

ACT Profile Report - State

Graduating Class 2010
Massachusetts



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This report provides information about the performance of your 2010 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 2010 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

41% 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: 14,736 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, 35% were college ready. 5% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 26% of these students were college ready. In comparison, 73% 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. 26% of these students were college ready. In comparison, 47% 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 21% 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.

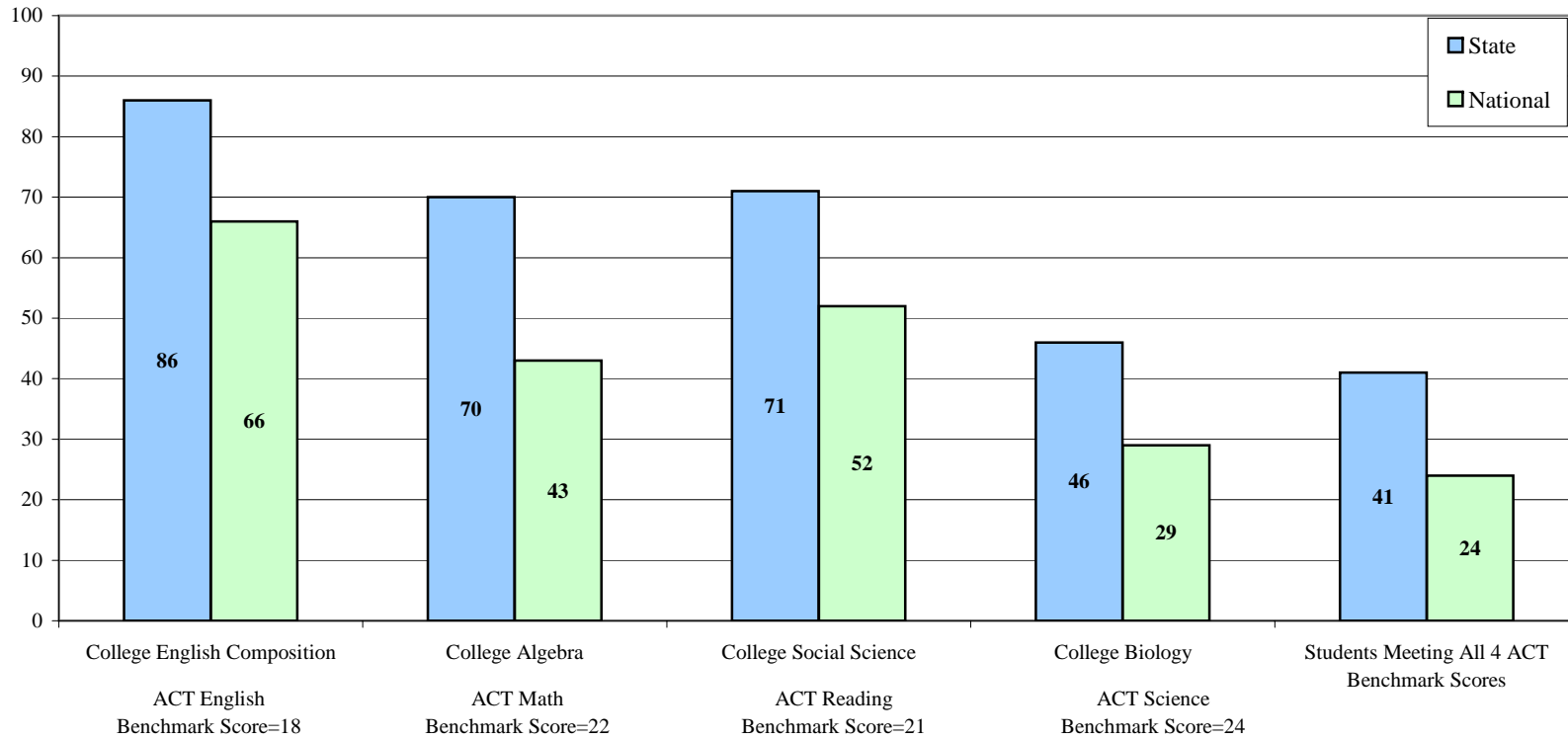
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 508-229-0111.

Section I

Executive Summary

Total Students in Report: 14,736

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: 14,736

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
2006	8,865	1,206,455	83	69	62	42	67	53	36	27	31	21
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

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
2006	8,865	1,206,455	22.9	20.6	23.3	20.8	23.4	21.4	22.0	20.9	23.0	21.1
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

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2006	1,206,455	20.6	20.8	21.4	20.9	21.1
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

Total Students in Report: 14,736

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

Year	Number of Students Tested		Percent ²		Average ACT Scores									
					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	Core or More	Less than Core
2006	2,786	3,642	31	41	23.2	22.6	23.5	23.1	23.8	23.1	22.3	21.8	23.3	22.8
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

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

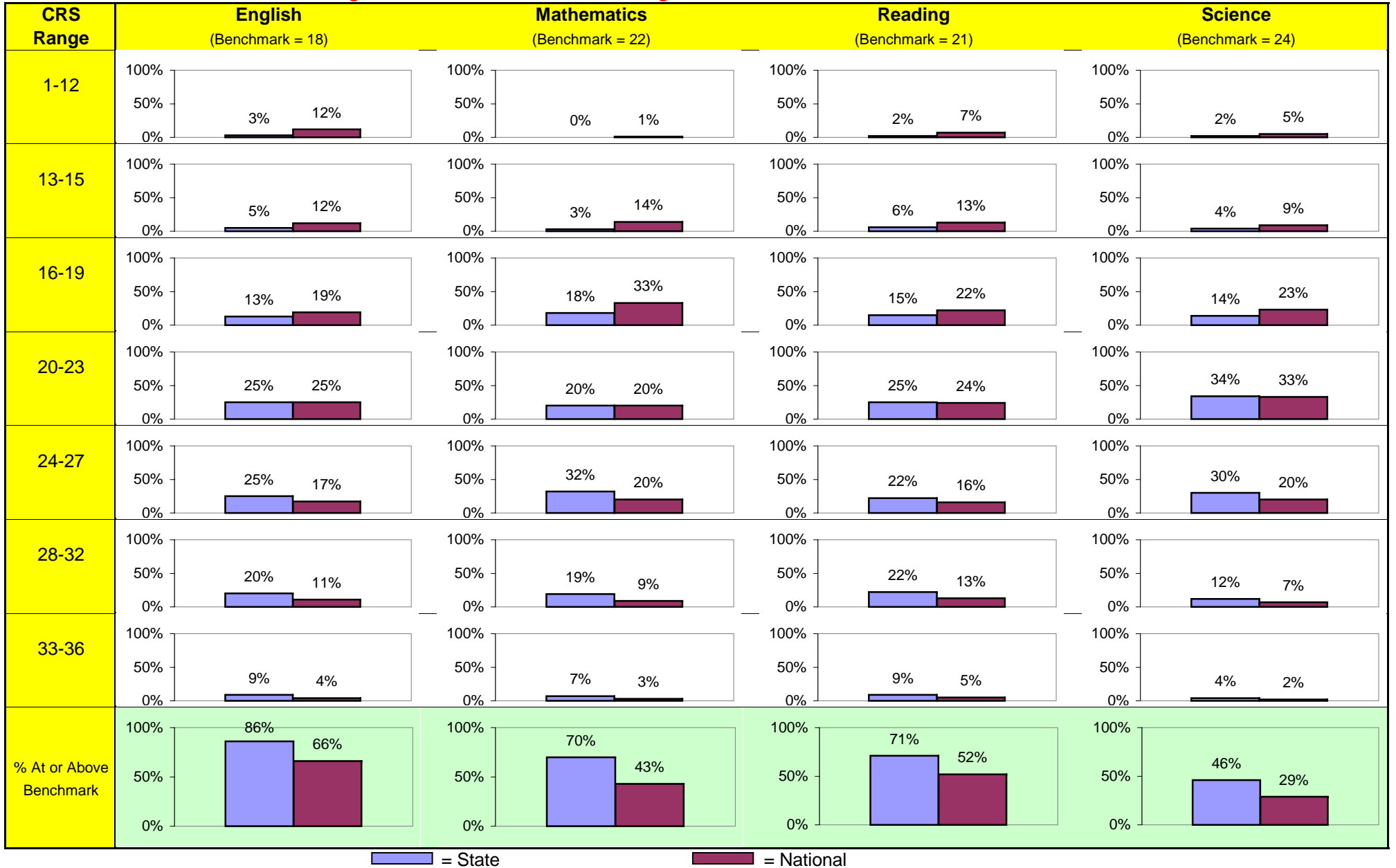
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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

	2006			2007			2008			2009			2010		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	8,865	100	23.0	10,510	100	23.5	12,469	100	23.6	13,093	100	23.9	14,736	100	24.0
African American/Black	342	4	18.4	348	3	19.0	405	3	19.3	462	4	19.1	604	4	19.2
American Indian/Alaska Native	17	0	22.4	15	0	21.8	17	0	22.8	21	0	23.8	33	0	22.5
Caucasian American/White	5,739	65	23.2	6,305	60	23.5	8,678	70	23.6	10,008	76	24.1	11,308	77	24.3
Hispanic	217	2	20.0	241	2	20.9	328	3	21.3	360	3	21.2	503	3	20.7
Asian American/Pacific Islander	306	3	23.4	364	3	23.8	407	3	24.3	593	5	25.2	788	5	25.3
Other/No Response	2,244	25	23.6	3,237	31	24.2	2,634	21	24.3	1,649	13	24.5	1,500	10	24.4

Total Students in Report: 14,736

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



Section II

Academic Achievement

Total Students in Report: 14,736

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	90	100	102	100	179	100	106	100	9	100	36
35	392	99	295	99	278	99	138	99	83	100	35
34	444	97	334	97	485	97	107	98	170	99	34
33	400	94	352	95	414	94	194	98	308	98	33
32	400	91	413	93	620	91	91	96	369	96	32
31	468	88	394	90	561	87	315	96	506	94	31
30	586	85	574	87	697	83	374	94	642	90	30
29	610	81	533	83	682	78	428	91	755	86	29
28	826	77	857	80	681	73	587	88	881	81	28
27	751	71	1,091	74	757	69	890	84	952	75	27
26	975	66	1,128	66	696	64	815	78	1,072	68	26
25	974	60	1,170	59	937	59	1,359	73	1,131	61	25
24	981	53	1,302	51	794	53	1,325	63	1,153	53	24
23	947	46	1,071	42	860	47	1,445	54	1,094	46	23
22	915	40	763	35	1,046	41	1,175	45	1,059	38	22
21	1,074	34	494	30	776	34	1,231	37	931	31	21
20	817	26	650	26	964	29	1,138	28	822	25	20
19	647	21	616	22	557	22	723	20	724	19	19
18	429	17	656	18	527	19	729	16	604	14	18
17	391	14	754	13	643	15	381	11	477	10	17
16	460	11	689	8	410	11	294	8	349	7	16
15	350	8	318	3	349	8	264	6	256	4	15
14	251	5	130	1	336	6	179	4	174	3	14
13	110	4	34	1	192	3	169	3	104	1	13
12	122	3	11	1	144	2	106	2	68	1	12
11	119	2	3	1	74	1	73	1	32	1	11
10	63	1	1	1	34	1	48	1	6	1	10
9	78	1	1	1	22	1	33	1	4	1	9
8	39	1	0	1	7	1	9	1	1	1	8
7	18	1	0	1	5	1	4	1	0	1	7
6	9	1	0	1	3	1	4	1	0	1	6
5	0	1	0	1	2	1	1	1	0	1	5
4	0	1	0	1	3	1	0	1	0	1	4
3	0	1	0	1	1	1	1	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)	24.0 (5.9)		24.3 (5.2)		24.2 (6.0)		23.1 (4.8)		24.0 (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: 14,736

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		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	1,271	100	345	100	684	100	745	100	1,523	100	378	100	295	100	18
17	1,078	91	248	98	1,102	95	2,255	95	1,401	90	427	97	282	98	17
16	1,252	84	1,465	96	1,463	88	1,020	80	1,506	80	902	95	997	96	16
15	1,423	76	1,737	86	1,174	78	1,715	73	1,495	70	930	88	1,704	89	15
14	1,148	66	1,482	74	1,243	70	903	61	1,398	60	2,311	82	1,834	78	14
13	1,351	58	1,761	64	1,096	62	1,389	55	1,285	50	2,111	66	2,109	65	13
12	1,179	49	1,920	52	1,587	54	1,279	46	1,385	42	1,767	52	1,774	51	12
11	1,270	41	1,887	39	1,330	43	1,573	37	1,359	32	1,970	40	1,442	39	11
10	1,578	32	1,131	26	1,279	34	968	26	865	23	1,443	27	1,728	29	10
9	1,040	22	1,164	19	1,507	26	760	20	896	17	1,210	17	916	17	9
8	658	15	656	11	865	15	699	14	791	11	672	9	779	11	8
7	593	10	387	6	774	10	522	10	581	6	271	4	335	6	7
6	402	6	201	4	293	4	378	6	191	2	111	2	264	4	6
5	217	3	157	2	185	2	369	4	44	1	132	2	119	2	5
4	153	2	132	1	59	1	76	1	10	1	24	1	62	1	4
3	91	1	58	1	60	1	58	1	6	1	65	1	47	1	3
2	29	1	5	1	27	1	23	1	0	1	0	1	40	1	2
1	3	1	0	1	8	1	4	1	0	1	12	1	9	1	1
Avg (SD)	12.4 (3.7)		12.2 (3.0)		12.2 (3.5)		12.7 (3.6)		13.2 (3.3)		12.2 (2.8)		12.1 (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	24	24	23	24
Q1 (25th Percentile)	20	20	20	20	21

Total Students in Report: 14,736

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

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	14,736	64	24.2	23.8
	African American/Black	604	55	19.5	19.1
	American Indian/Alaska Native	33	61	23.9	20.5
	Caucasian American/White	11,308	66	24.3	24.2
	Hispanic	503	53	21.3	20.0
	Asian American/Pacific Islander	788	56	25.7	24.7
	Other/No Response	1,500	60	24.8	24.3
National	All Students	1,568,835	71	22.0	18.9
	African American/Black	214,836	65	17.5	15.8
	American Indian/Alaska Native	16,382	60	20.2	17.4
	Caucasian American/White	979,329	74	23.1	20.0
	Hispanic	157,579	68	19.4	17.0
	Asian American/Pacific Islander	65,362	81	23.9	21.5
	Other/No Response	135,347	65	21.8	18.7

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

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	24.0	24.3	24.2	23.1	24.0
	African American/Black	18.6	19.8	19.3	18.7	19.2
	American Indian/Alaska Native	21.8	23.4	22.6	22.1	22.5
	Caucasian American/White	24.4	24.4	24.5	23.3	24.3
	Hispanic	20.3	21.2	20.8	20.1	20.7
	Asian American/Pacific Islander	24.6	27.2	24.5	24.4	25.3
	Other/No Response	24.4	24.9	24.6	23.4	24.4
National	All Students	20.5	21.0	21.3	20.9	21.0
	African American/Black	15.7	17.1	16.8	17.2	16.9
	American Indian/Alaska Native	17.9	18.8	19.4	19.3	19.0
	Caucasian American/White	22.0	22.0	22.6	22.0	22.3
	Hispanic	17.3	19.0	18.7	18.7	18.6
	Asian American/Pacific Islander	22.6	24.7	22.9	23.0	23.4
	Other/No Response	20.0	20.7	20.9	20.4	20.6

Total Students in Report: 14,736

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	1,326	9	1,083	7	1,356	9	545	4
	28 to 32	2,890	20	2,771	19	3,241	22	1,795	12
	24 to 27	3,681	25	4,691	32	3,184	22	4,389	30
	20 to 23	3,753	25	2,978	20	3,646	25	4,989	34
	16 to 19	1,927	13	2,715	18	2,137	15	2,127	14
	13 to 15	711	5	482	3	877	6	612	4
	01 to 12	448	3	16	0	295	2	279	2
National	33 to 36	66,467	4	46,930	3	76,605	5	30,627	2
	28 to 32	165,254	11	142,908	9	211,021	13	111,377	7
	24 to 27	268,486	17	319,044	20	248,190	16	317,878	20
	20 to 23	386,648	25	318,678	20	383,226	24	513,801	33
	16 to 19	302,869	19	518,636	33	340,348	22	368,286	23
	13 to 15	191,597	12	213,176	14	201,824	13	148,317	9
	01 to 12	187,514	12	9,463	1	107,621	7	78,549	5

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	6,311	43	23.6	25.1	24.0	23.7	24.2
	Females	8,416	57	24.4	23.7	24.3	22.6	23.8
	Missing	9	0	16.8	17.8	16.7	17.9	17.4
National	Males	713,544	45	20.1	21.6	21.1	21.4	21.2
	Females	852,493	54	20.8	20.5	21.4	20.5	20.9
	Missing	2,798	0	16.2	17.9	17.7	17.9	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	85	76	70	51	46
	Females	88	67	72	41	38
National	Males	64	48	51	34	28
	Females	69	40	53	25	21

Total Students in Report: 14,736

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	9,379	88	24.2	72	24.4	72	24.4	46	23.2	42	24.2
	Less than Core	5,108	84	23.8	69	24.2	69	23.9	45	22.9	41	23.8
	Missing ³	249	70	21.2	54	22.2	53	21.7	29	21.1	25	21.7
National	Core or More	1,118,639	74	21.6	51	21.9	58	22.2	35	21.7	29	22.0
	Less than Core	397,685	50	18.1	26	18.9	37	19.2	17	19.0	13	18.9
	Missing	52,511	33	15.5	16	17.4	24	17.1	10	17.3	7	16.9

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	14,310	87	24.1	14,350	71	24.4	9,820	72	24.2	13,907	47	23.2
	Less than Core	193	77	21.6	149	35	19.7	4,677	70	24.1	591	26	20.4
	Missing ³	233	70	21.3	237	54	22.3	239	53	21.6	238	28	21.1
National	Core or More	1,451,549	69	20.8	1,423,506	47	21.4	1,366,601	54	21.6	1,290,372	33	21.5
	Less than Core	74,180	39	16.4	97,949	7	16.4	156,679	39	19.5	231,566	12	18.3
	Missing	43,106	34	15.7	47,380	16	17.5	45,555	25	17.3	46,897	10	17.4

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.

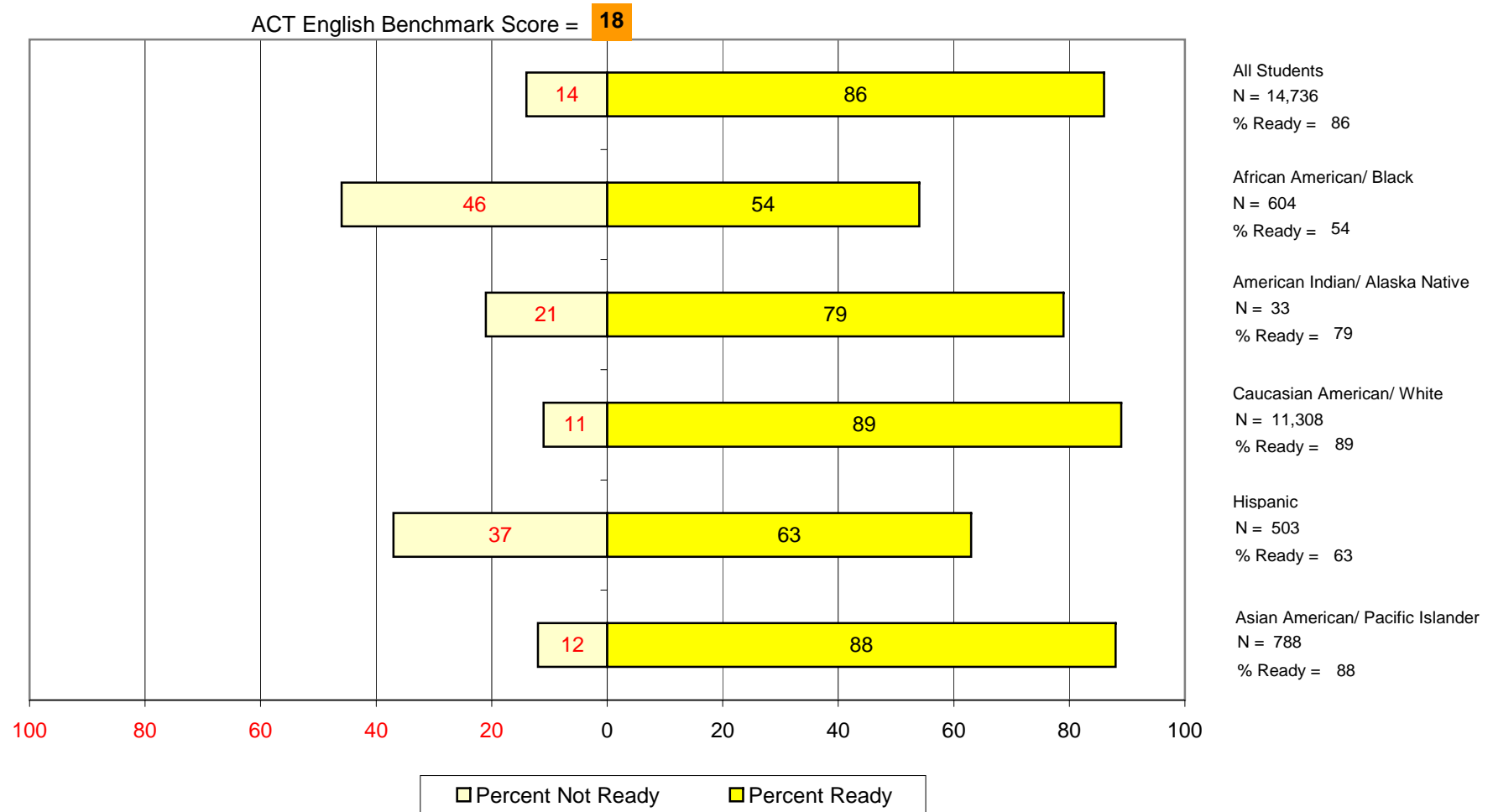
³ Zero years or no coursework information reported in the specified content area.

Section III

College Readiness and the Impact of Course Rigor

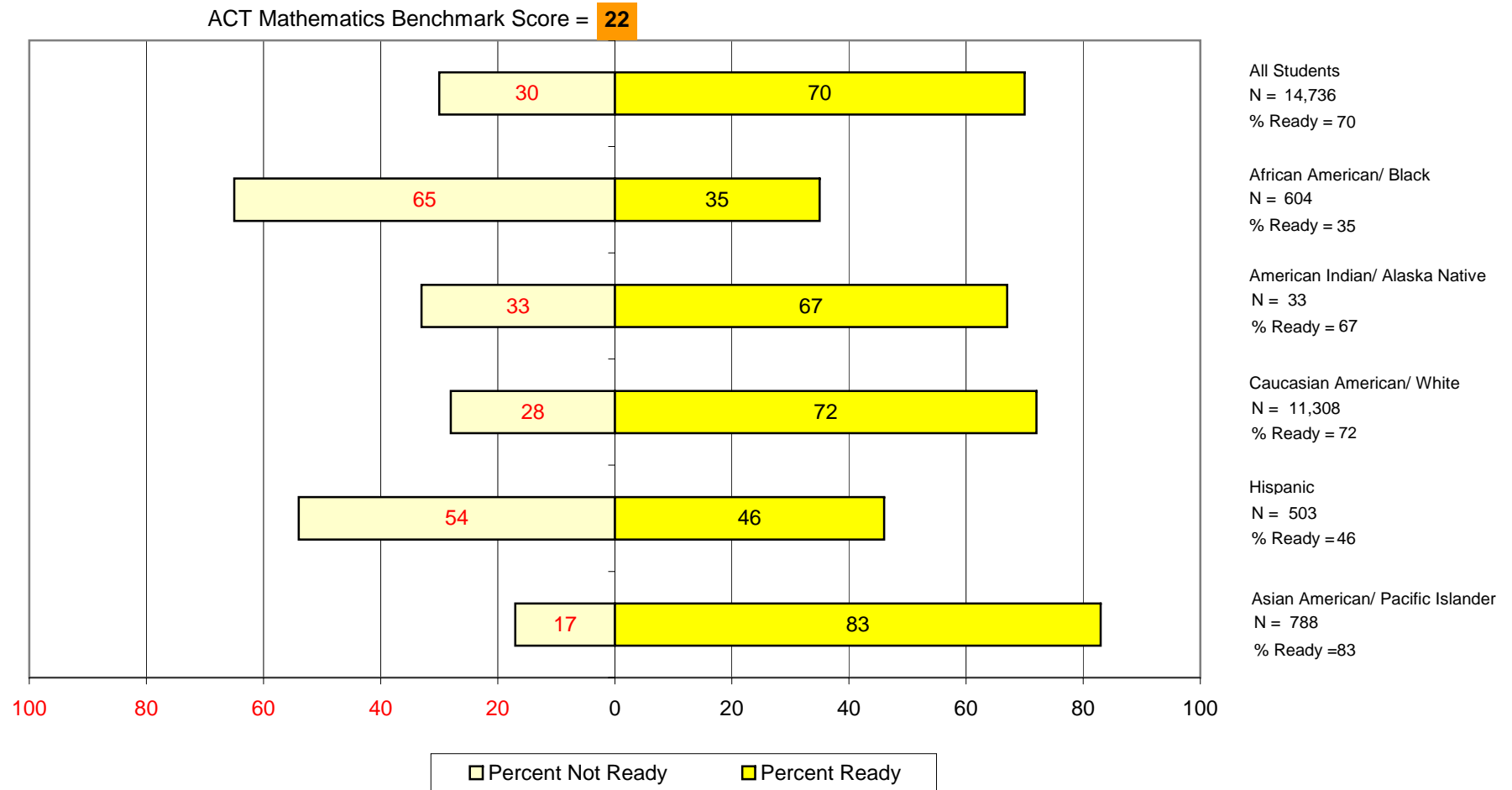
Total Students in Report: 14,736

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



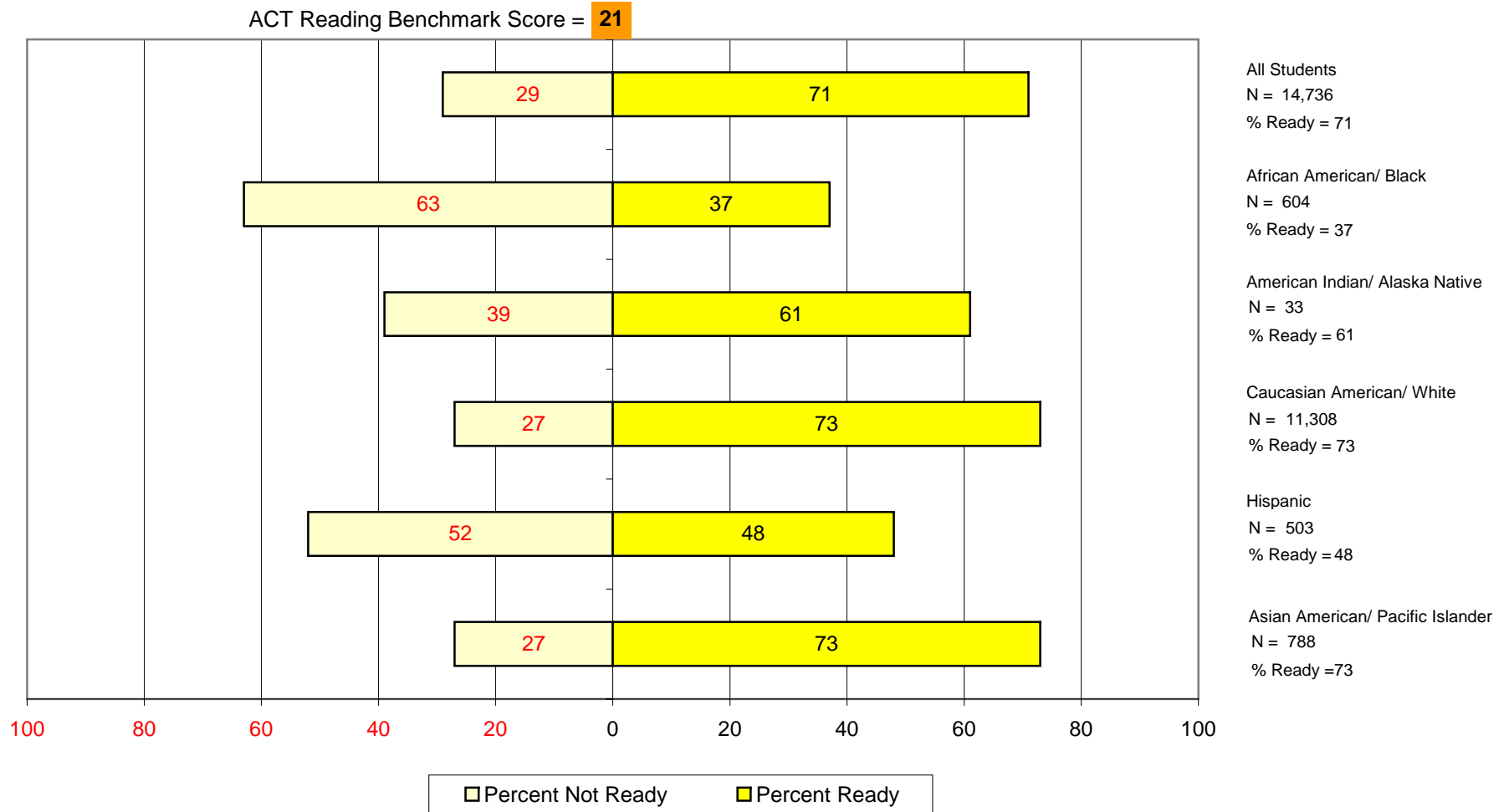
Total Students in Report: 14,736

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



Total Students in Report: 14,736

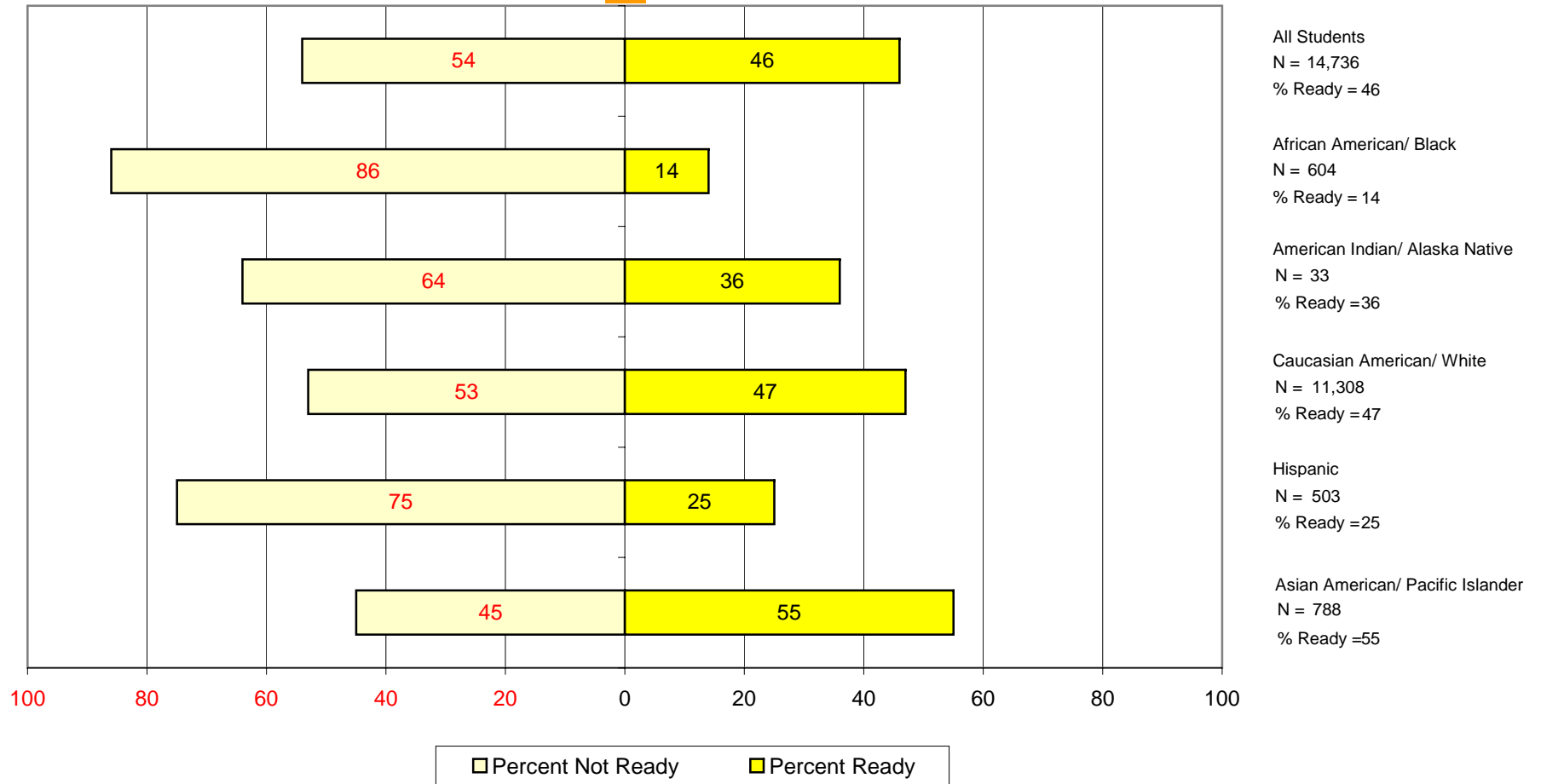
Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING



Total Students in Report: 14,736

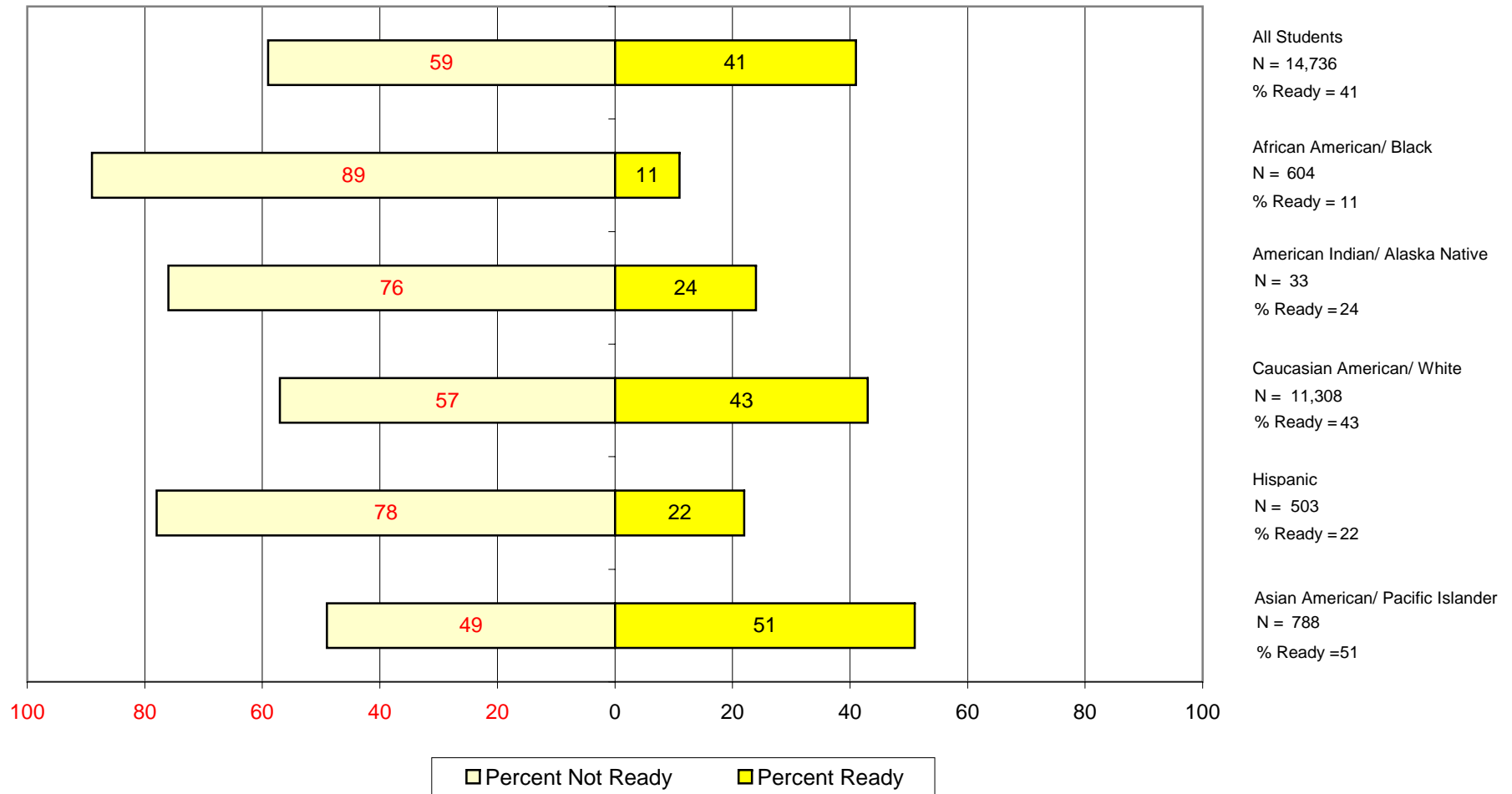
Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

ACT Science Benchmark Score = 24



Total Students in Report: 14,736

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



Total Students in Report: 14,736

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	3,999	27	24.5	2.9	1,575	25	24.0	2.8	2,423	29	24.8	2.7
Eng 9, Eng 10, Eng 11, Eng 12	10,311	70	24.0	2.4	4,495	71	23.6	2.4	5,811	69	24.3	2.2
Less than 4 years of English	193	1	21.6	-	103	2	21.2	-	90	1	22.1	-
Zero years / no English courses reported	233	2	21.3	-	138	2	20.9	-	92	1	22.0	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,797	12	26.4	6.7	755	12	27.0	6.2	1,042	12	26.0	7.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,371	9	23.1	3.4	488	8	23.9	3.1	883	10	22.6	3.6
Alg 1, Alg 2, Geom, & Trig	821	6	21.1	1.4	316	5	21.5	0.7	505	6	21.0	2.0
Alg 1, Alg 2, Geom, & Other Adv Math	1,910	13	21.2	1.5	616	10	21.6	0.8	1,292	15	21.0	2.0
Other comb of 4 or more years of Math	6,957	47	26.0	6.3	3,345	53	26.6	5.8	3,612	43	25.4	6.4
Alg 1, Alg 2, & Geom	700	5	18.8	-0.9	261	4	19.2	-1.6	437	5	18.6	-0.4
Other comb of 3 or 3.5 years of Math	794	5	23.5	3.8	332	5	23.8	3.0	461	5	23.2	4.2
Less than 3 years of Math	149	1	19.7	-	59	1	20.8	-	89	1	19.0	-
Zero years / no Math courses reported	237	2	22.3	-	139	2	22.6	-	95	1	21.9	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	761	5	25.1	1.0	382	6	24.8	0.8	379	5	25.3	1.1
Other comb of 4 or more years Social Science	4,010	27	24.0	-0.1	1,868	30	23.7	-0.3	2,142	25	24.3	0.1
US Hist, World Hist, & Am Gov	598	4	23.9	-0.2	295	5	24.0	0.0	303	4	23.8	-0.4
Other comb of 3 or 3.5 years of Social Science	4,451	30	24.3	0.2	1,735	27	24.3	0.3	2,713	32	24.3	0.1
Less than 3 years of Social Science	4,677	32	24.1	-	1,890	30	24.0	-	2,784	33	24.2	-
Zero years / no Social Science courses reported	239	2	21.6	-	141	2	21.5	-	95	1	22.0	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	8,753	59	23.6	3.2	3,972	63	24.2	3.5	4,779	57	23.1	2.8
Bio, Chem, Phys	2,351	16	24.0	3.6	1,068	17	24.7	4.0	1,283	15	23.4	3.1
Gen Sci ² , Bio, Chem	2,621	18	21.2	0.8	839	13	21.2	0.5	1,778	21	21.2	0.9
Other comb of 3 years of Natural Science	182	1	21.6	1.2	95	2	22.1	1.4	87	1	21.1	0.8
Less than 3 years of Natural Science	591	4	20.4	-	195	3	20.7	-	396	5	20.3	-
Zero years / no Natural Science courses reported	238	2	21.1	-	142	2	21.3	-	93	1	20.8	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years and three years of English and non-English content areas, respectively.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 14,736

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	3,999	27	24.5	88	355,112	23	21.9	75
Eng 9, Eng 10, Eng 11, Eng 12	10,311	70	24.0	86	1,096,437	70	20.5	66
Less than 4 years of English	193	1	21.6	77	74,180	5	16.4	39
Zero years / no English courses reported	233	2	21.3	70	43,106	3	15.7	34
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,797	12	26.4	86	98,076	6	24.4	72
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,371	9	23.1	67	141,740	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	821	6	21.1	47	112,685	7	19.9	35
Alg 1, Alg 2, Geom, & Other Adv Math	1,910	13	21.2	48	239,289	15	20.0	36
Other comb of 4 or more years of Math	6,957	47	26.0	82	498,709	32	23.9	67
Alg 1, Alg 2, & Geom	700	5	18.8	26	258,287	16	17.4	12
Other comb of 3 or 3.5 years of Math	794	5	23.5	65	74,720	5	19.9	35
Less than 3 years of Math	149	1	19.7	35	97,949	6	16.4	7
Zero years / no Math courses reported	237	2	22.3	54	47,380	3	17.5	16
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	761	5	25.1	75	47,523	3	22.6	60
Other comb of 4 or more years Social Science	4,010	27	24.0	71	793,514	51	21.9	57
US Hist, World Hist, & Am Gov	598	4	23.9	70	86,044	5	20.4	45
Other comb of 3 or 3.5 years of Social Science	4,451	30	24.3	72	439,520	28	21.2	51
Less than 3 years of Social Science	4,677	32	24.1	70	156,679	10	19.5	39
Zero years / no Social Science courses reported	239	2	21.6	53	45,555	3	17.3	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	8,753	59	23.6	51	620,765	40	22.2	40
Bio, Chem, Phys	2,351	16	24.0	55	152,001	10	23.2	48
Gen Sci ¹ , Bio, Chem	2,621	18	21.2	28	474,375	30	20.1	21
Other comb of 3 years of Natural Science	182	1	21.6	32	43,231	3	19.7	21
Less than 3 years of Natural Science	591	4	20.4	26	231,566	15	18.3	12
Zero years / no Natural Science courses reported	238	2	21.1	28	46,897	3	17.4	10

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Total Students in Report: 14,736

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

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ¹	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp
Agriculture Sciences & Technologies	50	0	21.9	1	2	12.0	42	0	22.0
Architecture & Environmental Design	218	1	23.1	0	0	.	194	2	23.1
Business & Management	1,909	13	23.2	5	10	15.4	1,659	13	23.2
Business & Office	65	0	22.2	0	0	.	51	0	22.3
Marketing & Distribution	123	1	22.1	0	0	.	112	1	22.0
Communications & Comm. Technologies	489	3	23.6	2	4	21.0	422	3	23.4
Community & Personal Services	192	1	20.2	1	2	11.0	170	1	20.0
Computer & Information Sciences	177	1	24.1	1	2	18.0	154	1	24.0
Cross-Disciplinary Studies	84	1	26.1	0	0	.	68	1	25.8
Education	515	3	22.2	0	0	.	452	4	22.1
Teacher Education	184	1	21.2	1	2	16.0	163	1	21.2
Engineering	631	4	26.3	2	4	13.5	554	5	26.3
Engineering-Related Technologies	398	3	24.7	1	2	24.0	361	3	24.7
Foreign Languages	150	1	26.6	1	2	25.0	123	1	26.4
Health Sciences & Allied Health Fields	2,057	14	22.9	9	19	17.1	1,851	15	23.0
Human, Family & Consumer Science	72	0	20.7	3	6	16.3	58	0	20.8
Letters	136	1	26.9	0	0	.	119	1	26.7
Mathematics	163	1	26.1	0	0	.	150	1	26.2
Philosophy, Religion & Theology	45	0	25.4	2	4	19.5	38	0	25.5
Sciences (Biological & Physical)	1,542	10	25.8	2	4	18.5	1,371	11	25.8
Social Sciences	1,298	9	24.3	0	0	.	1,155	9	24.2
Trade & Industrial	15	0	18.7	3	6	18.0	12	0	18.8
Visual & Performing Arts	675	5	23.3	2	4	18.5	587	5	23.2
Undecided	3,203	22	24.7	12	25	19.5	2,407	20	24.6
No Response	345	2	21.4	0	0	.	38	0	24.3

¹2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.

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

Total Students in Report: 14,736

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

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		African American/ Black		American Indian/ Alaska Native		Caucasian American/White		Hispanic		Asian American/ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	6	16.5	2	15.0	0	.	1	18.0	1	18.0	2	16.5	0	.
2-yr College Degree	42	18.0	4	19.0	0	.	23	19.5	7	14.9	2	20.5	6	14.7
Bachelors Degree	4,242	22.0	130	17.7	7	20.0	3,540	22.3	117	18.6	160	22.1	288	22.0
Graduate Study	4,115	24.7	101	20.0	13	23.2	3,402	24.8	87	22.4	154	25.8	358	25.1
Prof. Level Degree	3,954	25.4	257	20.3	10	24.1	2,685	26.0	157	21.9	352	26.6	493	25.5
Other	198	22.5	10	17.3	1	15.0	150	22.7	8	22.4	9	23.3	20	23.4
No Response	2,179	24.3	100	18.1	2	23.0	1,507	24.9	126	20.3	109	25.6	335	24.5

Total Students in Report: 14,736

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	868	222	646	1	2	14	34	31	16	2	
NORTHEASTERN UNIVERSITY	Massachusetts	599	175	424	0	3	10	26	40	20	1	
BOSTON UNIVERSITY	Massachusetts	522	204	318	0	2	10	25	35	25	3	
BOSTON COLLEGE	Massachusetts	357	151	206	0	2	6	22	37	29	3	
UNIVERSITY OF NEW HAMPSHIRE	New Hampshire	322	59	263	0	2	14	38	34	11	0	
UNIV OF MASSACHUSETTS-DARTMOUTH	Massachusetts	263	41	222	2	9	29	38	16	6	0	
BRIDGEWATER STATE COLLEGE	Massachusetts	259	83	176	0	8	37	36	15	3	0	
UNIVERSITY OF CONNECTICUT	Connecticut	259	49	210	0	2	9	26	39	21	2	
UNIVERSITY OF RHODE ISLAND	Rhode Island	247	56	191	0	2	16	42	34	5	1	
UNIV OF MASSACHUSETTS LOWELL	Massachusetts	213	45	168	0	4	33	34	21	7	0	
QUINNIPIAC UNIVERSITY	Connecticut	212	45	167	0	0	9	37	43	8	1	
TUFTS UNIVERSITY	Massachusetts	196	63	133	0	1	3	20	31	35	11	
UNIVERSITY OF VERMONT	Vermont	194	47	147	0	0	6	32	42	18	2	
WESTFIELD STATE COLLEGE	Massachusetts	190	54	136	2	11	41	32	13	2	0	
BROWN UNIVERSITY	Rhode Island	173	59	114	1	0	2	16	24	42	16	
WORCESTER STATE COLLEGE	Massachusetts	173	42	131	2	11	36	34	15	2	0	
SALEM STATE COLLEGE	Massachusetts	170	51	119	1	9	33	37	18	3	0	
WORCESTER POLYTECHNIC INST	Massachusetts	160	51	109	1	2	8	16	39	28	7	
ENDICOTT COLLEGE	Massachusetts	150	46	104	1	3	26	42	23	5	0	
ROGER WILLIAMS UNIVERSITY	Rhode Island	150	28	122	1	3	11	53	26	5	1	
FITCHBURG STATE COLLEGE	Massachusetts	136	23	113	1	9	35	38	15	2	0	
SUFFOLK UNIVERSITY	Massachusetts	136	21	115	1	5	28	39	21	6	0	
UNIV OF MASSACHUSETTS BOSTON	Massachusetts	132	17	115	3	8	27	36	17	10	0	
BENTLEY UNIVERSITY	Massachusetts	126	50	76	0	2	10	33	38	17	0	
NCAA ELIGIBILITY CENTER	Indiana	126	92	34	3	6	15	33	29	11	4	
PROVIDENCE COLLEGE	Rhode Island	125	22	103	0	0	6	30	38	25	0	
FRAMINGHAM STATE COLLEGE	Massachusetts	121	28	93	2	8	36	36	14	2	0	
NEW YORK UNIVERSITY	New York	114	50	64	0	3	5	23	39	29	1	
STONEHILL COLLEGE	Massachusetts	110	16	94	2	1	18	24	36	19	0	
ASSUMPTION COLLEGE	Massachusetts	104	29	75	2	4	15	40	31	8	0	
All Other Institutions		7,457	1,959	5,498	1	4	14	27	29	22	4	
Total		14,364	3,878	10,486	1	4	15	29	30	19	3	

Section V Optional Writing Test Results

Total Students in Report: 14,736

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

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
			State	National	State	National	State	National
All Students	12,896	869,014	24.5	21.4	7.9	7.1	23.7	20.8
African American/Black	521	107,638	19.2	16.4	7.3	6.4	19.2	16.4
American Indian/Alaska Native	26	6,232	22.0	18.9	7.9	6.6	22.0	18.4
Caucasian American/White	9,803	518,004	24.9	23.0	7.9	7.3	24.0	22.1
Hispanic	442	101,126	21.0	18.1	7.4	6.9	20.7	18.1
Asian American/Pacific Islander	734	49,922	25.0	23.6	8.0	7.7	24.1	22.9
Other/No Response	1,370	86,092	24.8	21.0	7.9	7.1	23.9	20.4
Males	5,388	384,152	24.1	21.1	7.7	6.9	23.3	20.3
Females	7,500	484,023	24.8	21.7	8.0	7.3	24.0	21.2
Missing	8	839	16.6	16.8	6.9	6.3	17.0	16.6

