

ACT Profile Report - State

Graduating Class 2010
Virginia



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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

31% 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: 19,236 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. 88% 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, 5% were college ready. 10% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 11% of these students were college ready. In comparison, 60% 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 6% of the cohort took less than three years of natural science courses. 9% of these students were college ready. In comparison, 39% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES: Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 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.

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.

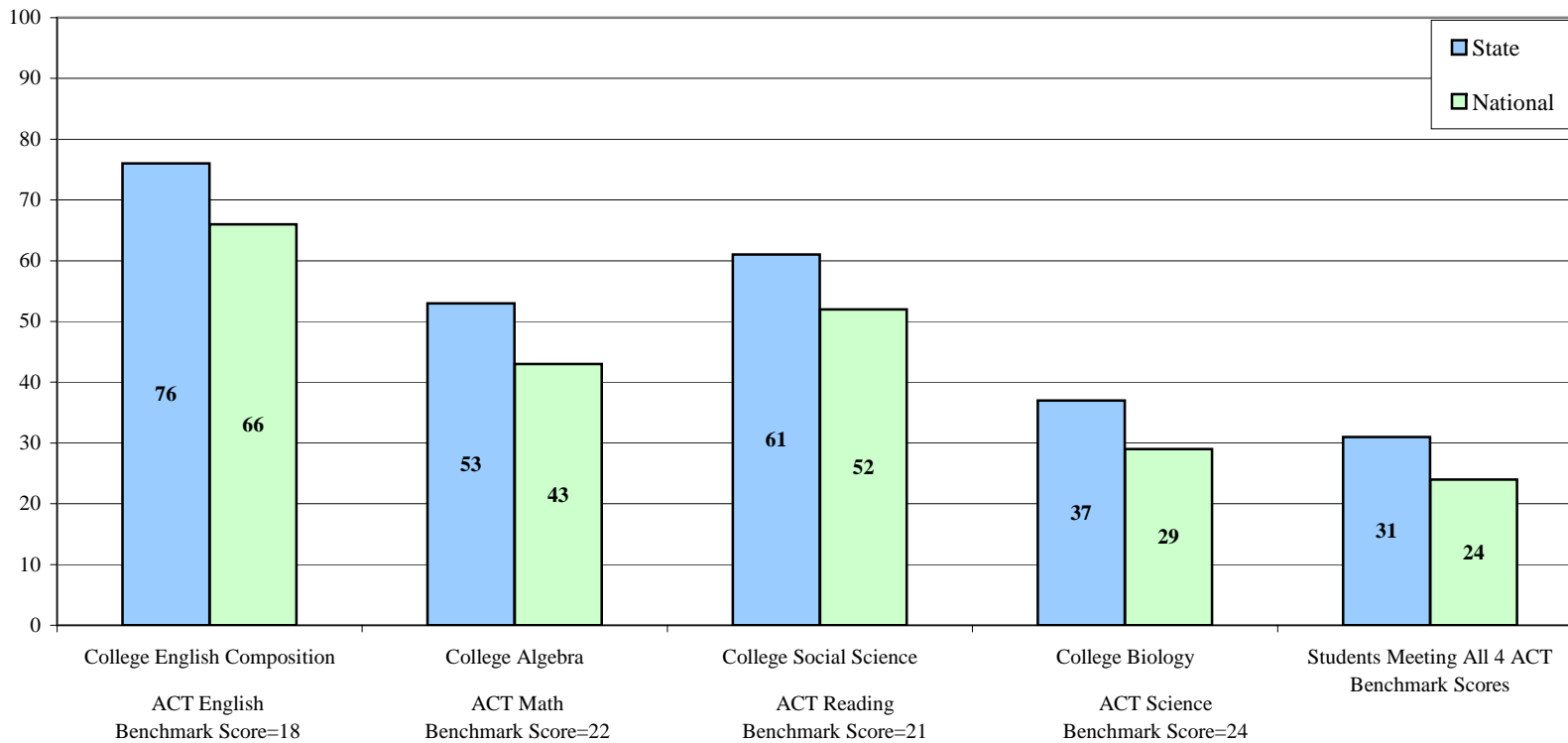
For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 404-231-1952.

Section I

Executive Summary

Total Students in Report: 19,236

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: 19,236

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	11,519	1,206,455	70	69	44	42	53	53	26	27	21	21
2007	14,653	1,300,599	72	69	45	43	54	53	29	28	23	23
2008	16,896	1,421,941	74	68	50	43	58	53	32	28	26	22
2009	17,902	1,480,469	74	67	49	42	59	53	33	28	27	23
2010	19,236	1,568,835	76	66	53	43	61	52	37	29	31	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	11,519	1,206,455	20.6	20.6	21.0	20.8	21.4	21.4	20.7	20.9	21.1	21.1
2007	14,653	1,300,599	21.0	20.7	21.2	21.0	21.7	21.5	21.1	21.0	21.4	21.2
2008	16,896	1,421,941	21.5	20.6	21.8	21.0	22.2	21.4	21.3	20.8	21.8	21.1
2009	17,902	1,480,469	21.7	20.6	21.8	21.0	22.3	21.4	21.4	20.9	21.9	21.1
2010	19,236	1,568,835	22.0	20.5	22.1	21.0	22.5	21.3	21.9	20.9	22.3	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: 19,236

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	6,636	2,553	58	22	21.4	19.0	21.6	19.7	22.1	20.1	21.3	19.6	21.7	19.7
2007	8,592	3,347	59	23	21.7	19.4	21.7	19.9	22.3	20.5	21.6	19.9	21.9	20.1
2008	13,020	2,472	77	15	22.0	19.0	22.2	19.9	22.6	20.2	21.7	19.5	22.2	19.8
2009	15,576	1,856	87	10	22.2	17.7	22.2	18.6	22.8	18.8	21.9	18.3	22.4	18.5
2010	17,015	1,883	88	10	22.6	17.9	22.5	18.8	23.0	19.0	22.3	18.7	22.7	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.

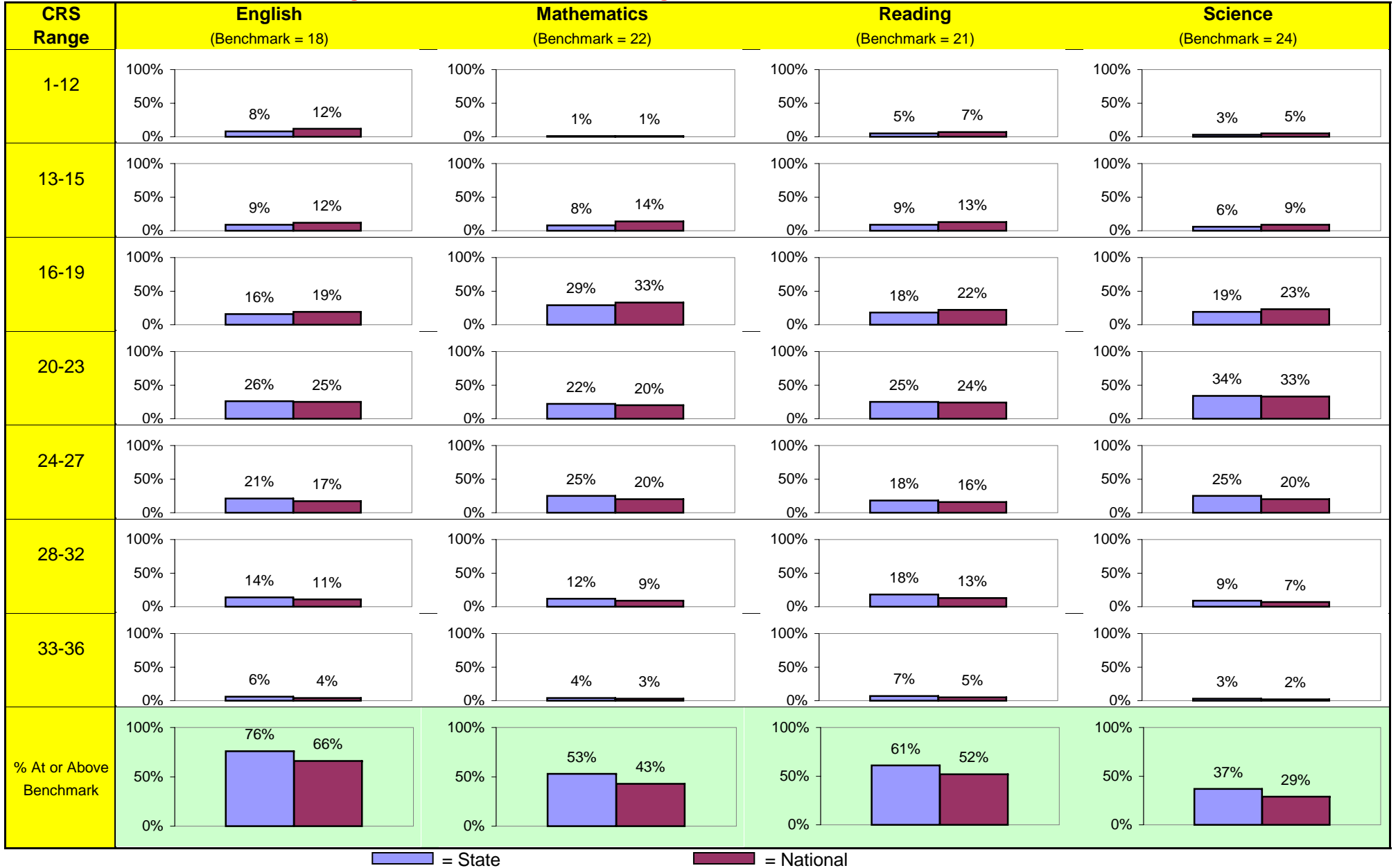
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

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	11,519	100	21.1	14,653	100	21.4	16,896	100	21.8	17,902	100	21.9	19,236	100	22.3
African American/Black	2,560	22	17.3	2,898	20	17.4	3,308	20	17.5	3,607	20	17.6	3,765	20	17.6
American Indian/Alaska Native	36	0	21.5	40	0	21.4	62	0	21.6	60	0	21.6	80	0	22.0
Caucasian American/White	6,240	54	22.3	7,700	53	22.5	9,687	57	22.9	10,770	60	23.1	11,779	61	23.5
Hispanic	329	3	20.3	421	3	20.4	617	4	21.0	722	4	21.0	818	4	21.6
Asian American/Pacific Islander	419	4	22.5	604	4	22.8	827	5	23.6	953	5	23.6	1,132	6	24.2
Other/No Response	1,935	17	21.7	2,990	20	22.1	2,395	14	23.0	1,790	10	22.8	1,662	9	22.9

Total Students in Report: 19,236

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



Section II

Academic Achievement

Total Students in Report: 19,236

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	60	100	63	100	167	100	81	100	5	100	36
35	306	100	203	100	227	99	136	100	71	100	35
34	381	98	232	99	457	98	110	99	132	100	34
33	366	96	256	97	470	96	190	98	222	99	33
32	336	94	294	96	536	93	79	97	290	98	32
31	454	92	283	95	599	90	281	97	464	96	31
30	558	90	464	93	752	87	353	95	569	94	30
29	600	87	475	91	776	83	394	94	687	91	29
28	819	84	705	88	768	79	630	92	817	87	28
27	732	80	933	85	701	75	876	88	929	83	27
26	1,098	76	1,099	80	766	72	914	84	1,152	78	26
25	1,027	70	1,281	74	984	68	1,636	79	1,184	72	25
24	1,214	65	1,583	67	992	63	1,426	70	1,343	66	24
23	1,082	59	1,220	59	1,051	57	1,632	63	1,365	59	23
22	1,216	53	1,130	53	1,311	52	1,444	55	1,349	52	22
21	1,415	47	791	47	1,098	45	1,744	47	1,388	45	21
20	1,271	39	998	43	1,328	39	1,701	38	1,303	38	20
19	938	33	1,091	38	907	33	1,218	29	1,190	31	19
18	682	28	1,251	32	738	28	1,190	23	1,014	25	18
17	629	24	1,564	25	1,032	24	675	17	949	20	17
16	846	21	1,650	17	745	19	625	13	789	15	16
15	748	17	954	9	655	15	531	10	660	11	15
14	575	13	462	4	720	11	341	7	514	7	14
13	317	10	148	1	447	8	378	5	409	4	13
12	354	8	70	1	379	5	212	3	254	2	12
11	397	6	18	1	316	3	161	2	109	1	11
10	283	4	9	1	123	2	147	1	43	1	10
9	222	3	4	1	60	1	75	1	21	1	9
8	188	2	4	1	55	1	29	1	11	1	8
7	67	1	0	1	38	1	10	1	2	1	7
6	42	1	1	1	12	1	9	1	1	1	6
5	9	1	0	1	9	1	5	1	0	1	5
4	3	1	0	1	5	1	2	1	0	1	4
3	1	1	0	1	8	1	1	1	0	1	3
2	0	1	0	1	3	1	0	1	0	1	2
1	0	1	0	1	1	1	0	1	0	1	1
Avg (SD)	22.0 (6.4)		22.1 (5.3)		22.5 (6.4)		21.9 (5.0)		22.3 (5.2)		Avg (SD)

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

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

Total Students in Report: 19,236

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	1,124	100	266	100	625	100	780	100	1,040	100	255	100	235	100	18
17	949	94	190	99	1,028	97	2,073	96	1,265	95	319	99	167	99	17
16	1,109	89	1,389	98	1,555	91	1,254	85	1,284	88	746	97	686	98	16
15	1,520	83	1,690	90	1,390	83	1,816	79	1,456	81	811	93	1,248	94	15
14	1,203	76	1,624	82	1,361	76	1,076	69	1,440	74	2,148	89	1,683	88	14
13	1,470	69	2,008	73	1,249	69	1,728	64	1,506	66	2,274	78	1,981	79	13
12	1,400	62	2,352	63	1,922	63	1,571	55	1,894	58	2,313	66	2,179	69	12
11	1,712	54	2,297	51	1,616	53	1,953	46	1,819	49	2,707	54	2,078	57	11
10	2,226	45	1,701	39	1,726	44	1,333	36	1,736	39	2,503	40	2,635	47	10
9	1,657	34	1,864	30	2,246	35	1,098	29	1,407	30	2,414	27	2,068	33	9
8	1,123	25	1,283	20	1,427	23	1,334	24	1,857	23	1,132	14	1,895	22	8
7	1,172	19	930	13	1,481	16	910	17	1,533	13	743	8	733	12	7
6	946	13	411	9	696	8	1,022	12	701	5	250	5	707	9	6
5	644	8	515	6	426	5	755	7	172	2	332	3	381	5	5
4	502	5	455	4	188	3	321	3	84	1	95	2	188	3	4
3	313	2	225	1	155	2	144	1	27	1	139	1	175	2	3
2	149	1	35	1	99	1	64	1	10	1	3	1	156	1	2
1	17	1	1	1	46	1	4	1	5	1	52	1	41	1	1
Avg (SD)	11.2 (4.0)		11.2 (3.3)		11.3 (3.7)		11.8 (3.9)		11.8 (3.5)		11.2 (2.9)		10.8 (3.1)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	26	26	27	25	26
Q2 (50th Percentile)	22	22	22	22	22
Q1 (25th Percentile)	18	17	18	19	19

Total Students in Report: 19,236

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	19,236	88	22.7	18.7
	African American/Black	3,765	79	18.2	15.2
	American Indian/Alaska Native	80	88	22.1	21.6
	Caucasian American/White	11,779	91	23.8	21.0
	Hispanic	818	89	22.0	18.0
	Asian American/Pacific Islander	1,132	93	24.4	21.0
	Other/No Response	1,662	87	23.3	20.5
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	22.0	22.1	22.5	21.9	22.3
	African American/Black	16.5	17.9	17.3	18.0	17.6
	American Indian/Alaska Native	22.2	20.8	22.9	21.7	22.0
	Caucasian American/White	23.6	23.1	24.0	23.0	23.5
	Hispanic	21.0	21.4	22.1	21.2	21.6
	Asian American/Pacific Islander	23.5	25.4	23.7	23.6	24.2
	Other/No Response	22.7	22.7	23.3	22.3	22.9
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: 19,236

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	1,113	6	754	4	1,321	7	517	3
	28 to 32	2,767	14	2,221	12	3,431	18	1,737	9
	24 to 27	4,071	21	4,896	25	3,443	18	4,852	25
	20 to 23	4,984	26	4,139	22	4,788	25	6,521	34
	16 to 19	3,095	16	5,556	29	3,422	18	3,708	19
	13 to 15	1,640	9	1,564	8	1,822	9	1,250	6
	01 to 12	1,566	8	106	1	1,009	5	651	3
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	8,203	43	21.4	22.8	22.2	22.4	22.3
	Females	11,029	57	22.5	21.6	22.8	21.6	22.2
	Missing	4	0	19.8	16.8	18.5	14.3	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	73	58	58	41	35
	Females	78	49	62	34	29
National	Males	64	48	51	34	28
	Females	69	40	53	25	21

Total Students in Report: 19,236

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	17,015	79	22.6	57	22.5	64	23.0	40	22.3	34	22.7
	Less than Core	1,883	48	17.9	27	18.8	37	19.0	17	18.7	13	18.7
	Missing ³	338	49	17.3	26	18.7	31	18.4	14	18.4	9	18.3
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	18,634	76	22.1	18,361	55	22.3	18,304	61	22.7	17,849	39	22.3
	Less than Core	282	56	18.8	552	5	15.9	606	51	21.3	1,059	9	17.3
	Missing ³	320	50	17.3	323	25	18.7	326	31	18.4	328	13	18.4
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.

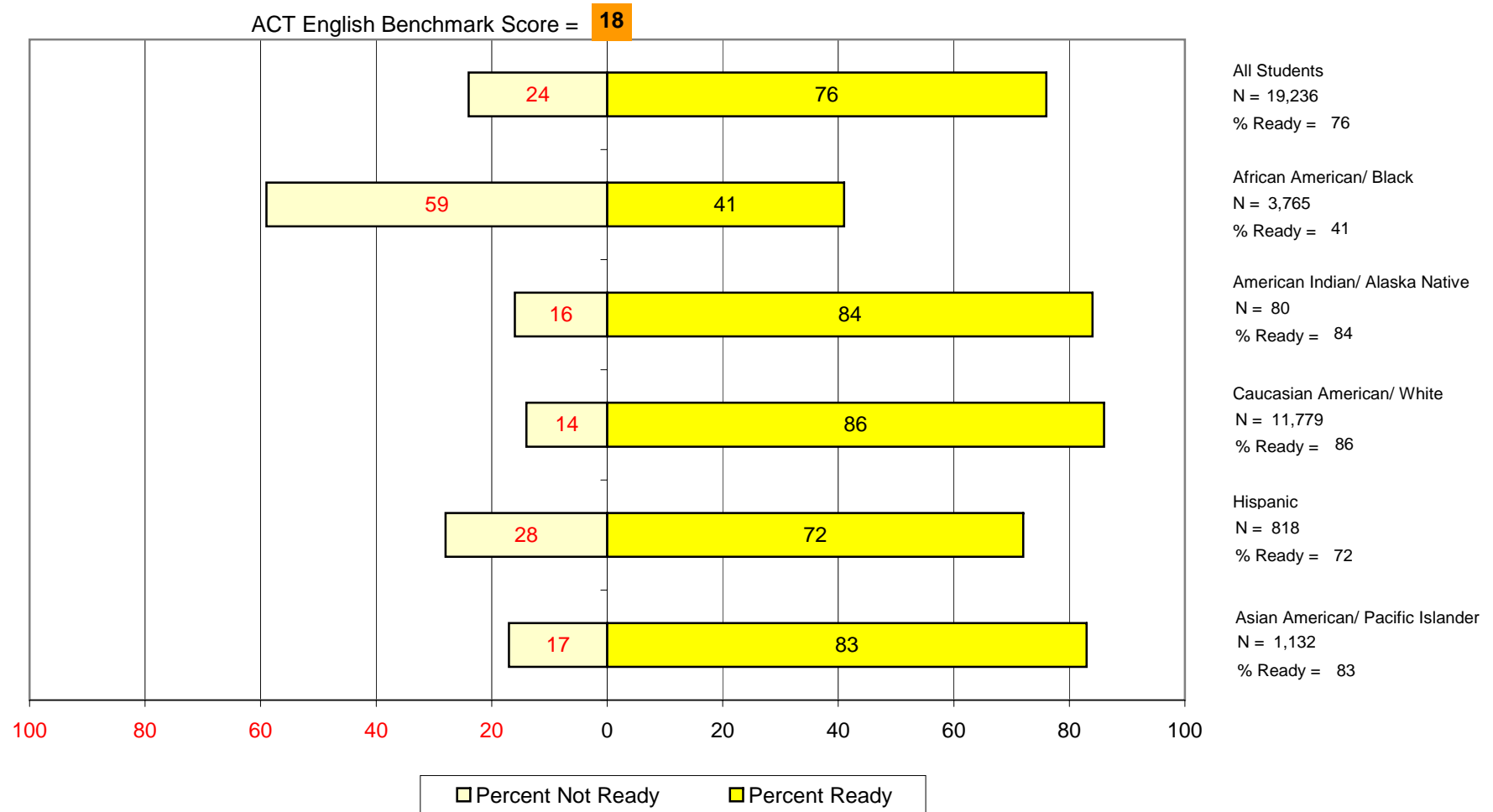
³ Zero years or no coursework information reported in the specified content area.

Section III

College Readiness and the Impact of Course Rigor

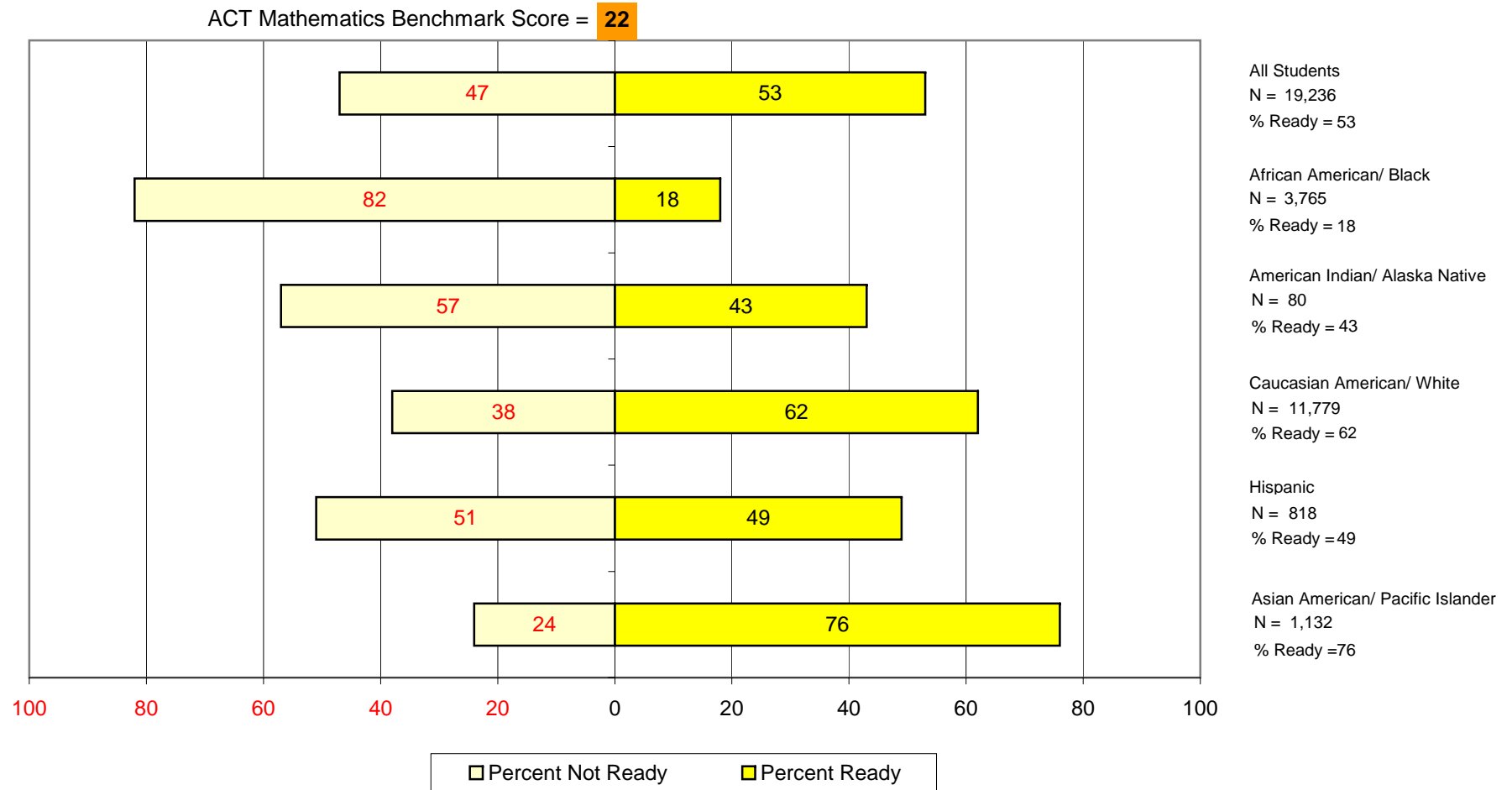
Total Students in Report: 19,236

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



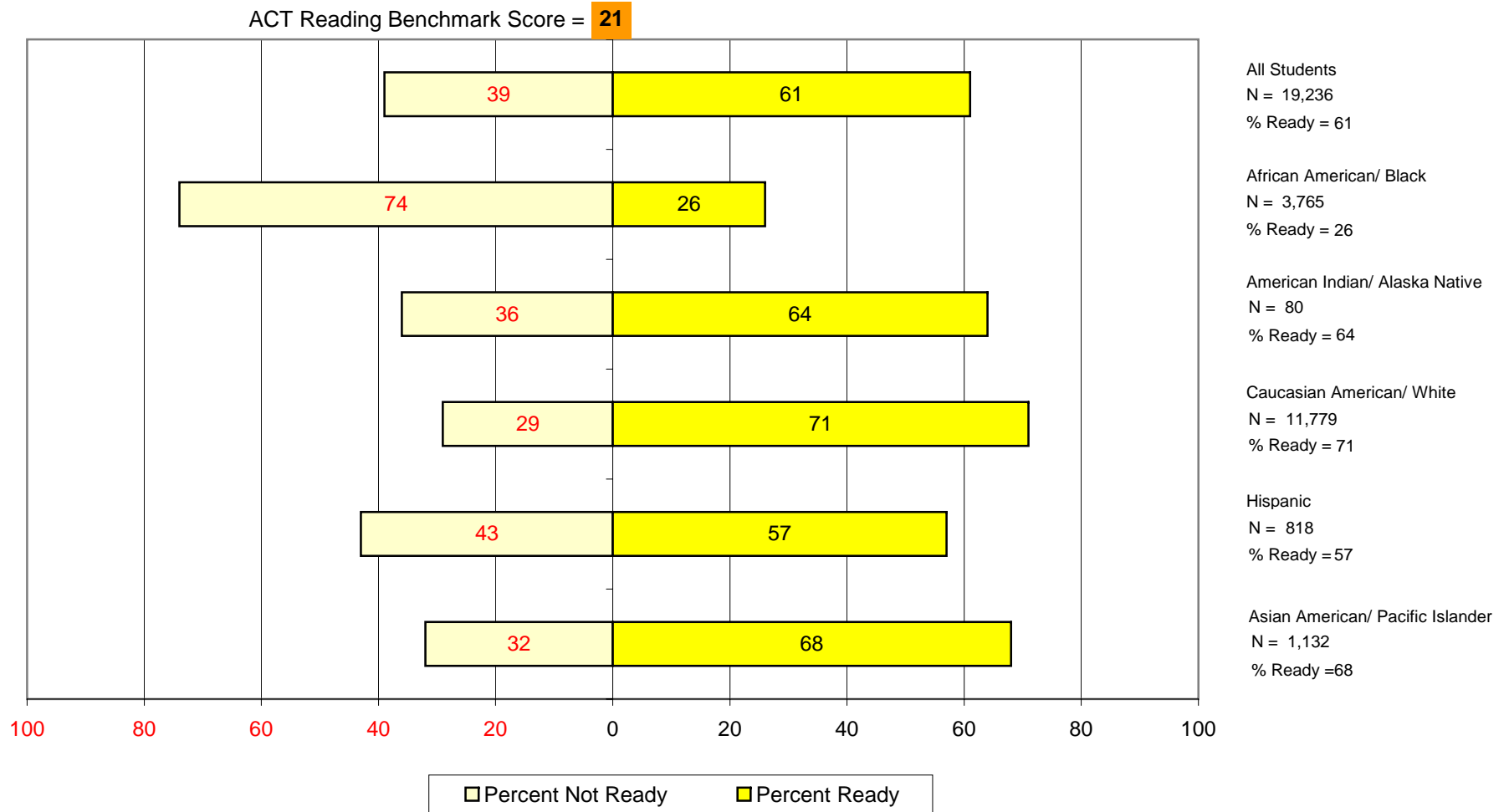
Total Students in Report: 19,236

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



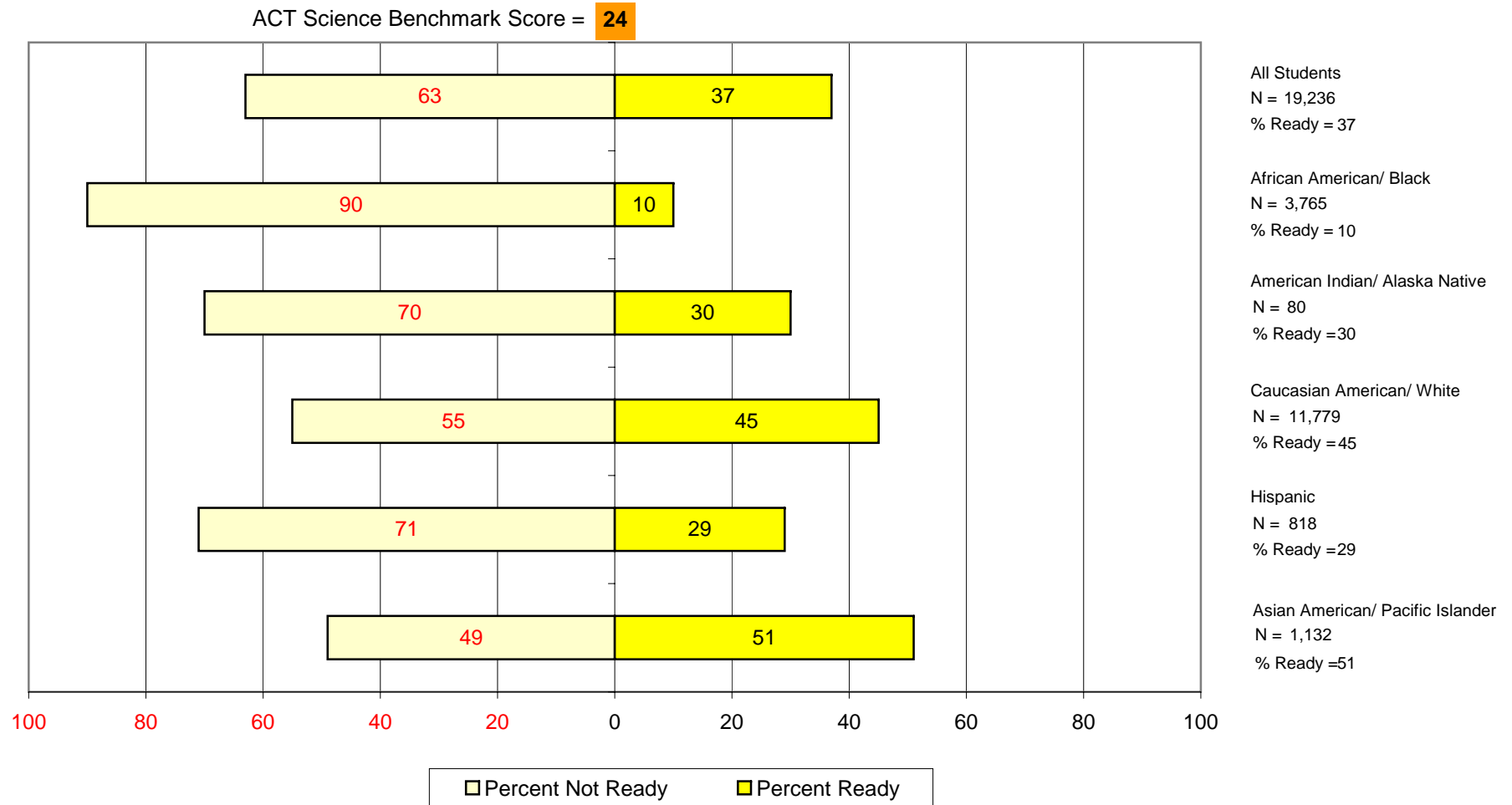
Total Students in Report: 19,236

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



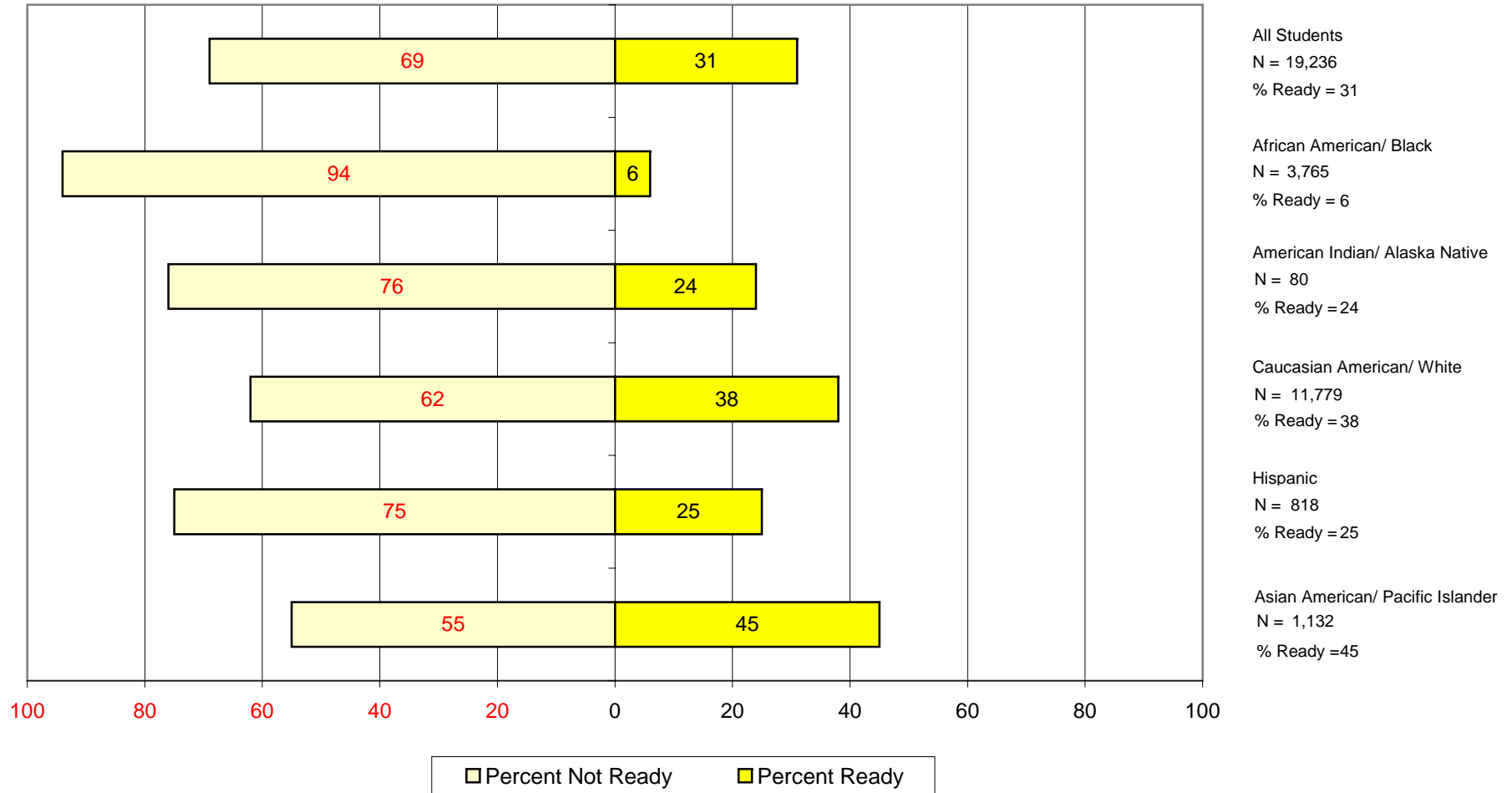
Total Students in Report: 19,236

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



Total Students in Report: 19,236

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



Total Students in Report: 19,236

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	3,589	19	22.9	4.1	1,425	17	22.2	4.0	2,163	20	23.4	4.2
Eng 9, Eng 10, Eng 11, Eng 12	15,045	78	21.9	3.1	6,428	78	21.4	3.2	8,615	78	22.4	3.2
Less than 4 years of English	282	1	18.8	-	124	2	18.2	-	158	1	19.2	-
Zero years / no English courses reported	320	2	17.3	-	226	3	17.6	-	93	1	16.6	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,799	9	25.1	9.2	734	9	25.8	9.5	1,065	10	24.6	9.0
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,519	13	22.0	6.1	856	10	22.6	6.3	1,663	15	21.7	6.1
Alg 1, Alg 2, Geom, & Trig	1,626	8	19.7	3.8	612	7	20.2	3.9	1,014	9	19.5	3.9
Alg 1, Alg 2, Geom, & Other Adv Math	2,547	13	20.0	4.1	918	11	20.5	4.2	1,629	15	19.8	4.2
Other comb of 4 or more years of Math	7,329	38	24.7	8.8	3,497	43	25.4	9.1	3,831	35	24.0	8.4
Alg 1, Alg 2, & Geom	1,830	10	17.2	1.3	774	9	17.3	1.0	1,055	10	17.1	1.5
Other comb of 3 or 3.5 years of Math	711	4	19.9	4.0	331	4	20.2	3.9	380	3	19.6	4.0
Less than 3 years of Math	552	3	15.9	-	255	3	16.3	-	296	3	15.6	-
Zero years / no Math courses reported	323	2	18.7	-	226	3	19.5	-	96	1	17.0	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,655	14	22.8	1.5	1,253	15	22.5	2.7	1,402	13	23.1	0.6
Other comb of 4 or more years Social Science	8,040	42	23.0	1.7	3,334	41	22.7	2.9	4,706	43	23.2	0.7
US Hist, World Hist, & Am Gov	2,666	14	21.7	0.4	1,191	15	21.6	1.8	1,473	13	21.9	-0.6
Other comb of 3 or 3.5 years of Social Science	4,943	26	22.4	1.1	1,932	24	22.2	2.4	3,010	27	22.6	0.1
Less than 3 years of Social Science	606	3	21.3	-	260	3	19.8	-	346	3	22.5	-
Zero years / no Social Science courses reported	326	2	18.4	-	233	3	18.7	-	92	1	17.8	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	10,436	54	23.0	5.7	4,757	58	23.6	6.4	5,677	51	22.5	5.1
Bio, Chem, Phys	1,616	8	24.8	7.5	701	9	25.3	8.1	915	8	24.3	6.9
Gen Sci ² , Bio, Chem	5,452	28	20.3	3.0	1,852	23	20.0	2.8	3,599	33	20.4	3.0
Other comb of 3 years of Natural Science	345	2	19.0	1.7	169	2	19.4	2.2	176	2	18.6	1.2
Less than 3 years of Natural Science	1,059	6	17.3	-	493	6	17.2	-	566	5	17.4	-
Zero years / no Natural Science courses reported	328	2	18.4	-	231	3	19.0	-	96	1	17.1	-

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: 19,236

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	3,589	19	22.9	81	355,112	23	21.9	75
Eng 9, Eng 10, Eng 11, Eng 12	15,045	78	21.9	75	1,096,437	70	20.5	66
Less than 4 years of English	282	1	18.8	56	74,180	5	16.4	39
Zero years / no English courses reported	320	2	17.3	50	43,106	3	15.7	34
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,799	9	25.1	79	98,076	6	24.4	72
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,519	13	22.0	57	141,740	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	1,626	8	19.7	33	112,685	7	19.9	35
Alg 1, Alg 2, Geom, & Other Adv Math	2,547	13	20.0	36	239,289	15	20.0	36
Other comb of 4 or more years of Math	7,329	38	24.7	73	498,709	32	23.9	67
Alg 1, Alg 2, & Geom	1,830	10	17.2	11	258,287	16	17.4	12
Other comb of 3 or 3.5 years of Math	711	4	19.9	35	74,720	5	19.9	35
Less than 3 years of Math	552	3	15.9	5	97,949	6	16.4	7
Zero years / no Math courses reported	323	2	18.7	25	47,380	3	17.5	16
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,655	14	22.8	62	47,523	3	22.6	60
Other comb of 4 or more years Social Science	8,040	42	23.0	64	793,514	51	21.9	57
US Hist, World Hist, & Am Gov	2,666	14	21.7	54	86,044	5	20.4	45
Other comb of 3 or 3.5 years of Social Science	4,943	26	22.4	60	439,520	28	21.2	51
Less than 3 years of Social Science	606	3	21.3	51	156,679	10	19.5	39
Zero years / no Social Science courses reported	326	2	18.4	31	45,555	3	17.3	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	10,436	54	23.0	45	620,765	40	22.2	40
Bio, Chem, Phys	1,616	8	24.8	64	152,001	10	23.2	48
Gen Sci ¹ , Bio, Chem	5,452	28	20.3	21	474,375	30	20.1	21
Other comb of 3 years of Natural Science	345	2	19.0	15	43,231	3	19.7	21
Less than 3 years of Natural Science	1,059	6	17.3	9	231,566	15	18.3	12
Zero years / no Natural Science courses reported	328	2	18.4	13	46,897	3	17.4	10

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Total Students in Report: 19,236

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	151	1	20.5	7	5	17.7	135	1	20.7
Architecture & Environmental Design	337	2	22.6	2	1	12.5	308	2	22.7
Business & Management	2,016	10	21.3	11	7	14.5	1,820	11	21.5
Business & Office	86	0	18.7	0	0	.	80	0	18.8
Marketing & Distribution	249	1	20.3	1	1	14.0	223	1	20.3
Communications & Comm. Technologies	493	3	21.9	2	1	13.0	454	3	21.9
Community & Personal Services	266	1	18.9	6	4	16.3	235	1	18.9
Computer & Information Sciences	474	2	21.9	6	4	15.7	444	3	21.9
Cross-Disciplinary Studies	80	0	24.2	0	0	.	70	0	24.0
Education	772	4	21.2	1	1	16.0	711	4	21.2
Teacher Education	453	2	20.3	5	3	15.0	424	3	20.4
Engineering	1,066	6	24.8	6	4	15.2	984	6	25.0
Engineering-Related Technologies	672	3	22.8	7	5	15.3	621	4	22.9
Foreign Languages	181	1	25.4	0	0	.	160	1	25.5
Health Sciences & Allied Health Fields	2,950	15	21.5	40	26	16.4	2,700	16	21.6
Human, Family & Consumer Science	127	1	19.6	6	4	16.8	108	1	20.0
Letters	109	1	25.5	0	0	.	103	1	25.5
Mathematics	173	1	25.8	0	0	.	157	1	26.2
Philosophy, Religion & Theology	122	1	22.3	2	1	12.5	107	1	22.5
Sciences (Biological & Physical)	1,798	9	24.1	2	1	17.5	1,673	10	24.1
Social Sciences	1,700	9	23.0	4	3	16.5	1,571	9	23.0
Trade & Industrial	38	0	17.5	6	4	16.7	26	0	18.1
Visual & Performing Arts	1,084	6	21.9	8	5	16.8	986	6	21.9
Undecided	3,320	17	22.8	26	17	17.4	2,705	16	22.9
No Response	519	3	18.4	3	2	13.0	65	0	18.6

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).

Total Students in Report: 19,236

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	22	15.5	11	13.4	0	.	10	18.4	0	.	0	.	1	11.0
2-yr College Degree	129	16.2	56	14.1	0	.	59	18.2	8	16.9	3	17.0	3	14.3
Bachelors Degree	6,643	20.7	1,271	16.4	23	20.9	4,421	22.0	232	20.3	249	21.6	447	21.0
Graduate Study	4,913	23.4	718	18.8	20	22.1	3,401	24.4	201	22.7	213	24.8	360	23.6
Prof. Level Degree	5,314	23.6	1,162	19.0	24	23.1	2,746	25.4	287	22.0	534	25.3	561	24.2
Other	265	17.9	105	15.3	2	19.5	110	19.8	10	17.1	10	18.6	28	20.4
No Response	1,950	21.7	442	16.3	11	22.3	1,032	23.5	80	21.9	123	24.1	262	22.7

Total Students in Report: 19,236

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
JAMES MADISON UNIVERSITY	Virginia	2,885	804	2,081	1	3	15	32	33	15	1
VIRGINIA TECH	Virginia	2,638	937	1,701	1	2	10	28	35	22	3
VIRGINIA COMMONWEALTH UNIVERSITY	Virginia	1,977	538	1,439	3	9	29	31	20	8	1
UNIV OF VIRGINIA-MAIN CAMPUS	Virginia	1,936	560	1,376	1	2	7	19	32	33	6
OLD DOMINION UNIVERSITY	Virginia	1,928	512	1,416	4	15	32	32	14	4	0
GEORGE MASON UNIVERSITY	Virginia	1,677	414	1,263	1	5	21	34	27	11	1
CHRISTOPHER NEWPORT UNIVERSITY	Virginia	1,218	285	933	1	5	21	35	28	9	0
RADFORD UNIVERSITY	Virginia	1,095	275	820	1	8	33	37	19	2	0
COLLEGE OF WILLIAM AND MARY	Virginia	1,080	305	775	0	2	6	15	34	37	6
LONGWOOD UNIVERSITY	Virginia	827	210	617	2	6	29	42	19	3	0
UNIVERSITY OF MARY WASHINGTON	Virginia	637	121	516	1	3	16	32	33	14	1
NORFOLK STATE UNIVERSITY	Virginia	588	190	398	14	36	37	10	2	1	0
NCAA ELIGIBILITY CENTER	Indiana	539	328	211	5	19	25	28	17	6	0
VIRGINIA STATE UNIVERSITY	Virginia	522	151	371	11	38	38	9	2	1	0
LIBERTY UNIVERSITY	Virginia	494	245	249	3	14	30	29	18	6	0
HAMPTON UNIVERSITY	Virginia	455	125	330	5	24	38	23	6	3	0
UNIVERSITY OF RICHMOND	Virginia	323	57	266	2	9	15	22	29	19	2
EAST CAROLINA UNIVERSITY	North Carolina	283	62	221	1	5	25	45	20	3	0
UNIV OF NORTH CAROLINA AT CHAPEL HILL	North Carolina	276	59	217	0	4	11	18	27	35	5
BRIDGEWATER COLLEGE	Virginia	257	63	194	2	9	30	40	13	5	0
VIRGINIA MILITARY INSTITUTE	Virginia	257	113	144	2	4	20	32	28	13	1
LYNCHBURG COLLEGE	Virginia	247	63	184	3	10	30	36	19	2	0
FERRUM COLLEGE	Virginia	237	69	168	4	19	38	29	9	1	0
ROANOKE COLLEGE	Virginia	236	61	175	0	5	22	42	24	6	0
WEST VIRGINIA UNIVERSITY	West Virginia	219	57	162	1	8	24	36	22	8	0
UNIV OF SOUTH CAROLINA-COLUMBIA	South Carolina	212	59	153	0	0	9	27	40	22	1
NORTH CAROLINA STATE UNIV AT RALEIGH	North Carolina	197	23	174	1	7	14	27	29	20	2
DUKE UNIVERSITY	North Carolina	193	57	136	0	1	7	14	24	41	12
CLEMSON UNIVERSITY	South Carolina	188	48	140	1	2	6	18	46	24	4
VIRGINIA WESLEYAN COLLEGE	Virginia	182	41	141	4	18	37	29	10	2	0
All Other Institutions		12,861	3,592	9,269	2	9	19	25	25	17	3
Total		36,664	10,424	26,240	2	8	20	28	25	15	2

Section V Optional Writing Test Results

Total Students in Report: 19,236

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	12,745	869,014	23.1	21.4	7.2	7.1	22.1	20.8
African American/Black	2,142	107,638	17.4	16.4	6.3	6.4	17.1	16.4
American Indian/Alaska Native	55	6,232	22.7	18.9	7.0	6.6	21.5	18.4
Caucasian American/White	7,911	518,004	24.5	23.0	7.4	7.3	23.2	22.1
Hispanic	606	101,126	21.5	18.1	7.2	6.9	20.9	18.1
Asian American/Pacific Islander	880	49,922	24.4	23.6	7.8	7.7	23.6	22.9
Other/No Response	1,151	86,092	23.7	21.0	7.5	7.1	22.8	20.4
Males	5,129	384,152	22.6	21.1	7.0	6.9	21.5	20.3
Females	7,615	484,023	23.4	21.7	7.4	7.3	22.5	21.2
Missing	1	839	27.0	16.8	8.0	6.3	26.0	16.6

