185	75	21.8	61	22.7	58	22.3	30	21.4	28	22.2
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

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.

<sup>2</sup> "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.

<sup>3</sup> Zero years or no coursework information reported in one or more content areas.

<sup>4</sup> 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 <sup>1</sup>	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More <sup>2</sup>	15,024	86	24.0	15,083	73	24.5	10,303	73	24.2	14,612	50	23.4
	Less than Core	201	71	21.6	138	43	21.1	4,918	71	24.1	608	25	19.9
	Missing <sup>3</sup>	173	77	22.1	177	62	22.9	177	58	22.4	178	30	21.5
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

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.

<sup>2</sup> "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.

<sup>3</sup> Zero years or no coursework information reported in the specified content area.

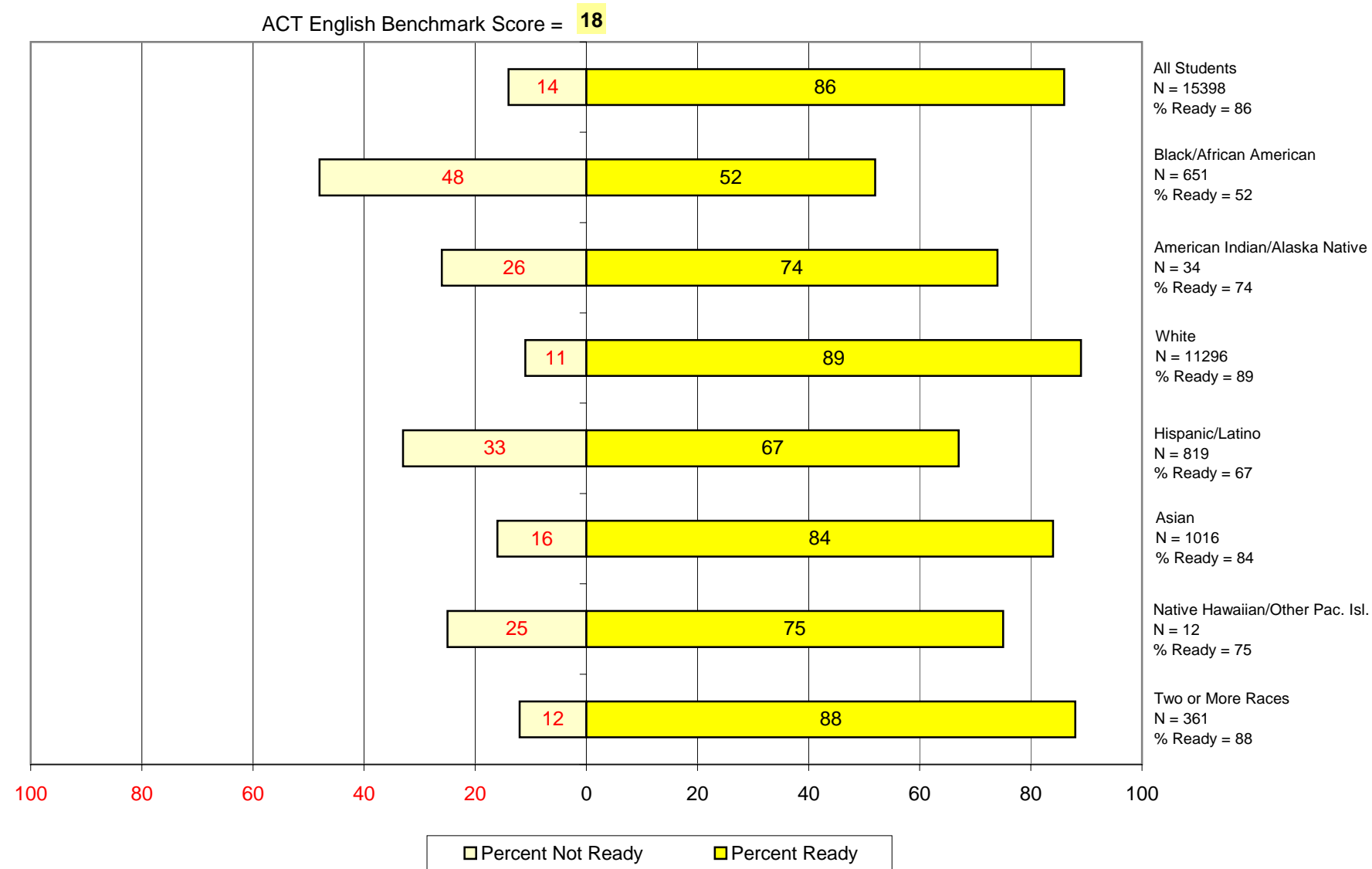
# Section III

## 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: 15,398

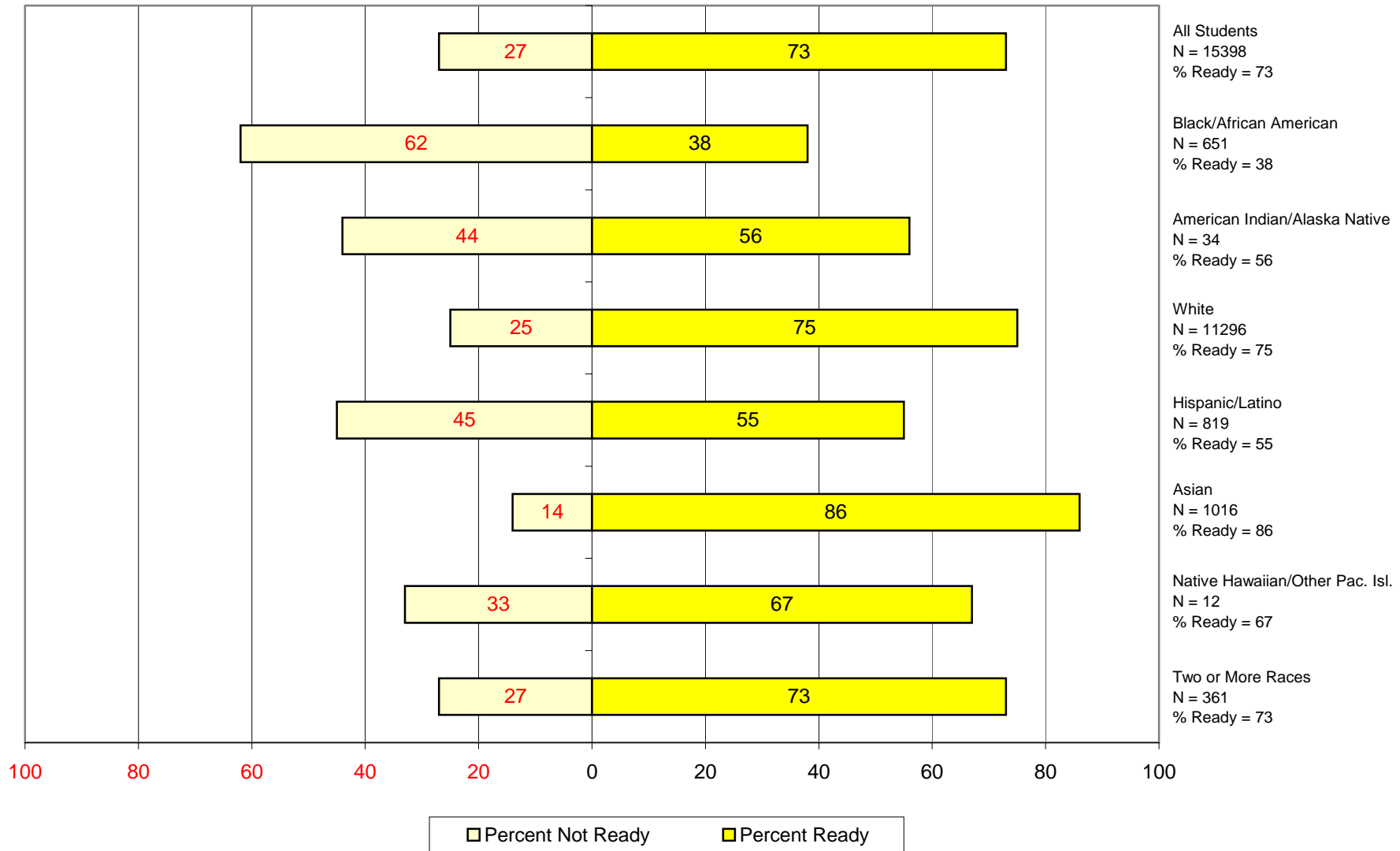
**Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ENGLISH**



<sup>1</sup>Refer 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/Ethnicity<sup>1</sup>: MATHEMATICS**

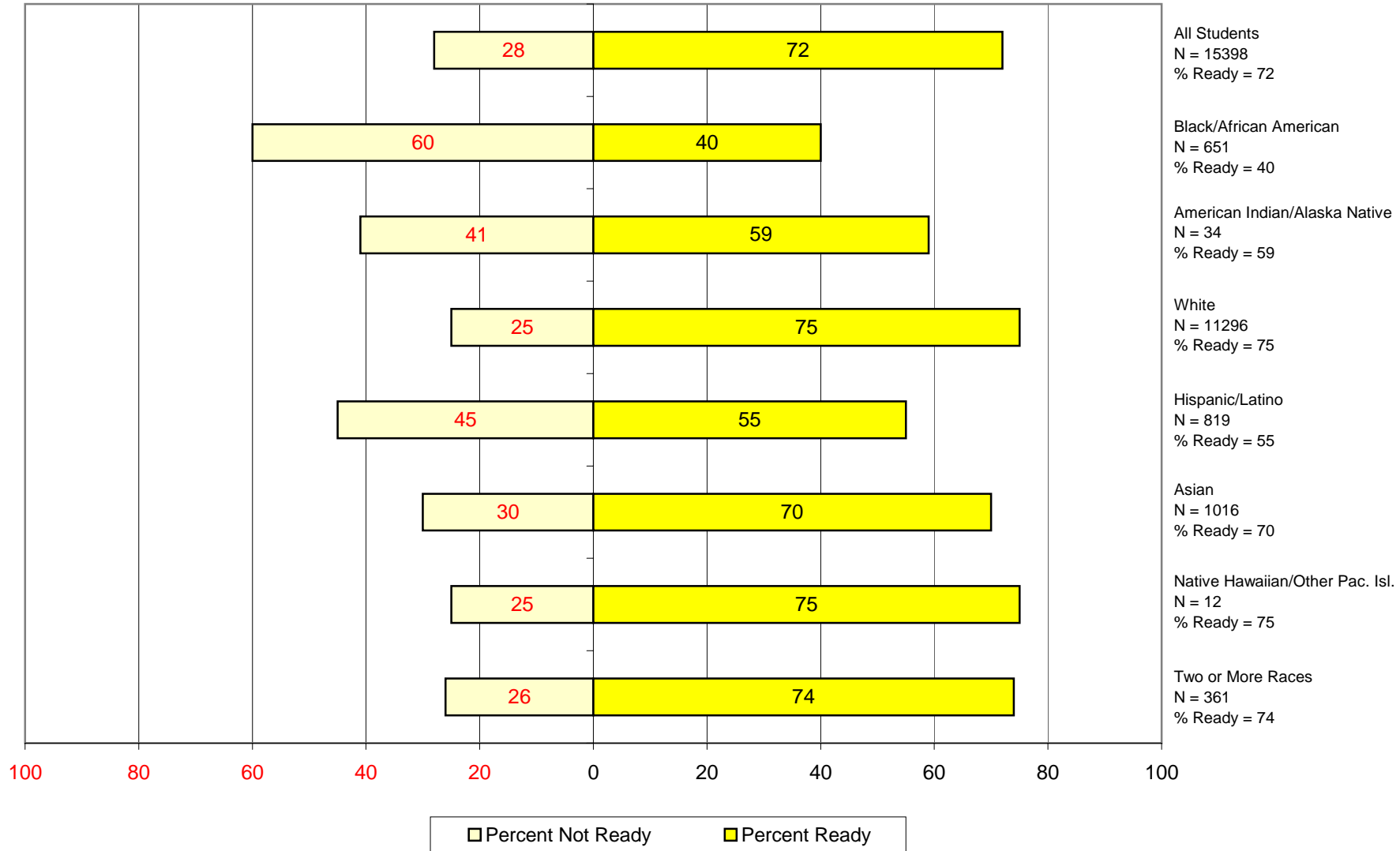
ACT Mathematics Benchmark Score = **22**



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

**Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: READING**

ACT Reading Benchmark Score = 21

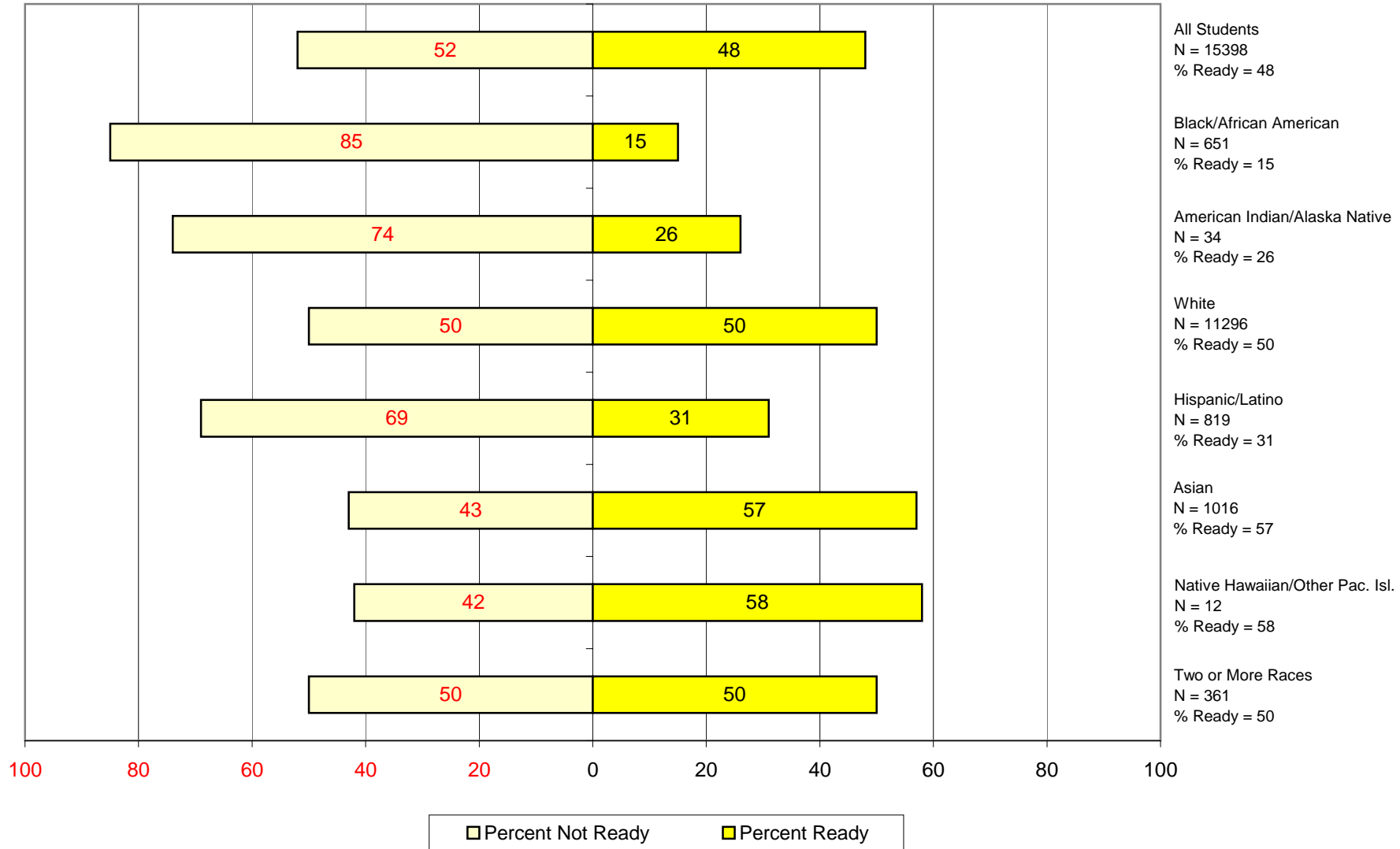


<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 15,398

**Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: SCIENCE**

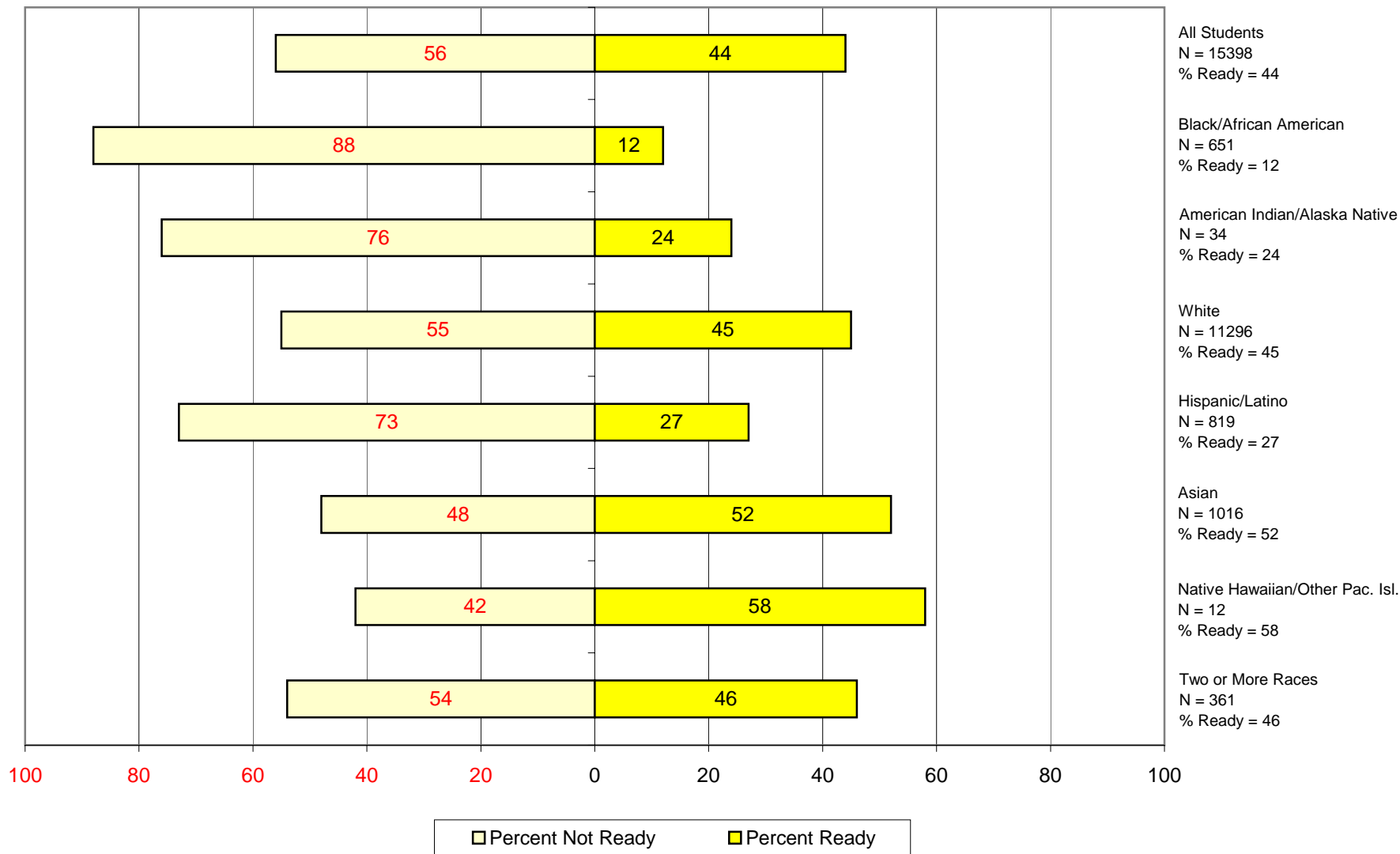
ACT Science Benchmark Score = **24**



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

Total Students in Report: 15,398

**Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ALL FOUR**



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



Total Students in Report: 15,398

**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 <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>
<b>ENGLISH COURSE PATTERN</b>												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	4,260	28	24.4	2.8	1,683	25	23.9	2.7	2,577	30	24.7	2.7
Eng 9, Eng 10, Eng 11, Eng 12	10,764	70	23.8	2.2	4,852	72	23.4	2.2	5,912	68	24.1	2.1
Less than 4 years of English	201	1	21.6	-	96	1	21.2	-	105	1	22.0	-
Zero years / no English courses reported	173	1	22.1	-	92	1	21.1	-	81	1	23.1	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	1,905	12	26.4	5.3	780	12	27.2	5.8	1,125	13	25.8	5.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,260	8	23.1	2.0	505	8	23.5	2.1	755	9	22.9	2.1
Alg 1, Alg 2, Geom, & Trig	783	5	21.2	0.1	315	5	21.5	0.1	468	5	21.0	0.2
Alg 1, Alg 2, Geom, & Other Adv Math	1,881	12	21.1	0.0	622	9	21.3	-0.1	1,259	15	20.9	0.1
Other comb of 4 or more years of Math	7,802	51	26.0	4.9	3,749	56	26.6	5.2	4,053	47	25.4	4.6
Alg 1, Alg 2, & Geom	598	4	18.9	-2.2	236	4	19.1	-2.3	362	4	18.7	-2.1
Other comb of 3 or 3.5 years of Math	854	6	23.5	2.4	360	5	24.2	2.8	494	6	23.0	2.2
Less than 3 years of Math	138	1	21.1	-	63	1	21.4	-	75	1	20.8	-
Zero years / no Math courses reported	177	1	22.9	-	93	1	23.3	-	84	1	22.6	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	762	5	24.7	0.6	374	6	24.2	0.1	388	4	25.2	1.0
Other comb of 4 or more years Social Science	4,407	29	24.0	-0.1	2,168	32	23.9	-0.2	2,239	26	24.2	0.0
US Hist, World Hist, & Am Gov	571	4	24.2	0.1	281	4	23.9	-0.2	290	3	24.4	0.2
Other comb of 3 or 3.5 years of Social Science	4,563	30	24.3	0.2	1,862	28	24.4	0.3	2,701	31	24.3	0.1
Less than 3 years of Social Science	4,918	32	24.1	-	1,944	29	24.1	-	2,974	34	24.2	-
Zero years / no Social Science courses reported	177	1	22.4	-	94	1	21.7	-	83	1	23.3	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	9,575	62	23.7	3.8	4,379	65	24.3	4.4	5,196	60	23.2	3.3
Bio, Chem, Phys	2,668	17	24.2	4.3	1,213	18	25.0	5.1	1,455	17	23.5	3.6
Gen Sci <sup>2</sup> , Bio, Chem	2,206	14	21.1	1.2	731	11	21.2	1.3	1,475	17	21.1	1.2
Other comb of 3 years of Natural Science	163	1	21.6	1.7	73	1	22.8	2.9	90	1	20.7	0.8
Less than 3 years of Natural Science	608	4	19.9	-	230	3	19.9	-	378	4	19.9	-
Zero years / no Natural Science courses reported	178	1	21.5	-	97	1	21.5	-	81	1	21.6	-

<sup>1</sup>Course 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.

<sup>2</sup>Includes General, Physical and Earth Sciences.

Total Students in Report: 15,398

**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
<b>ENGLISH COURSE PATTERN</b>								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	4,260	28	24.4	87	380,162	23	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	10,764	70	23.8	85	1,178,400	71	20.5	67
Less than 4 years of English	201	1	21.6	71	64,748	4	16.5	41
Zero years / no English courses reported	173	1	22.1	77	42,707	3	16.5	40
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	1,905	12	26.4	87	108,668	7	24.0	69
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,260	8	23.1	69	151,050	9	22.0	58
Alg 1, Alg 2, Geom, & Trig	783	5	21.2	48	115,739	7	19.6	34
Alg 1, Alg 2, Geom, & Other Adv Math	1,881	12	21.1	49	279,658	17	19.9	36
Other comb of 4 or more years of Math	7,802	51	26.0	83	585,086	35	23.6	66
Alg 1, Alg 2, & Geom	598	4	18.9	25	228,058	14	17.3	12
Other comb of 3 or 3.5 years of Math	854	6	23.5	69	82,509	5	19.9	35
Less than 3 years of Math	138	1	21.1	43	69,741	4	16.6	8
Zero years / no Math courses reported	177	1	22.9	62	45,508	3	18.2	22
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	762	5	24.7	76	47,179	3	22.3	59
Other comb of 4 or more years Social Science	4,407	29	24.0	71	887,744	53	21.9	56
US Hist, World Hist, & Am Gov	571	4	24.2	72	84,563	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	4,563	30	24.3	74	452,172	27	21.2	51
Less than 3 years of Social Science	4,918	32	24.1	71	149,266	9	19.7	40
Zero years / no Social Science courses reported	177	1	22.4	58	45,093	3	17.8	29
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	9,575	62	23.7	52	740,499	44	21.9	39
Bio, Chem, Phys	2,668	17	24.2	57	171,734	10	23.0	47
Gen Sci <sup>1</sup> , Bio, Chem	2,206	14	21.1	30	466,992	28	20.0	22
Other comb of 3 years of Natural Science	163	1	21.6	33	45,992	3	19.5	20
Less than 3 years of Natural Science	608	4	19.9	25	194,661	12	18.4	13
Zero years / no Natural Science courses reported	178	1	21.5	30	46,139	3	17.9	14

<sup>1</sup>Includes 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: 15,398

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

Planned Educational Major <sup>1</sup>	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N <sup>2</sup>	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp
Agriculture & Natural Resources Conservation	70	0	22.6	1	2	20.0	56	0	22.7
Architecture	155	1	23.8	0	0	.	131	1	23.9
Area, Ethnic, & Multidisciplinary Studies	43	0	26.4	0	0	.	39	0	26.2
Arts: Visual & Performing	654	4	23.1	4	8	19.3	529	4	23.0
Business	2,013	13	23.3	14	27	21.5	1,669	13	23.2
Communications	501	3	22.6	1	2	17.0	410	3	22.5
Community, Family, & Personal Services	124	1	20.3	3	6	18.0	113	1	20.4
Computer Science & Mathematics	330	2	25.5	3	6	19.0	270	2	25.4
Education	672	4	21.7	0	0	.	589	5	21.6
Engineering	1,141	7	25.6	0	0	.	980	8	25.6
Engineering Technology & Drafting	85	1	21.3	0	0	.	66	1	21.4
English & Foreign Languages	358	2	26.1	1	2	15.0	301	2	26.2
Health Administration & Assisting	141	1	20.1	2	4	17.5	108	1	20.4
Health Sciences & Technologies	2,054	13	23.3	4	8	20.3	1,802	15	23.3
Philosophy, Religion, & Theology	38	0	24.6	0	0	.	30	0	24.6
Repair, Production, & Construction	11	0	18.8	1	2	21.0	9	0	18.6
Sciences: Biological & Physical	1,579	10	25.8	1	2	18.0	1,375	11	25.7
Social Sciences & Law	1,471	10	24.1	3	6	20.7	1,249	10	24.0
Undecided	3,756	24	24.7	11	21	20.4	2,579	21	24.6
No Response	202	1	22.5	3	6	14.0	98	1	22.1

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

<sup>2</sup>2-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.

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

Total Students in Report: 15,398

**Table 4.2. Average ACT Composite Scores for Racial/Ethnic<sup>1</sup> 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	29	21.0	2	25.0	0	.	18	20.9	1	15.0
2-yr College Degree	23	18.0	0	.	0	.	17	18.1	3	17.7
Bachelors Degree	5,148	22.2	197	17.7	15	21.0	4,101	22.5	261	19.9
Graduate Study	4,104	24.9	107	19.4	5	26.2	3,212	25.1	155	23.4
Prof. Level Degree	3,151	25.8	216	20.8	8	25.0	2,010	26.2	210	23.4
Other	168	23.0	13	16.8	0	.	113	24.1	4	23.3
No Response	2,775	24.5	116	18.9	6	18.7	1,825	25.1	185	19.8

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	29	21.0	7	20.9	0	.	1	23.0	0	.
2-yr College Degree	23	18.0	0	.	1	15.0	1	18.0	1	21.0
Bachelors Degree	5,148	22.2	194	22.3	3	17.7	104	22.3	273	22.4
Graduate Study	4,104	24.9	234	25.7	2	28.5	93	25.6	296	25.1
Prof. Level Degree	3,151	25.8	336	26.7	5	27.8	89	26.0	277	27.1
Other	168	23.0	16	21.6	0	.	6	21.5	16	22.0
No Response	2,775	24.5	229	24.7	1	29.0	67	25.2	346	25.1

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

Total Students in Report: 15,398

**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	874	226	648	0	4	11	31	34	18	2
NORTHEASTERN UNIVERSITY	Massachusetts	598	176	422	0	2	8	26	40	23	2
BOSTON UNIVERSITY	Massachusetts	535	224	311	0	2	10	28	36	20	3
BOSTON COLLEGE	Massachusetts	358	159	199	0	2	7	15	43	28	4
UNIVERSITY OF NEW HAMPSHIRE	New Hampshire	272	53	219	1	3	17	39	27	13	1
UNIVERSITY OF CONNECTICUT	Connecticut	260	37	223	0	3	7	28	47	14	2
UNIVERSITY OF RHODE ISLAND	Rhode Island	255	50	205	1	4	17	40	29	10	0
UNIV OF MASSACHUSETTS-DARTMOUTH	Massachusetts	226	54	172	2	10	25	38	20	5	0
BRIDGEWATER STATE COLLEGE	Massachusetts	224	66	158	2	10	35	39	10	4	0
UNIV OF MASSACHUSETTS LOWELL	Massachusetts	220	43	177	0	7	26	36	16	14	0
TUFTS UNIVERSITY	Massachusetts	202	71	131	0	0	5	11	35	41	7
SALEM STATE UNIVERSITY	Massachusetts	200	63	137	2	10	39	39	10	1	0
WESTFIELD STATE UNIVERSITY	Massachusetts	196	53	143	2	10	33	41	13	2	0
QUINNIPIAC UNIVERSITY	Connecticut	195	50	145	0	2	8	37	41	13	0
WORCESTER POLYTECHNIC INST	Massachusetts	173	51	122	0	1	6	20	31	35	6
UNIVERSITY OF VERMONT	Vermont	156	26	130	0	1	9	22	38	27	3
FRAMINGHAM STATE COLLEGE	Massachusetts	147	24	123	4	9	37	37	12	1	0
UNIV OF MASSACHUSETTS BOSTON	Massachusetts	142	25	117	1	8	32	35	20	4	0
WORCESTER STATE UNIVERSITY	Massachusetts	142	36	106	1	11	40	35	12	1	0
BENTLEY UNIVERSITY	Massachusetts	138	57	81	0	1	11	22	53	12	0
ROGER WILLIAMS UNIVERSITY	Rhode Island	136	34	102	0	2	15	46	31	6	0
ENDICOTT COLLEGE	Massachusetts	130	31	99	0	8	28	39	24	1	0
MASSACHUSETTS COLL PHARM/HLTH SCIENCES	Massachusetts	129	52	77	0	6	20	38	29	7	0
BROWN UNIVERSITY	Rhode Island	123	47	76	0	0	2	11	27	50	10
SUFFOLK UNIVERSITY	Massachusetts	123	20	103	2	4	30	35	24	5	0
NCAA ELIGIBILITY CENTER	Indiana	122	86	36	0	9	20	22	28	20	1
STONEHILL COLLEGE	Massachusetts	110	25	85	0	2	11	34	36	15	2
FITCHBURG STATE UNIVERSITY	Massachusetts	106	26	80	3	9	41	33	11	3	0
WENTWORTH INSTITUTE OF TECHNOLOGY	Massachusetts	105	31	74	1	4	19	36	29	10	1
WESTERN NEW ENGLAND UNIVERSITY	Massachusetts	102	17	85	3	10	22	40	23	3	0
All Other Institutions		7,299	1,932	5,367	1	5	14	25	28	24	4
<b>Total</b>		<b>13,998</b>	<b>3,845</b>	<b>10,153</b>	<b>1</b>	<b>4</b>	<b>15</b>	<b>28</b>	<b>29</b>	<b>20</b>	<b>3</b>

# 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: 15,398

**Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity<sup>1</sup> 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
<b>All Students</b>	<b>13,759</b>	<b>931,148</b>	<b>24.3</b>	<b>21.5</b>	<b>7.8</b>	<b>7.1</b>	<b>23.5</b>	<b>20.7</b>
Black/African American	584	113,247	18.7	16.6	7.0	6.2	18.6	16.4
American Indian/Alaska Native	26	5,233	23.3	17.8	7.4	6.5	22.4	17.5
White	10,027	518,974	24.7	23.2	7.8	7.2	23.8	22.1
Hispanic/Latino	744	150,249	21.2	18.5	7.3	6.8	20.7	18.3
Asian	968	53,381	24.4	23.7	7.8	7.6	23.5	22.8
Native Hawaiian/Other Pac. Isl.	12	2,851	24.4	19.9	8.4	7.1	24.2	19.6
Two or more races	320	32,346	24.9	21.9	7.8	7.1	24.0	21.1
Prefer not/No Response	1,078	54,867	25.4	21.8	7.8	7.1	24.3	21.0
Males	5,843	413,617	24.0	21.2	7.6	6.8	23.1	20.3
Females	7,916	515,745	24.6	21.7	7.9	7.2	23.7	21.1
Missing	0	1,786	.	16.8	.	6.3	.	16.6

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





