

ACT Profile Report - State

Graduating Class 2011
Pennsylvania



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This report provides information about the performance of your 2011 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2011 and tested under standard time conditions.

This report focuses on:

Performance - student test performance in the context of college readiness

Access - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

College Readiness - percent of students meeting ACT College Readiness Benchmark Scores in each content area

Awareness - extent to which student aspirations match performance

Articulation - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students meeting or exceeding ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

The ACT is a curriculum-based measure of college readiness. ACT components include:

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

The ACT:

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at www.act.org/standard/infoserv.html.

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores are:

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

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

33% 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: 24,280 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. 79% 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 2% of the cohort took less than three years of math courses. Of these students, 11% were college ready. 7% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 12% of these students were college ready. In comparison, 64% 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. 13% of these students were college ready. In comparison, 39% 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 33% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at www.act.org/standard.

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

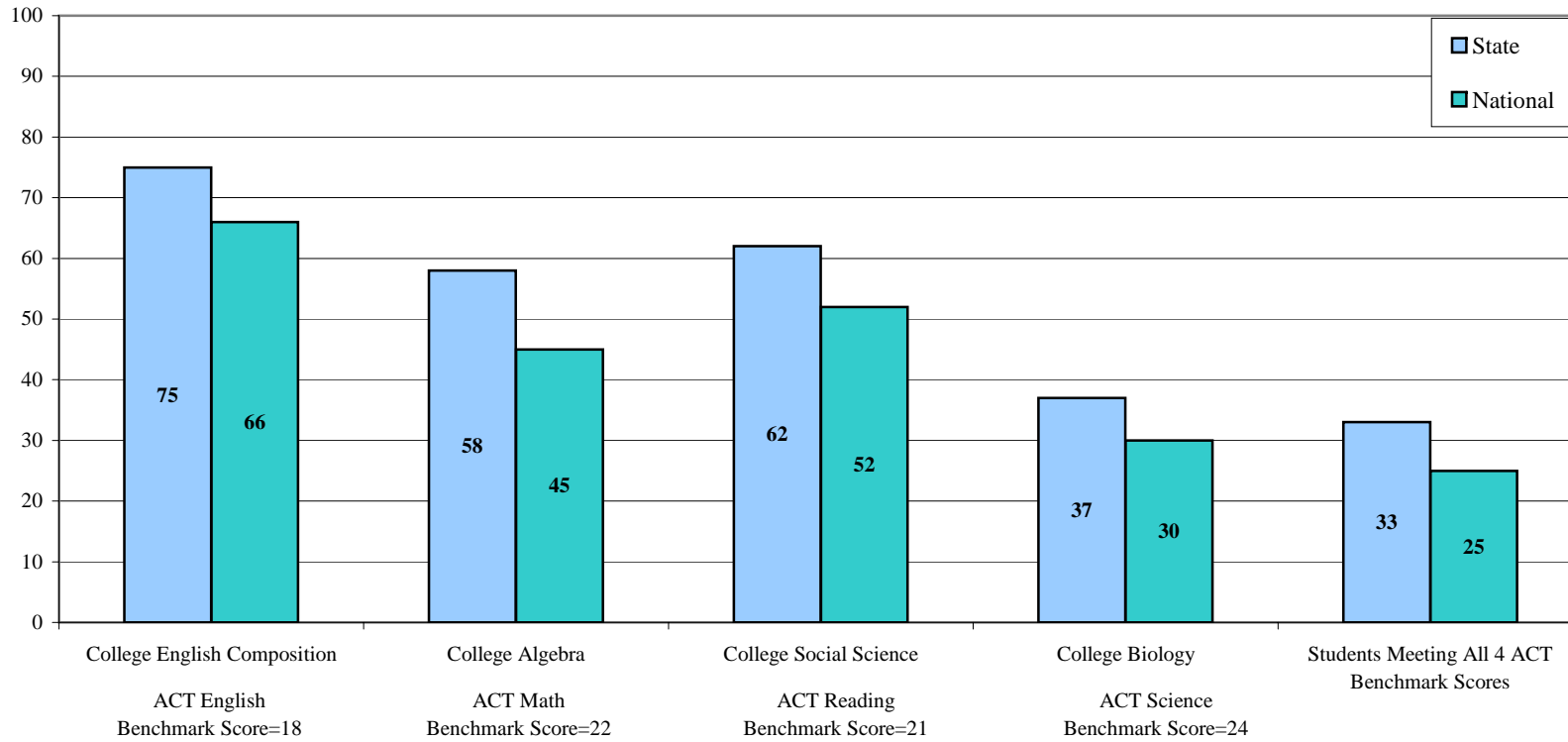
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 508-229-0111.

Section I

Executive Summary

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

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: 24,280

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

Year	Number of Students Tested		Percent Meeting Benchmarks									
			English		Mathematics		Reading		Science		Meeting All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2007	15,905	1,300,599	75	69	51	43	59	53	32	28	27	23
2008	19,439	1,421,941	76	68	54	43	61	53	34	28	29	22
2009	21,199	1,480,469	74	67	52	42	60	53	33	28	29	23
2010	24,323	1,568,835	72	66	53	43	58	52	34	29	30	24
2011	24,280	1,623,112	75	66	58	45	62	52	37	30	33	25

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2007	15,905	1,300,599	21.5	20.7	21.9	21.0	22.4	21.5	21.5	21.0	22.0	21.2
2008	19,439	1,421,941	21.8	20.6	22.3	21.0	22.5	21.4	21.6	20.8	22.2	21.1
2009	21,199	1,480,469	21.7	20.6	22.2	21.0	22.4	21.4	21.5	20.9	22.1	21.1
2010	24,323	1,568,835	21.3	20.5	22.1	21.0	22.1	21.3	21.4	20.9	21.9	21.0
2011	24,280	1,623,112	21.9	20.6	22.6	21.1	22.6	21.3	21.8	20.9	22.3	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2007	1,300,599	20.7	21.0	21.5	21.0	21.2
2008	1,421,941	20.6	21.0	21.4	20.8	21.1
2009	1,480,469	20.6	21.0	21.4	20.9	21.1
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
2011	1,623,112	20.6	21.1	21.3	20.9	21.1

Total Students in Report: 24,280

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

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2007	8,365	4,882	53	31	22.1	20.6	22.4	21.2	22.9	21.6	22.0	20.9	22.5	21.2
2008	12,948	4,807	67	25	22.2	20.8	22.6	21.3	22.9	21.7	22.0	20.8	22.6	21.2
2009	16,501	4,099	78	19	22.3	20.0	22.7	20.7	23.0	20.9	22.0	20.1	22.6	20.6
2010	17,791	4,541	73	19	22.4	19.8	22.8	20.8	23.0	20.8	22.2	20.1	22.7	20.5
2011	19,185	4,264	79	18	22.4	20.5	23.0	21.4	23.0	21.3	22.2	20.6	22.8	21.1

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

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

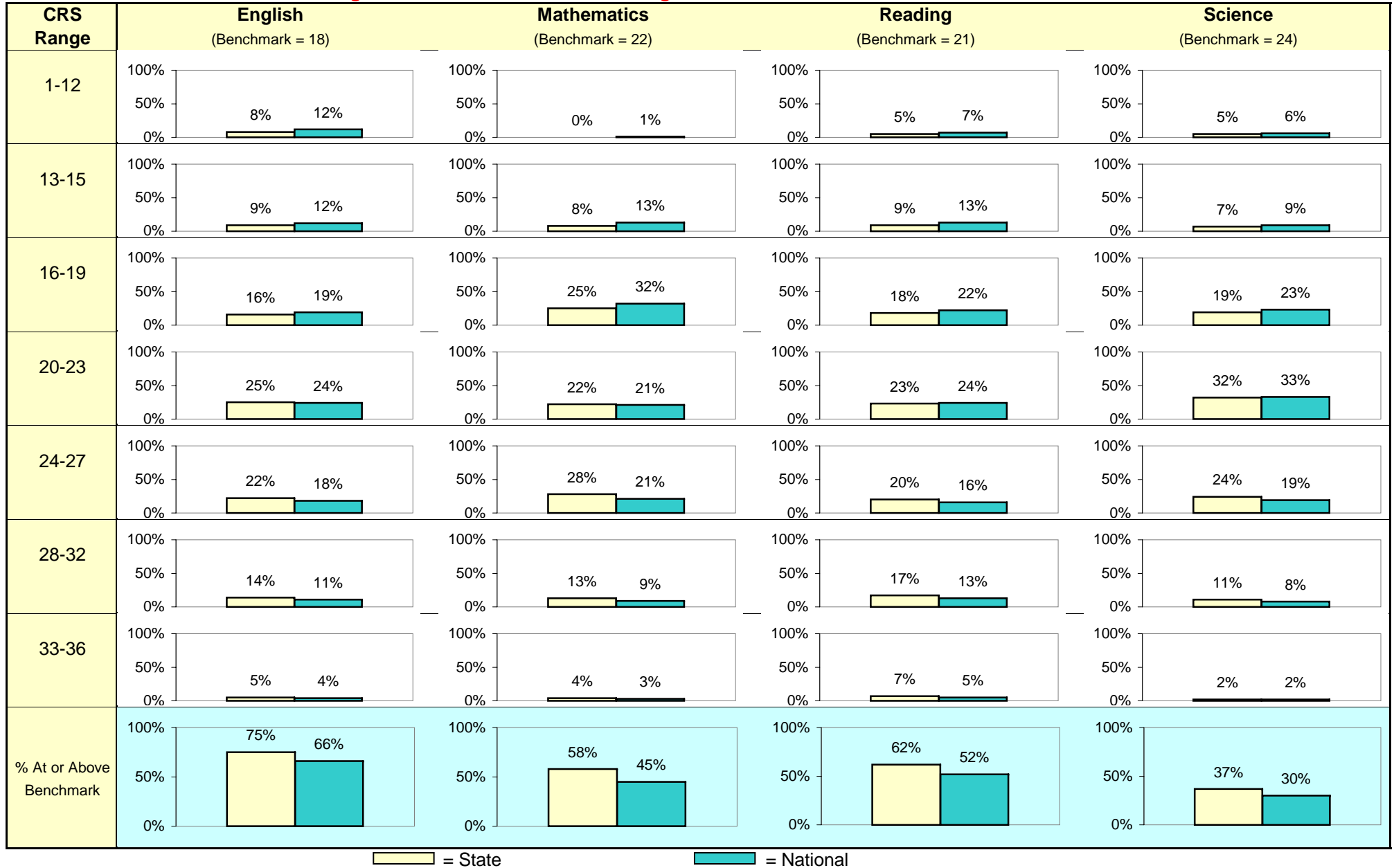
Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity¹

	2007			2008			2009			2010			2011		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	15,905	100	22.0	19,439	100	22.2	21,199	100	22.1	24,323	100	21.9	24,280	100	22.3
Black/African American	1,302	8	16.8	1,617	8	16.8	2,309	11	16.6	3,445	14	16.1	2,738	11	16.8
American Indian/Alaska Native	31	0	20.4	30	0	19.7	46	0	22.3	50	0	20.3	39	0	18.7
White	10,830	68	22.4	14,327	74	22.6	15,935	75	22.8	17,175	71	23.2	17,987	74	23.2
Hispanic/Latino	280	2	19.5	357	2	20.0	558	3	19.4	667	3	18.9	843	3	20.3
Asian	327	2	23.3	500	3	24.1	663	3	23.7	917	4	22.8	971	4	23.9
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	0	0	.	7	0	22.9
Two or more races	211	1	21.2	272	1	20.9	330	2	21.0	483	2	20.7	507	2	21.1
Prefer not to respond/No response	2,924	18	22.9	2,336	12	23.7	1,358	6	23.0	1,586	7	21.3	1,188	5	22.4

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

Total Students in Report: 24,280

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



Section II

Academic Achievement

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

Total Students in Report: 24,280

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	72	100	107	100	206	100	73	100	6	100	36
35	425	100	206	100	264	99	117	100	66	100	35
34	368	98	400	99	540	98	93	99	159	100	34
33	452	96	330	97	663	96	268	99	291	99	33
32	490	95	460	96	696	93	282	98	410	98	32
31	671	93	441	94	799	90	207	97	609	96	31
30	560	90	525	92	982	87	462	96	743	94	30
29	770	87	749	90	695	83	558	94	859	91	29
28	948	84	1,090	87	946	80	1,129	92	1,108	87	28
27	1,136	80	1,373	82	957	76	852	87	1,289	82	27
26	1,133	76	1,660	77	960	72	1,333	83	1,382	77	26
25	1,306	71	1,766	70	1,179	68	1,563	78	1,540	71	25
24	1,742	66	1,899	62	1,731	63	2,138	71	1,765	65	24
23	1,194	59	1,762	55	1,159	56	2,208	63	1,731	58	23
22	1,754	54	1,304	47	1,633	51	1,511	54	1,800	51	22
21	1,746	46	1,030	42	1,552	45	2,203	47	1,636	43	21
20	1,412	39	1,198	38	1,306	38	1,905	38	1,484	37	20
19	1,125	33	1,100	33	1,350	33	1,418	30	1,431	30	19
18	871	29	1,419	28	1,190	27	1,436	25	1,201	25	18
17	891	25	1,509	22	1,033	23	881	19	1,145	20	17
16	1,030	21	1,976	16	883	18	777	15	982	15	16
15	984	17	1,213	8	744	15	739	12	834	11	15
14	731	13	435	3	1,007	12	531	9	660	7	14
13	436	10	234	1	505	7	481	7	528	5	13
12	448	8	57	1	578	5	387	5	361	3	12
11	488	7	23	1	368	3	279	3	171	1	11
10	379	5	8	1	165	1	257	2	64	1	10
9	303	3	2	1	97	1	107	1	15	1	9
8	227	2	4	1	42	1	41	1	5	1	8
7	111	1	0	1	23	1	5	1	5	1	7
6	51	1	0	1	13	1	17	1	0	1	6
5	18	1	0	1	6	1	7	1	0	1	5
4	7	1	0	1	2	1	7	1	0	1	4
3	0	1	0	1	3	1	7	1	0	1	3
2	0	1	0	1	3	1	0	1	0	1	2
1	1	1	0	1	0	1	1	1	0	1	1
Avg (SD)	21.9 (6.4)		22.6 (5.3)		22.6 (6.3)		21.8 (5.1)		22.3 (5.2)		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: 24,280

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

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	1,090	100	496	100	892	100	845	100	1,498	100	355	100	566	100	18
17	1,606	96	24	98	1,172	96	2,186	97	1,358	94	377	99	29	98	17
16	1,392	89	1,871	98	1,992	91	2,008	88	1,490	88	919	97	955	98	16
15	1,875	83	2,161	90	1,507	83	2,086	79	1,989	82	1,147	93	2,120	94	15
14	1,478	75	2,018	81	1,514	77	1,517	71	2,425	74	2,653	88	2,672	85	14
13	1,884	69	2,204	73	1,990	71	2,063	64	2,857	64	3,486	78	2,746	74	13
12	1,742	62	2,875	64	2,953	63	2,004	56	1,789	52	2,466	63	2,629	63	12
11	2,550	54	2,861	52	2,232	50	2,404	48	2,690	45	3,448	53	3,063	52	11
10	2,710	44	2,453	40	2,351	41	1,818	38	1,891	34	2,934	39	2,821	39	10
9	1,747	33	2,277	30	2,082	32	1,792	30	1,404	26	2,901	27	2,491	28	9
8	1,487	26	1,576	21	1,735	23	1,507	23	2,008	20	1,547	15	1,625	17	8
7	1,316	19	1,184	14	1,659	16	1,207	17	1,763	12	877	8	1,054	11	7
6	1,245	14	769	9	885	9	1,360	12	729	5	313	5	730	6	6
5	857	9	539	6	651	5	893	6	194	2	439	4	177	3	5
4	608	5	580	4	356	3	338	2	119	1	119	2	348	2	4
3	467	3	323	2	186	1	176	1	55	1	189	1	57	1	3
2	198	1	59	1	82	1	75	1	19	1	39	1	154	1	2
1	28	1	10	1	41	1	1	1	2	1	71	1	43	1	1
Avg (SD)	11.2 (4.0)		11.2 (3.4)		11.4 (3.6)		11.7 (3.8)		12.0 (3.5)		11.3 (2.9)		11.3 (3.1)		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)	26	26	27	25	26
Q2 (50th Percentile)	22	23	22	22	22
Q1 (25th Percentile)	17	18	18	19	19

Total Students in Report: 24,280

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

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ²	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	24,280	79	22.8	21.1
	Black/African American	2,738	62	17.3	16.1
	American Indian/Alaska Native	39	67	20.0	16.8
	White	17,987	83	23.4	22.4
	Hispanic/Latino	843	72	20.9	18.7
	Asian	971	74	24.3	23.1
	Native Hawaiian/Other Pac. Isl.	7	57	25.5	19.3
	Two or more races	507	73	21.5	21.3
	Prefer not/No Response	1,188	77	23.1	21.3
National	All Students	1,623,112	74	21.9	19.0
	Black/African American	223,383	69	17.5	15.9
	American Indian/Alaska Native	14,970	63	19.7	17.1
	White	981,585	76	23.1	20.3
	Hispanic/Latino	200,661	72	19.4	17.2
	Asian	66,650	81	24.1	21.9
	Native Hawaiian/Other Pac. Isl.	2,244	78	20.0	17.8
	Two or more races	46,378	72	21.8	19.3
	Prefer not/No Response	87,241	65	22.1	18.7

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

²"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.5. Average ACT Scores by Race/Ethnicity¹

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.9	22.6	22.6	21.8	22.3
	Black/African American	15.5	17.7	16.9	16.6	16.8
	American Indian/Alaska Native	17.5	19.3	19.2	18.5	18.7
	White	23.0	23.3	23.5	22.6	23.2
	Hispanic/Latino	19.6	20.6	20.7	19.8	20.3
	Asian	22.9	26.2	22.9	23.1	23.9
	Native Hawaiian/Other Pac. Isl.	21.4	23.3	23.3	22.7	22.9
	Two or more races	20.5	21.0	21.7	20.7	21.1
	Prefer not/No Response	22.0	22.8	22.7	21.7	22.4
National	All Students	20.6	21.1	21.3	20.9	21.1
	Black/African American	15.9	17.2	17.0	17.1	17.0
	American Indian/Alaska Native	17.5	18.6	19.1	18.9	18.6
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.6	19.2	18.9	18.8	18.7
	Asian	22.8	25.1	22.9	23.1	23.6
	Native Hawaiian/Other Pac. Isl.	18.6	19.9	19.4	19.5	19.5
	Two or more races	20.7	20.7	21.6	20.9	21.1
	Prefer not/No Response	20.2	20.9	21.0	20.4	20.7

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

Total Students in Report: 24,280

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	1,317	5	1,043	4	1,673	7	551	2
	28 to 32	3,439	14	3,265	13	4,118	17	2,638	11
	24 to 27	5,317	22	6,698	28	4,827	20	5,886	24
	20 to 23	6,106	25	5,294	22	5,650	23	7,827	32
	16 to 19	3,917	16	6,004	25	4,456	18	4,512	19
	13 to 15	2,151	9	1,882	8	2,256	9	1,751	7
	01 to 12	2,033	8	94	0	1,300	5	1,115	5
National	33 to 36	68,159	4	49,703	3	81,236	5	32,031	2
	28 to 32	174,801	11	144,331	9	211,084	13	130,969	8
	24 to 27	286,161	18	344,894	21	265,974	16	316,182	19
	20 to 23	394,076	24	332,913	21	382,505	24	530,056	33
	16 to 19	309,855	19	525,628	32	360,259	22	366,855	23
	13 to 15	201,235	12	217,338	13	214,265	13	153,754	9
	01 to 12	188,825	12	8,305	1	107,789	7	93,265	6

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	10,218	42	21.5	23.4	22.3	22.3	22.5
	Females	14,057	58	22.2	22.0	22.8	21.4	22.2
	Missing	5	0	23.6	22.0	24.0	22.4	23.2
National	Males	739,070	46	20.2	21.6	21.1	21.4	21.2
	Females	879,957	54	20.9	20.6	21.4	20.5	21.0
	Missing	4,085	0	16.4	17.8	17.7	17.8	17.6

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

Student Group	Gender	Percent of Students				Meet All Four
		English	Mathematics	Reading	Science	
State	Males	73	63	59	43	37
	Females	76	54	63	33	29
National	Males	64	49	51	34	28
	Females	69	41	53	26	22

Total Students in Report: 24,280

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	19,185	79	22.4	62	23.0	65	23.0	40	22.2	35	22.8
	Less than Core	4,264	63	20.5	47	21.4	52	21.3	31	20.6	27	21.1
	Missing ³	831	45	17.2	30	19.2	32	18.3	15	18.0	13	18.3
National	Core or More	1,202,164	72	21.5	51	21.8	57	22.0	34	21.6	29	21.9
	Less than Core	366,518	51	18.3	27	19.0	38	19.3	17	19.0	13	19.0
	Missing	54,430	38	16.3	21	18.0	27	17.7	12	17.7	9	17.5

¹ "Curriculum Taken" reflects overall high school curriculum in this table.

² "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

³ Zero years or no coursework information reported in one or more content areas.

⁴ Composite CRB% results reflect students who meet all four subject-area benchmarks.

Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More ²	23,063	76	22.2	22,958	60	22.8	20,476	63	22.8	22,473	39	22.1
	Less than Core	445	47	17.8	525	11	17.0	3,016	57	22.0	1,017	13	18.3
	Missing ³	772	45	17.3	797	30	19.2	788	33	18.4	790	16	18.1
National	Core or More	1,510,179	68	20.9	1,494,425	47	21.4	1,424,252	54	21.6	1,367,777	33	21.4
	Less than Core	66,225	40	16.6	79,145	8	16.4	149,746	40	19.7	205,148	12	18.3
	Missing	46,708	39	16.5	49,542	21	18.1	49,114	28	17.9	50,187	13	17.8

¹ "Curriculum Taken" reflects content-specific curriculum in this table.

² "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

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

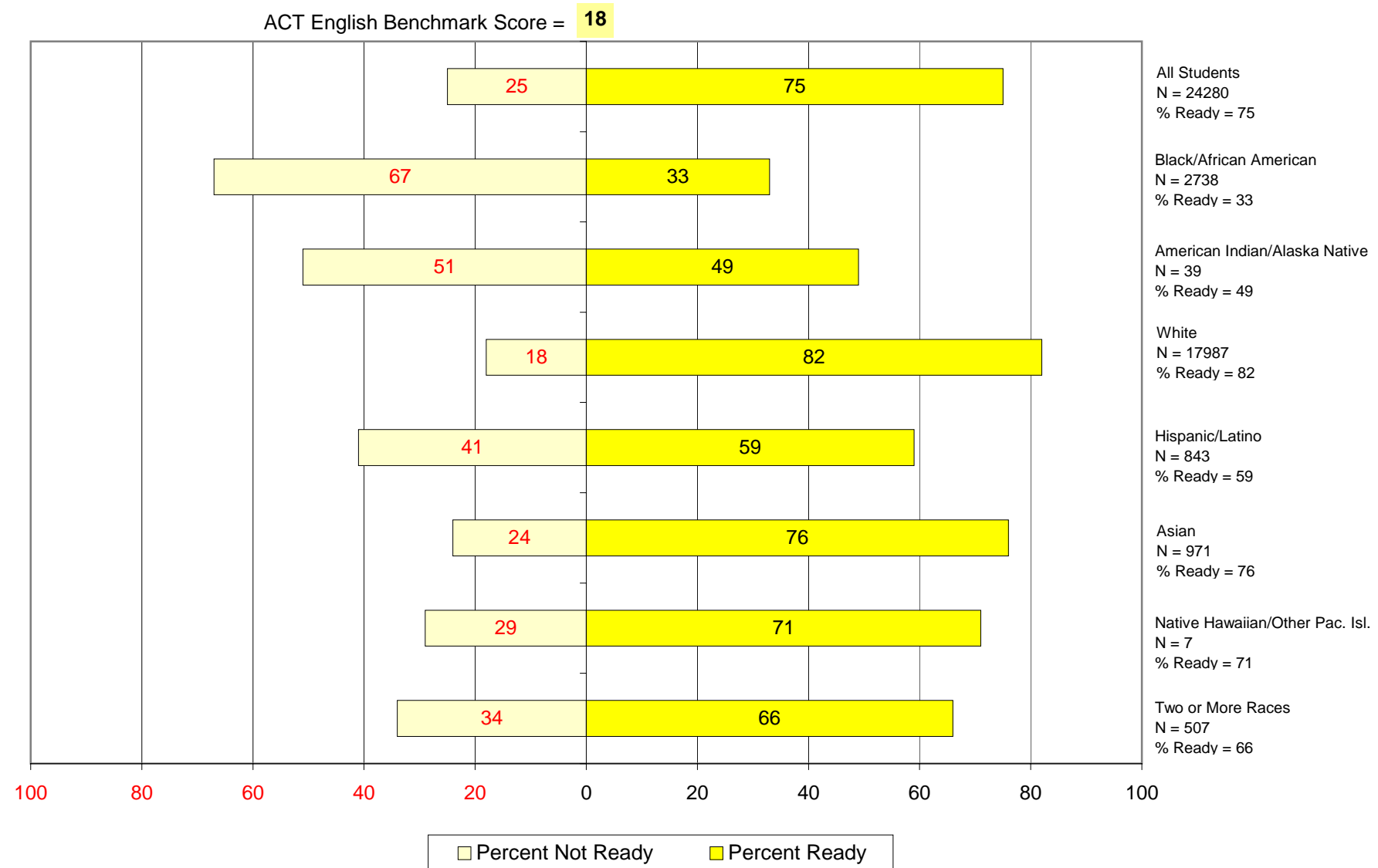
Section III

College Readiness and the Impact of Course Rigor

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

Total Students in Report: 24,280

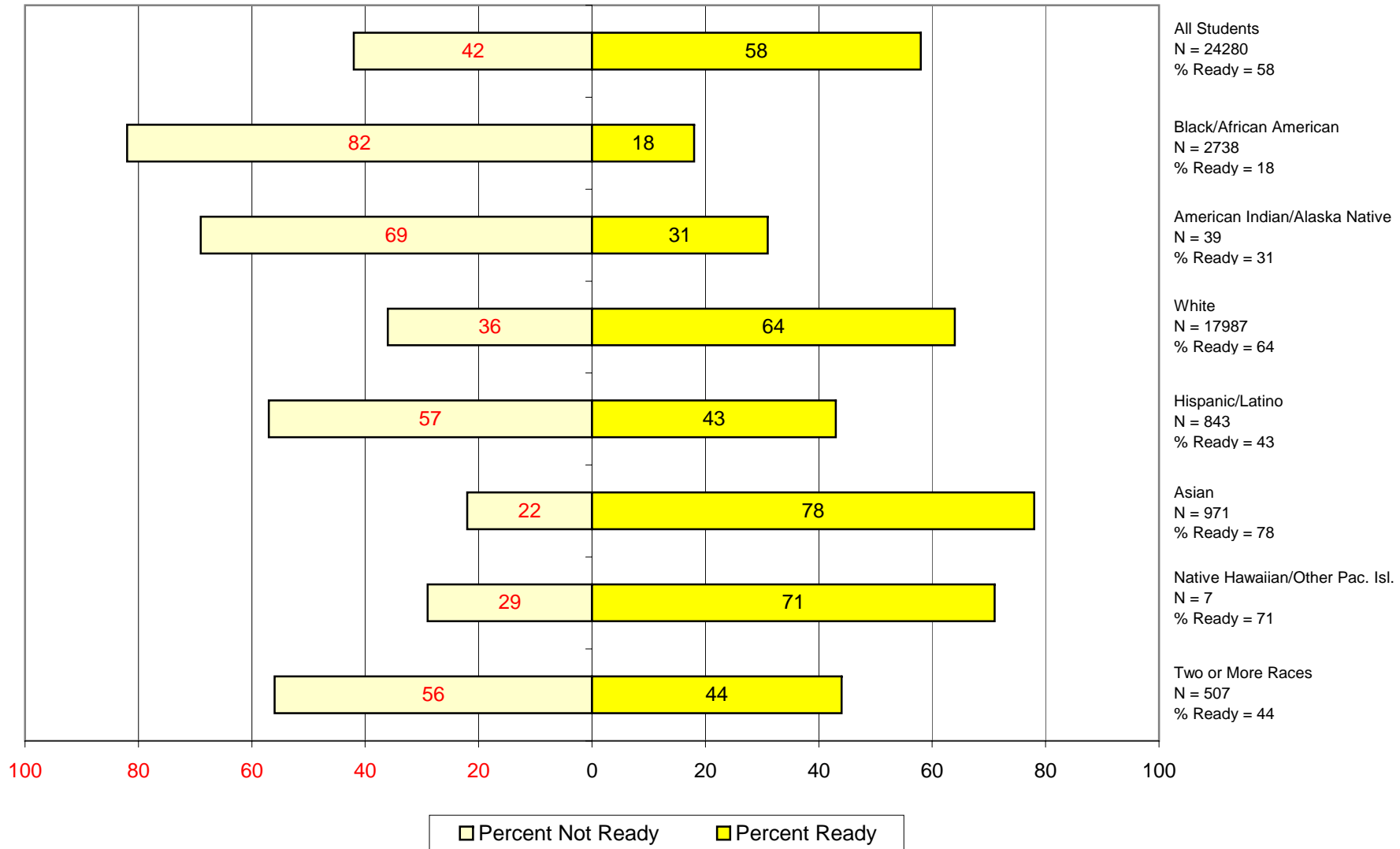
Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: ENGLISH



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

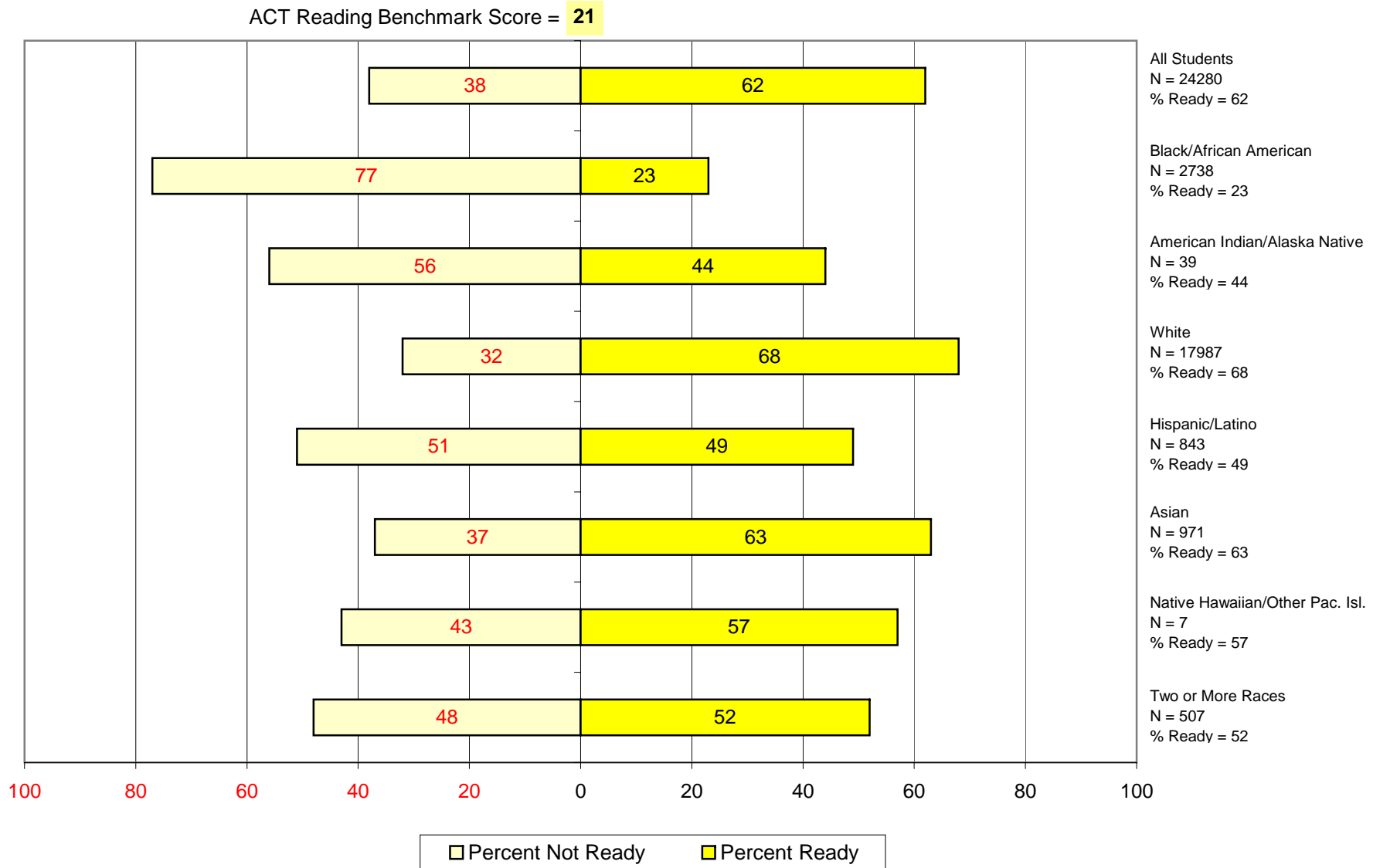
Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: MATHEMATICS

ACT Mathematics Benchmark Score = **22**



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

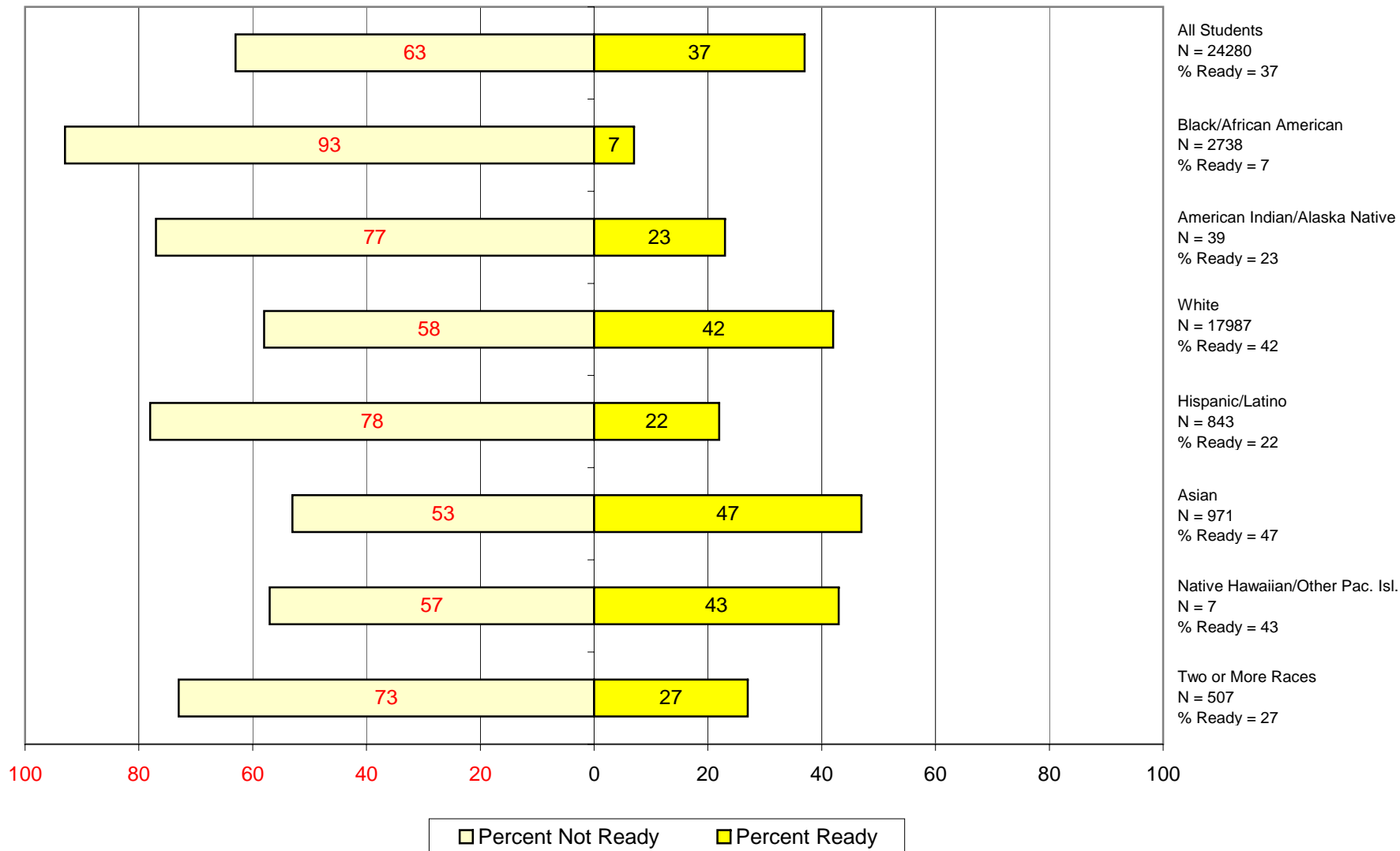
Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity¹: READING



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

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

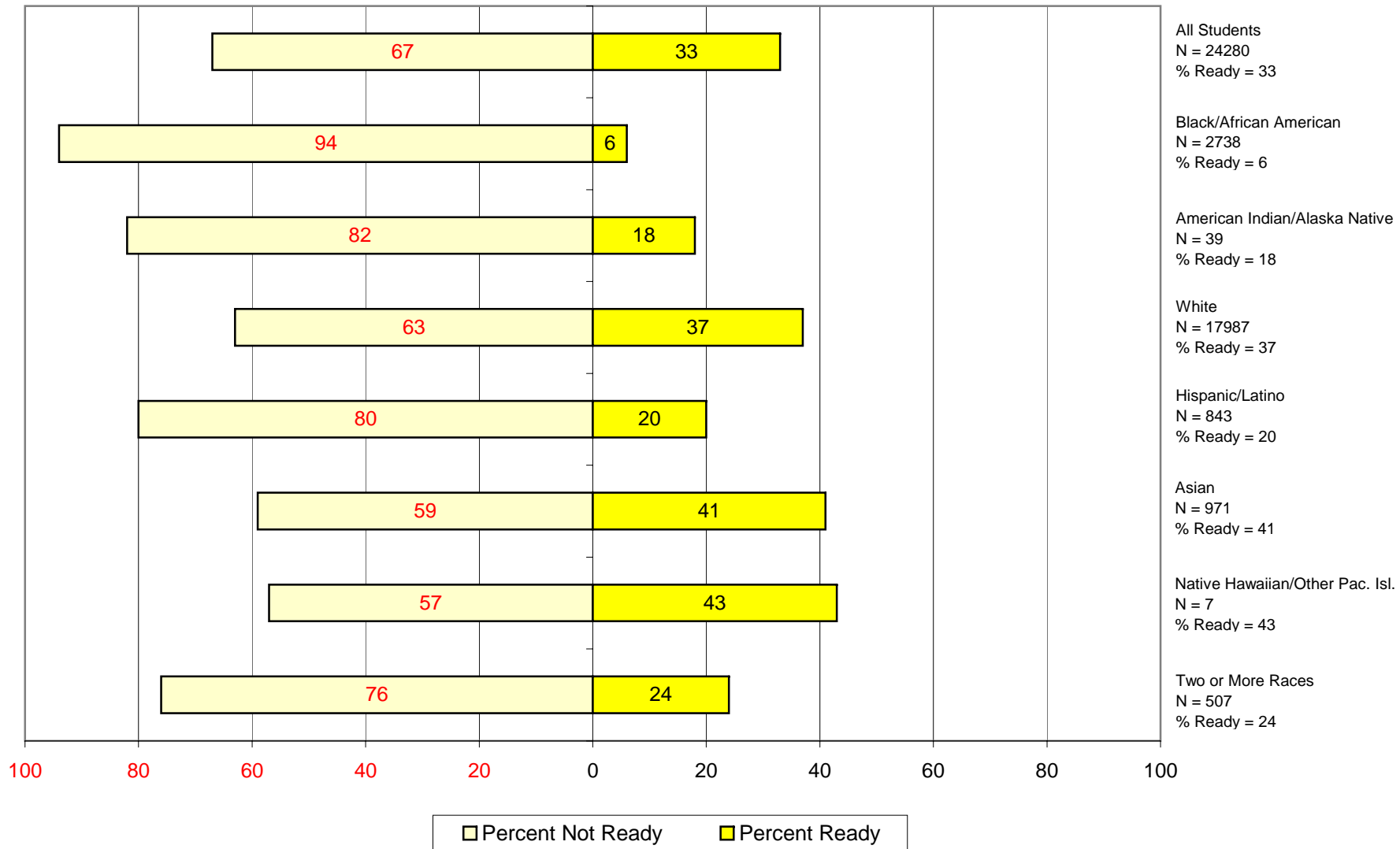
ACT Science Benchmark Score = **24**



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

Total Students in Report: 24,280

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



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

Total Students in Report: 24,280

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	5,421	22	22.7	4.9	2,106	21	22.2	4.2	3,314	24	23.0	5.4
Eng 9, Eng 10, Eng 11, Eng 12	17,642	73	22.0	4.2	7,529	74	21.7	3.7	10,111	72	22.2	4.6
Less than 4 years of English	445	2	17.8	-	196	2	18.0	-	249	2	17.6	-
Zero years / no English courses reported	772	3	17.3	-	387	4	16.8	-	383	3	17.7	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	2,950	12	25.0	8.0	1,153	11	25.6	8.2	1,796	13	24.6	7.8
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,340	10	21.9	4.9	792	8	22.4	5.0	1,547	11	21.7	4.9
Alg 1, Alg 2, Geom, & Trig	1,940	8	20.1	3.1	718	7	20.5	3.1	1,222	9	19.8	3.0
Alg 1, Alg 2, Geom, & Other Adv Math	2,249	9	19.8	2.8	728	7	20.0	2.6	1,521	11	19.7	2.9
Other comb of 4 or more years of Math	10,670	44	24.7	7.7	5,135	50	25.4	8.0	5,535	39	24.0	7.2
Alg 1, Alg 2, & Geom	1,749	7	17.4	0.4	631	6	17.5	0.1	1,117	8	17.4	0.6
Other comb of 3 or 3.5 years of Math	1,060	4	20.8	3.8	459	4	21.1	3.7	601	4	20.5	3.7
Less than 3 years of Math	525	2	17.0	-	207	2	17.4	-	318	2	16.8	-
Zero years / no Math courses reported	797	3	19.2	-	395	4	19.4	-	400	3	19.0	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	1,765	7	22.8	0.8	851	8	22.0	0.2	914	7	23.6	1.6
Other comb of 4 or more years Social Science	11,948	49	22.9	0.9	5,046	49	22.6	0.8	6,901	49	23.1	1.1
US Hist, World Hist, & Am Gov	1,154	5	21.3	-0.7	476	5	21.1	-0.7	678	5	21.4	-0.6
Other comb of 3 or 3.5 years of Social Science	5,609	23	23.0	1.0	2,249	22	22.9	1.1	3,360	24	23.0	1.0
Less than 3 years of Social Science	3,016	12	22.0	-	1,200	12	21.8	-	1,814	13	22.0	-
Zero years / no Social Science courses reported	788	3	18.4	-	396	4	18.1	-	390	3	18.7	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	14,462	60	22.7	4.4	6,520	64	23.3	5.3	7,941	56	22.2	3.8
Bio, Chem, Phys	2,305	9	24.0	5.7	976	10	24.9	6.9	1,328	9	23.3	4.9
Gen Sci ² , Bio, Chem	5,290	22	19.8	1.5	1,726	17	19.6	1.6	3,564	25	19.9	1.5
Other comb of 3 years of Natural Science	416	2	20.0	1.7	193	2	20.3	2.3	223	2	19.7	1.3
Less than 3 years of Natural Science	1,017	4	18.3	-	406	4	18.0	-	610	4	18.4	-
Zero years / no Natural Science courses reported	790	3	18.1	-	397	4	18.2	-	391	3	17.9	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 24,280

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	5,421	22	22.7	79	366,770	23	21.8	74
Eng 9, Eng 10, Eng 11, Eng 12	17,642	73	22.0	76	1,143,409	70	20.6	66
Less than 4 years of English	445	2	17.8	47	66,225	4	16.6	40
Zero years / no English courses reported	772	3	17.3	45	46,708	3	16.5	39
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	2,950	12	25.0	79	102,806	6	24.2	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,340	10	21.9	57	147,655	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	1,940	8	20.1	37	115,939	7	19.7	34
Alg 1, Alg 2, Geom, & Other Adv Math	2,249	9	19.8	36	271,304	17	19.9	36
Other comb of 4 or more years of Math	10,670	44	24.7	74	539,241	33	23.8	66
Alg 1, Alg 2, & Geom	1,749	7	17.4	12	238,527	15	17.3	12
Other comb of 3 or 3.5 years of Math	1,060	4	20.8	44	78,953	5	19.9	35
Less than 3 years of Math	525	2	17.0	11	79,145	5	16.4	8
Zero years / no Math courses reported	797	3	19.2	30	49,542	3	18.1	21
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	1,765	7	22.8	63	47,284	3	22.5	59
Other comb of 4 or more years Social Science	11,948	49	22.9	64	845,170	52	21.9	56
US Hist, World Hist, & Am Gov	1,154	5	21.3	53	86,167	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	5,609	23	23.0	64	445,631	27	21.1	51
Less than 3 years of Social Science	3,016	12	22.0	57	149,746	9	19.7	40
Zero years / no Social Science courses reported	788	3	18.4	33	49,114	3	17.9	28
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	14,462	60	22.7	44	686,167	42	22.1	39
Bio, Chem, Phys	2,305	9	24.0	56	160,020	10	23.1	46
Gen Sci ¹ , Bio, Chem	5,290	22	19.8	20	476,294	29	20.1	21
Other comb of 3 years of Natural Science	416	2	20.0	26	45,296	3	19.6	20
Less than 3 years of Natural Science	1,017	4	18.3	13	205,148	13	18.3	12
Zero years / no Natural Science courses reported	790	3	18.1	16	50,187	3	17.8	13

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

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

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

Total Students in Report: 24,280

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

Planned Educational Major ¹	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ²	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp	N	Percent ³	Avg ACT Comp
Agriculture & Natural Resources Conservation	167	1	20.6	16	4	17.3	129	1	21.0
Architecture	226	1	22.2	5	1	15.0	201	1	22.3
Area, Ethnic, & Multidisciplinary Studies	81	0	25.0	0	0	.	72	0	25.1
Arts: Visual & Performing	1,169	5	21.4	34	9	17.2	1,000	5	21.6
Business	2,628	11	21.8	43	12	16.8	2,332	11	21.9
Communications	799	3	22.1	9	2	14.4	726	4	22.2
Community, Family, & Personal Services	348	1	19.5	14	4	17.4	307	1	19.6
Computer Science & Mathematics	562	2	23.5	11	3	18.3	487	2	23.8
Education	2,051	8	20.7	12	3	14.9	1,887	9	20.8
Engineering	1,576	6	25.4	11	3	15.9	1,445	7	25.6
Engineering Technology & Drafting	493	2	23.4	8	2	18.1	447	2	23.5
English & Foreign Languages	384	2	25.2	3	1	18.7	351	2	25.3
Health Administration & Assisting	305	1	18.3	22	6	15.9	244	1	18.6
Health Sciences & Technologies	4,338	18	21.9	75	21	17.5	3,929	19	22.1
Philosophy, Religion, & Theology	93	0	22.0	1	0	17.0	85	0	22.3
Repair, Production, & Construction	81	0	18.5	24	7	17.7	45	0	19.1
Sciences: Biological & Physical	2,331	10	24.7	5	1	16.2	2,128	10	24.8
Social Sciences & Law	1,885	8	22.8	11	3	15.4	1,716	8	22.8
Undecided	3,698	15	22.8	55	15	16.1	2,953	14	22.8
No Response	1,065	4	18.1	6	2	12.7	183	1	20.4

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

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

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

Total Students in Report: 24,280

Table 4.2. Average ACT Composite Scores for Racial/Ethnic¹ Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	71	16.5	22	14.8	0	.	37	17.9	3	12.3
2-yr College Degree	294	16.8	60	13.6	0	.	195	18.2	13	14.7
Bachelors Degree	9,092	20.8	858	15.6	14	18.4	7,284	21.5	309	18.9
Graduate Study	5,306	23.9	342	18.7	5	22.4	4,338	24.3	146	22.4
Prof. Level Degree	6,269	24.4	737	18.8	7	22.1	4,339	25.3	227	22.5
Other	293	20.0	46	14.3	1	17.0	192	21.2	16	18.6
No Response	2,955	21.1	673	15.8	12	15.7	1,602	23.4	129	18.2

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	71	16.5	5	16.6	0	.	1	25.0	3	12.7
2-yr College Degree	294	16.8	6	14.0	0	.	6	17.0	14	14.5
Bachelors Degree	9,092	20.8	151	20.7	1	30.0	175	19.9	300	20.6
Graduate Study	5,306	23.9	157	24.4	1	29.0	87	22.7	230	24.1
Prof. Level Degree	6,269	24.4	445	25.6	2	20.5	164	22.9	348	24.5
Other	293	20.0	14	22.6	0	.	3	23.0	21	19.7
No Response	2,955	21.1	193	22.7	3	20.0	71	18.6	272	21.1

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

Total Students in Report: 24,280

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
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	2,899	1,016	1,883	2	7	18	31	27	14	2
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,057	842	1,215	0	2	9	30	35	20	2
TEMPLE UNIVERSITY	Pennsylvania	1,361	423	938	5	11	26	31	21	6	0
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	977	260	717	3	12	30	34	18	3	0
DREXEL UNIVERSITY	Pennsylvania	855	208	647	2	7	19	27	25	17	1
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	832	206	626	4	13	35	30	16	3	0
DUQUESNE UNIVERSITY	Pennsylvania	766	245	521	0	2	11	37	38	11	0
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	725	234	491	2	14	33	36	13	3	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	709	269	440	1	4	12	19	26	33	5
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	674	201	473	2	13	34	35	15	1	0
NCAA ELIGIBILITY CENTER	Indiana	617	339	278	4	13	24	31	20	9	1
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	532	133	399	4	16	36	31	12	2	0
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	511	197	314	3	14	38	34	9	2	0
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	503	102	401	4	12	32	32	17	3	0
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	498	167	331	3	21	37	24	12	3	0
VILLANOVA UNIVERSITY	Pennsylvania	455	93	362	2	4	13	22	30	25	2
GANNON UNIVERSITY	Pennsylvania	411	140	271	2	12	24	28	27	5	1
WEST VIRGINIA UNIVERSITY	West Virginia	405	111	294	0	4	23	41	25	6	0
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	400	90	310	4	11	34	35	13	4	0
UNIVERSITY OF DELAWARE	Delaware	390	87	303	0	2	9	31	38	17	2
ROBERT MORRIS UNIVERSITY	Pennsylvania	318	85	233	3	10	26	39	20	3	0
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	315	74	241	2	19	34	31	12	2	0
LEHIGH UNIVERSITY	Pennsylvania	291	65	226	1	2	6	19	34	31	6
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	290	73	217	3	14	42	32	8	2	0
LOCK HAVEN U OF PENNSYLVANIA	Pennsylvania	289	60	229	2	16	34	33	13	2	0
CARNEGIE MELLON UNIVERSITY	Pennsylvania	286	89	197	0	1	2	15	28	46	8
OHIO STATE UNIVERSITY THE	Ohio	278	54	224	1	4	9	27	38	19	2
MERCYHURST COLLEGE	Pennsylvania	258	88	170	4	17	30	29	16	3	0
UNIVERSITY OF MARYLAND COLLEGE PARK	Maryland	243	43	200	1	2	8	27	33	27	2
BUCKNELL UNIVERSITY	Pennsylvania	241	56	185	0	0	6	16	35	36	7
All Other Institutions		20,675	5,849	14,826	2	7	19	27	26	17	2
Total		40,061	11,899	28,162	2	8	21	28	25	14	2

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: 24,280

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity¹ and Gender for students who took ACT Writing

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
	State	National	State	National	State	National	State	National
All Students	18,253	905,035	22.6	21.5	7.3	7.1	21.8	20.8
Black/African American	2,122	112,251	15.9	16.7	6.2	6.3	15.9	16.5
American Indian/Alaska Native	22	5,519	17.3	18.4	6.0	6.5	16.8	18.0
White	13,188	522,234	23.8	23.2	7.5	7.3	22.8	22.2
Hispanic/Latino	674	128,599	20.1	18.4	7.1	6.8	19.7	18.2
Asian	878	51,829	23.3	23.8	7.6	7.6	22.5	22.9
Native Hawaiian/Other Pac. Isl.	6	1,332	23.2	19.7	7.0	7.2	21.8	19.5
Two or more races	394	27,722	21.1	21.6	7.2	7.0	20.6	20.8
Prefer not/No Response	969	55,549	22.4	21.3	7.3	7.0	21.7	20.5
Males	7,402	399,206	22.4	21.3	7.1	6.8	21.4	20.3
Females	10,847	503,699	22.7	21.8	7.5	7.3	22.0	21.1
Missing	4	2,130	24.8	17.6	7.8	6.2	23.5	17.1

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

