

ACT Profile Report - State

Graduating Class 2010
Pennsylvania



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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

30% 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: 24,323 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. 73% 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 3% of the cohort took less than three years of math courses. Of these students, 13% were college ready. 8% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 13% of these students were college ready. In comparison, 61% 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 5% of the cohort took less than three years of natural science courses. 12% of these students were college ready. In comparison, 38% 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 39% 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.

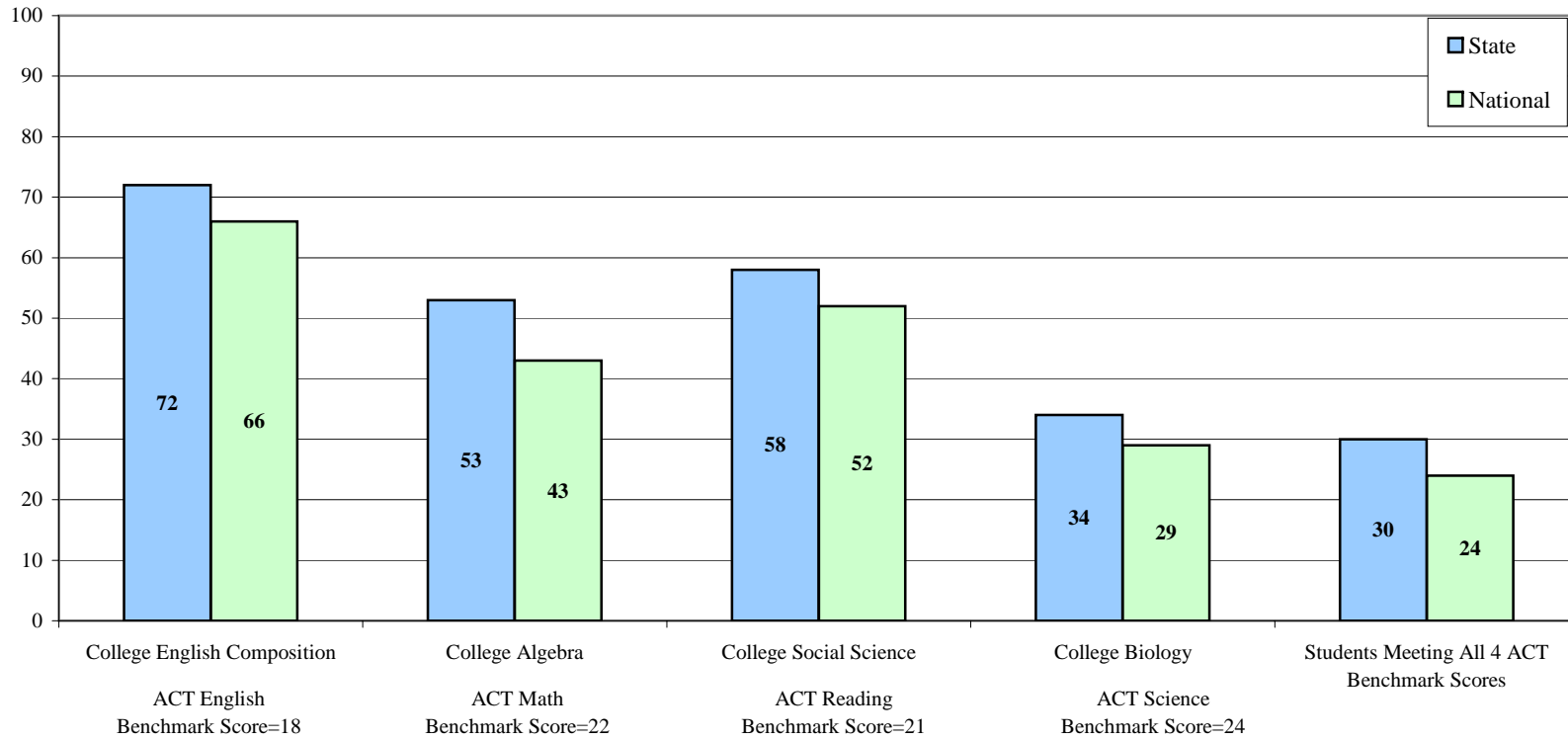
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 508-229-0111.

Section I

Executive Summary

Total Students in Report: 24,323

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: 24,323

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	12,651	1,206,455	73	69	49	42	59	53	31	27	26	21
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

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	12,651	1,206,455	21.3	20.6	21.7	20.8	22.2	21.4	21.4	20.9	21.8	21.1
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

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: 24,323

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
2006	6,882	3,826	54	30	21.9	20.3	22.3	20.7	22.8	21.4	21.9	20.6	22.4	20.9
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

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.

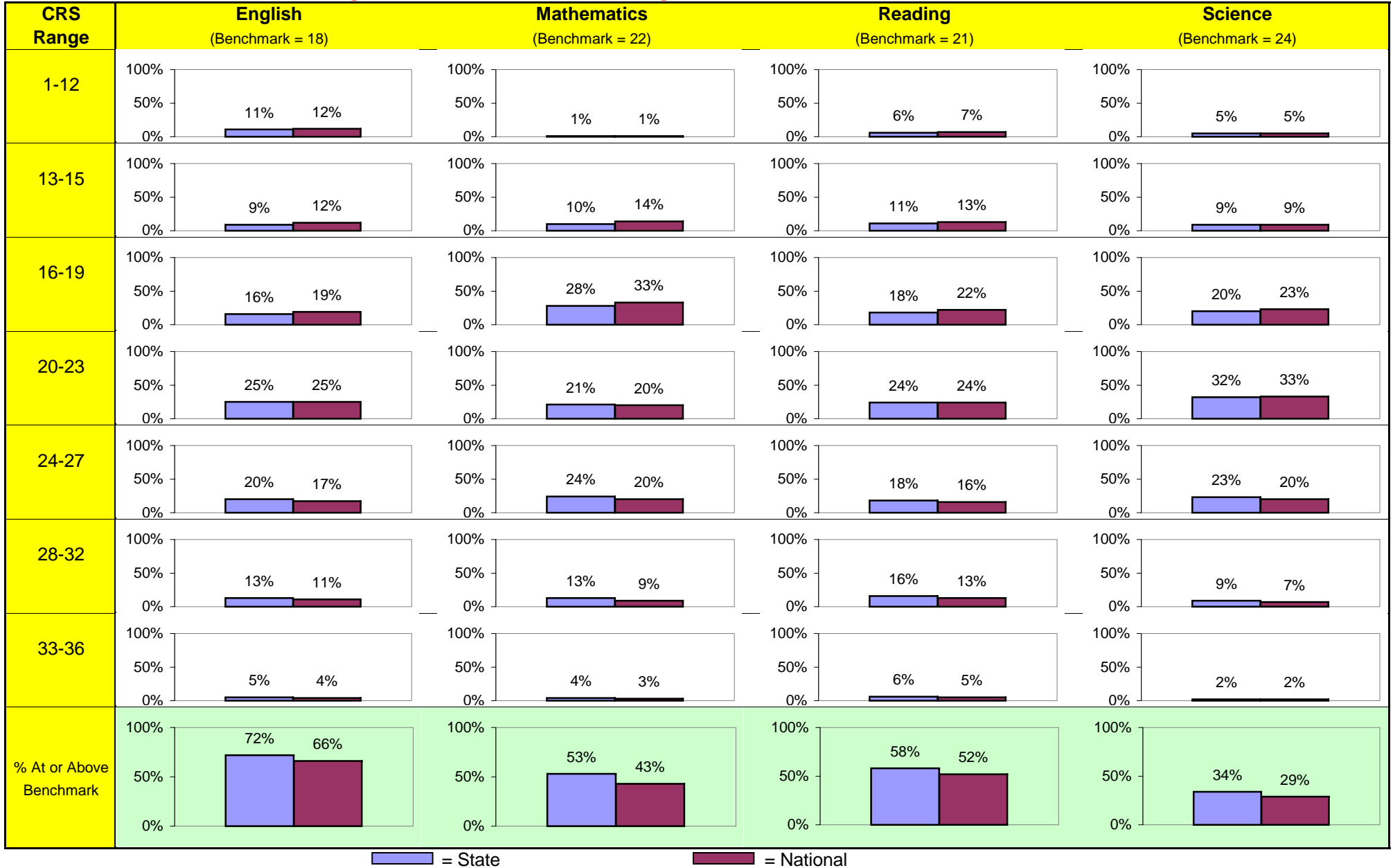
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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	12,651	100	21.8	15,905	100	22.0	19,439	100	22.2	21,199	100	22.1	24,323	100	21.9
African American/Black	1,018	8	16.6	1,302	8	16.8	1,617	8	16.8	2,309	11	16.6	3,445	14	16.1
American Indian/Alaska Native	27	0	19.0	31	0	20.4	30	0	19.7	46	0	22.3	50	0	20.3
Caucasian American/White	9,059	72	22.2	10,830	68	22.4	14,327	74	22.6	15,935	75	22.8	17,175	71	23.2
Hispanic	197	2	20.5	280	2	19.5	357	2	20.0	558	3	19.4	667	3	18.9
Asian American/Pacific Islander	266	2	23.4	327	2	23.3	500	3	24.1	663	3	23.7	917	4	22.8
Other/No Response	2,084	16	22.3	3,135	20	22.8	2,608	13	23.4	1,688	8	22.6	2,069	9	21.2

Total Students in Report: 24,323

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



Section II

Academic Achievement

Total Students in Report: 24,323

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	84	100	66	100	179	100	77	100	9	100	36
35	331	100	228	100	247	99	146	100	57	100	35
34	452	98	302	99	520	98	109	99	153	100	34
33	440	96	388	98	568	96	212	99	262	99	33
32	339	95	408	96	672	94	118	98	394	98	32
31	522	93	463	94	614	91	372	97	502	96	31
30	689	91	594	92	861	88	433	96	703	94	30
29	710	88	657	90	884	85	532	94	871	91	29
28	886	85	960	87	904	81	699	92	973	88	28
27	953	82	1,218	83	962	78	993	89	1,196	84	27
26	1,153	78	1,465	78	963	74	1,070	85	1,317	79	26
25	1,254	73	1,479	72	1,253	70	1,816	80	1,460	74	25
24	1,392	68	1,782	66	1,114	65	1,750	73	1,603	68	24
23	1,422	62	1,645	59	1,420	60	1,912	66	1,616	61	23
22	1,460	56	1,305	52	1,560	54	1,820	58	1,652	54	22
21	1,825	50	864	47	1,336	48	1,948	50	1,622	48	21
20	1,488	43	1,188	43	1,599	42	2,052	42	1,574	41	20
19	1,213	37	1,323	38	1,276	36	1,386	34	1,456	34	19
18	839	32	1,479	33	911	30	1,657	28	1,312	28	18
17	854	28	1,911	27	1,333	27	985	21	1,189	23	17
16	1,079	25	2,057	19	950	21	858	17	1,048	18	16
15	1,033	20	1,327	10	966	17	835	14	926	14	15
14	725	16	770	5	1,030	13	614	10	787	10	14
13	489	13	270	2	798	9	669	8	730	7	13
12	500	11	102	1	604	6	431	5	545	4	12
11	602	9	49	1	359	3	328	3	207	2	11
10	555	7	18	1	240	2	231	2	95	1	10
9	429	4	2	1	44	1	163	1	46	1	9
8	275	2	3	1	83	1	51	1	12	1	8
7	196	1	0	1	34	1	6	1	5	1	7
6	71	1	0	1	17	1	30	1	1	1	6
5	48	1	0	1	4	1	12	1	0	1	5
4	6	1	0	1	13	1	1	1	0	1	4
3	3	1	0	1	1	1	7	1	0	1	3
2	5	1	0	1	3	1	0	1	0	1	2
1	1	1	0	1	1	1	0	1	0	1	1
Avg (SD)	21.3 (6.6)		22.1 (5.4)		22.1 (6.4)		21.4 (5.2)		21.9 (5.4)		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: 24,323

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	1,324	100	306	100	694	100	897	100	1,559	100	299	100	218	100	18
17	1,113	95	226	99	1,235	97	2,474	96	1,686	94	389	99	292	99	17
16	1,413	90	1,567	98	1,731	92	1,235	86	1,694	87	975	97	1,003	98	16
15	1,670	84	1,897	91	1,557	85	2,203	81	1,908	80	967	93	1,677	94	15
14	1,504	77	1,790	84	1,805	79	1,364	72	1,893	72	2,569	89	2,307	87	14
13	1,708	71	2,317	76	1,615	71	2,110	66	1,733	64	2,784	79	2,795	77	13
12	1,787	64	2,789	67	2,256	64	1,937	58	2,156	57	2,486	67	2,623	66	12
11	1,961	57	3,130	55	2,141	55	2,478	50	2,323	48	3,506	57	2,374	55	11
10	2,774	49	2,100	42	2,407	46	1,978	40	1,899	39	2,878	43	3,389	45	10
9	2,038	37	2,451	34	2,499	37	1,378	31	1,991	31	2,836	31	2,257	31	9
8	1,417	29	1,697	24	2,114	26	1,508	26	2,116	23	1,880	19	1,965	22	8
7	1,466	23	1,382	17	1,965	18	1,335	20	1,916	14	1,223	11	1,134	14	7
6	1,382	17	617	11	940	9	1,243	14	921	6	577	6	955	9	6
5	951	11	817	8	657	6	1,291	9	285	2	314	4	608	5	5
4	971	7	665	5	338	3	511	4	160	1	315	3	194	3	4
3	548	3	438	2	215	2	298	2	61	1	238	1	327	2	3
2	259	1	106	1	109	1	75	1	20	1	4	1	115	1	2
1	37	1	28	1	45	1	8	1	2	1	83	1	90	1	1
Avg (SD)	10.8 (4.1)		10.9 (3.4)		11.1 (3.7)		11.5 (4.0)		11.8 (3.7)		11.0 (3.0)		10.9 (3.2)		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)	21	22	22	21	22
Q1 (25th Percentile)	17	17	17	18	18

Total Students in Report: 24,323

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	24,323	73	22.7	20.5
	African American/Black	3,445	46	16.9	15.3
	American Indian/Alaska Native	50	58	21.6	20.4
	Caucasian American/White	17,175	82	23.4	22.3
	Hispanic	667	58	20.5	18.2
	Asian American/Pacific Islander	917	61	24.4	21.2
	Other/No Response	2,069	57	22.5	19.8
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	21.3	22.1	22.1	21.4	21.9
	African American/Black	14.4	17.0	16.1	16.2	16.1
	American Indian/Alaska Native	19.2	20.6	21.2	20.0	20.3
	Caucasian American/White	23.0	23.1	23.5	22.6	23.2
	Hispanic	17.6	19.5	19.1	18.8	18.9
	Asian American/Pacific Islander	21.8	24.4	22.4	22.3	22.8
	Other/No Response	20.4	21.9	21.4	20.5	21.2
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: 24,323

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	1,307	5	984	4	1,514	6	544	2
	28 to 32	3,146	13	3,082	13	3,935	16	2,154	9
	24 to 27	4,752	20	5,944	24	4,292	18	5,629	23
	20 to 23	6,195	25	5,002	21	5,915	24	7,732	32
	16 to 19	3,985	16	6,770	28	4,470	18	4,886	20
	13 to 15	2,247	9	2,367	10	2,794	11	2,118	9
	01 to 12	2,691	11	174	1	1,403	6	1,260	5
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	10,257	42	21.0	22.9	22.0	22.0	22.1
	Females	14,020	58	21.6	21.5	22.2	20.9	21.7
	Missing	46	0	15.8	19.2	17.3	17.3	17.5
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	70	59	57	40	34
	Females	73	49	59	30	27
National	Males	64	48	51	34	28
	Females	69	40	53	25	21

Total Students in Report: 24,323

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	17,791	79	22.4	59	22.8	64	23.0	39	22.2	34	22.7
	Less than Core	4,541	61	19.8	42	20.8	48	20.8	27	20.1	23	20.5
	Missing ³	1,991	35	15.5	26	18.6	26	17.4	9	17.3	7	17.3
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	21,816	76	22.0	21,755	57	22.5	19,100	62	22.7	21,294	38	21.9
	Less than Core	626	34	15.5	661	13	17.1	3,292	52	21.3	1,099	12	18.0
	Missing ³	1,881	35	15.6	1,907	27	18.7	1,931	26	17.4	1,930	9	17.3
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.

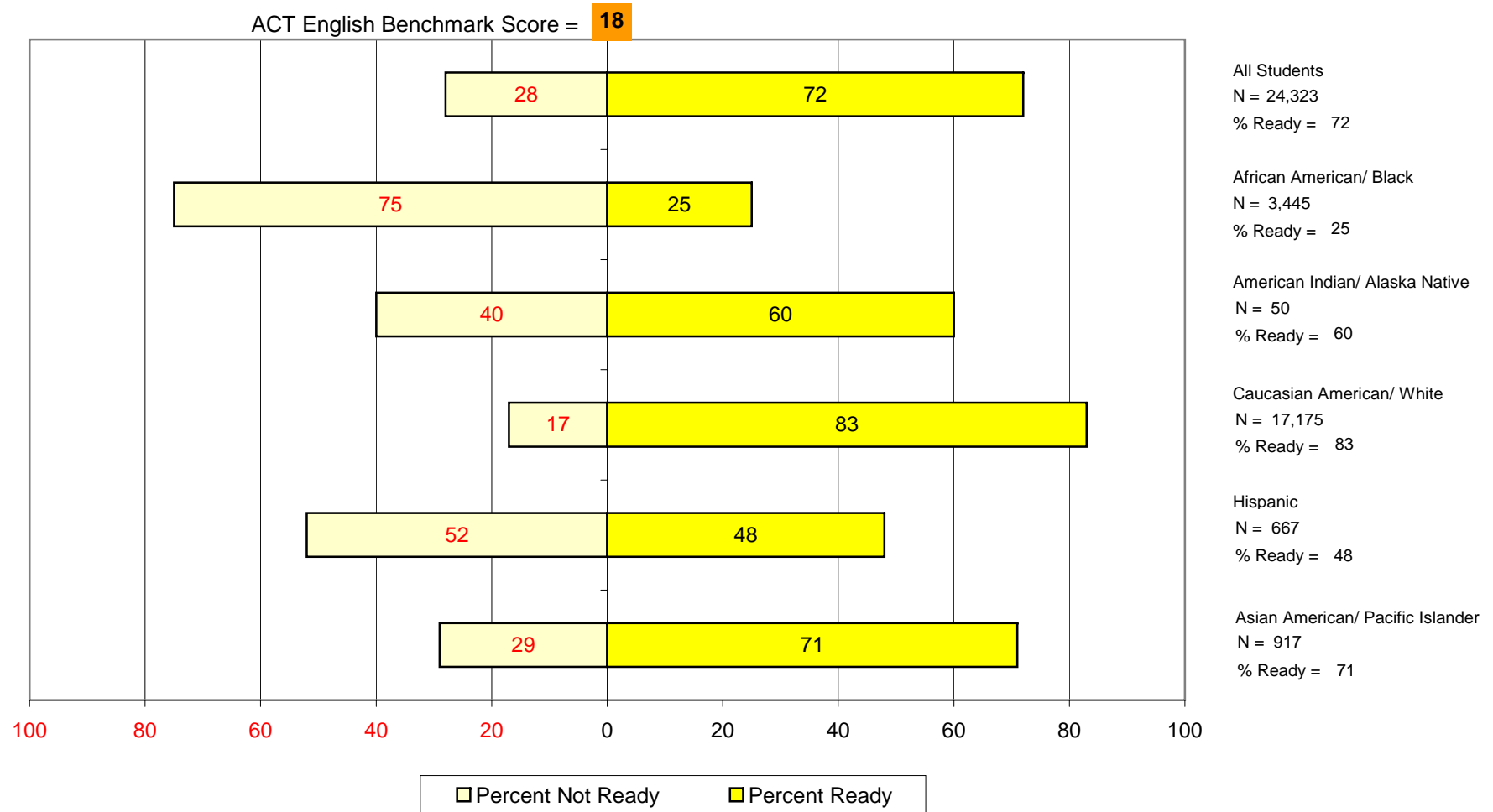
³ Zero years or no coursework information reported in the specified content area.

Section III

College Readiness and the Impact of Course Rigor

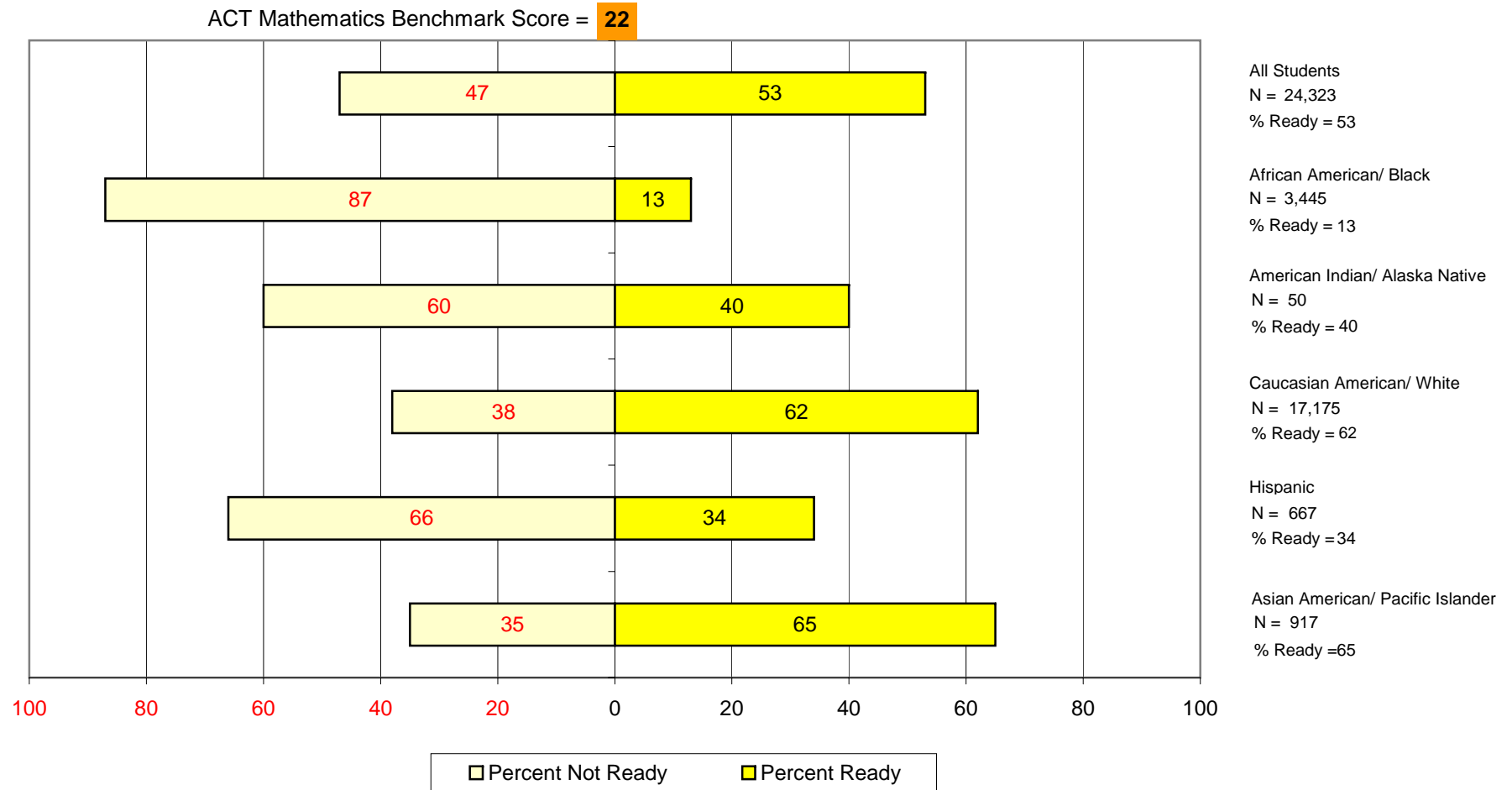
Total Students in Report: 24,323

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



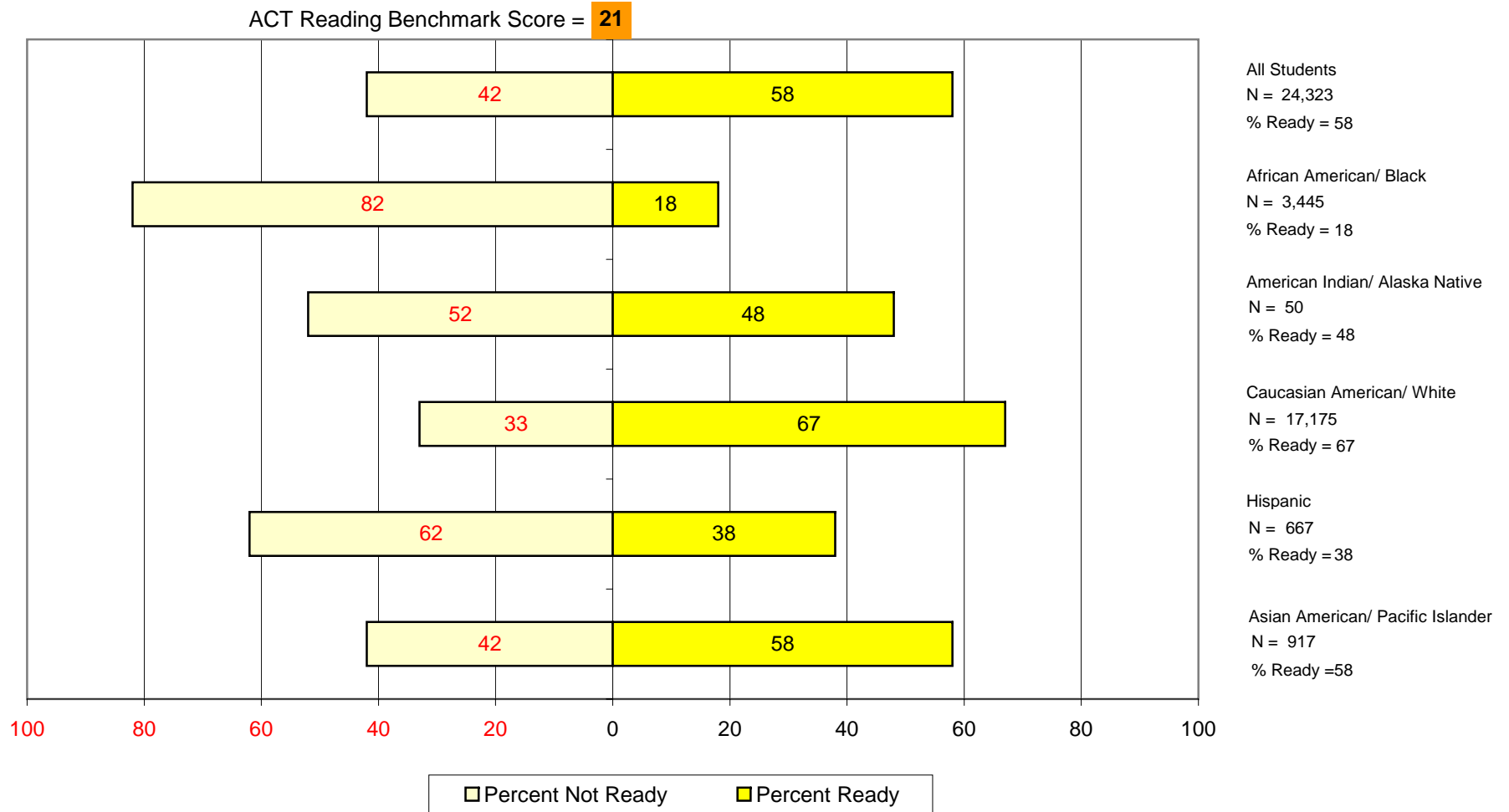
Total Students in Report: 24,323

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



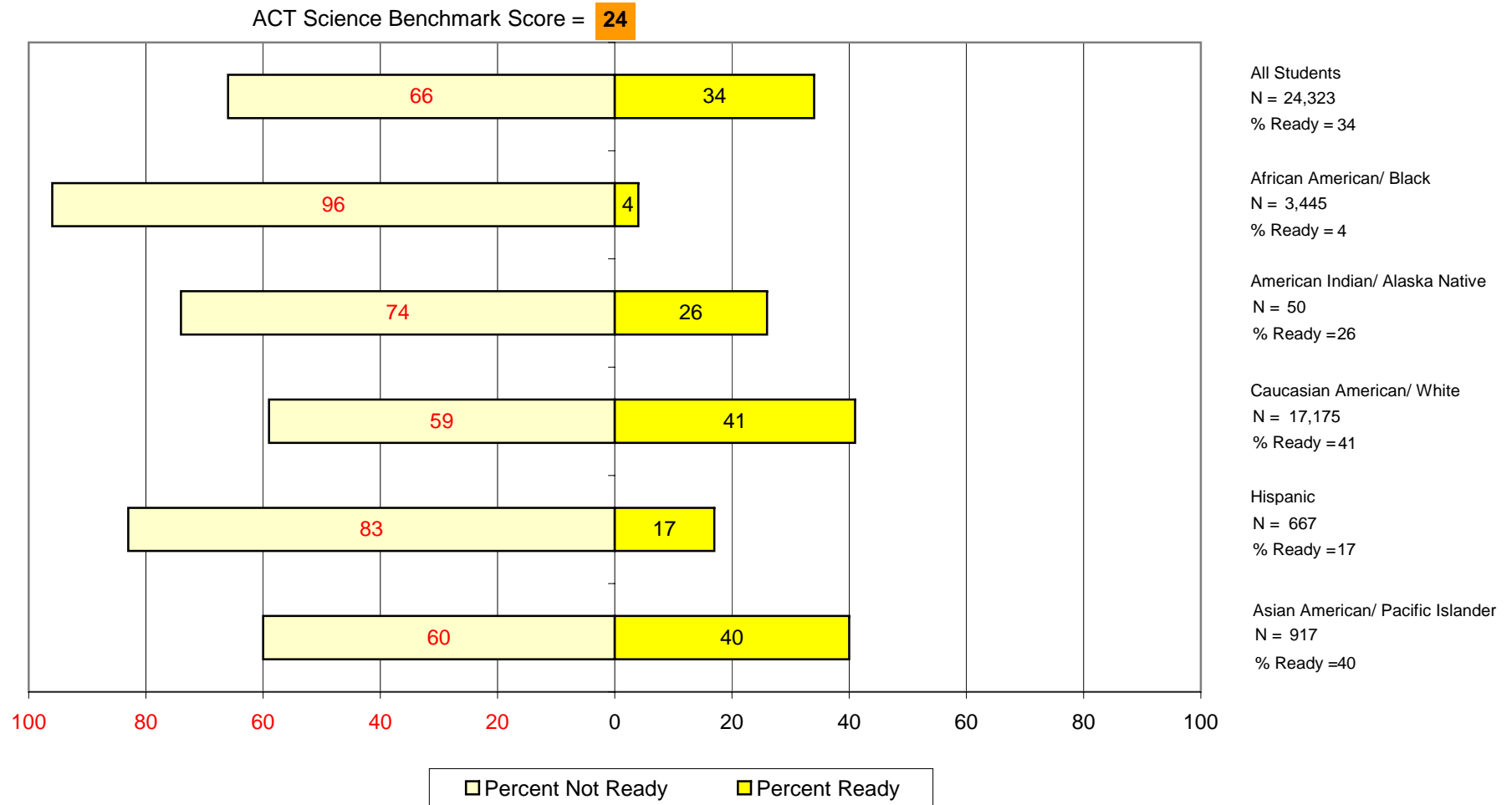
Total Students in Report: 24,323

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



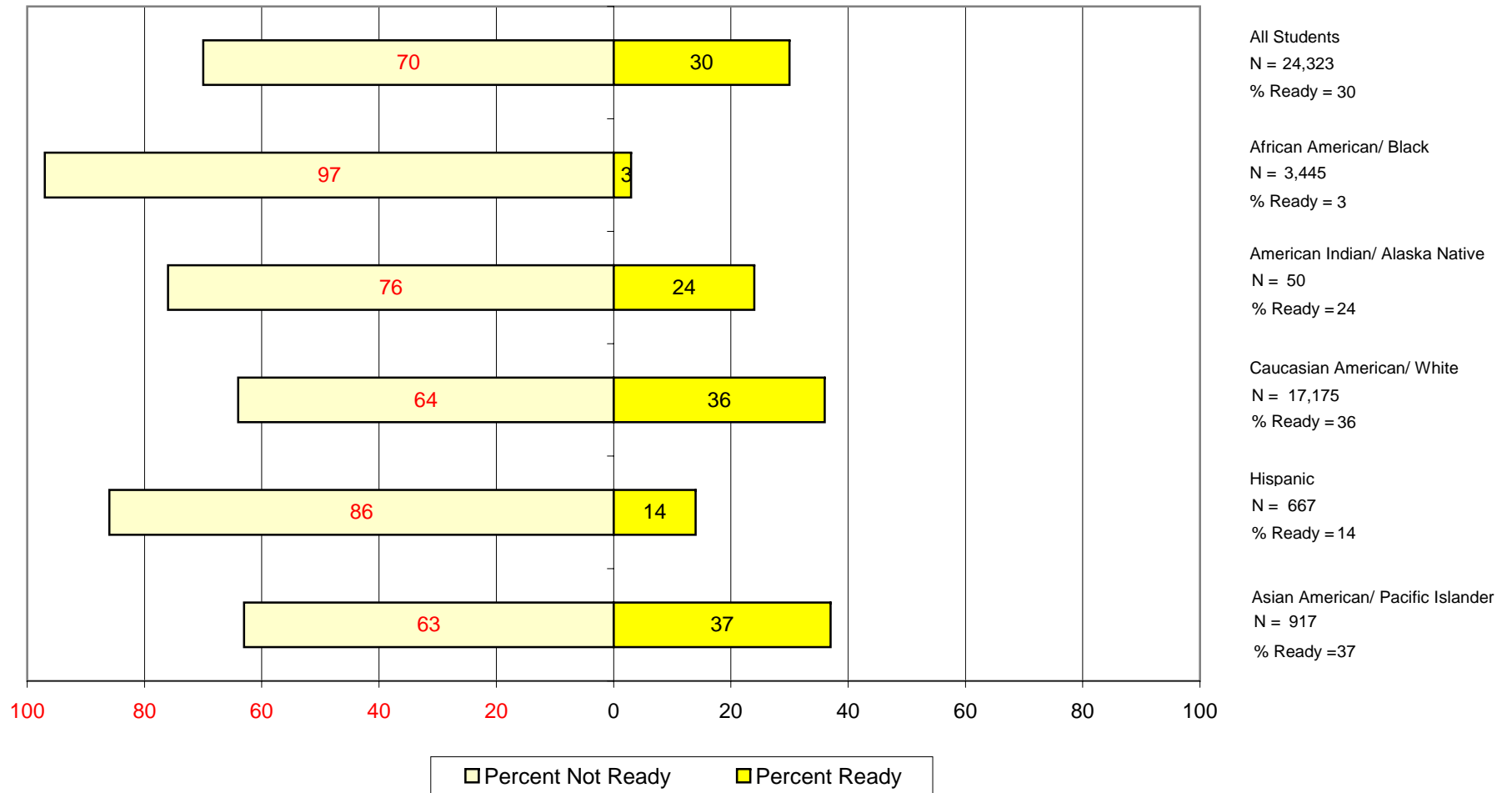
Total Students in Report: 24,323

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



Total Students in Report: 24,323

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



Total Students in Report: 24,323

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	5,132	21	22.8	7.3	1,964	19	22.2	6.3	3,167	23	23.2	7.9
Eng 9, Eng 10, Eng 11, Eng 12	16,684	69	21.8	6.3	7,201	70	21.4	5.5	9,469	68	22.0	6.7
Less than 4 years of English	626	3	15.5	-	255	2	15.9	-	368	3	15.3	-
Zero years / no English courses reported	1,881	8	15.6	-	837	8	15.6	-	1,016	7	15.6	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	2,704	11	24.9	7.8	1,111	11	25.4	7.6	1,593	11	24.6	8.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,254	9	21.7	4.6	751	7	22.2	4.4	1,501	11	21.4	4.8
Alg 1, Alg 2, Geom, & Trig	1,860	8	20.0	2.9	701	7	20.4	2.6	1,157	8	19.7	3.1
Alg 1, Alg 2, Geom, & Other Adv Math	2,116	9	19.7	2.6	733	7	20.0	2.2	1,381	10	19.6	3.0
Other comb of 4 or more years of Math	9,860	41	24.4	7.3	4,670	46	25.2	7.4	5,183	37	23.7	7.1
Alg 1, Alg 2, & Geom	1,854	8	17.3	0.2	698	7	17.5	-0.3	1,153	8	17.2	0.6
Other comb of 3 or 3.5 years of Math	1,107	5	20.3	3.2	477	5	20.9	3.1	628	4	19.9	3.3
Less than 3 years of Math	661	3	17.1	-	273	3	17.8	-	388	3	16.6	-
Zero years / no Math courses reported	1,907	8	18.7	-	843	8	19.3	-	1,036	7	18.1	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	1,696	7	22.8	1.5	768	7	22.3	1.1	923	7	23.3	1.9
Other comb of 4 or more years Social Science	11,039	45	22.8	1.5	4,717	46	22.7	1.5	6,318	45	22.9	1.5
US Hist, World Hist, & Am Gov	1,008	4	21.3	0.0	413	4	21.2	0.0	592	4	21.4	0.0
Other comb of 3 or 3.5 years of Social Science	5,357	22	22.8	1.5	2,178	21	22.7	1.5	3,175	23	23.0	1.6
Less than 3 years of Social Science	3,292	14	21.3	-	1,330	13	21.2	-	1,960	14	21.4	-
Zero years / no Social Science courses reported	1,931	8	17.4	-	851	8	17.5	-	1,052	8	17.4	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	13,738	56	22.4	4.4	6,196	60	23.1	5.1	7,532	54	21.9	3.9
Bio, Chem, Phys	2,285	9	23.8	5.8	922	9	24.6	6.6	1,358	10	23.3	5.3
Gen Sci ² , Bio, Chem	4,910	20	19.7	1.7	1,653	16	19.7	1.7	3,254	23	19.7	1.7
Other comb of 3 years of Natural Science	361	1	20.1	2.1	189	2	20.6	2.6	172	1	19.7	1.7
Less than 3 years of Natural Science	1,099	5	18.0	-	444	4	18.0	-	655	5	18.0	-
Zero years / no Natural Science courses reported	1,930	8	17.3	-	853	8	18.0	-	1,049	7	16.8	-

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: 24,323

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	5,132	21	22.8	80	355,112	23	21.9	75
Eng 9, Eng 10, Eng 11, Eng 12	16,684	69	21.8	75	1,096,437	70	20.5	66
Less than 4 years of English	626	3	15.5	34	74,180	5	16.4	39
Zero years / no English courses reported	1,881	8	15.6	35	43,106	3	15.7	34
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	2,704	11	24.9	78	98,076	6	24.4	72
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,254	9	21.7	53	141,740	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	1,860	8	20.0	35	112,685	7	19.9	35
Alg 1, Alg 2, Geom, & Other Adv Math	2,116	9	19.7	34	239,289	15	20.0	36
Other comb of 4 or more years of Math	9,860	41	24.4	71	498,709	32	23.9	67
Alg 1, Alg 2, & Geom	1,854	8	17.3	13	258,287	16	17.4	12
Other comb of 3 or 3.5 years of Math	1,107	5	20.3	39	74,720	5	19.9	35
Less than 3 years of Math	661	3	17.1	13	97,949	6	16.4	7
Zero years / no Math courses reported	1,907	8	18.7	27	47,380	3	17.5	16
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	1,696	7	22.8	61	47,523	3	22.6	60
Other comb of 4 or more years Social Science	11,039	45	22.8	63	793,514	51	21.9	57
US Hist, World Hist, & Am Gov	1,008	4	21.3	52	86,044	5	20.4	45
Other comb of 3 or 3.5 years of Social Science	5,357	22	22.8	63	439,520	28	21.2	51
Less than 3 years of Social Science	3,292	14	21.3	52	156,679	10	19.5	39
Zero years / no Social Science courses reported	1,931	8	17.4	26	45,555	3	17.3	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	13,738	56	22.4	42	620,765	40	22.2	40
Bio, Chem, Phys	2,285	9	23.8	54	152,001	10	23.2	48
Gen Sci ¹ , Bio, Chem	4,910	20	19.7	19	474,375	30	20.1	21
Other comb of 3 years of Natural Science	361	1	20.1	25	43,231	3	19.7	21
Less than 3 years of Natural Science	1,099	5	18.0	12	231,566	15	18.3	12
Zero years / no Natural Science courses reported	1,930	8	17.3	9	46,897	3	17.4	10

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

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	166	1	20.0	7	2	14.3	143	1	20.3
Architecture & Environmental Design	366	2	22.1	6	1	15.3	332	2	22.3
Business & Management	2,295	9	21.8	25	6	14.4	2,094	11	21.8
Business & Office	107	0	19.7	6	1	16.2	91	0	19.8
Marketing & Distribution	211	1	21.1	2	0	16.0	187	1	21.2
Communications & Comm. Technologies	783	3	22.1	10	2	19.7	706	4	22.2
Community & Personal Services	339	1	18.5	15	4	17.0	293	1	18.8
Computer & Information Sciences	400	2	22.7	6	1	18.0	364	2	22.8
Cross-Disciplinary Studies	57	0	26.1	0	0	.	53	0	26.0
Education	1,347	6	20.8	9	2	16.1	1,257	6	20.8
Teacher Education	645	3	20.3	4	1	13.8	598	3	20.3
Engineering	1,251	5	25.2	8	2	14.8	1,163	6	25.3
Engineering-Related Technologies	578	2	23.2	18	4	18.6	509	3	23.5
Foreign Languages	153	1	24.5	1	0	17.0	144	1	24.5
Health Sciences & Allied Health Fields	4,134	17	21.7	115	28	16.5	3,751	19	21.9
Human, Family & Consumer Science	163	1	18.7	14	3	15.5	126	1	19.4
Letters	149	1	25.6	1	0	23.0	130	1	25.5
Mathematics	209	1	25.0	2	0	13.5	190	1	25.2
Philosophy, Religion & Theology	107	0	23.1	0	0	.	97	0	23.3
Sciences (Biological & Physical)	2,148	9	24.6	8	2	15.9	2,015	10	24.7
Social Sciences	1,679	7	22.8	6	1	19.2	1,544	8	22.9
Trade & Industrial	88	0	17.2	46	11	16.7	39	0	18.1
Visual & Performing Arts	1,108	5	21.5	38	9	17.1	955	5	21.8
Undecided	3,345	14	22.8	54	13	16.8	2,779	14	22.8
No Response	2,495	10	17.1	12	3	12.3	102	1	18.0

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).

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	68	15.9	18	13.8	1	13.0	37	17.6	2	17.5	1	10.0	9	13.9
2-yr College Degree	345	16.5	74	13.2	0	.	226	17.8	12	13.8	6	16.0	27	16.3
Bachelors Degree	8,193	20.6	790	15.2	16	20.4	6,685	21.3	161	18.2	126	20.7	415	19.7
Graduate Study	5,041	23.7	347	18.1	11	22.3	4,161	24.3	96	22.0	126	23.5	300	23.4
Prof. Level Degree	6,428	24.0	832	17.7	11	22.8	4,474	25.2	167	21.7	388	25.2	556	23.7
Other	344	18.4	76	14.4	0	.	191	20.3	13	16.7	13	16.8	51	17.9
No Response	3,904	19.4	1,308	15.3	11	16.3	1,401	23.4	216	16.2	257	20.5	711	19.7

Total Students in Report: 24,323

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	3,562	1,346	2,216	4	11	19	27	25	13	1	
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,045	769	1,276	0	3	11	30	34	19	2	
TEMPLE UNIVERSITY	Pennsylvania	1,610	499	1,111	8	18	27	26	17	4	0	
DREXEL UNIVERSITY	Pennsylvania	1,009	238	771	6	14	23	26	21	9	1	
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	995	277	718	5	13	32	34	13	3	0	
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	789	215	574	4	15	35	28	15	3	0	
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	767	241	526	2	14	34	32	14	2	0	
DUQUESNE UNIVERSITY	Pennsylvania	758	239	519	0	3	12	35	39	10	1	
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	703	260	443	3	8	16	20	23	25	6	
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	700	197	503	6	13	33	33	13	2	0	
NCAA ELIGIBILITY CENTER	Indiana	638	365	273	5	16	27	26	19	7	1	
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	553	136	417	6	17	37	28	10	2	0	
VILLANOVA UNIVERSITY	Pennsylvania	538	127	411	9	12	15	19	27	18	1	
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	537	141	396	4	12	28	38	13	4	0	
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	514	186	328	5	16	38	29	10	1	0	
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	430	136	294	3	18	33	32	11	3	0	
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	423	88	335	4	12	37	32	11	4	0	
UNIVERSITY OF DELAWARE	Delaware	405	85	320	1	3	9	29	37	20	1	
GANNON UNIVERSITY	Pennsylvania	402	109	293	1	10	24	33	23	7	0	
WEST VIRGINIA UNIVERSITY	West Virginia	395	101	294	2	5	22	36	27	9	0	
ROBERT MORRIS UNIVERSITY	Pennsylvania	343	72	271	1	10	26	35	21	6	0	
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	333	93	240	2	15	34	29	18	2	0	
NEW YORK UNIVERSITY	New York	322	113	209	4	8	14	20	29	24	2	
CARNEGIE MELLON UNIVERSITY	Pennsylvania	312	89	223	0	1	4	12	29	44	10	
LOCK HAVEN U OF PENNSYLVANIA	Pennsylvania	310	73	237	7	14	38	29	10	2	0	
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	289	86	203	2	19	41	29	8	1	0	
LEHIGH UNIVERSITY	Pennsylvania	272	53	219	1	2	5	18	29	40	5	
OHIO STATE UNIVERSITY THE	Ohio	265	67	198	2	7	15	22	37	16	1	
MERCYHURST COLLEGE	Pennsylvania	262	68	194	4	18	23	32	18	5	0	
YORK COLLEGE OF PENNSYLVANIA	Pennsylvania	245	73	172	1	7	30	34	22	5	0	
All Other Institutions		21,285	5,733	15,552	4	10	19	26	23	16	2	
Total		42,011	12,275	29,736	4	11	21	27	22	13	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	18,241	869,014	21.9	21.4	7.3	7.1	21.2	20.8
African American/Black	2,692	107,638	14.6	16.4	6.1	6.4	14.8	16.4
American Indian/Alaska Native	38	6,232	19.8	18.9	6.8	6.6	19.2	18.4
Caucasian American/White	12,440	518,004	23.8	23.0	7.6	7.3	22.9	22.1
Hispanic	520	101,126	18.0	18.1	6.7	6.9	17.8	18.1
Asian American/Pacific Islander	816	49,922	22.0	23.6	7.3	7.7	21.4	22.9
Other/No Response	1,735	86,092	20.7	21.0	7.1	7.1	20.2	20.4
Males	7,488	384,152	21.7	21.1	7.0	6.9	20.8	20.3
Females	10,713	484,023	22.1	21.7	7.4	7.3	21.5	21.2
Missing	40	839	16.0	16.8	6.4	6.3	16.1	16.6

