

# ACT Profile Report - State

Graduating Class 2009  
Missouri





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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

25% 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:** 46,923 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. 65% 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 9% of the cohort took less than three years of math courses. Of these students, 9% were college ready. 15% of the cohort reported taking the minimum math core (Algebra I, Algebra II, and Geometry). 13% of these students were college ready. In comparison, 54% 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 20% of the cohort took less than three years of natural science courses. 17% of these students were college ready. In comparison, 37% 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 48% 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.

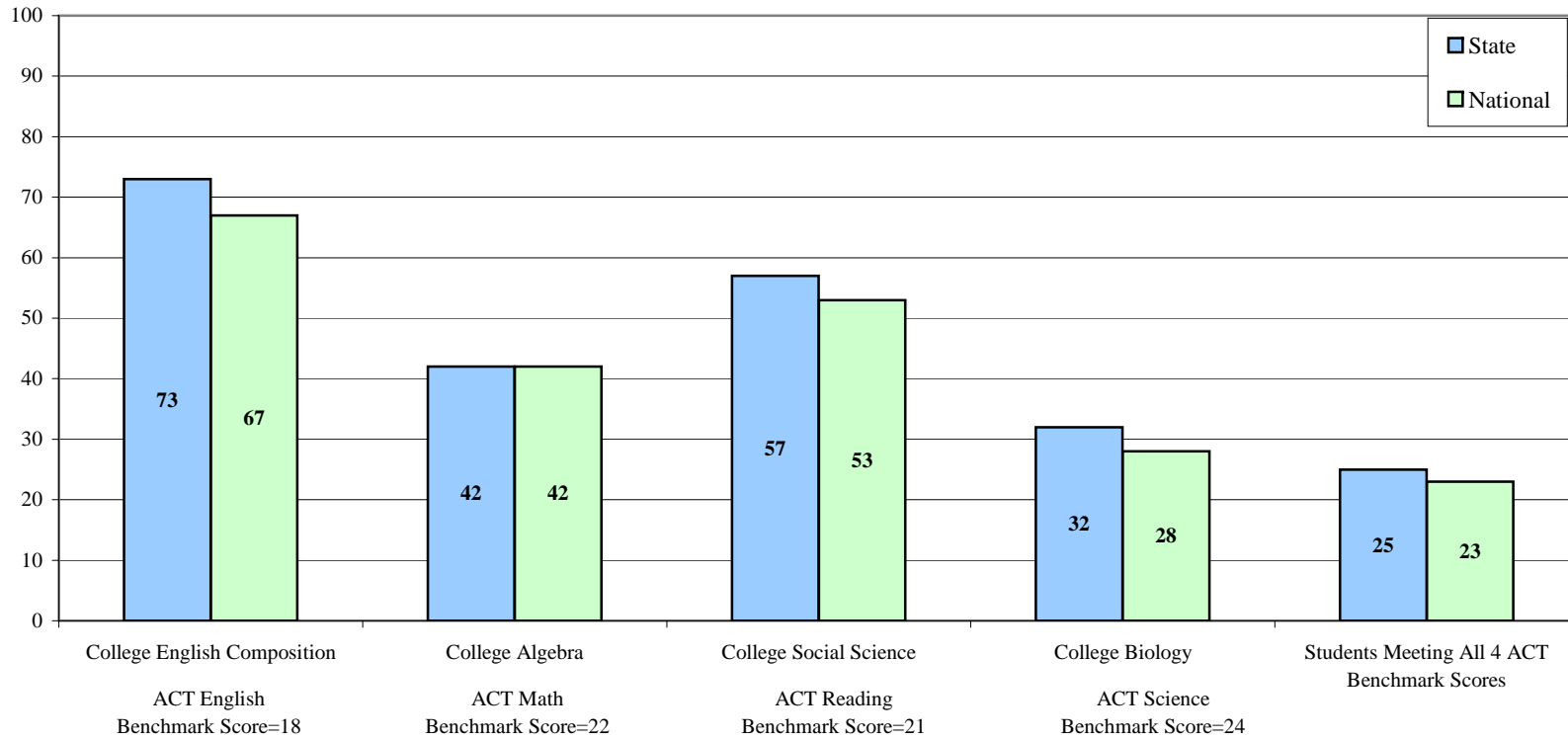
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 847-634-2560.

# Section I

## Executive Summary

Total Students in Report: 46,923

**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: 46,923

**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	42,705	1,186,251	74	68	42	41	56	51	30	26	23	21
2006	42,885	1,206,455	74	69	43	42	57	53	30	27	24	21
2007	45,354	1,300,599	74	69	42	43	56	53	31	28	25	23
2008	47,240	1,421,941	73	68	42	43	57	53	31	28	24	22
<b>2009</b>	<b>46,923</b>	<b>1,480,469</b>	<b>73</b>	<b>67</b>	<b>42</b>	<b>42</b>	<b>57</b>	<b>53</b>	<b>32</b>	<b>28</b>	<b>25</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	42,705	1,186,251	21.4	20.4	20.9	20.7	21.9	21.3	21.5	20.9	21.6	20.9
2006	42,885	1,206,455	21.5	20.6	21.0	20.8	22.0	21.4	21.5	20.9	21.6	21.1
2007	45,354	1,300,599	21.5	20.7	21.0	21.0	22.1	21.5	21.5	21.0	21.6	21.2
2008	47,240	1,421,941	21.4	20.6	21.0	21.0	22.0	21.4	21.4	20.8	21.6	21.1
<b>2009</b>	<b>46,923</b>	<b>1,480,469</b>	<b>21.5</b>	<b>20.6</b>	<b>20.9</b>	<b>21.0</b>	<b>22.1</b>	<b>21.4</b>	<b>21.5</b>	<b>20.9</b>	<b>21.6</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: 46,923

**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	24,396	15,499	57	36	22.7	19.3	22.1	19.0	23.0	20.2	22.4	20.0	22.7	19.8
2006	22,852	15,689	53	37	22.9	19.7	22.2	19.4	23.2	20.6	22.5	20.2	22.8	20.1
2007	21,252	16,305	47	36	22.9	19.9	22.3	19.6	23.3	20.9	22.6	20.4	22.9	20.3
2008	27,219	15,728	58	33	22.9	19.7	22.2	19.4	23.2	20.7	22.5	20.1	22.8	20.1
<b>2009</b>	<b>30,628</b>	<b>13,914</b>	<b>65</b>	<b>30</b>	<b>22.9</b>	<b>19.6</b>	<b>22.0</b>	<b>19.2</b>	<b>23.2</b>	<b>20.6</b>	<b>22.5</b>	<b>20.0</b>	<b>22.8</b>	<b>20.0</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>42,705</b>	<b>100</b>	<b>21.6</b>	<b>42,885</b>	<b>100</b>	<b>21.6</b>	<b>45,354</b>	<b>100</b>	<b>21.6</b>	<b>47,240</b>	<b>100</b>	<b>21.6</b>	<b>46,923</b>	<b>100</b>	<b>21.6</b>
African American/Black	4,196	10	17.4	4,201	10	17.4	4,563	10	17.3	5,190	11	17.2	5,446	12	17.2
American Indian/Alaska Native	224	1	20.1	237	1	20.2	254	1	20.5	278	1	20.1	258	1	20.3
Caucasian American/White	33,910	79	22.1	32,900	77	22.2	32,801	72	22.3	35,534	75	22.3	35,874	76	22.4
Hispanic	770	2	20.6	801	2	20.8	926	2	20.2	1,056	2	20.4	1,066	2	20.2
Asian American/Pacific Islander	744	2	23.2	818	2	23.0	807	2	23.0	873	2	23.0	849	2	23.8
Other/No Response	2,861	7	21.6	3,928	9	21.1	6,003	13	21.4	4,309	9	21.1	3,430	7	20.3

# Section II

# Academic Achievement

Total Students in Report: 46,923

**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	247	100	146	100	536	100	142	100	29	100	36
35	762	99	214	100	234	99	265	100	150	100	35
34	863	98	375	99	750	98	315	99	288	100	34
33	789	96	588	98	1,184	97	350	98	450	99	33
32	800	94	478	97	947	94	347	98	684	98	32
31	842	93	571	96	1,281	92	597	97	1,058	97	31
30	1,220	91	593	95	1,772	89	754	96	855	94	30
29	1,173	88	1,070	94	1,382	86	967	94	1,171	93	29
28	1,550	86	1,305	91	1,660	83	1,067	92	1,589	90	28
27	1,436	82	1,667	89	1,740	79	1,327	90	1,927	87	27
26	2,140	79	2,244	85	1,830	76	2,086	87	2,116	83	26
25	2,645	75	2,485	80	1,833	72	3,717	82	2,631	78	25
24	2,482	69	2,943	75	2,535	68	2,961	75	3,021	72	24
23	2,685	64	2,620	69	2,958	62	3,733	68	3,263	66	23
22	3,181	58	2,326	63	2,875	56	3,761	60	3,497	59	22
21	3,440	51	2,688	58	3,387	50	3,932	52	3,597	52	21
20	3,156	44	2,408	52	3,063	43	5,167	44	3,477	44	20
19	2,769	37	3,015	47	3,069	36	3,692	33	3,524	36	19
18	2,049	31	3,374	41	2,065	30	3,135	25	3,244	29	18
17	2,103	27	4,472	34	2,434	25	1,794	18	2,857	22	17
16	2,249	23	5,158	24	2,541	20	1,883	15	2,309	16	16
15	2,277	18	3,653	13	1,868	15	1,272	11	1,864	11	15
14	1,399	13	1,721	5	1,840	11	1,116	8	1,507	7	14
13	1,126	10	529	2	1,351	7	960	5	1,018	4	13
12	1,004	8	178	1	927	4	651	3	537	2	12
11	791	5	64	1	524	2	510	2	202	1	11
10	715	4	21	1	185	1	224	1	37	1	10
9	547	2	6	1	80	1	129	1	13	1	9
8	296	1	1	1	37	1	39	1	3	1	8
7	130	1	2	1	21	1	13	1	3	1	7
6	33	1	5	1	3	1	8	1	1	1	6
5	14	1	0	1	6	1	5	1	0	1	5
4	8	1	1	1	5	1	0	1	1	1	4
3	0	1	0	1	0	1	3	1	0	1	3
2	1	1	0	1	0	1	0	1	0	1	2
1	1	1	2	1	0	1	1	1	0	1	1
<b>Avg (SD)</b>	21.5 (6.2)		20.9 (5.1)		22.1 (6.0)		21.5 (4.9)		21.6 (5.0)		<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: 46,923

**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	2,173	100	934	100	1,667	100	2,286	100	1,631	100	383	100	406	100	18
17	1,940	95	817	98	1,841	96	1,923	95	2,493	97	467	99	272	99	17
16	2,309	91	3,054	96	2,772	93	3,626	91	2,033	91	1,169	98	1,555	99	16
15	2,629	86	3,468	90	3,302	87	3,925	83	2,695	87	1,377	96	1,971	95	15
14	2,354	81	3,748	82	3,058	80	3,972	75	3,067	81	4,076	93	3,289	91	14
13	3,442	76	4,268	74	4,076	73	2,738	66	3,283	75	3,475	84	5,293	84	13
12	3,793	68	5,601	65	4,349	64	3,865	61	4,524	68	4,846	77	3,900	73	12
11	4,198	60	5,192	53	4,180	55	4,738	52	4,249	58	5,641	66	5,524	64	11
10	5,524	51	5,445	42	5,475	46	3,972	42	4,553	49	8,792	54	6,640	53	10
9	4,644	40	4,676	31	4,891	35	3,281	34	4,151	39	6,410	36	5,874	39	9
8	3,506	30	3,476	21	4,697	24	4,030	27	5,502	30	4,534	22	4,908	26	8
7	3,489	22	2,538	13	3,471	14	2,768	18	5,155	19	2,413	12	2,491	16	7
6	2,810	15	1,306	8	1,722	7	2,464	12	2,310	8	1,162	7	2,034	10	6
5	1,829	9	1,241	5	667	3	2,066	7	862	3	1,186	5	1,211	6	5
4	1,371	5	800	2	353	2	829	3	284	1	479	2	724	3	4
3	658	2	296	1	259	1	346	1	91	1	388	1	541	2	3
2	222	1	58	1	108	1	86	1	34	1	46	1	169	1	2
1	32	1	5	1	35	1	8	1	6	1	79	1	121	1	1
Avg (SD)	10.7 (3.8)		11.2 (3.3)		11.2 (3.4)		11.3 (3.8)		11.0 (3.5)		10.5 (2.8)		10.4 (3.1)		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	25	26	25	25
Q2 (50th Percentile)	21	20	22	21	21
Q1 (25th Percentile)	17	17	17	18	18

Total Students in Report: 46,923

**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>46,923</b>	<b>65</b>	<b>22.8</b>	<b>20.0</b>
	African American/Black	5,446	60	18.1	16.3
	American Indian/Alaska Native	258	51	21.9	19.1
	Caucasian American/White	35,874	67	23.4	20.5
	Hispanic	1,066	59	21.4	19.2
	Asian American/Pacific Islander	849	75	24.6	21.7
	Other/No Response	3,430	52	22.8	19.9
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>	21.5	20.9	22.1	21.5	21.6
	African American/Black	16.5	17.0	17.3	17.7	17.2
	American Indian/Alaska Native	19.7	19.3	21.2	20.6	20.3
	Caucasian American/White	22.4	21.6	22.9	22.2	22.4
	Hispanic	19.9	19.7	20.7	20.2	20.2
	Asian American/Pacific Islander	23.5	24.4	23.2	23.5	23.8
	Other/No Response	20.0	19.8	20.8	20.1	20.3
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: 46,923

**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	2,661	6	1,323	3	2,704	6	1,072	2
	28 to 32	5,585	12	4,017	9	7,042	15	3,732	8
	24 to 27	8,703	19	9,339	20	7,938	17	10,091	22
	20 to 23	12,462	27	10,042	21	12,283	26	16,593	35
	16 to 19	9,170	20	16,019	34	10,109	22	10,504	22
	13 to 15	4,802	10	5,903	13	5,059	11	3,348	7
	01 to 12	3,540	8	280	1	1,788	4	1,583	3
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	21,239	45	21.3	21.7	22.2	22.1	21.9
	Females	25,612	55	21.7	20.3	22.0	20.9	21.4
	Missing	72	0	20.3	20.6	22.1	20.9	21.2
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	71	48	58	37	29
	Females	74	37	57	27	21
National	Males	65	47	52	33	27
	Females	69	38	53	24	20

Total Students in Report: 46,923

**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>	30,628	81	22.9	51	22.0	65	23.2	39	22.5	31	22.8
	Less than Core	13,914	62	19.6	27	19.2	47	20.6	20	20.0	14	20.0
	Missing	2,381	31	15.3	9	16.3	20	16.7	7	16.8	4	16.4
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	41,365	77	22.1	40,856	47	21.5	41,837	60	22.4	35,539	37	22.2
	Less than Core	3,513	52	18.0	3,761	9	16.8	3,005	50	21.2	9,284	17	19.7
	Missing	2,045	31	15.2	2,306	9	16.2	2,081	20	16.5	2,100	7	16.7
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.

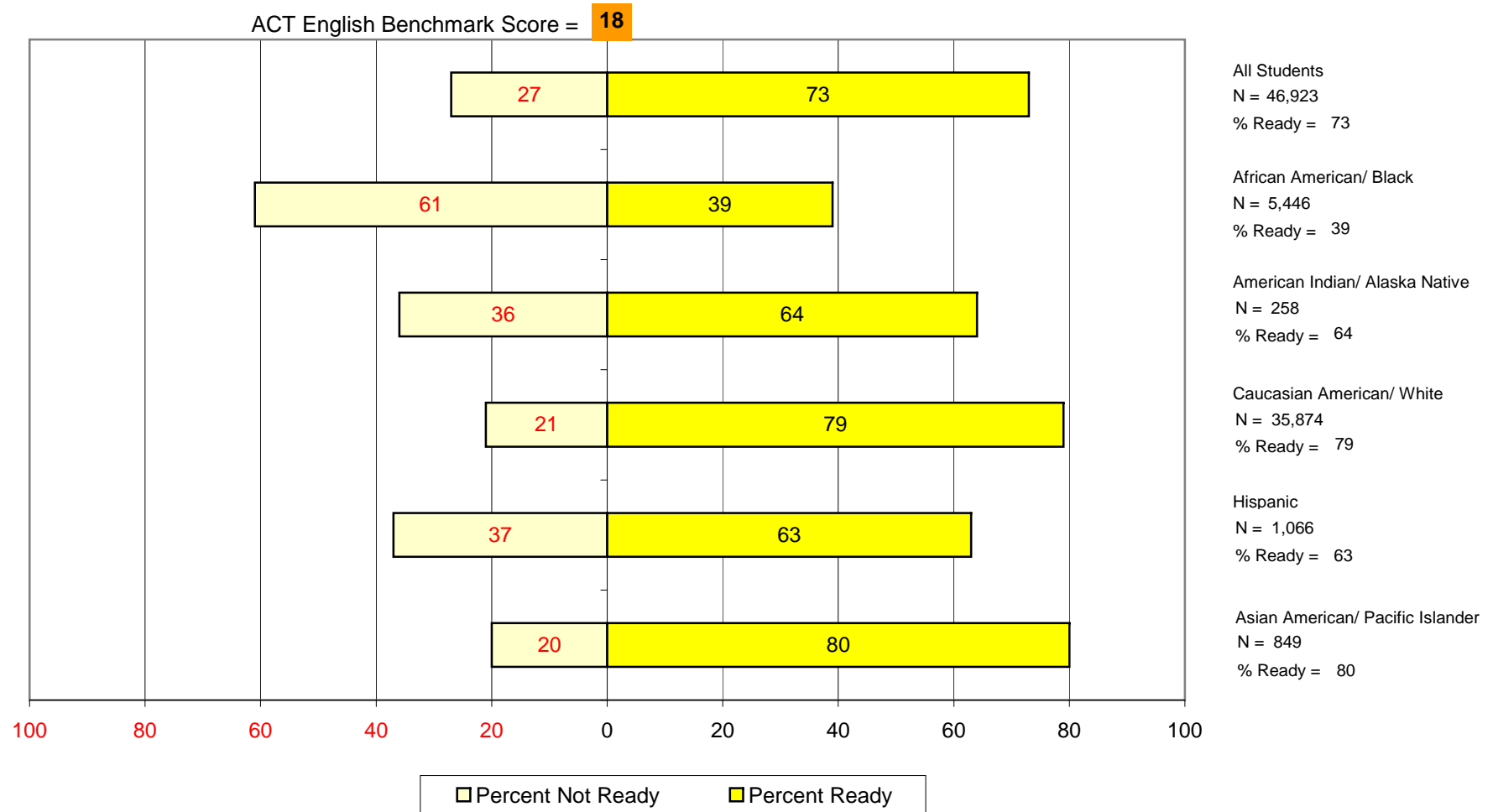


# Section III

## College Readiness and the Impact of Course Rigor

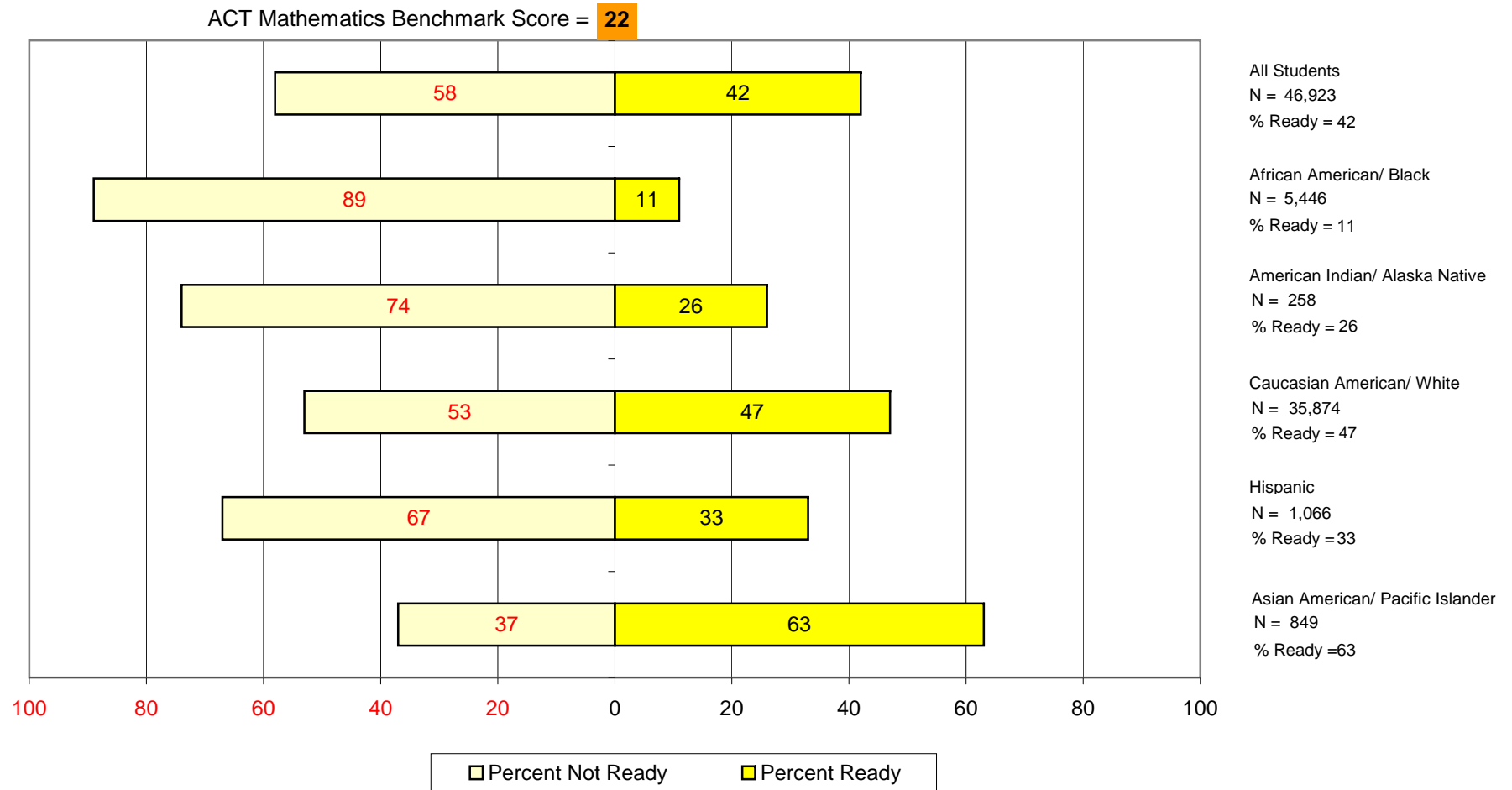
Total Students in Report: 46,923

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



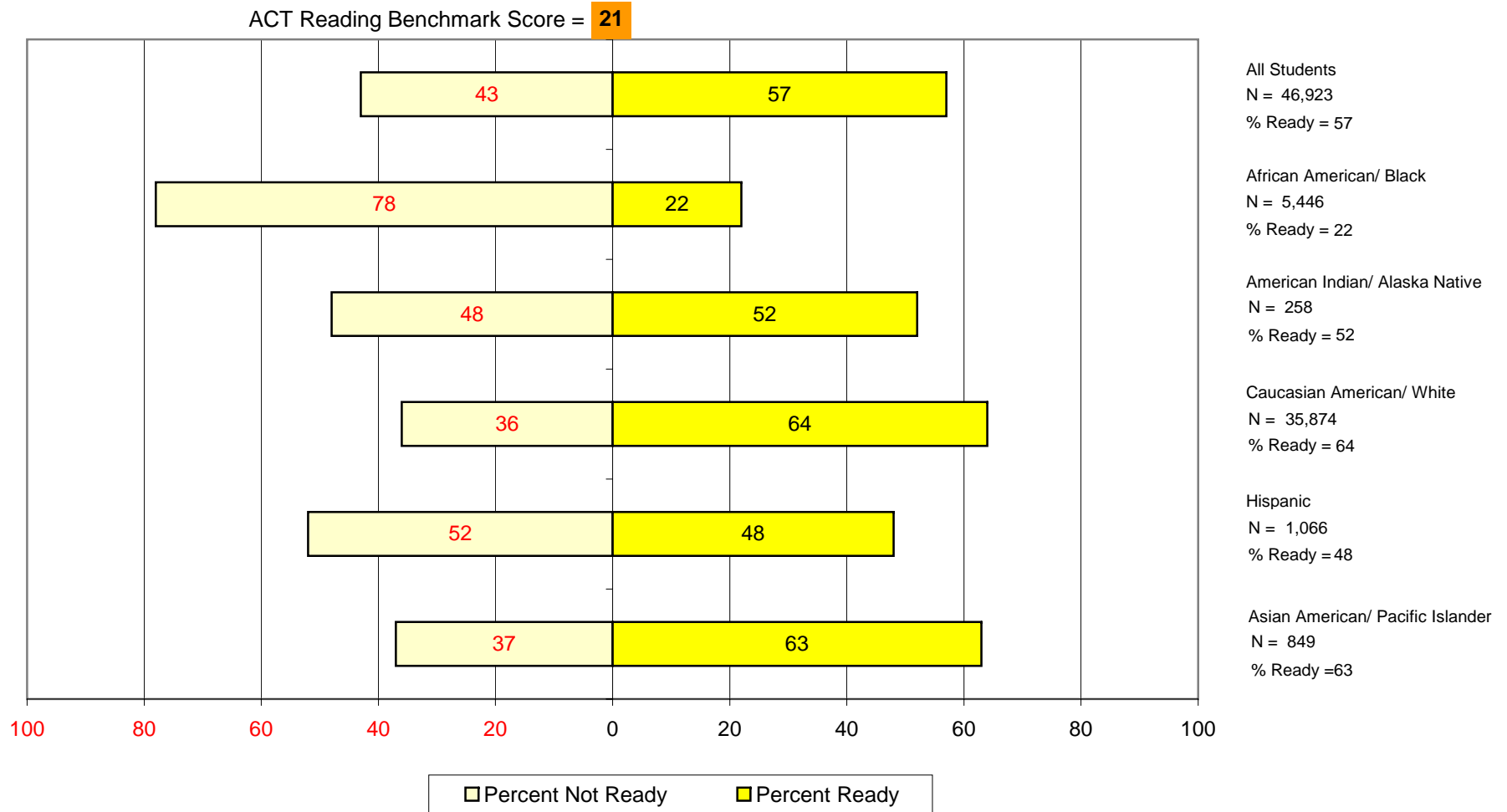
Total Students in Report: 46,923

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



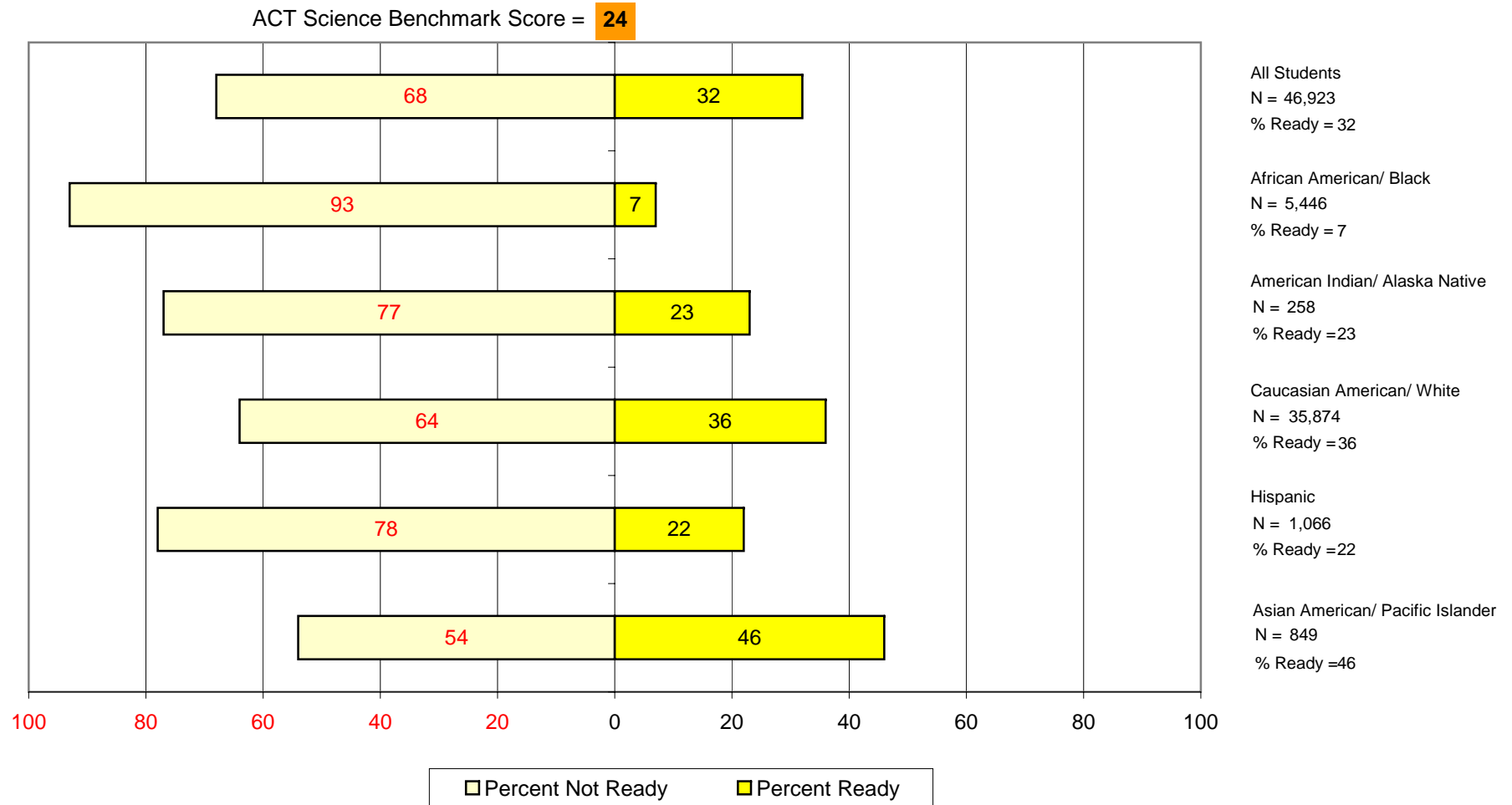
Total Students in Report: 46,923

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



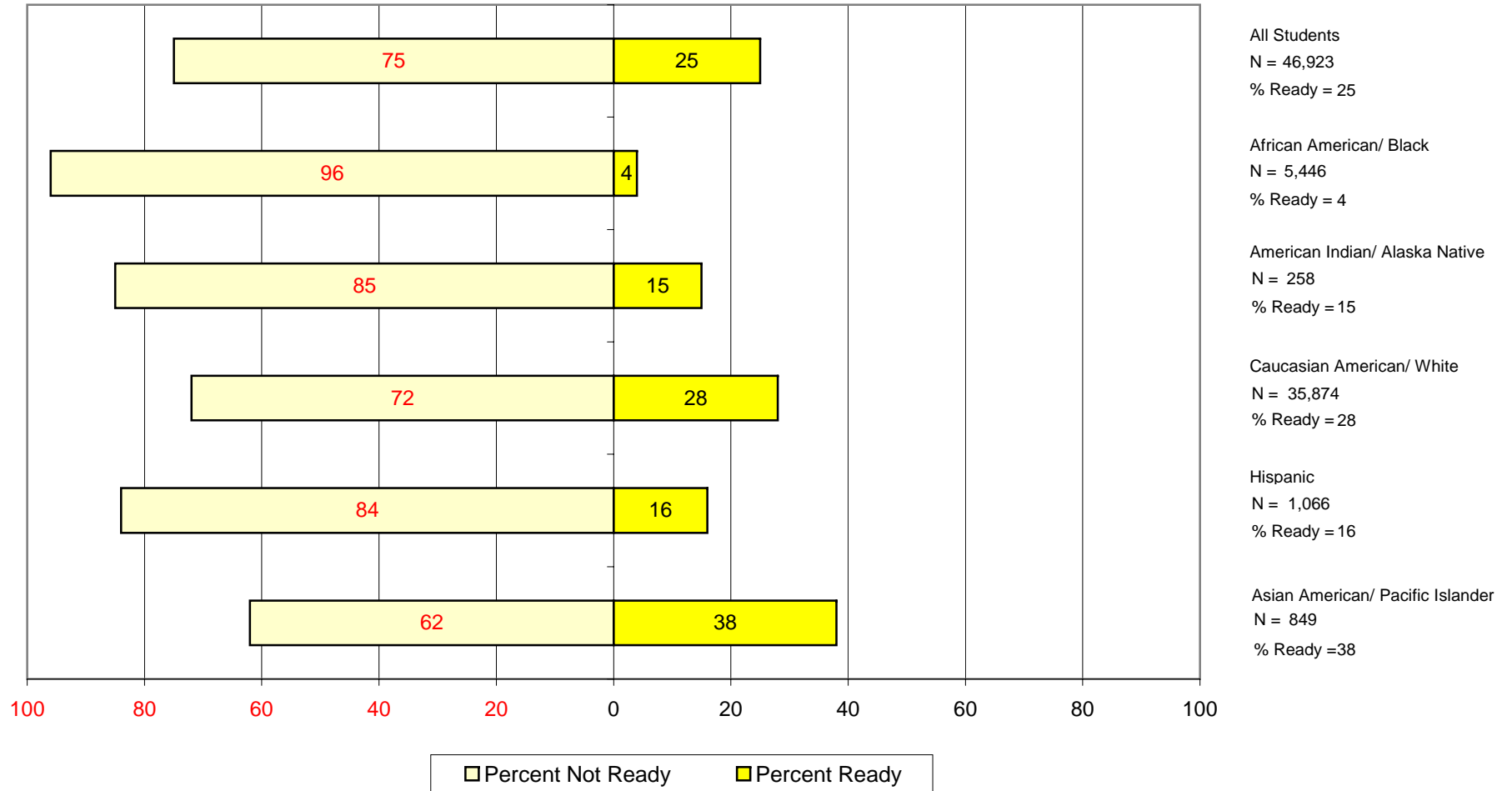
Total Students in Report: 46,923

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



Total Students in Report: 46,923

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



Total Students in Report: 46,923

**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	13,891	30	22.9	4.9	5,603	26	22.6	4.7	8,278	32	23.1	4.9
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	27,474	59	21.7	3.7	12,962	61	21.6	3.7	14,473	57	21.9	3.7
Less than 4 years of English	3,529	8	18.0	-	1,696	8	17.9	-	1,821	7	18.2	-
No English course/grade information reported	2,029	4	15.1	-	978	5	14.9	-	1,040	4	15.3	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	2,569	5	24.7	7.9	1,166	5	25.7	8.5	1,396	5	23.8	7.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,701	12	22.2	5.4	2,269	11	23.0	5.8	3,428	13	21.7	5.2
Alg 1, Alg 2, Geom, & Trig	3,292	7	19.8	3.0	1,412	7	20.4	3.2	1,873	7	19.3	2.8
Alg 1, Alg 2, Geom, & Other Adv Math	7,393	16	20.1	3.3	2,782	13	20.6	3.4	4,605	18	19.8	3.3
Other comb of 4 or more years of Math	13,232	28	24.0	7.2	6,899	32	24.8	7.6	6,320	25	23.2	6.7
Alg 1, Alg 2, & Geom (Min. Core)	6,900	15	17.7	0.9	2,983	14	18.2	1.0	3,903	15	17.4	0.9
Other comb of 3 or 3.5 years of Math	1,769	4	20.5	3.7	892	4	20.8	3.6	876	3	20.2	3.7
Less than 3 years of Math	3,999	9	16.8	-	1,832	9	17.2	-	2,159	8	16.5	-
No Math course/grade information reported	2,068	4	16.2	-	1,004	5	16.5	-	1,052	4	15.8	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	2,597	6	23.1	2.0	1,455	7	22.9	1.5	1,140	4	23.2	2.3
Other comb of 4 or more years Social Science	20,590	44	22.9	1.8	9,022	42	23.0	1.6	11,542	45	22.8	1.9
US Hist, World Hist, & Am Gov (Min. Core)	5,387	11	21.0	-0.1	2,649	12	21.4	0.0	2,732	11	20.5	-0.4
Other comb of 3 or 3.5 years of Social Science	13,263	28	22.2	1.1	5,608	26	22.3	0.9	7,640	30	22.0	1.1
Less than 3 years of Social Science	3,033	6	21.1	-	1,510	7	21.4	-	1,513	6	20.9	-
No Soc Sci course/grade information reported	2,053	4	16.5	-	995	5	16.4	-	1,045	4	16.6	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	15,386	33	23.0	3.4	7,716	36	23.7	3.8	7,649	30	22.2	2.8
Bio, Chem, Phys	3,126	7	24.2	4.6	1,654	8	25.1	5.2	1,465	6	23.2	3.8
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	15,524	33	21.1	1.5	5,898	28	21.5	1.6	9,608	38	20.9	1.5
Other comb of 3 years of Natural Science	1,503	3	21.5	1.9	880	4	22.3	2.4	623	2	20.3	0.9
Less than 3 years of Natural Science	9,336	20	19.6	-	4,099	19	19.9	-	5,223	20	19.4	-
No Nat Sci course/grade information reported	2,048	4	16.6	-	992	5	16.9	-	1,044	4	16.3	-

<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: 46,923

**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	13,891	30	22.9	81	338,118	23	22.0	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	27,474	59	21.7	75	1,029,431	70	20.6	68
Less than 4 years of English	3,529	8	18.0	52	74,090	5	16.7	42
No English course/grade information reported	2,029	4	15.1	31	38,830	3	16.1	37
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	2,569	5	24.7	71	92,630	6	24.5	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	5,701	12	22.2	56	135,244	9	22.1	56
Alg 1, Alg 2, Geom, & Trig	3,292	7	19.8	32	110,962	7	20.0	35
Alg 1, Alg 2, Geom, & Other Adv Math	7,393	16	20.1	35	220,868	15	20.1	36
Other comb of 4 or more years of Math	13,232	28	24.0	67	455,130	31	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	6,900	15	17.7	13	248,747	17	17.5	12
Other comb of 3 or 3.5 years of Math	1,769	4	20.5	38	70,732	5	20.1	35
Less than 3 years of Math	3,999	9	16.8	9	105,591	7	16.5	7
No Math course/grade information reported	2,068	4	16.2	9	40,565	3	17.7	18
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	2,597	6	23.1	63	46,754	3	22.8	61
Other comb of 4 or more years Social Science	20,590	44	22.9	63	735,636	50	22.0	57
US Hist, World Hist, & Am Gov (Min. Core)	5,387	11	21.0	49	84,543	6	20.6	47
Other comb of 3 or 3.5 years of Social Science	13,263	28	22.2	58	420,236	28	21.3	52
Less than 3 years of Social Science	3,033	6	21.1	50	152,775	10	19.7	40
No Soc Sci course/grade information reported	2,053	4	16.5	19	40,525	3	17.5	26
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	15,386	33	23.0	44	563,824	38	22.2	39
Bio, Chem, Phys	3,126	7	24.2	54	141,531	10	23.3	47
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	15,524	33	21.1	27	459,833	31	20.1	21
Other comb of 3 years of Natural Science	1,503	3	21.5	31	41,353	3	19.8	21
Less than 3 years of Natural Science	9,336	20	19.6	17	233,215	16	18.4	11
No Nat Sci course/grade information reported	2,048	4	16.6	7	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: 46,923

**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	975	2	19.9	119	4	17.0	807	2	20.4
Architecture & Environmental Design	927	2	21.8	37	1	18.2	853	2	22.0
Business & Management	4,867	10	21.4	175	6	17.1	4,449	11	21.6
Business & Office	328	1	19.7	33	1	18.2	277	1	19.8
Marketing & Distribution	513	1	21.0	21	1	17.7	460	1	21.2
Communications & Comm. Technologies	1,402	3	22.3	36	1	19.0	1,316	3	22.4
Community & Personal Services	1,070	2	19.5	142	5	17.2	860	2	20.0
Computer & Information Sciences	1,136	2	22.2	97	4	19.0	976	2	22.6
Cross-Disciplinary Studies	50	0	24.5	2	0	17.5	45	0	24.8
Education	2,345	5	21.1	67	2	16.9	2,167	5	21.3
Teacher Education	1,736	4	20.5	53	2	16.9	1,602	4	20.8
Engineering	1,839	4	23.8	66	2	16.3	1,689	4	24.2
Engineering-Related Technologies	1,250	3	23.2	72	3	17.5	1,113	3	23.7
Foreign Languages	215	0	25.4	4	0	18.5	197	0	25.7
Health Sciences & Allied Health Fields	8,545	18	21.4	587	22	17.4	7,624	19	21.7
Human, Family & Consumer Science	598	1	19.3	82	3	17.7	460	1	19.7
Letters	328	1	25.4	13	0	19.0	290	1	25.7
Mathematics	297	1	24.9	7	0	16.6	266	1	25.2
Philosophy, Religion & Theology	352	1	22.7	14	1	17.5	320	1	23.0
Sciences (Biological & Physical)	2,321	5	24.4	26	1	19.5	2,197	6	24.4
Social Sciences	2,773	6	22.6	54	2	18.1	2,619	7	22.7
Trade & Industrial	594	1	18.6	303	11	17.7	254	1	19.7
Visual & Performing Arts	3,124	7	21.5	179	7	17.4	2,736	7	21.9
Undecided	7,181	15	22.1	441	16	17.7	6,037	15	22.5
No Response	2,157	5	17.2	80	3	14.8	260	1	18.3

<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: 46,923

**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	561	17.2	57	14.4	9	15.1	447	17.8	13	16.2	2	14.0	33	15.8
2-yr College Degree	2,149	17.5	311	14.6	14	16.8	1,644	18.2	63	16.1	15	17.1	102	16.5
Bachelors Degree	19,886	20.9	1,926	16.7	85	19.4	16,327	21.4	417	19.4	218	20.7	913	20.2
Graduate Study	7,889	23.6	738	18.4	46	22.3	6,346	24.3	153	21.9	131	24.5	475	23.0
Prof. Level Degree	12,099	23.3	1,746	18.4	68	22.3	8,694	24.2	326	22.0	408	25.6	857	23.1
Other	1,203	18.8	197	15.4	12	18.9	847	19.6	32	18.0	16	18.3	99	18.7
No Response	3,136	19.6	471	16.1	24	18.9	1,569	21.9	62	18.4	59	24.9	951	17.3

Total Students in Report: 46,923

**Table 4.3. Students' Score Report Preferences at Time of Testing**

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges							
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36	
UNIV OF MISSOURI-COLUMBIA	Missouri	9,635	4,019	5,616	1	4	18	32	28	16	2	
MISSOURI STATE UNIVERSITY	Missouri	7,034	2,297	4,737	0	4	22	38	25	10	1	
SOUTHEAST MISSOURI STATE UNIVERSITY	Missouri	3,392	1,155	2,237	1	8	29	34	20	8	0	
UNIVERSITY OF CENTRAL MISSOURI	Missouri	3,392	1,108	2,284	1	8	29	35	21	7	0	
UNIV OF MISSOURI-KANSAS CITY	Missouri	2,677	754	1,923	1	8	21	29	25	14	1	
NORTHWEST MISSOURI ST UNIV	Missouri	2,632	919	1,713	1	8	30	35	20	6	0	
TRUMAN STATE UNIVERSITY	Missouri	2,544	747	1,797	0	3	11	27	31	23	4	
SAINT LOUIS UNIVERSITY	Missouri	1,973	464	1,509	2	8	17	24	26	21	2	
UNIVERSITY OF MISSOURI-ST LOUIS	Missouri	1,902	400	1,502	2	11	27	30	21	9	1	
MISSOURI UNIV OF SCIENCE & TECHNOLOGY	Missouri	1,863	821	1,042	0	2	9	21	33	29	5	
LINDENWOOD UNIVERSITY	Missouri	1,565	451	1,114	1	10	30	34	20	5	0	
MISSOURI WESTERN STATE UNIVERSITY	Missouri	1,531	596	935	2	15	35	30	13	3	0	
WASHINGTON UNIVERSITY IN ST LOUIS	Missouri	1,469	372	1,097	2	6	14	19	20	30	8	
MISSOURI SOUTHERN STATE UNIV	Missouri	1,336	466	870	1	8	34	35	17	6	0	
DRURY UNIVERSITY	Missouri	1,320	338	982	0	4	21	34	25	14	1	
COLLEGE OF THE OZARKS	Missouri	1,288	587	701	1	8	30	38	17	5	0	
UNIVERSITY OF KANSAS	Kansas	1,190	315	875	1	7	15	29	31	15	2	
OZARKS TECHNICAL COMMUNITY COLLEGE	Missouri	1,134	393	741	1	12	36	35	13	3	0	
NCAA ELIGIBILITY CENTER	Indiana	1,048	536	512	2	8	24	33	22	10	2	
LINCOLN UNIVERSITY	Missouri	847	254	593	7	33	36	17	6	1	0	
WEBSTER UNIVERSITY	Missouri	838	227	611	2	10	24	26	26	11	1	
COLUMBIA COLLEGE	Missouri	805	219	586	1	12	30	35	16	5	0	
SOUTHWEST BAPTIST UNIVERSITY	Missouri	771	235	536	1	5	23	36	24	9	1	
METROPOLITAN COMM COLL-LONGVIEW	Missouri	689	238	451	1	14	32	31	17	4	1	
KANSAS STATE UNIVERSITY	Kansas	682	173	509	1	8	24	29	26	11	1	
MARYVILLE UNIV OF SAINT LOUIS	Missouri	650	175	475	2	7	23	33	27	9	0	
UNIVERSITY OF ARKANSAS	Arkansas	644	179	465	1	2	17	35	30	14	2	
SAINT LOUIS COMM COLL-MERAMEC	Missouri	630	228	402	3	14	36	30	14	2	0	
WILLIAM JEWELL COLLEGE	Missouri	626	135	491	0	5	19	30	30	15	1	
ROCKHURST UNIVERSITY	Missouri	615	134	481	2	6	17	30	27	17	1	
All Other Institutions		39,126	11,304	27,822	2	11	27	26	19	12	3	
<b>Total</b>		<b>95,848</b>	<b>30,239</b>	<b>65,609</b>	<b>2</b>	<b>9</b>	<b>25</b>	<b>29</b>	<b>22</b>	<b>12</b>	<b>2</b>	

# Section V Optional Writing Test Results

Total Students in Report: 46,923

**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>7,585</b>	<b>814,713</b>	<b>24.8</b>	<b>21.5</b>	<b>7.4</b>	<b>7.2</b>	<b>23.5</b>	<b>20.8</b>
African American/Black	924	96,225	18.9	16.5	6.7	6.4	18.5	16.5
American Indian/Alaska Native	39	5,489	23.0	18.9	7.5	6.7	22.3	18.5
Caucasian American/White	5,456	497,164	25.8	22.8	7.5	7.3	24.3	21.9
Hispanic	186	85,681	22.6	18.4	7.1	7.0	21.6	18.4
Asian American/Pacific Islander	307	44,716	26.7	23.5	7.8	7.6	25.2	22.8
Other/No Response	673	85,438	25.2	21.4	7.6	7.2	23.9	20.8
Males	3,340	357,025	24.9	21.1	7.2	6.9	23.4	20.3
Females	4,232	455,190	24.8	21.7	7.6	7.4	23.7	21.2
Missing	13	2,498	24.9	22.1	7.5	7.2	23.8	21.3



