

# ACT Profile Report - State

Graduating Class 2009  
Pennsylvania





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This report provides information about the performance of your 2009 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 2009 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.

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

## How to Improve Scores and Increase College Readiness

29% 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:** 21,199 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. 78% 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, 12% were college ready. 8% of the cohort reported taking the minimum math core (Algebra I, Algebra II, and Geometry). 11% of these students were college ready. In comparison, 59% of the students who advanced beyond minimum math 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 5% of the cohort took less than three years of natural science courses. 12% of these students were college ready. In comparison, 35% 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 38% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

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

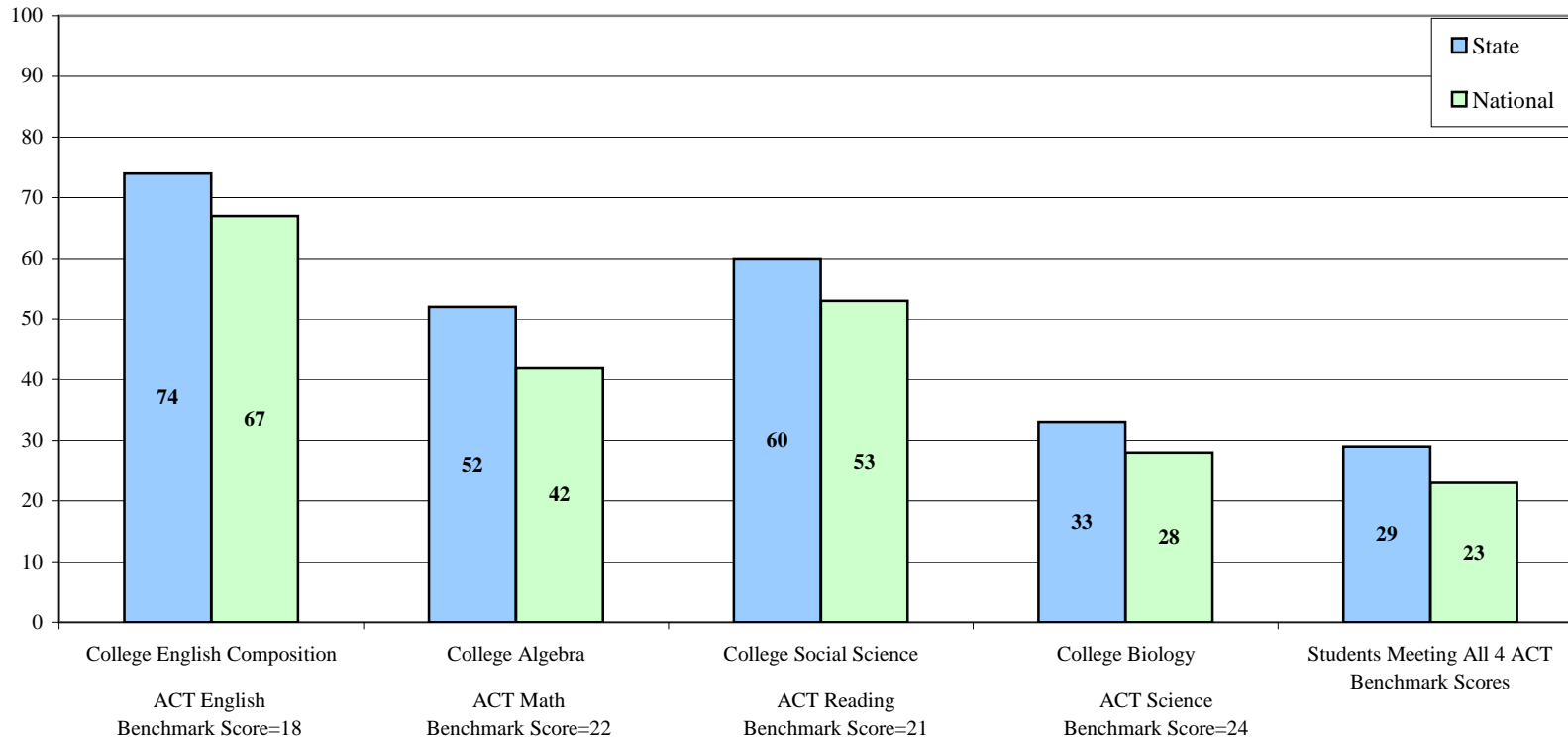
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 518-869-7378.

# Section I

## Executive Summary

Total Students in Report: 21,199

**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: 21,199

**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
2005	11,848	1,186,251	73	68	47	41	59	51	30	26	25	21
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
<b>2009</b>	<b>21,199</b>	<b>1,480,469</b>	<b>74</b>	<b>67</b>	<b>52</b>	<b>42</b>	<b>60</b>	<b>53</b>	<b>33</b>	<b>28</b>	<b>29</b>	<b>23</b>

**Table 1.2. Five Year Trends—Average ACT Scores**

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2005	11,848	1,186,251	21.2	20.4	21.5	20.7	22.3	21.3	21.4	20.9	21.7	20.9
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
<b>2009</b>	<b>21,199</b>	<b>1,480,469</b>	<b>21.7</b>	<b>20.6</b>	<b>22.2</b>	<b>21.0</b>	<b>22.4</b>	<b>21.4</b>	<b>21.5</b>	<b>20.9</b>	<b>22.1</b>	<b>21.1</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
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
2008	1,421,941	20.6	21.0	21.4	20.8	21.1
<b>2009</b>	<b>1,480,469</b>	<b>20.6</b>	<b>21.0</b>	<b>21.4</b>	<b>20.9</b>	<b>21.1</b>

Total Students in Report: 21,199

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

Year	Number of Students Tested		Percent <sup>2</sup>		Average ACT Scores									
	Core or More <sup>1</sup>	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2005	6,932	3,337	59	28	22.0	20.1	22.1	20.4	23.0	21.3	22.0	20.6	22.4	20.7
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
<b>2009</b>	<b>16,501</b>	<b>4,099</b>	<b>78</b>	<b>19</b>	<b>22.3</b>	<b>20.0</b>	<b>22.7</b>	<b>20.7</b>	<b>23.0</b>	<b>20.9</b>	<b>22.0</b>	<b>20.1</b>	<b>22.6</b>	<b>20.6</b>

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

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

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

	2005			2006			2007			2008			2009		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</b>	<b>11,848</b>	<b>100</b>	<b>21.7</b>	<b>12,651</b>	<b>100</b>	<b>21.8</b>	<b>15,905</b>	<b>100</b>	<b>22.0</b>	<b>19,439</b>	<b>100</b>	<b>22.2</b>	<b>21,199</b>	<b>100</b>	<b>22.1</b>
African American/Black	986	8	16.6	1,018	8	16.6	1,302	8	16.8	1,617	8	16.8	2,309	11	16.6
American Indian/Alaska Native	25	0	21.2	27	0	19.0	31	0	20.4	30	0	19.7	46	0	22.3
Caucasian American/White	9,070	77	22.2	9,059	72	22.2	10,830	68	22.4	14,327	74	22.6	15,935	75	22.8
Hispanic	209	2	20.0	197	2	20.5	280	2	19.5	357	2	20.0	558	3	19.4
Asian American/Pacific Islander	263	2	23.7	266	2	23.4	327	2	23.3	500	3	24.1	663	3	23.7
Other/No Response	1,295	11	22.3	2,084	16	22.3	3,135	20	22.8	2,608	13	23.4	1,688	8	22.6

# Section II

# Academic Achievement

Total Students in Report: 21,199

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

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	80	100	78	100	251	100	58	100	3	100	36
35	257	100	171	100	100	99	104	100	54	100	35
34	419	98	256	99	401	98	148	99	147	100	34
33	334	96	370	98	641	96	169	99	217	99	33
32	406	95	342	96	552	93	170	98	333	98	32
31	420	93	433	94	746	91	307	97	491	96	31
30	606	91	391	92	859	87	402	95	600	94	30
29	566	88	768	90	619	83	438	94	721	91	29
28	874	85	919	87	809	80	526	92	923	88	28
27	718	81	1,018	82	727	77	697	89	1,007	84	27
26	966	78	1,291	78	925	73	970	86	1,145	79	26
25	1,283	73	1,416	72	906	69	1,807	81	1,304	73	25
24	1,205	67	1,412	65	1,286	64	1,296	73	1,372	67	24
23	1,229	62	1,219	58	1,185	58	1,574	67	1,460	61	23
22	1,421	56	1,028	52	1,209	53	1,739	59	1,479	54	22
21	1,518	49	1,143	48	1,547	47	1,768	51	1,492	47	21
20	1,278	42	1,056	42	1,112	40	2,073	43	1,448	40	20
19	1,119	36	1,214	37	1,326	35	1,549	33	1,348	33	19
18	976	31	1,208	31	784	28	1,405	25	1,246	27	18
17	860	26	1,577	26	1,188	25	721	19	1,101	21	17
16	933	22	1,891	18	970	19	784	15	959	16	16
15	980	18	1,168	9	767	14	569	12	835	11	15
14	598	13	516	4	834	11	535	9	629	7	14
13	516	10	202	1	580	7	488	7	434	4	13
12	458	8	66	1	344	4	309	4	271	2	12
11	365	6	25	1	285	3	285	3	107	1	11
10	308	4	10	1	111	1	139	1	47	1	10
9	262	2	2	1	57	1	100	1	17	1	9
8	135	1	1	1	44	1	31	1	3	1	8
7	67	1	1	1	13	1	8	1	5	1	7
6	28	1	3	1	7	1	16	1	1	1	6
5	10	1	0	1	8	1	2	1	0	1	5
4	2	1	2	1	4	1	2	1	0	1	4
3	2	1	0	1	0	1	9	1	0	1	3
2	0	1	0	1	2	1	0	1	0	1	2
1	0	1	2	1	0	1	1	1	0	1	1
<b>Avg (SD)</b>	21.7 (6.3)		22.2 (5.4)		22.4 (6.2)		21.5 (5.1)		22.1 (5.2)		<b>Avg (SD)</b>

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 21,199

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subtest Score Averages**

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies		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	1,040	100	295	100	830	100	1,280	100	1,085	100	240	100	281	100	18
17	1,118	95	289	99	924	96	848	94	1,717	95	350	99	155	99	17
16	1,113	90	1,306	97	1,249	92	2,074	90	1,408	87	768	97	995	98	16
15	1,366	85	1,604	91	1,666	86	2,047	80	1,626	80	922	94	1,457	93	15
14	1,350	78	1,740	84	1,490	78	1,974	71	1,585	72	2,539	89	1,790	86	14
13	1,589	72	1,999	75	1,547	71	1,175	61	1,637	65	1,737	77	3,065	78	13
12	1,754	64	2,578	66	2,073	64	1,722	56	2,233	57	2,577	69	1,792	63	12
11	1,893	56	2,336	54	1,997	54	1,882	48	1,867	47	2,374	57	2,610	55	11
10	2,141	47	2,485	43	1,837	44	1,623	39	1,682	38	3,499	46	2,487	43	10
9	2,083	37	1,971	31	2,459	36	1,328	31	1,585	30	2,315	29	2,239	31	9
8	1,404	27	1,630	22	1,750	24	1,745	25	1,975	23	1,665	18	1,713	20	8
7	1,370	21	1,197	14	1,588	16	1,211	17	1,733	13	975	10	820	12	7
6	1,098	14	597	8	829	8	896	11	715	5	438	6	621	8	6
5	848	9	533	6	455	5	840	7	185	2	422	4	538	6	5
4	571	5	384	3	196	2	340	3	118	1	172	2	299	3	4
3	333	2	203	1	182	1	151	1	25	1	131	1	188	2	3
2	120	1	43	1	92	1	59	1	18	1	36	1	82	1	2
1	8	1	9	1	35	1	4	1	5	1	39	1	67	1	1
Avg (SD)	11.0 (3.9)		11.1 (3.2)		11.2 (3.6)		11.7 (3.9)		11.9 (3.6)		11.0 (2.9)		11.0 (3.2)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

**Table 2.3. ACT Score Quartile Values**

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	26	26	27	25	26
Q2 (50th Percentile)	22	22	22	21	22
Q1 (25th Percentile)	17	17	18	18	18

Total Students in Report: 21,199

**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 <sup>1</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	<b>All Students</b>	<b>21,199</b>	<b>78</b>	<b>22.6</b>	<b>20.6</b>
	African American/Black	2,309	58	17.2	15.9
	American Indian/Alaska Native	46	83	22.8	21.4
	Caucasian American/White	15,935	82	23.1	21.8
	Hispanic	558	65	20.5	18.2
	Asian American/Pacific Islander	663	77	24.3	22.2
	Other/No Response	1,688	73	23.5	20.8
National	<b>All Students</b>	<b>1,480,469</b>	<b>70</b>	<b>22.0</b>	<b>19.1</b>
	African American/Black	196,149	64	17.6	15.9
	American Indian/Alaska Native	15,773	59	20.1	17.4
	Caucasian American/White	941,206	73	23.0	20.1
	Hispanic	133,569	67	19.6	17.3
	Asian American/Pacific Islander	59,093	80	23.7	21.4
	Other/No Response	134,679	63	22.2	19.0

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

**Table 2.5. Average ACT Scores by Race/Ethnicity**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	<b>All Students</b>	21.7	22.2	22.4	21.5	22.1
	African American/Black	15.5	17.1	16.7	16.5	16.6
	American Indian/Alaska Native	21.4	22.3	23.3	22.0	22.3
	Caucasian American/White	22.6	22.8	23.3	22.2	22.8
	Hispanic	18.6	19.8	19.8	18.9	19.4
	Asian American/Pacific Islander	22.8	25.3	23.2	23.0	23.7
	Other/No Response	22.3	22.8	23.0	21.9	22.6
National	<b>All Students</b>	20.6	21.0	21.4	20.9	21.1
	African American/Black	16.0	17.1	16.9	17.2	16.9
	American Indian/Alaska Native	17.9	18.7	19.4	19.1	18.9
	Caucasian American/White	21.9	21.9	22.6	21.9	22.2
	Hispanic	17.7	19.1	18.9	18.8	18.7
	Asian American/Pacific Islander	22.6	24.5	22.7	22.7	23.2
	Other/No Response	20.4	21.0	21.3	20.7	20.9

Total Students in Report: 21,199

**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	1,090	5	875	4	1,393	7	479	2
	28 to 32	2,872	14	2,853	13	3,585	17	1,843	9
	24 to 27	4,172	20	5,137	24	3,844	18	4,770	23
	20 to 23	5,446	26	4,446	21	5,053	24	7,154	34
	16 to 19	3,888	18	5,890	28	4,268	20	4,459	21
	13 to 15	2,094	10	1,886	9	2,181	10	1,592	8
	01 to 12	1,637	8	112	1	875	4	902	4
National	33 to 36	60,269	4	45,198	3	74,801	5	26,524	2
	28 to 32	154,245	10	139,060	9	205,090	14	104,787	7
	24 to 27	251,396	17	293,477	20	226,630	15	287,693	19
	20 to 23	376,203	25	300,212	20	361,756	24	492,815	33
	16 to 19	303,385	20	495,592	33	334,831	23	367,167	25
	13 to 15	179,194	12	198,214	13	195,336	13	131,197	9
	01 to 12	155,777	11	8,716	1	82,025	6	70,286	5

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	8,688	41	21.3	23.1	22.4	22.1	22.3
	Females	12,430	59	21.9	21.6	22.4	21.1	21.9
	Missing	81	0	23.5	24.6	24.2	23.1	24.0
National	Males	668,165	45	20.2	21.6	21.3	21.4	21.3
	Females	808,097	55	20.9	20.4	21.4	20.4	20.9
	Missing	4,207	0	20.3	21.2	21.5	20.8	21.1

**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	72	58	59	39	33
	Females	76	48	61	30	26
National	Males	65	47	52	33	27
	Females	69	38	53	24	20

Total Students in Report: 21,199

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

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>3</sup>	Avg
State	Core or More <sup>2</sup>	16,501	79	22.3	57	22.7	64	23.0	36	22.0	31	22.6
	Less than Core	4,099	61	20.0	40	20.7	49	20.9	25	20.1	22	20.6
	Missing	599	33	15.7	16	17.6	27	17.4	10	17.1	8	17.1
National	Core or More	1,039,502	75	21.7	50	21.9	59	22.3	34	21.7	28	22.0
	Less than Core	391,458	52	18.3	25	18.9	38	19.4	16	19.2	12	19.1
	Missing	49,509	35	15.9	16	17.5	25	17.3	10	17.6	7	17.2

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

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

<sup>3</sup>Composite CRB% results reflect students who meet all four subject-area benchmarks.

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

Student Group	Curriculum Taken <sup>1</sup>	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More	20,263	76	21.9	19,996	55	22.5	17,868	62	22.7	19,562	35	21.8
	Less than Core	419	45	17.2	640	12	16.9	2,784	53	21.6	1,097	12	18.4
	Missing	517	33	15.5	563	15	17.5	547	26	17.3	540	9	17.0
National	Core or More	1,367,549	70	20.9	1,334,313	46	21.4	1,287,169	55	21.7	1,206,541	32	21.5
	Less than Core	73,276	42	16.8	101,413	7	16.5	151,264	41	19.7	230,683	12	18.4
	Missing	39,644	37	16.1	44,743	17	17.5	42,036	26	17.5	43,245	11	17.7

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

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.

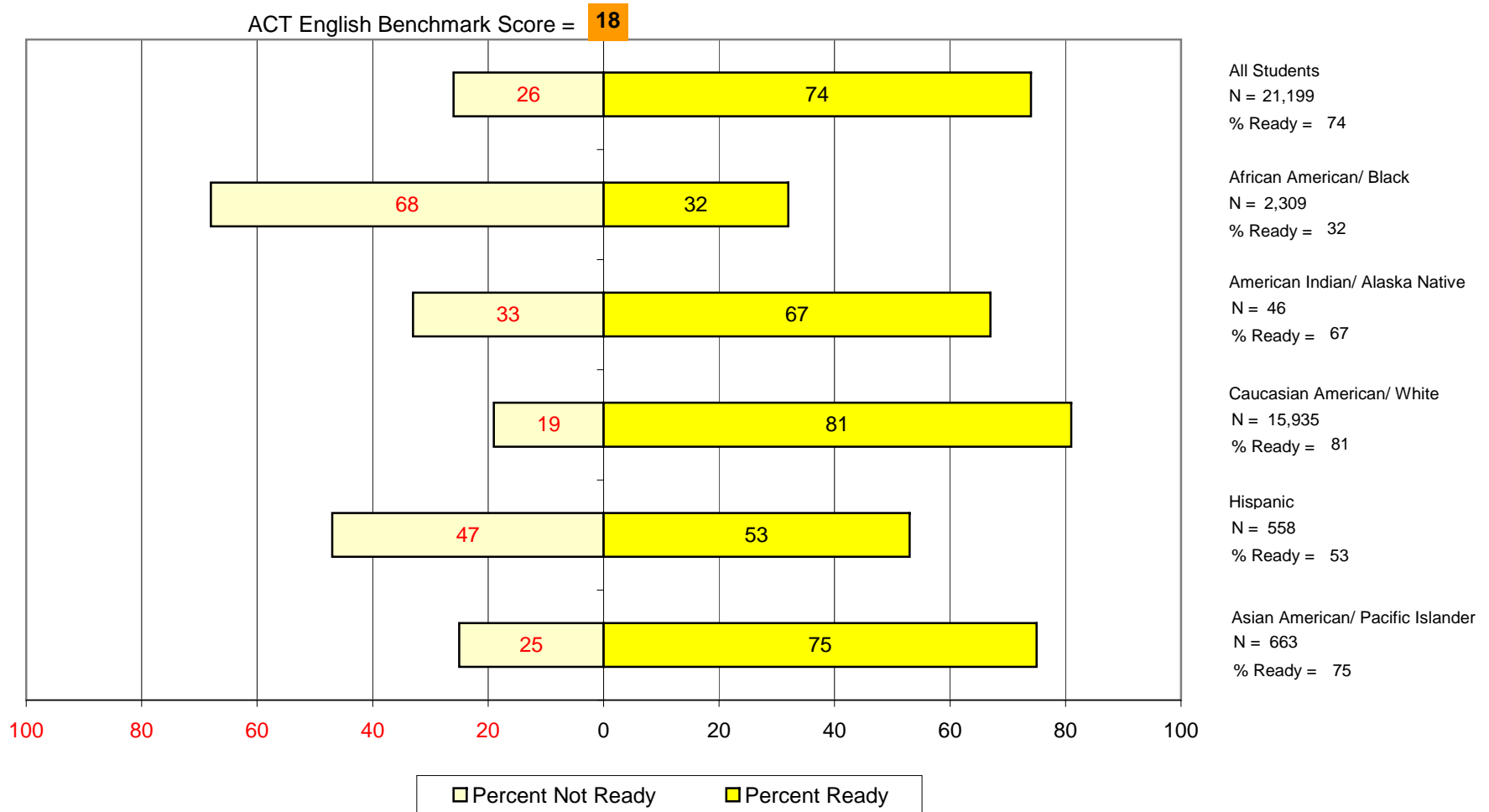


# Section III

## College Readiness and the Impact of Course Rigor

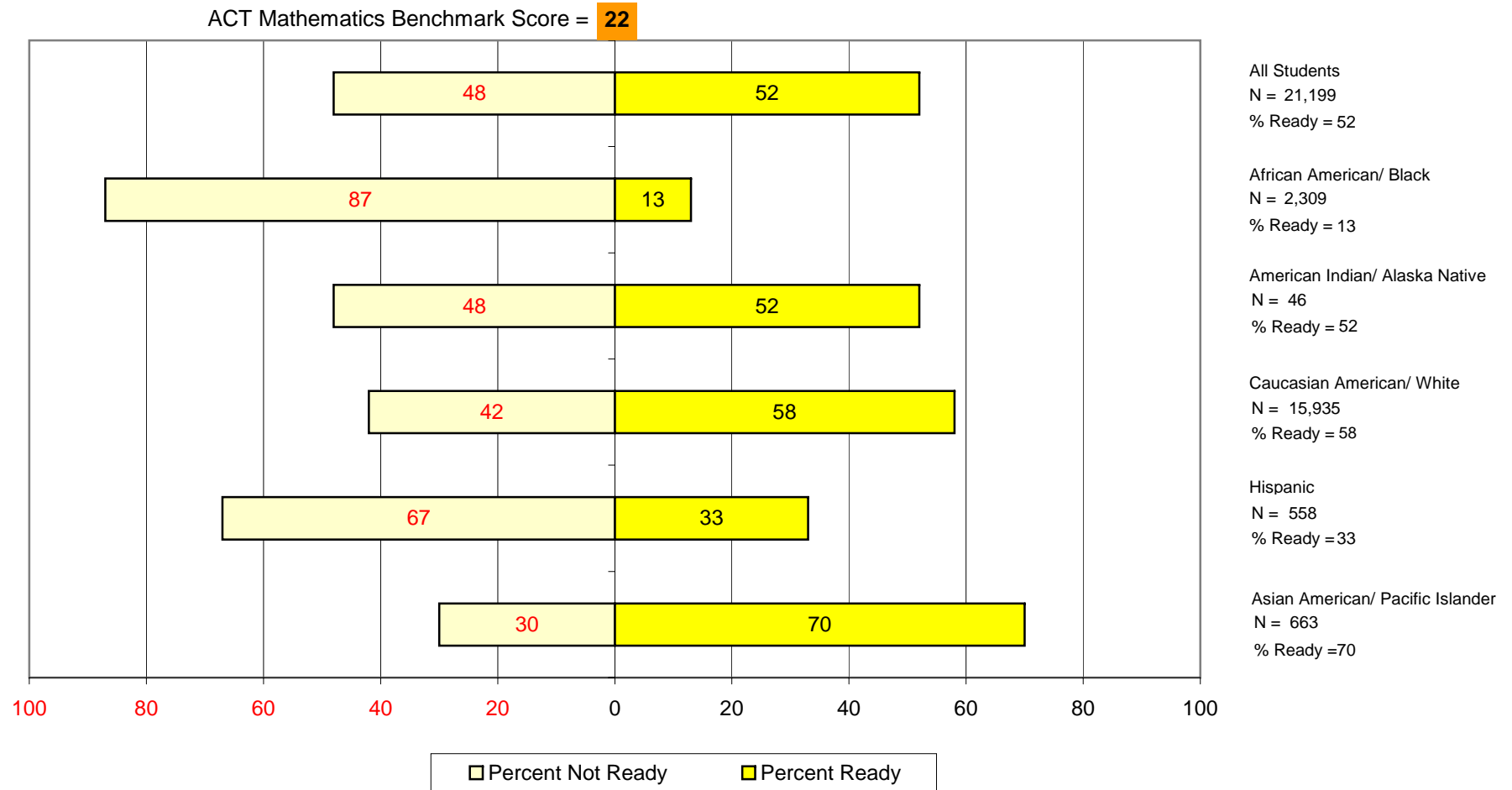
Total Students in Report: 21,199

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



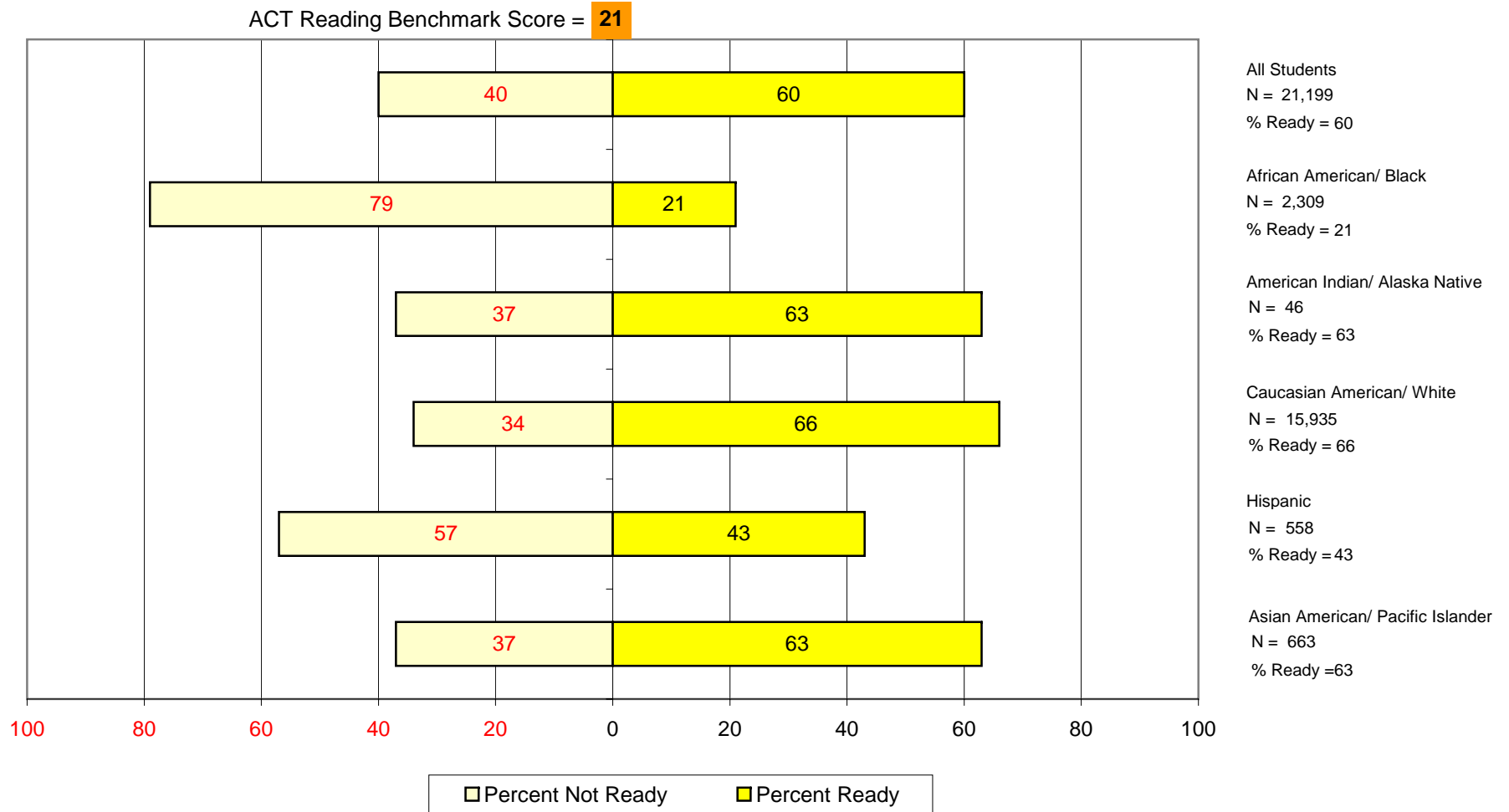
Total Students in Report: 21,199

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



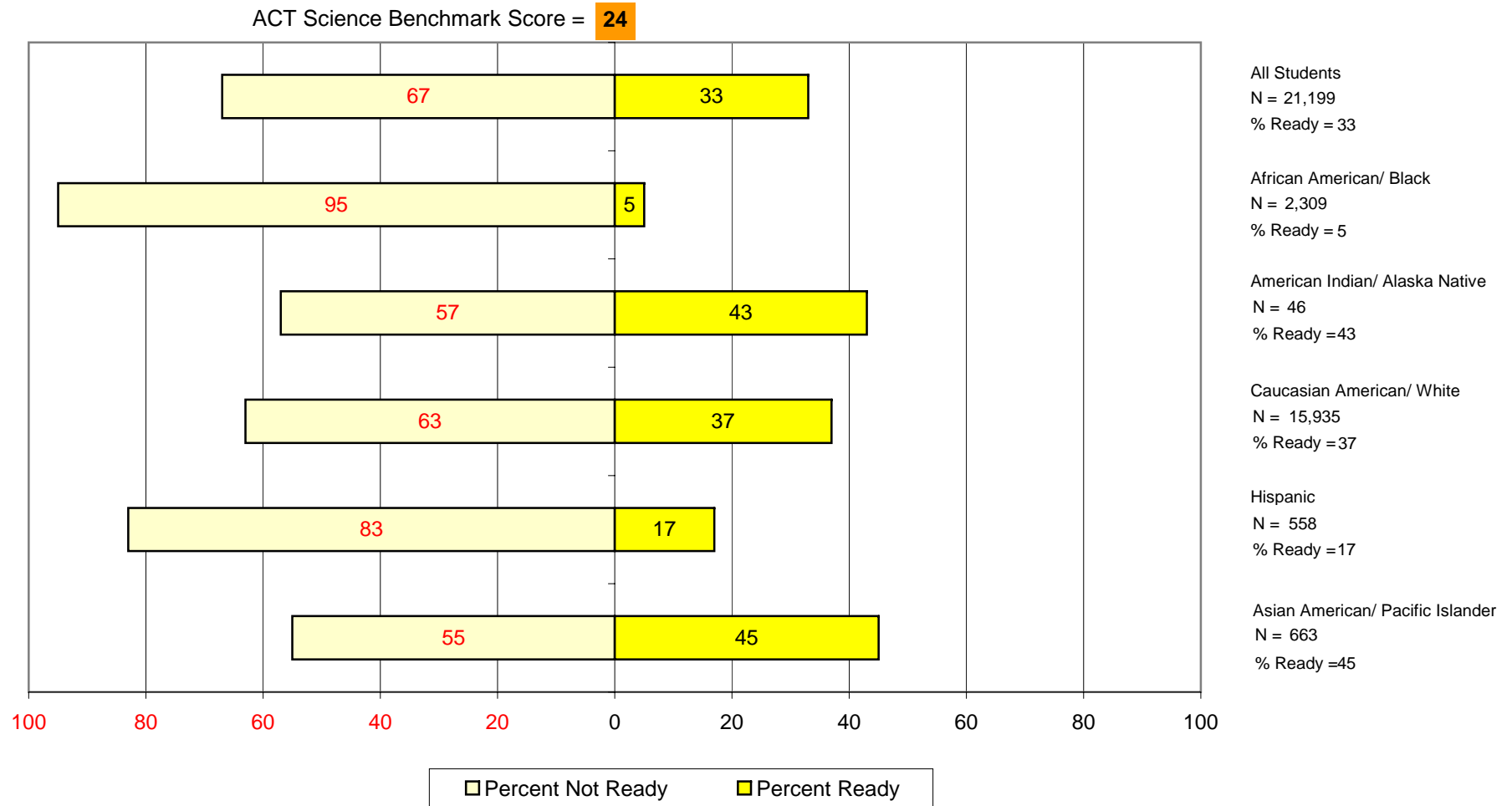
Total Students in Report: 21,199

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



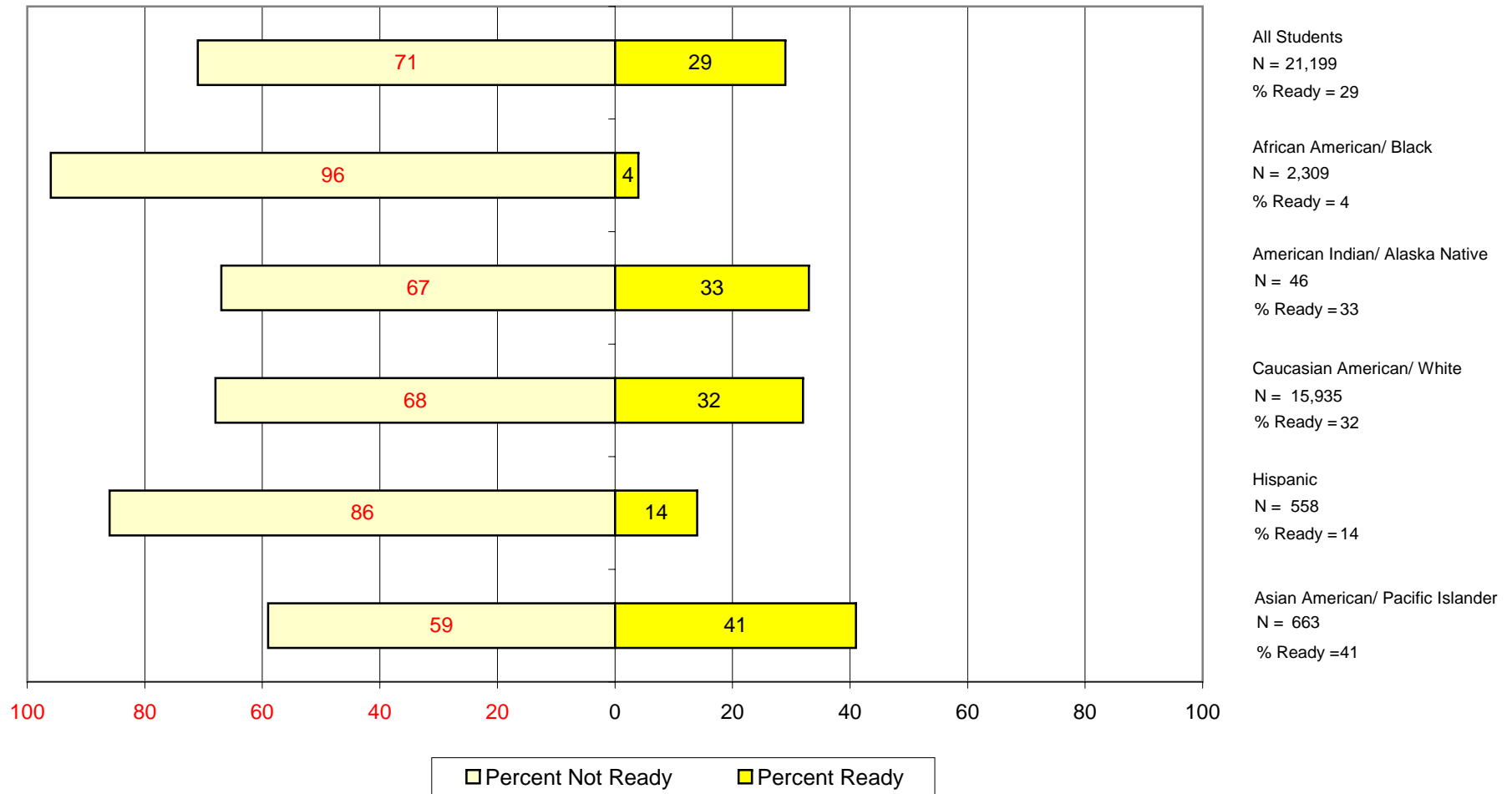
Total Students in Report: 21,199

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



Total Students in Report: 21,199

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



Total Students in Report: 21,199

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

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>
<b>ENGLISH COURSE PATTERN</b>												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	4,738	22	22.8	5.6	1,767	20	22.4	5.2	2,955	24	23.0	5.9
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	15,525	73	21.7	4.5	6,460	74	21.4	4.2	9,018	73	21.8	4.7
Less than 4 years of English	425	2	17.2	-	175	2	17.2	-	247	2	17.1	-
No English course/grade information reported	511	2	15.5	-	286	3	15.5	-	210	2	15.3	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	2,582	12	24.9	7.9	1,041	12	25.5	8.3	1,535	12	24.5	7.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,092	10	21.7	4.7	699	8	22.3	5.1	1,389	11	21.4	4.5
Alg 1, Alg 2, Geom, & Trig	1,828	9	20.0	3.0	653	8	20.3	3.1	1,170	9	19.7	2.8
Alg 1, Alg 2, Geom, & Other Adv Math	1,984	9	19.7	2.7	638	7	20.1	2.9	1,344	11	19.5	2.6
Other comb of 4 or more years of Math	8,765	41	24.4	7.4	4,056	47	25.3	8.1	4,668	38	23.6	6.7
Alg 1, Alg 2, & Geom (Min. Core)	1,766	8	17.2	0.2	635	7	17.6	0.4	1,127	9	17.0	0.1
Other comb of 3 or 3.5 years of Math	979	5	20.4	3.4	392	5	21.0	3.8	585	5	19.9	3.0
Less than 3 years of Math	676	3	17.0	-	279	3	17.2	-	395	3	16.9	-
No Math course/grade information reported	527	2	17.5	-	295	3	17.6	-	217	2	17.0	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	1,565	7	23.2	1.6	670	8	22.9	1.6	887	7	23.4	1.7
Other comb of 4 or more years Social Science	10,242	48	22.8	1.2	4,177	48	22.9	1.6	6,033	49	22.7	1.0
US Hist, World Hist, & Am Gov (Min. Core)	1,099	5	21.4	-0.2	449	5	21.7	0.4	646	5	21.2	-0.5
Other comb of 3 or 3.5 years of Social Science	4,962	23	22.7	1.1	1,985	23	22.8	1.5	2,967	24	22.7	1.0
Less than 3 years of Social Science	2,793	13	21.6	-	1,102	13	21.3	-	1,679	14	21.7	-
No Soc Sci course/grade information reported	538	3	17.3	-	305	4	17.4	-	218	2	16.9	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	12,417	59	22.3	3.9	5,413	62	23.0	4.9	6,961	56	21.8	3.3
Bio, Chem, Phys	2,079	10	23.9	5.5	865	10	24.9	6.8	1,207	10	23.3	4.8
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	4,742	22	19.6	1.2	1,539	18	19.5	1.4	3,192	26	19.6	1.1
Other comb of 3 years of Natural Science	324	2	19.8	1.4	155	2	20.5	2.4	168	1	19.3	0.8
Less than 3 years of Natural Science	1,104	5	18.4	-	418	5	18.1	-	682	5	18.5	-
No Nat Sci course/grade information reported	533	3	17.0	-	298	3	17.0	-	220	2	16.7	-

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

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

Total Students in Report: 21,199

**Table 3.2. College Readiness Percents by Common Course Patterns**

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
<b>ENGLISH COURSE PATTERN</b>								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	4,738	22	22.8	80	338,118	23	22.0	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	15,525	73	21.7	74	1,029,431	70	20.6	68
Less than 4 years of English	425	2	17.2	45	74,090	5	16.7	42
No English course/grade information reported	511	2	15.5	32	38,830	3	16.1	37
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	2,582	12	24.9	76	92,630	6	24.5	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,092	10	21.7	51	135,244	9	22.1	56
Alg 1, Alg 2, Geom, & Trig	1,828	9	20.0	34	110,962	7	20.0	35
Alg 1, Alg 2, Geom, & Other Adv Math	1,984	9	19.7	31	220,868	15	20.1	36
Other comb of 4 or more years of Math	8,765	41	24.4	70	455,130	31	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,766	8	17.2	11	248,747	17	17.5	12
Other comb of 3 or 3.5 years of Math	979	5	20.4	38	70,732	5	20.1	35
Less than 3 years of Math	676	3	17.0	12	105,591	7	16.5	7
No Math course/grade information reported	527	2	17.5	15	40,565	3	17.7	18
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	1,565	7	23.2	65	46,754	3	22.8	61
Other comb of 4 or more years Social Science	10,242	48	22.8	63	735,636	50	22.0	57
US Hist, World Hist, & Am Gov (Min. Core)	1,099	5	21.4	52	84,543	6	20.6	47
Other comb of 3 or 3.5 years of Social Science	4,962	23	22.7	62	420,236	28	21.3	52
Less than 3 years of Social Science	2,793	13	21.6	53	152,775	10	19.7	40
No Soc Sci course/grade information reported	538	3	17.3	27	40,525	3	17.5	26
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	12,417	59	22.3	39	563,824	38	22.2	39
Bio, Chem, Phys	2,079	10	23.9	54	141,531	10	23.3	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	4,742	22	19.6	18	459,833	31	20.1	21
Other comb of 3 years of Natural Science	324	2	19.8	19	41,353	3	19.8	21
Less than 3 years of Natural Science	1,104	5	18.4	12	233,215	16	18.4	11
No Nat Sci course/grade information reported	533	3	17.0	9	40,713	3	17.7	11

<sup>1</sup>Includes General, Physical and Earth Sciences.



# Section IV

## Career and Educational Aspirations

Total Students in Report: 21,199

**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 <sup>1</sup>	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp
Agriculture Sciences & Technologies	138	1	19.7	8	2	15.4	123	1	20.0
Architecture & Environmental Design	359	2	21.9	8	2	16.3	323	2	22.0
Business & Management	2,537	12	21.7	30	7	15.6	2,311	13	21.8
Business & Office	118	1	19.4	4	1	15.8	97	1	19.7
Marketing & Distribution	212	1	20.7	3	1	13.0	195	1	20.7
Communications & Comm. Technologies	798	4	21.9	4	1	15.5	721	4	22.0
Community & Personal Services	294	1	18.5	19	5	15.6	255	1	18.9
Computer & Information Sciences	393	2	22.6	10	2	20.0	335	2	22.7
Cross-Disciplinary Studies	73	0	24.8	0	0	.	67	0	25.0
Education	1,174	6	20.4	11	3	17.2	1,090	6	20.5
Teacher Education	591	3	19.8	5	1	16.6	548	3	19.9
Engineering	1,013	5	25.4	5	1	18.0	955	5	25.5
Engineering-Related Technologies	537	3	23.5	7	2	17.1	491	3	23.6
Foreign Languages	202	1	24.4	1	0	12.0	181	1	24.3
Health Sciences & Allied Health Fields	3,812	18	21.5	142	34	17.3	3,452	19	21.8
Human, Family & Consumer Science	140	1	19.7	13	3	17.2	115	1	20.0
Letters	153	1	25.4	2	0	15.0	134	1	25.7
Mathematics	219	1	25.1	3	1	15.3	195	1	25.2
Philosophy, Religion & Theology	102	0	22.5	5	1	19.0	94	1	22.8
Sciences (Biological & Physical)	1,947	9	24.3	8	2	17.5	1,834	10	24.3
Social Sciences	1,578	7	23.2	10	2	16.6	1,477	8	23.3
Trade & Industrial	74	0	17.7	31	7	17.0	37	0	18.2
Visual & Performing Arts	1,004	5	21.5	31	7	17.1	882	5	21.7
Undecided	2,902	14	22.5	53	13	16.8	2,335	13	22.6
No Response	829	4	17.1	6	1	13.5	108	1	19.5

<sup>1</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" institution types, therefore they may not add up to the N count for All Students.

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

Total Students in Report: 21,199

**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	63	16.5	12	15.3	0	.	43	16.9	3	13.0	0	.	5	18.4
2-yr College Degree	356	16.9	58	13.9	0	.	266	17.7	9	16.7	6	17.3	17	15.2
Bachelors Degree	7,640	20.5	699	15.5	19	21.0	6,188	21.1	174	18.9	130	20.4	430	20.8
Graduate Study	4,805	23.5	317	17.9	8	25.9	3,975	24.0	96	22.2	119	24.7	290	24.0
Prof. Level Degree	5,910	23.8	713	18.0	13	24.6	4,150	24.8	155	21.2	310	25.3	569	23.9
Other	366	19.0	51	15.4	2	16.0	248	19.9	11	17.4	17	20.1	37	18.9
No Response	2,059	20.9	459	15.6	4	17.5	1,065	23.1	110	15.9	81	22.3	340	22.6

Total Students in Report: 21,199

**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	3,453	1,276	2,177	2	7	19	28	28	15	1
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,069	753	1,316	1	3	12	32	34	18	1
TEMPLE UNIVERSITY	Pennsylvania	1,274	385	889	5	15	27	28	18	7	0
DUQUESNE UNIVERSITY	Pennsylvania	823	252	571	0	3	14	38	34	11	1
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	803	258	545	2	12	40	31	12	3	0
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	785	194	591	4	14	35	33	12	2	0
DREXEL UNIVERSITY	Pennsylvania	775	196	579	4	9	21	25	25	15	1
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	765	179	586	3	15	38	29	11	3	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	669	275	394	2	6	11	15	26	34	6
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	635	190	445	3	14	37	33	12	2	0
NCAA ELIGIBILITY CENTER	Indiana	579	326	253	2	12	29	30	20	7	0
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	501	129	372	4	12	33	35	13	4	0
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	500	169	331	3	14	41	29	10	2	0
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	459	161	298	2	17	43	27	9	2	0
VILLANOVA UNIVERSITY	Pennsylvania	448	98	350	2	7	14	22	28	26	2
WEST VIRGINIA UNIVERSITY	West Virginia	438	129	309	1	4	24	39	27	5	0
GANNON UNIVERSITY	Pennsylvania	426	113	313	2	9	26	34	22	7	0
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	405	97	308	3	15	37	30	11	4	0
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	405	101	304	3	14	40	26	12	3	0
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	403	87	316	4	15	40	31	9	0	0
UNIVERSITY OF DELAWARE	Delaware	390	94	296	0	3	14	31	35	17	1
CARNEGIE MELLON UNIVERSITY	Pennsylvania	309	89	220	0	1	4	17	27	41	10
ROBERT MORRIS UNIVERSITY	Pennsylvania	305	74	231	1	13	31	36	15	3	0
MERCYHURST COLLEGE	Pennsylvania	292	80	212	3	13	33	28	18	4	1
LEHIGH UNIVERSITY	Pennsylvania	290	52	238	1	2	6	17	34	38	2
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	281	66	215	3	15	41	28	11	2	0
BUCKNELL UNIVERSITY	Pennsylvania	272	64	208	0	2	4	20	36	33	5
LOCK HAVEN U OF PENNSYLVANIA	Pennsylvania	254	48	206	5	18	41	26	9	1	0
BOSTON UNIVERSITY	Massachusetts	251	80	171	0	0	6	20	36	35	4
OHIO STATE UNIVERSITY THE	Ohio	249	62	187	1	2	12	34	37	14	0
All Other Institutions		21,211	5,714	15,497	2	9	20	27	23	17	2
<b>Total</b>		<b>40,719</b>	<b>11,791</b>	<b>28,928</b>	<b>2</b>	<b>9</b>	<b>22</b>	<b>28</b>	<b>23</b>	<b>14</b>	<b>2</b>

# Section V Optional Writing Test Results

Total Students in Report: 21,199

**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
<b>All Students</b>	<b>14,354</b>	<b>814,713</b>	<b>22.8</b>	<b>21.5</b>	<b>7.5</b>	<b>7.2</b>	<b>22.1</b>	<b>20.8</b>
African American/Black	1,290	96,225	16.6	16.5	6.5	6.4	16.6	16.5
American Indian/Alaska Native	30	5,489	21.7	18.9	7.3	6.7	21.1	18.5
Caucasian American/White	10,910	497,164	23.5	22.8	7.6	7.3	22.7	21.9
Hispanic	369	85,681	19.8	18.4	7.0	7.0	19.4	18.4
Asian American/Pacific Islander	532	44,716	23.9	23.5	7.7	7.6	23.1	22.8
Other/No Response	1,223	85,438	23.5	21.4	7.5	7.2	22.6	20.8
Males	5,701	357,025	22.6	21.1	7.2	6.9	21.7	20.3
Females	8,594	455,190	23.0	21.7	7.6	7.4	22.3	21.2
Missing	59	2,498	24.3	22.1	7.5	7.2	23.2	21.3



