

ACT High School Profile Report

The Graduating Class of 2007
Massachusetts



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This report provides information about the performance of your 2007 graduating seniors who took the ACT as sophomores, juniors, or seniors.

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, the graduating class data for a school, district, state, and the nation 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, state, or the nation.

Further, 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.

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

36% of 2007 graduates 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. 10,510 ACT-tested graduates 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. 32% 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 7% of the cohort took less than three years of math courses. Of these students, 58% were college ready. 7% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 29% of these students were college ready. In comparison, 69% of the students who advanced beyond minimum core were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 9% of the cohort took less than three years of natural science courses. 30% of these students were college ready. In comparison, 42% 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 24% 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.

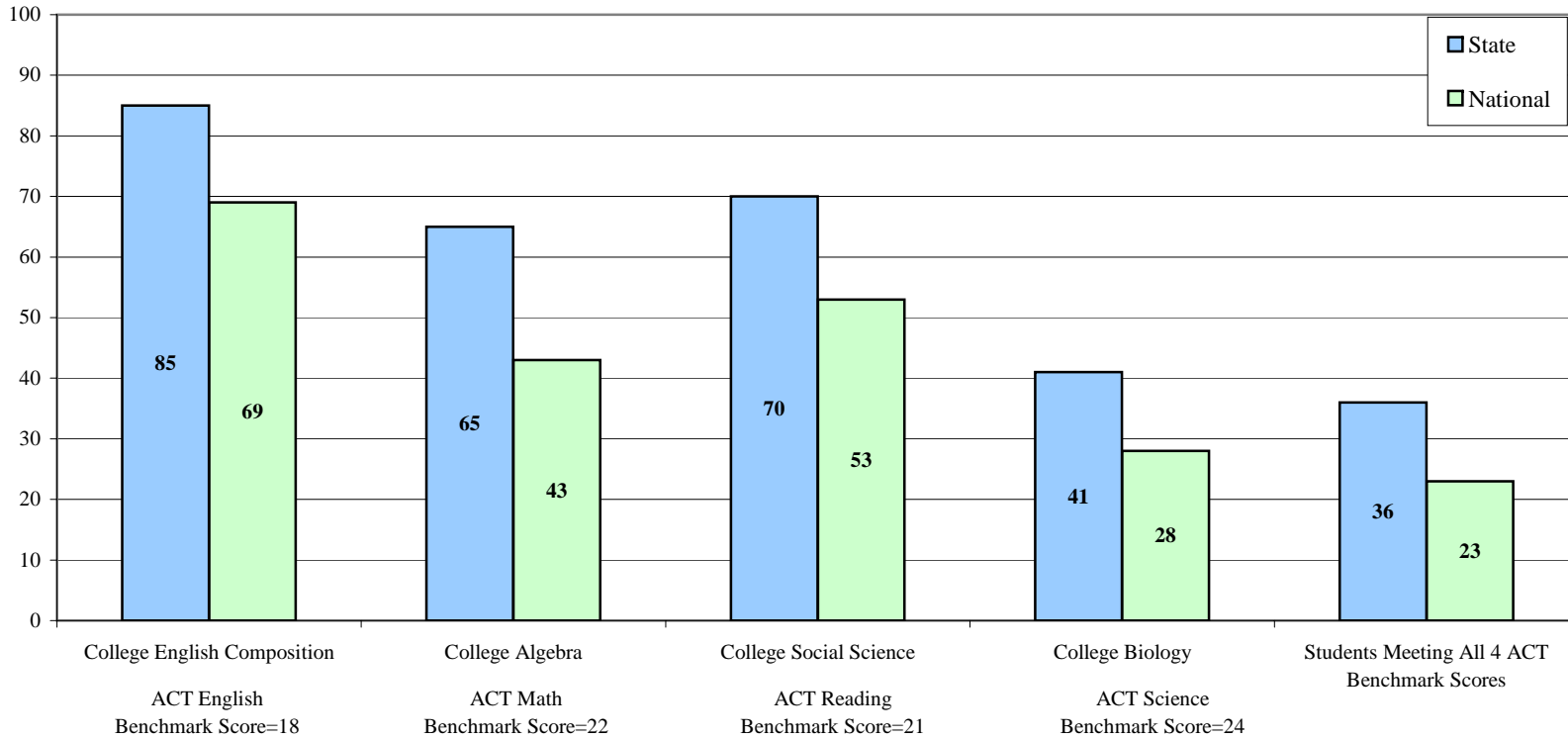
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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 518-869-7378.

Section I

Executive Summary

Figure 1.1. Percent of ACT-Tested Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

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

Grad 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
2003	6,886	1,175,059	79	67	55	40	64	52	30	26	26	20
2004	7,748	1,171,460	78	68	55	40	64	52	33	26	28	21
2005	8,168	1,186,251	80	68	58	41	66	51	34	26	30	21
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

Table 1.2. Five Year Trends—Average ACT Scores

Grad 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
2003	6,886	1,175,059	22.0	20.3	22.3	20.6	22.9	21.2	21.5	20.8	22.3	20.8
2004	7,748	1,171,460	22.1	20.4	22.3	20.7	22.9	21.3	21.7	20.9	22.4	20.9
2005	8,168	1,186,251	22.5	20.4	22.8	20.7	23.4	21.3	22.0	20.9	22.8	20.9
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

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Grad Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2003	1,175,059	20.3	20.6	21.2	20.8	20.8
2004	1,171,460	20.4	20.7	21.3	20.9	20.9
2005	1,186,251	20.4	20.7	21.3	20.9	20.9
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

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

Grad Year	Number of Students Tested		Percent ¹		Average ACT Scores									
	Core or More	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
2003	2,507	2,730	36	40	22.1	21.6	22.5	22.0	23.1	22.7	21.7	21.3	22.5	22.0
2004	2,837	3,153	37	41	22.2	21.8	22.3	22.1	23.1	22.7	21.8	21.6	22.5	22.2
2005	2,891	3,229	35	40	22.7	22.2	22.9	22.5	23.7	23.2	22.1	21.9	23.0	22.6
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

¹Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five-Year Trends—Number, Percentage, and Average Composite Score for ACT-Tested Graduates by Race/Ethnicity

	2003			2004			2005			2006			2007		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	6,886	100	22.3	7,748	100	22.4	8,168	100	22.8	8,865	100	23.0	10,510	100	23.5
African American/Black	382	6	18.1	362	5	18.3	329	4	18.5	342	4	18.4	348	3	19.0
American Indian/Alaska Native	21	0	20.2	15	0	23.1	16	0	20.6	17	0	22.4	15	0	21.8
Caucasian American/White	4,993	73	22.6	5,397	70	22.6	5,726	70	23.0	5,739	65	23.2	6,305	60	23.5
Hispanic	151	2	19.9	191	2	19.5	210	3	20.5	217	2	20.0	241	2	20.9
Asian American/Pacific Islander	255	4	21.7	318	4	22.7	297	4	23.0	306	3	23.4	364	3	23.8
Other/No Response	1,084	16	22.9	1,465	19	22.8	1,590	19	23.3	2,244	25	23.6	3,237	31	24.2

Section II

Academic Achievement

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

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
36	19	100	51	100	83	100	39	100	4	100	36
35	165	100	126	100	165	99	114	100	30	100	35
34	273	98	173	98	242	98	38	99	90	100	34
33	225	96	150	97	312	95	128	98	110	99	33
32	214	94	259	95	362	92	113	97	214	98	32
31	350	91	311	93	469	89	133	96	288	96	31
30	324	88	269	90	414	84	213	95	389	93	30
29	477	85	557	87	443	81	250	93	505	89	29
28	549	81	462	82	616	76	310	90	597	84	28
27	531	75	705	78	567	70	437	87	695	79	27
26	599	70	845	71	545	65	731	83	741	72	26
25	865	65	851	63	520	60	786	76	815	65	25
24	624	56	795	55	770	55	997	69	807	57	24
23	627	50	654	47	802	48	881	59	890	50	23
22	816	44	600	41	496	40	1,130	51	788	41	22
21	723	37	536	35	547	35	816	40	737	34	21
20	724	30	537	30	655	30	897	32	608	27	20
19	509	23	500	25	498	24	674	24	531	21	19
18	371	18	502	20	332	19	587	17	466	16	18
17	277	15	601	15	395	16	394	12	416	11	17
16	370	12	548	10	400	12	213	8	289	8	16
15	262	8	278	5	223	8	174	6	222	5	15
14	204	6	152	2	237	6	135	4	138	3	14
13	115	4	26	1	181	4	105	3	84	1	13
12	90	3	16	1	145	2	84	2	26	1	12
11	77	2	4	1	45	1	50	1	17	1	11
10	56	1	1	1	29	1	48	1	11	1	10
9	26	1	1	1	9	1	16	1	2	1	9
8	22	1	0	1	4	1	7	1	0	1	8
7	16	1	0	1	2	1	7	1	0	1	7
6	8	1	0	1	0	1	3	1	0	1	6
5	2	1	0	1	0	1	0	1	0	1	5
4	0	1	0	1	2	1	0	1	0	1	4
3	0	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)	23.5 (5.6)		23.6 (5.2)		23.9 (5.9)		22.6 (4.7)		23.5 (4.7)		Avg (SD)

¹Note: CP is the cumulative percent of students at or below a score point. Also, shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), and Subtest Score Averages for All Students

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 ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
18	496	100	114	100	278	100	648	100	651	100	177	100	261	100	18
17	1,000	95	294	99	831	97	917	94	841	94	215	98	141	98	17
16	679	86	721	96	863	89	1,131	85	1,057	86	423	96	479	96	16
15	667	79	1,213	89	751	81	1,125	74	990	76	877	92	1,053	92	15
14	1,133	73	1,073	78	804	74	1,106	64	1,098	66	1,149	84	1,265	82	14
13	890	62	1,202	68	778	66	974	53	1,298	56	1,688	73	1,418	70	13
12	1,082	54	1,328	56	1,416	59	939	44	876	44	1,216	57	1,332	56	12
11	948	43	1,545	43	1,276	46	746	35	794	35	1,188	45	1,211	43	11
10	1,056	34	1,003	29	822	33	803	28	1,027	28	1,423	34	1,158	32	10
9	771	24	722	19	796	26	588	20	503	18	885	20	893	21	9
8	661	17	646	12	864	18	437	15	613	13	551	12	535	12	8
7	424	11	291	6	406	10	397	10	550	7	309	7	367	7	7
6	287	7	175	3	277	6	409	7	147	2	176	4	144	4	6
5	228	4	99	2	164	3	164	3	43	1	132	2	95	2	5
4	106	2	58	1	109	2	93	1	10	1	25	1	69	2	4
3	60	1	21	1	43	1	26	1	10	1	60	1	68	1	3
2	17	1	5	1	19	1	7	1	1	1	0	1	6	1	2
1	5	1	0	1	13	1	0	1	1	1	16	1	15	1	1
Avg (SD)	12.1 (3.6)		12.0 (2.9)		11.9 (3.4)		12.7 (3.6)		12.7 (3.3)		11.7 (2.8)		11.8 (2.9)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values for All Students

Quartile	English	Math	Reading	Science	Composite
Q3 (75th Percentile)	27	27	28	25	27
Q2 (50th Percentile)	23	24	24	22	24
Q1 (25th Percentile)	20	19	20	20	20

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

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	10,510	32	23.6	23.3
	African Am./Black	348	28	19.6	18.9
	Am. Indian/Alaska Native	15	33	23.6	22.4
	Caucasian Am./White	6,305	36	23.8	23.4
	Hispanic	241	34	21.3	21.0
	Asian Am./Pacific Islander	364	37	23.4	23.9
	Other/No Response	3,237	26	24.1	24.0
National	All Students	1,300,599	51	22.0	19.8
	African Am./Black	152,412	51	17.7	16.1
	Am. Indian/Alaska Native	14,044	46	20.3	17.6
	Caucasian Am./White	779,147	54	23.0	20.7
	Hispanic	93,137	50	19.5	17.7
	Asian Am./Pacific Islander	42,257	57	23.1	21.4
	Other/No Response	219,602	38	22.5	20.4

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	23.5	23.6	23.9	22.6	23.5
	African Am./Black	18.7	19.5	19.2	18.3	19.0
	Am. Indian/Alaska Native	21.3	21.4	23.0	21.1	21.8
	Caucasian Am./White	23.5	23.5	23.9	22.6	23.5
	Hispanic	20.7	20.9	21.2	20.4	20.9
	Asian Am./Pacific Islander	22.9	25.1	23.6	23.3	23.8
	Other/No Response	24.2	24.3	24.6	23.1	24.2
National	All Students	20.7	21.0	21.5	21.0	21.2
	African Am./Black	16.1	17.0	17.1	17.2	17.0
	Am. Indian/Alaska Native	17.9	18.7	19.4	19.2	18.9
	Caucasian Am./White	21.8	21.7	22.5	21.9	22.1
	Hispanic	17.6	19.0	18.8	18.8	18.7
	Asian Am./Pacific Islander	21.7	23.6	22.1	22.3	22.6
	Other/No Response	21.2	21.5	22.0	21.3	21.6

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	682	6	500	5	802	8	319	3
	28 to 32	1,914	18	1,858	18	2,304	22	1,019	10
	24 to 27	2,619	25	3,196	30	2,402	23	2,951	28
	20 to 23	2,890	27	2,327	22	2,500	24	3,724	35
	16 to 19	1,527	15	2,151	20	1,625	15	1,868	18
	13 to 15	581	6	456	4	641	6	414	4
	01 to 12	297	3	22	0	236	2	215	2
National	33 to 36	44,569	3	29,067	2	58,782	5	26,450	2
	28 to 32	133,320	10	120,951	9	183,189	14	80,170	6
	24 to 27	228,570	18	268,298	21	224,580	17	258,834	20
	20 to 23	348,772	27	284,073	22	317,869	24	458,484	35
	16 to 19	278,059	21	427,859	33	281,941	22	319,915	25
	13 to 15	154,534	12	161,072	12	159,904	12	95,630	7
	01 to 12	112,775	9	9,279	1	74,334	6	61,116	5

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Math	Reading	Science	Composite
State	Males	3,813	36	22.8	24.4	23.5	23.1	23.6
	Females	5,349	51	23.9	23.0	24.1	22.2	23.4
	Missing	1,348	13	23.7	23.9	24.2	22.9	23.8
National	Males	544,522	42	20.2	21.6	21.2	21.4	21.2
	Females	674,636	52	21.0	20.4	21.6	20.5	21.0
	Missing	81,441	6	21.7	21.9	22.4	21.7	22.1

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

Student Group	Gender	Percent of Students				Meet All Four
		English	Math	Reading	Science	
State	Males	82	70	67	46	40
	Females	87	61	71	36	33
National	Males	66	47	51	32	26
	Females	71	38	53	24	20

Section III

College Readiness and the Impact of Course Rigor

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

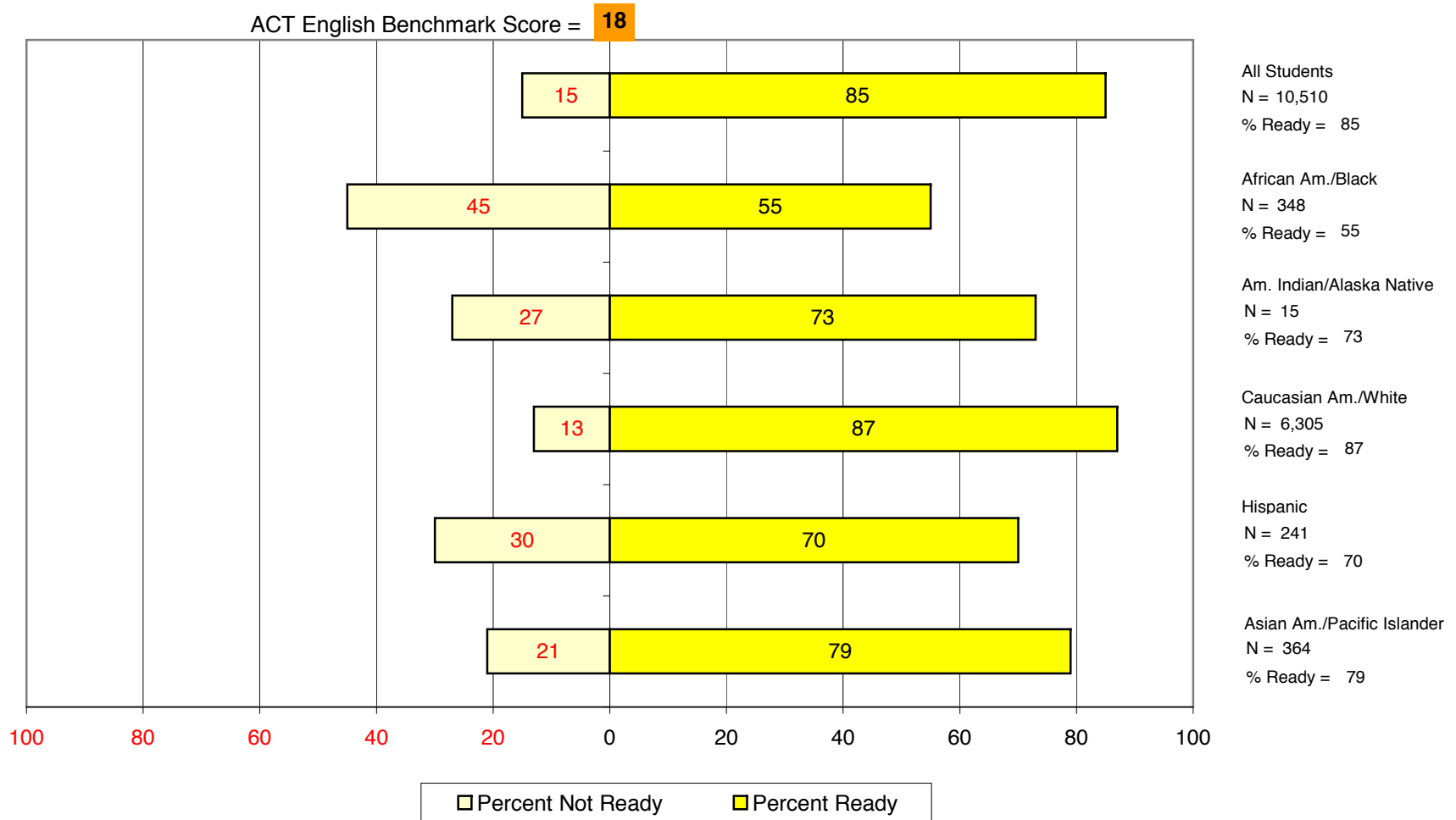


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

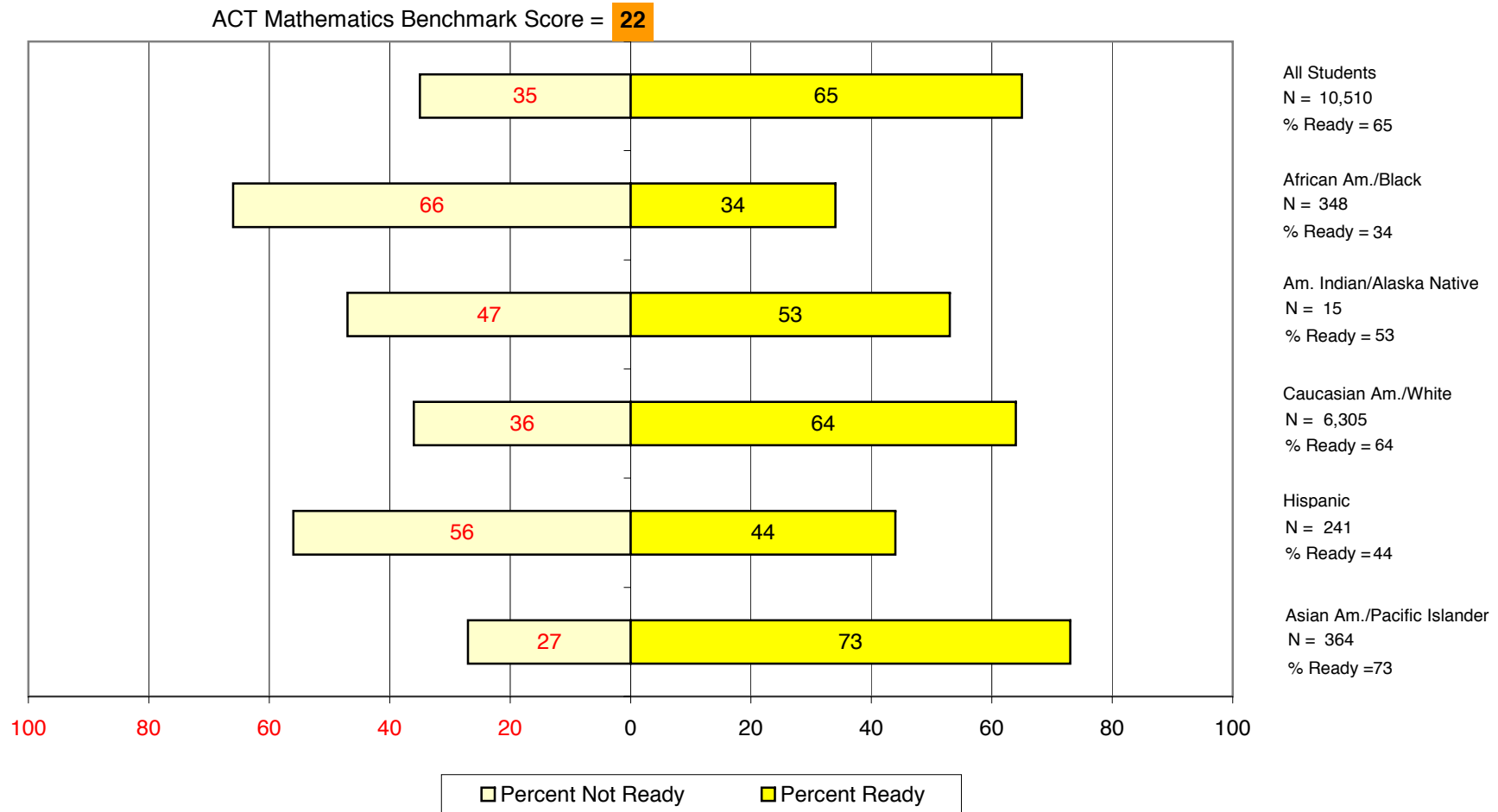


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: **READING**

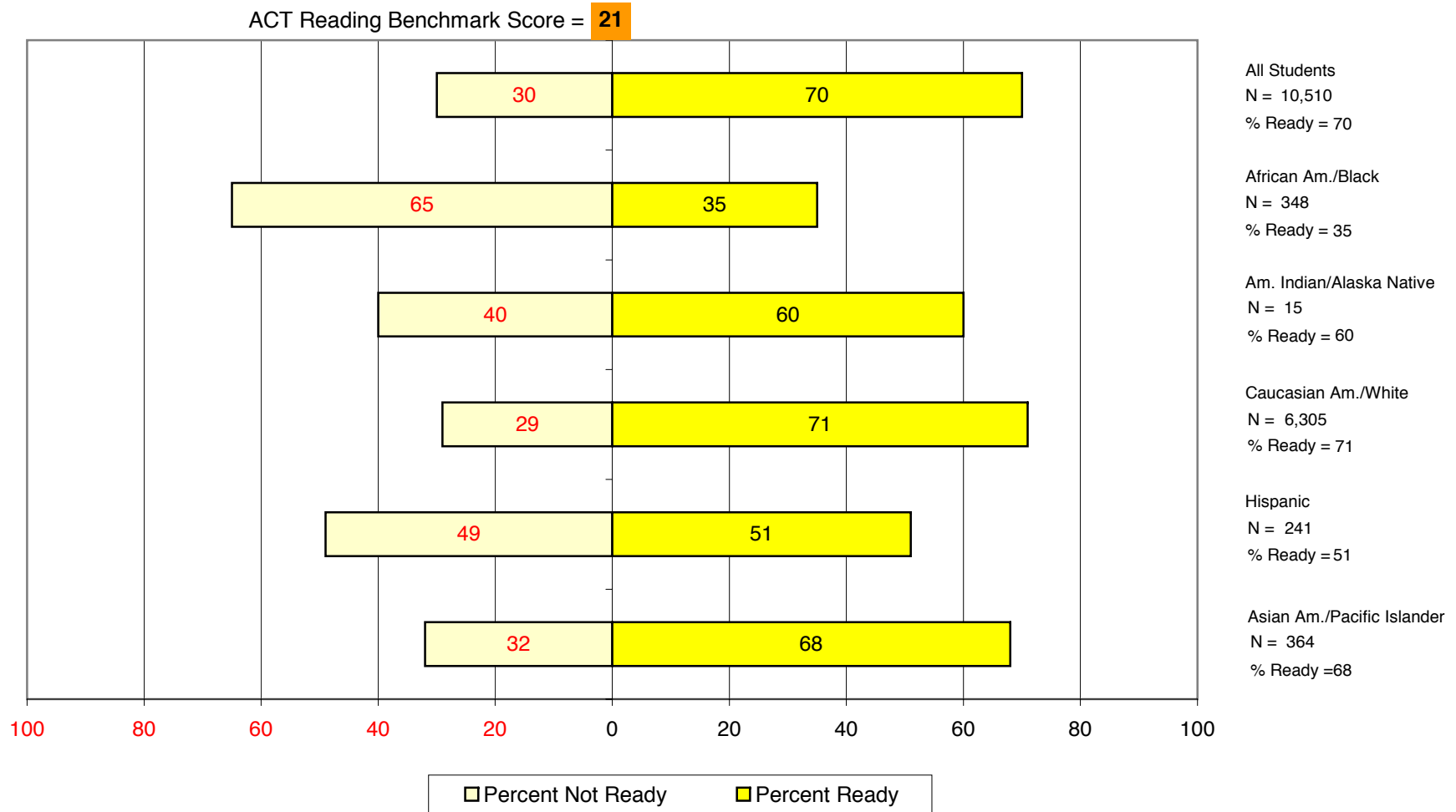


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

ACT Science Benchmark Score = 24

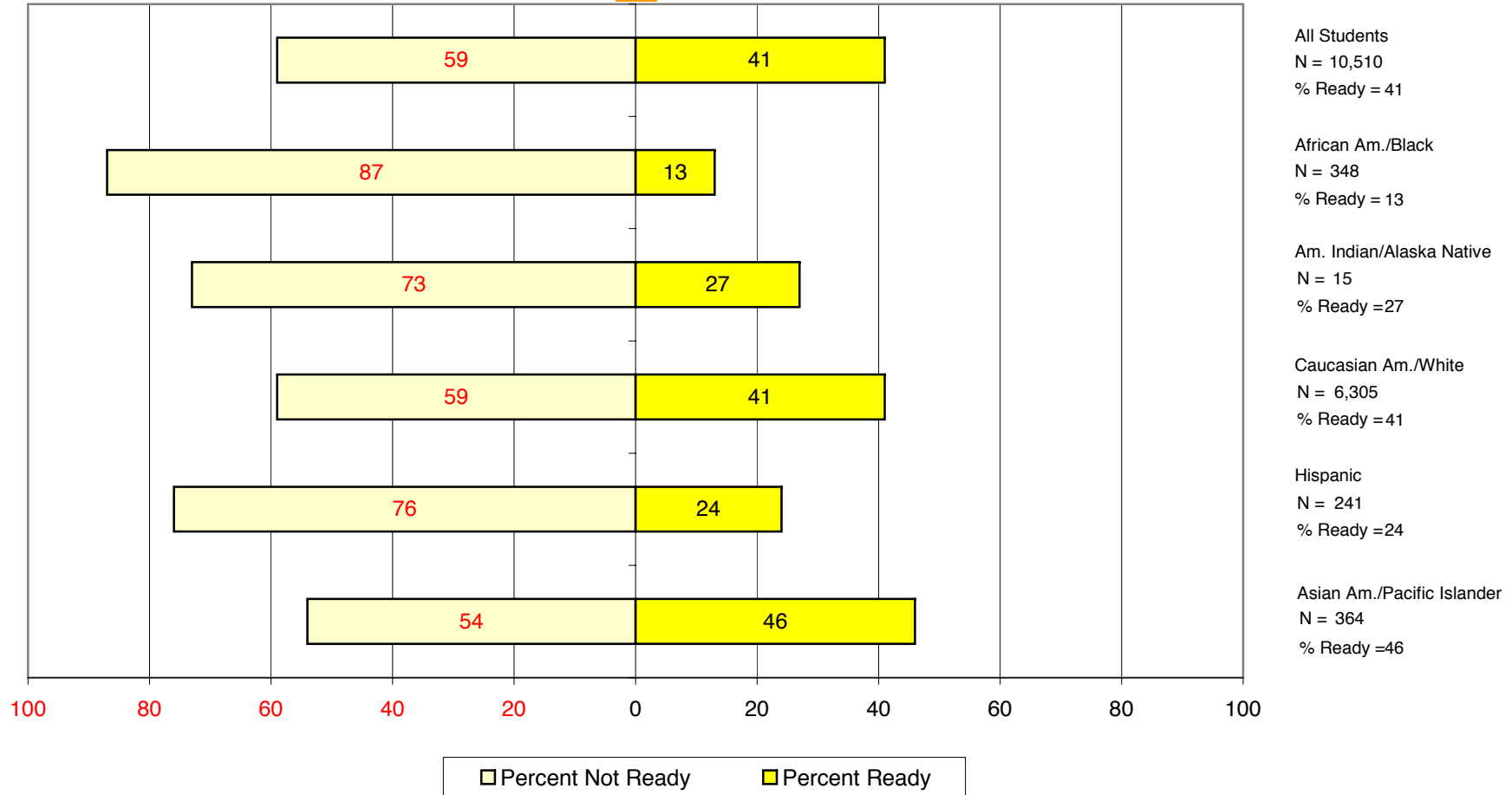


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

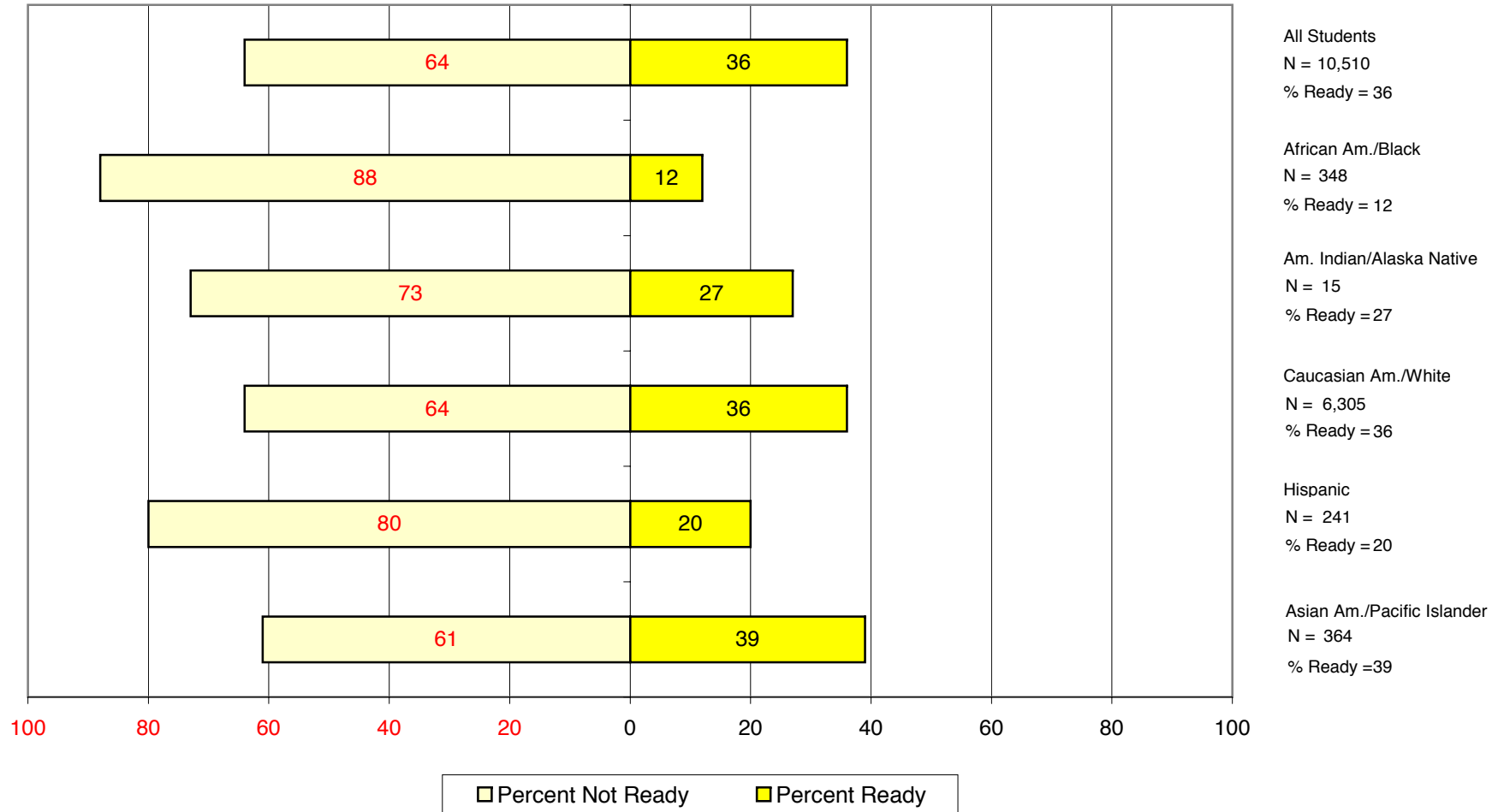


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	1,272	12	24.1	1.2	362	9	23.1	0.7	785	15	24.7	1.3
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	5,207	50	23.4	0.5	1,952	51	22.9	0.5	2,770	52	23.7	0.3
Less than 4 years of English	1,139	11	22.9	-	426	11	22.4	-	584	11	23.4	-
No English course/grade information reported	2,892	28	23.6	-	1,073	28	22.8	-	1,210	23	23.9	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	883	8	26.5	4.1	359	9	27.0	4.0	449	8	26.2	4.1
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	669	6	23.2	0.8	209	5	23.6	0.6	404	8	22.8	0.7
Alg 1, Alg 2, Geom, & Trig	670	6	21.4	-1.0	241	6	22.4	-0.6	360	7	20.8	-1.3
Alg 1, Alg 2, Geom, & Other Adv Math	1,114	11	21.8	-0.6	327	9	22.1	-0.9	683	13	21.5	-0.6
Other comb of 4 or more years of Math	2,160	21	25.7	3.3	875	23	26.5	3.5	1,081	20	25.0	2.9
Alg 1, Alg 2, & Geom (Min. Core)	697	7	19.4	-3.0	247	6	20.0	-3.0	382	7	19.1	-3.0
Other comb of 3 or 3.5 years of Math	540	5	23.6	1.2	183	5	24.0	1.0	309	6	23.1	1.0
Less than 3 years of Math	760	7	22.4	-	262	7	23.0	-	407	8	22.1	-
No Math course/grade information reported	3,017	29	23.8	-	1,110	29	24.4	-	1,274	24	23.1	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	406	4	24.9	0.9	180	5	23.9	0.1	197	4	26.0	1.9
Other comb of 4 or more years Social Science	1,036	10	23.6	-0.4	397	10	23.1	-0.7	528	10	24.0	-0.1
US Hist, World Hist, & Am Gov (Min. Core)	429	4	23.3	-0.7	186	5	22.6	-1.2	225	4	23.8	-0.3
Other comb of 3 or 3.5 years of Social Science	2,024	19	23.9	-0.1	672	18	23.4	-0.4	1,166	22	24.1	0.0
Less than 3 years of Social Science	3,534	34	24.0	-	1,229	32	23.8	-	1,945	36	24.1	-
No Soc Sci course/grade information reported	3,081	29	23.8	-	1,149	30	23.5	-	1,288	24	23.9	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	3,117	30	23.2	1.8	1,237	32	23.7	2.3	1,602	30	22.9	1.6
Bio, Chem, Phys	1,536	15	23.9	2.5	607	16	24.8	3.4	772	14	23.1	1.8
Gen Sci ² , Bio, Chem (Min. Core)	1,637	16	20.8	-0.6	462	12	20.6	-0.8	1,028	19	20.9	-0.4
Other comb of 3 years of Natural Science	128	1	21.9	0.5	61	2	22.2	0.8	51	1	21.4	0.1
Less than 3 years of Natural Science	963	9	21.4	-	286	8	21.4	-	571	11	21.3	-
No Nat Sci course/grade information reported	3,129	30	22.6	-	1,160	30	22.9	-	1,325	25	22.1	-

¹Course value added is defined as the average ACT score change compared to a less than core course sequence.

²Includes General, Physical and Earth Sciences.

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	1,272	12	24.1	89	191,202	15	22.2	79
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	5,207	50	23.4	85	766,001	59	20.5	68
Less than 4 years of English	1,139	11	22.9	83	141,777	11	19.7	64
No English course/grade information reported	2,892	28	23.6	86	201,619	16	20.7	69
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	883	8	26.5	87	75,970	6	24.8	75
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	669	6	23.2	65	87,647	7	22.4	58
Alg 1, Alg 2, Geom, & Trig	670	6	21.4	45	100,139	8	20.5	40
Alg 1, Alg 2, Geom, & Other Adv Math	1,114	11	21.8	52	163,562	13	20.4	38
Other comb of 4 or more years of Math	2,160	21	25.7	80	239,187	18	24.3	69
Alg 1, Alg 2, & Geom (Min. Core)	697	7	19.4	29	218,745	17	17.9	15
Other comb of 3 or 3.5 years of Math	540	5	23.6	67	57,945	4	20.9	43
Less than 3 years of Math	760	7	22.4	58	145,617	11	18.3	21
No Math course/grade information reported	3,017	29	23.8	66	211,787	16	21.1	44
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	406	4	24.9	77	31,985	2	22.7	61
Other comb of 4 or more years Social Science	1,036	10	23.6	69	448,356	34	22.0	56
US Hist, World Hist, & Am Gov (Min. Core)	429	4	23.3	68	72,952	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	2,024	19	23.9	70	333,689	26	21.4	52
Less than 3 years of Social Science	3,534	34	24.0	71	201,605	16	20.6	47
No Soc Sci course/grade information reported	3,081	29	23.8	69	212,012	16	21.5	53
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	3,117	30	23.2	46	333,648	26	22.4	40
Bio, Chem, Phys	1,536	15	23.9	53	115,297	9	23.4	48
Gen Sci ¹ , Bio, Chem (Min. Core)	1,637	16	20.8	25	353,348	27	20.2	20
Other comb of 3 years of Natural Science	128	1	21.9	35	32,593	3	20.4	24
Less than 3 years of Natural Science	963	9	21.4	30	247,312	19	19.1	15
No Nat Sci course/grade information reported	3,129	30	22.6	41	218,401	17	20.9	29

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Table 4.1. Distribution of Planned Educational Majors for All Students and 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	20	0	21.1	0	0	.	18	0	21.3
Architecture & Environmental Design	86	1	22.1	0	0	.	84	1	22.1
Business & Management	674	6	22.5	6	13	22.7	643	10	22.5
Business & Office	16	0	21.1	0	0	.	16	0	21.1
Marketing & Distribution	53	1	20.5	1	2	14.0	51	1	20.6
Communications & Comm. Technologies	224	2	23.8	1	2	14.0	208	3	23.8
Community & Personal Services	78	1	19.0	1	2	13.0	69	1	19.1
Computer & Information Sciences	69	1	23.5	0	0	.	63	1	23.4
Cross-Disciplinary Studies	25	0	26.8	0	0	.	23	0	26.8
Education	185	2	21.2	0	0	.	173	3	21.3
Teacher Education	70	1	21.6	0	0	.	64	1	21.9
Engineering	239	2	25.3	0	0	.	226	3	25.3
Engineering-Related Technologies	120	1	24.1	1	2	14.0	116	2	24.1
Foreign Languages	46	0	25.8	0	0	.	39	1	25.4
Health Sciences & Allied Health Fields	788	7	22.1	4	8	15.3	741	11	22.2
Human, Family & Consumer Science	23	0	21.9	2	4	17.5	19	0	22.6
Letters	50	0	25.6	0	0	.	48	1	25.8
Mathematics	41	0	26.5	1	2	13.0	40	1	26.8
Philosophy, Religion & Theology	18	0	23.4	0	0	.	16	0	23.8
Sciences (Biological & Physical)	420	4	25.3	2	4	18.5	398	6	25.2
Social Sciences	472	4	24.2	1	2	29.0	449	7	24.2
Trade & Industrial	18	0	18.7	5	10	16.4	13	0	19.6
Visual & Performing Arts	255	2	23.0	6	13	19.2	232	3	23.1
Undecided	1,451	14	23.0	6	13	22.5	1,311	20	23.0
No Response	5,069	48	23.9	11	23	16.7	1,642	25	23.8

¹2-Year and 4-Year N's do not reflect "Missing" and "Other" institution types, therefore they may not add up to the N for *All Students*.

²Percent of students tested.

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-Am./ Black		Am. Indian/ Alaska Native		Caucasian-Am./ White		Hispanic		Asian-Am./ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	11	16.5	1	13.0	0	.	6	17.2	1	13.0	1	15.0	2	18.5
2-yr College Degree	37	18.9	3	13.3	0	.	24	19.0	1	16.0	2	17.0	7	22.1
Bachelors Degree	2,126	21.4	53	16.8	3	19.7	1,511	21.5	43	20.7	55	20.6	461	21.7
Graduate Study	2,367	23.9	58	19.8	2	28.5	1,647	24.1	52	21.7	78	23.3	530	24.3
Prof. Level Degree	2,209	24.6	123	20.1	4	23.0	1,286	25.0	76	21.1	130	25.0	590	24.9
Other	122	20.7	12	16.0	0	.	74	21.6	3	18.7	1	16.0	32	21.0
No Response	3,638	24.0	98	19.0	6	19.8	1,757	23.8	65	20.5	97	24.8	1,615	24.6

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	924	238	686	1	3	17	37	29	13	1
NORTHEASTERN UNIVERSITY	Massachusetts	686	191	495	0	3	14	33	35	14	1
BOSTON UNIVERSITY	Massachusetts	595	207	388	1	3	11	26	35	24	1
BOSTON COLLEGE	Massachusetts	536	248	288	0	3	10	24	36	25	1
UNIV OF MASSACHUSETTS-DARTMOUTH	Massachusetts	300	68	232	1	8	32	39	17	3	0
UNIVERSITY OF NEW HAMPSHIRE	New Hampshire	285	41	244	0	5	18	40	30	7	0
TUFTS UNIVERSITY	Massachusetts	261	70	191	0	2	8	12	33	42	4
QUINNIPIAC UNIVERSITY	Connecticut	250	61	189	0	2	14	39	36	8	0
UNIVERSITY OF CONNECTICUT	Connecticut	235	51	184	0	4	16	33	34	13	1
WESTFIELD STATE COLLEGE	Massachusetts	232	45	187	0	8	40	38	12	2	0
BRIDGEWATER STATE COLLEGE	Massachusetts	229	62	167	0	9	41	37	11	1	0
UNIV OF MASSACHUSETTS LOWELL	Massachusetts	217	43	174	0	6	34	35	18	6	0
WORCESTER STATE COLLEGE	Massachusetts	205	60	145	2	15	40	31	11	1	0
UNIVERSITY OF RHODE ISLAND	Rhode Island	197	30	167	0	4	28	39	24	6	0
STONEHILL COLLEGE	Massachusetts	188	45	143	0	1	18	39	29	13	0
SALEM STATE COLLEGE	Massachusetts	186	36	150	1	13	41	34	10	1	0
BROWN UNIVERSITY	Rhode Island	185	53	132	1	1	3	11	36	43	4
UNIVERSITY OF VERMONT	Vermont	184	37	147	0	2	12	28	36	22	1
PROVIDENCE COLLEGE	Rhode Island	182	27	155	0	2	7	30	42	19	1
BENTLEY COLLEGE	Massachusetts	176	60	116	0	3	11	42	30	14	0
SUFFOLK UNIVERSITY	Massachusetts	175	32	143	0	8	33	39	17	3	0
ASSUMPTION COLLEGE	Massachusetts	166	46	120	1	5	35	37	14	7	1
FITCHBURG STATE COLLEGE	Massachusetts	165	34	131	1	11	38	36	12	2	1
WORCESTER POLYTECHNIC INST	Massachusetts	164	52	112	0	1	9	24	36	26	4
UNIV OF MASSACHUSETTS BOSTON	Massachusetts	157	21	136	1	9	35	34	14	7	0
SALVE REGINA UNIVERSITY	Rhode Island	154	37	117	1	6	25	44	21	4	0
ROGER WILLIAMS UNIVERSITY	Rhode Island	149	38	111	2	4	23	43	25	3	0
ENDICOTT COLLEGE	Massachusetts	145	31	114	2	6	33	38	16	6	0
SAINT ANSELM COLLEGE	New Hampshire	142	32	110	0	1	22	39	29	9	0
FRAMINGHAM STATE COLLEGE	Massachusetts	141	21	120	0	11	37	36	12	4	0
All Other Institutions		8,709	2,233	6,476	1	5	18	28	27	19	2
Total		16,520	4,250	12,270	1	5	19	31	27	16	2

Section V

Optional Writing Test Results

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	8,233	532,943	24.2	22.3	8.4	7.6	24.0	21.8
African Am./Black	255	50,340	19.8	17.2	7.8	6.7	20.2	17.3
Am. Indian/Alaska Native	9	3,462	21.4	19.8	7.7	7.0	21.4	19.4
Caucasian Am./White	4,865	308,578	24.2	23.4	8.4	7.6	24.0	22.6
Hispanic	185	42,588	21.5	18.8	8.1	7.3	21.7	19.0
Asian Am./Pacific Islander	303	25,616	23.6	23.2	8.5	8.0	23.6	22.8
Other/No Response	2,616	102,359	24.9	23.2	8.4	7.8	24.5	22.7
Males	2,876	204,427	23.7	22.0	8.2	7.3	23.4	21.3
Females	4,280	285,556	24.5	22.5	8.5	7.7	24.3	22.1
Missing	1,077	42,960	24.3	23.0	8.5	7.8	24.2	22.6

