

ACT High School Profile Report

The Graduating Class of 2006
Virginia



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This report provides information about the performance of your 2006 graduating seniors who took the ACT as sophomores, juniors, or seniors.

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 - college and universities to which your students send test results

Each year, the graduating class data for a school, district, state, and the nation 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, state, or the nation.

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: A Test Like No Other

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

How to Improve Scores and Increase College Readiness

21% of 2006 graduates 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. 11,519 ACT-tested graduates 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. 58% 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, 30% were college ready. 12% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 11% of these students were college ready. In comparison, 54% of the students who advanced beyond minimum 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 12% of the cohort took less than three years of natural science courses. 15% of these students were college ready. In comparison, 28% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES. Table 2.4 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 43% 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.

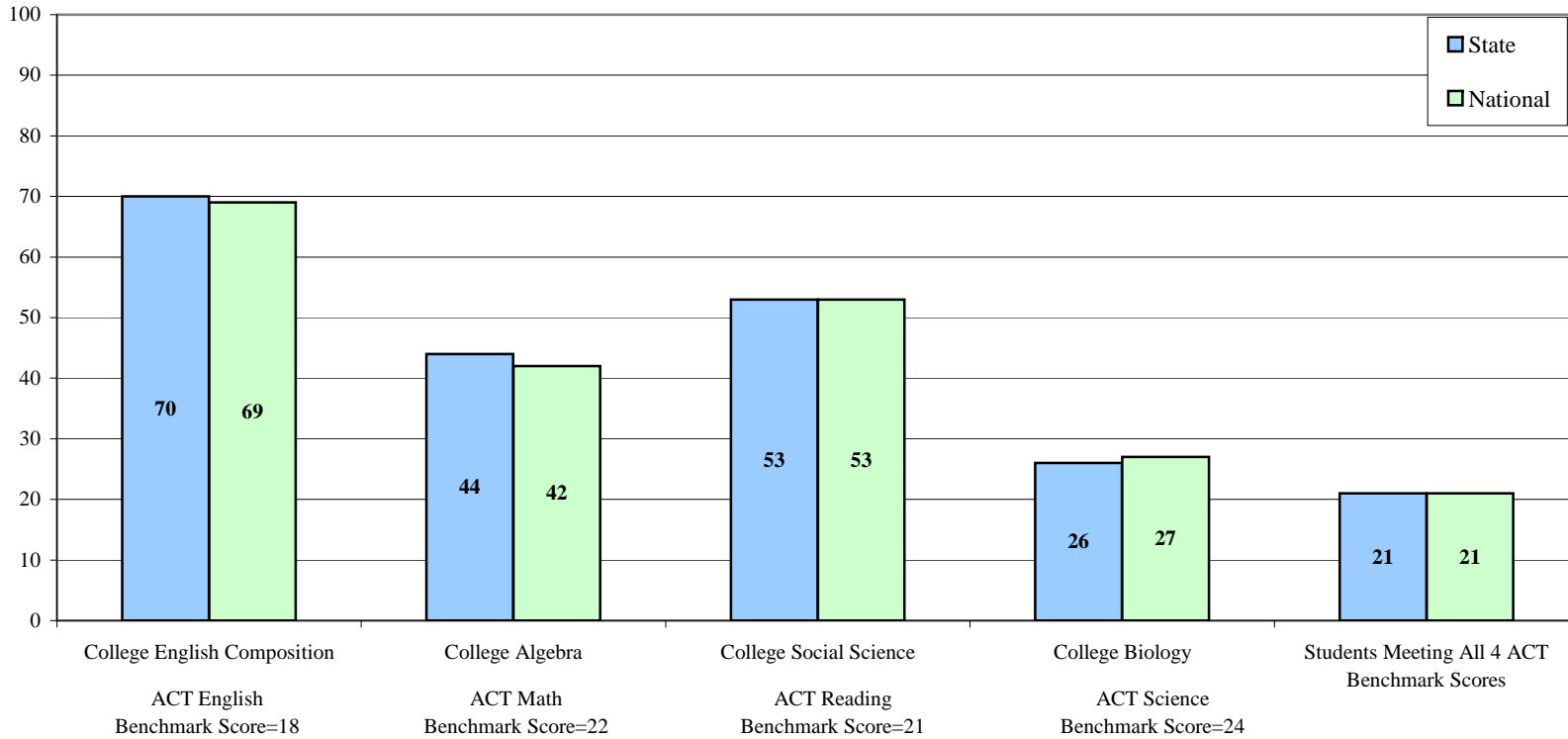
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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

Figure 1.1. Percent of ACT-Tested 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 courses.

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

Grad 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
2002	7,960	1,116,082	67	67	38	39	51	53	22	26	17	20
2003	9,452	1,175,059	67	67	38	40	51	52	22	26	18	20
2004	10,172	1,171,460	69	68	41	40	51	52	25	26	20	21
2005	10,806	1,186,251	69	68	40	41	51	51	24	26	19	21
2006	11,519	1,206,455	70	69	44	42	53	53	26	27	21	21

Table 1.2. Five Year Trends—Average ACT Scores

Grad 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
2002	7,960	1,116,082	20.1	20.2	20.3	20.6	20.9	21.1	20.4	20.8	20.6	20.8
2003	9,452	1,175,059	20.2	20.3	20.3	20.6	21.0	21.2	20.4	20.8	20.6	20.8
2004	10,172	1,171,460	20.4	20.4	20.7	20.7	21.2	21.3	20.7	20.9	20.9	20.9
2005	10,806	1,186,251	20.5	20.4	20.6	20.7	21.2	21.3	20.6	20.9	20.8	20.9
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

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Grad Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2002	1,116,082	20.2	20.6	21.1	20.8	20.8
2003	1,175,059	20.3	20.6	21.2	20.8	20.8
2004	1,171,460	20.4	20.7	21.3	20.9	20.9
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

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

Grad Year	Number of Students Tested		Percent ¹		Average ACT Scores									
	Core or More	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
2002	5,646	1,367	71	17	20.7	18.2	20.8	18.7	21.4	19.2	20.8	19.0	21.1	18.9
2003	6,275	1,750	66	19	20.8	18.5	20.7	18.8	21.5	19.7	20.8	19.3	21.1	19.2
2004	6,565	1,985	65	20	21.1	18.6	21.3	19.0	21.7	19.6	21.3	19.3	21.5	19.3
2005	6,660	2,246	62	21	21.2	18.7	21.1	19.1	21.8	19.6	21.2	19.3	21.5	19.3
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

¹Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five-Year Trends—Number, Percentage, and Average Composite Score for ACT-Tested Graduates by Race/Ethnicity

	2002			2003			2004			2005			2006		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	7,960	100	20.6	9,452	100	20.6	10,172	100	20.9	10,806	100	20.8	11,519	100	21.1
African American/Black	1,904	24	17.4	2,245	24	17.3	2,389	23	17.5	2,548	24	17.3	2,560	22	17.3
American Indian/Alaskan Native	33	0	20.5	48	1	20.0	36	0	20.9	40	0	20.2	36	0	21.5
Caucasian American/White	4,766	60	21.8	5,591	59	21.9	5,837	57	22.0	6,117	57	22.1	6,240	54	22.3
Hispanic	217	3	19.1	279	3	20.3	268	3	20.0	331	3	20.4	329	3	20.3
Asian American/Pacific Islander	319	4	20.9	364	4	21.3	445	4	21.6	439	4	21.3	419	4	22.5
Other/No Response	721	9	21.2	925	10	21.0	1,197	12	22.0	1,331	12	21.7	1,935	17	21.7

Section II

Academic Achievement

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP¹), and Score Averages for All Students

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
36	4	100	6	100	59	100	10	100	0	100	36
35	61	100	30	100	104	99	29	100	4	100	35
34	106	99	74	100	192	99	34	100	30	100	34
33	106	99	41	99	212	97	46	99	45	100	33
32	133	98	75	99	198	95	71	99	76	99	32
31	175	96	125	98	264	93	102	98	149	99	31
30	256	95	219	97	312	91	31	97	224	97	30
29	321	93	237	95	349	88	159	97	259	95	29
28	368	90	352	93	349	85	202	96	396	93	28
27	330	87	521	90	464	82	270	94	447	90	27
26	522	84	654	85	554	78	650	92	564	86	26
25	643	79	747	80	553	73	494	86	648	81	25
24	630	74	758	73	582	69	893	82	743	75	24
23	555	68	629	67	659	64	912	74	814	69	23
22	827	63	643	61	670	58	942	66	893	62	22
21	803	56	687	56	590	52	1,036	58	857	54	21
20	908	49	701	50	686	47	1,196	49	873	47	20
19	706	41	692	44	757	41	1,148	39	860	39	19
18	589	35	762	38	524	34	869	29	796	32	18
17	557	30	1,120	31	673	30	610	21	668	25	17
16	574	25	1,050	21	524	24	495	16	648	19	16
15	561	20	663	12	455	19	381	11	515	13	15
14	502	15	444	6	617	16	264	8	422	9	14
13	283	11	166	3	371	10	206	6	278	5	13
12	244	9	74	1	386	7	155	4	159	3	12
11	210	7	27	1	237	4	130	3	87	1	11
10	184	5	11	1	87	2	82	2	34	1	10
9	121	3	6	1	37	1	49	1	20	1	9
8	125	2	2	1	27	1	16	1	9	1	8
7	74	1	2	1	7	1	27	1	1	1	7
6	22	1	1	1	13	1	8	1	0	1	6
5	13	1	0	1	3	1	1	1	0	1	5
4	4	1	0	1	2	1	0	1	0	1	4
3	2	1	0	1	2	1	1	1	0	1	3
2	0	1	0	1	0	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Average	20.6		21.0		21.4		20.7		21.1		Average

¹Note: CP is the cumulative percent of students at or below a score point. Also, shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

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

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 ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	N	CP ¹	
18	317	100	44	100	176	100	331	100	276	100	54	100	43	100	18
17	457	97	166	100	632	98	638	97	377	98	118	100	110	100	17
16	452	93	428	98	471	93	771	92	776	94	190	99	230	99	16
15	638	89	737	94	644	89	842	85	715	88	406	97	489	97	15
14	793	84	906	88	629	83	953	78	785	81	1,056	93	935	92	14
13	693	77	994	80	923	78	875	69	1,232	75	762	84	1,147	84	13
12	1,054	71	1,104	72	1,146	70	1,213	62	1,371	64	1,832	78	1,227	74	12
11	1,087	62	1,607	62	1,043	60	885	51	911	52	1,227	62	1,112	64	11
10	1,264	52	1,338	48	988	51	1,009	44	1,074	44	1,871	51	1,954	54	10
9	1,089	41	1,382	36	1,249	42	960	35	876	35	1,889	35	1,238	37	9
8	916	32	967	24	1,304	31	745	26	1,374	27	838	18	1,041	26	8
7	847	24	709	16	755	20	704	20	992	15	299	11	728	17	7
6	749	17	469	10	725	14	789	14	511	7	411	8	620	11	6
5	480	10	360	6	367	7	412	7	133	2	287	5	67	6	5
4	382	6	194	3	200	4	283	3	77	1	113	2	335	5	4
3	205	3	76	1	171	2	76	1	27	1	119	1	25	2	3
2	81	1	31	1	60	1	30	1	9	1	19	1	182	2	2
1	15	1	7	1	36	1	3	1	3	1	28	1	36	1	1
Average	10.4		10.6		10.6		11.2		11.2		10.6		10.3		Average

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

Table 2.3. Average ACT Composite Scores by Level of Preparation by Race/Ethnicity

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	11,519	58	21.7	19.7
	African Am./Black	2,560	55	18.3	16.0
	Am. Indian/Alaskan Native	36	53	22.5	20.7
	Caucasian Am./White	6,240	61	22.8	21.5
	Hispanic	329	65	20.6	19.0
	Asian Am./Pacific Islander	419	65	22.8	21.6
	Other/No Response	1,935	48	22.3	20.7
National	All Students	1,206,455	54	22.0	19.7
	African Am./Black	139,118	53	17.8	16.2
	Am. Indian/Alaskan Native	13,635	48	20.2	17.5
	Caucasian Am./White	760,084	56	22.9	20.6
	Hispanic	85,796	52	19.5	17.6
	Asian Am./Pacific Islander	39,867	60	22.9	21.1
	Other/No Response	167,955	41	22.2	19.8

Table 2.4. 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	277	2	151	1	567	5	119	1
	28 to 32	1,253	11	1,008	9	1,472	13	565	5
	24 to 27	2,125	18	2,680	23	2,153	19	2,307	20
	20 to 23	3,093	27	2,660	23	2,605	23	4,086	35
	16 to 19	2,426	21	3,624	31	2,478	22	3,122	27
	13 to 15	1,346	12	1,273	11	1,443	13	851	7
	01 to 12	999	9	123	1	801	7	469	4
National	33 to 36	35,933	3	24,395	2	56,816	5	18,798	2
	28 to 32	126,394	10	103,455	9	150,082	12	67,815	6
	24 to 27	205,310	17	250,510	21	224,470	19	238,007	20
	20 to 23	321,306	27	264,179	22	280,741	23	419,135	35
	16 to 19	267,738	22	399,519	33	269,040	22	326,445	27
	13 to 15	149,825	12	154,528	13	156,903	13	90,944	8
	01 to 12	99,949	8	9,869	1	68,403	6	45,311	4

Table 2.5. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Math	Reading	Science	Composite
State	Males	4,512	39	19.9	21.7	20.9	21.1	21.0
	Females	6,386	55	21.1	20.6	21.8	20.5	21.1
	Missing	621	5	20.7	21.1	21.6	20.6	21.1
National	Males	517,563	43	20.1	21.5	21.1	21.4	21.2
	Females	646,688	54	21.0	20.3	21.6	20.5	21.0
	Missing	42,204	3	20.6	21.1	21.6	20.8	21.1

Table 2.6. Percent of Students Meeting College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Meet All Four
		English	Math	Reading	Science	
State	Males	65	50	50	30	25
	Females	73	40	55	23	19
National	Males	66	47	51	32	25
	Females	71	37	55	23	18

Section III

College Readiness and the Impact of Course Rigor

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

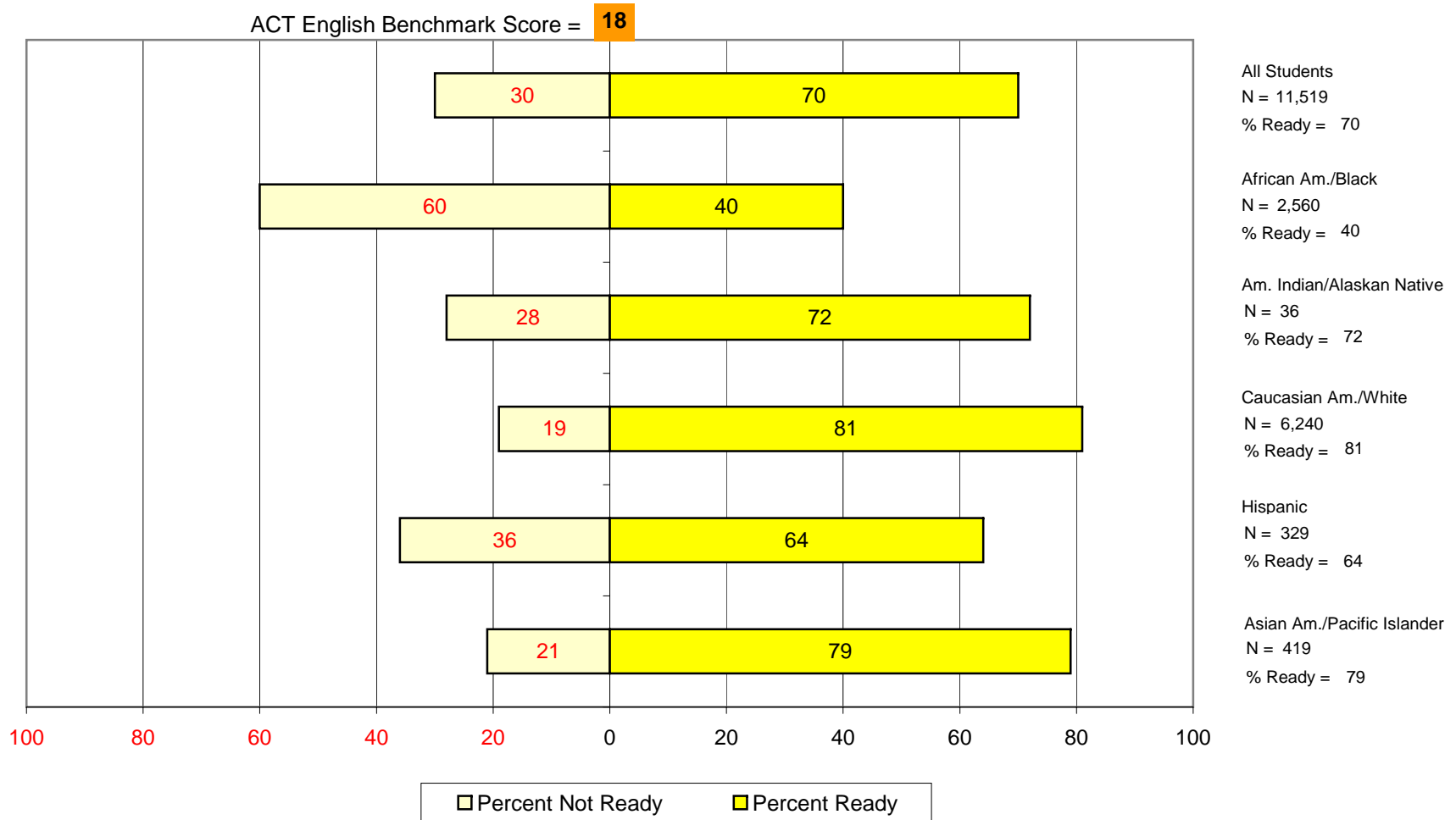


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

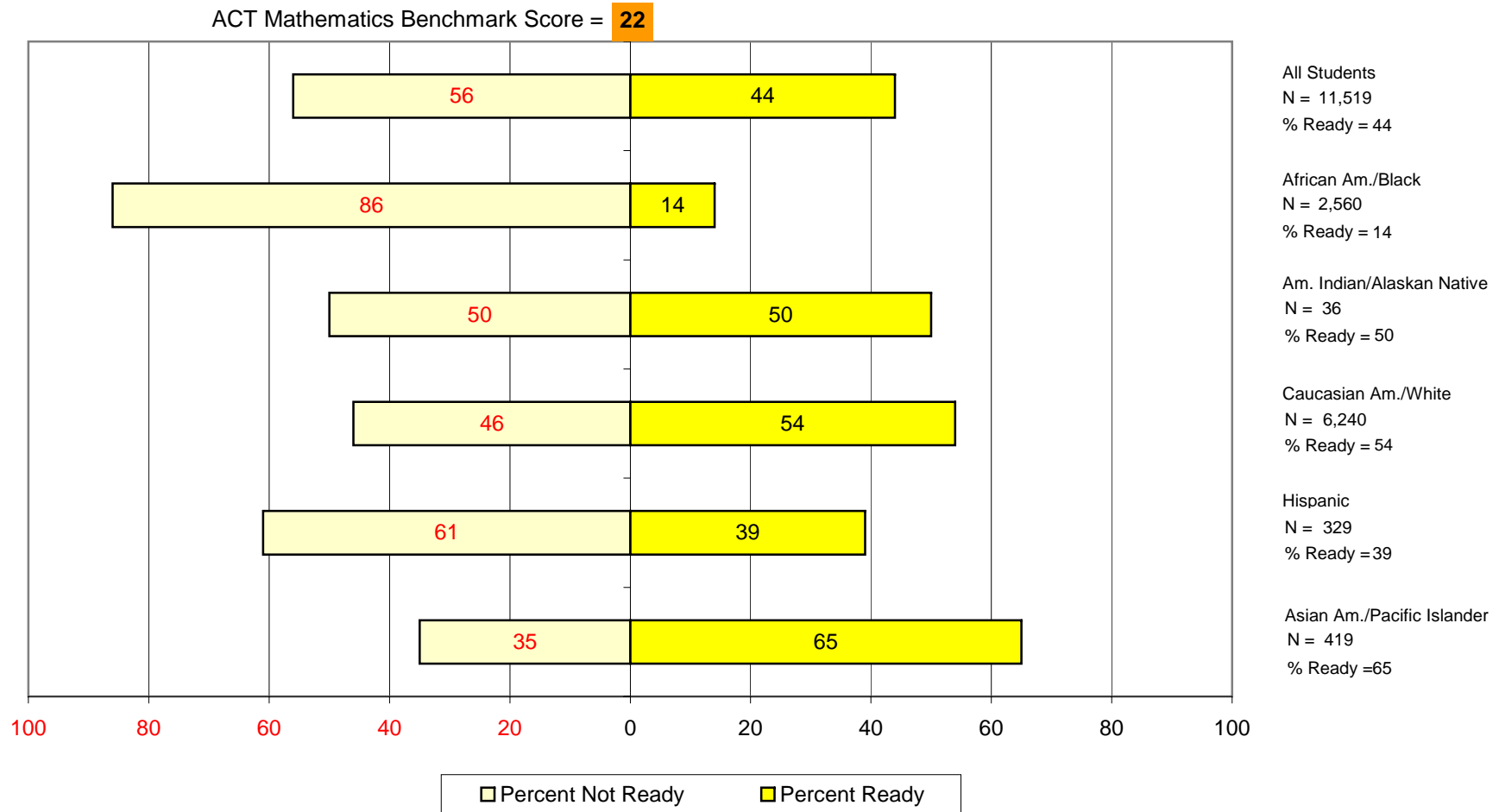


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

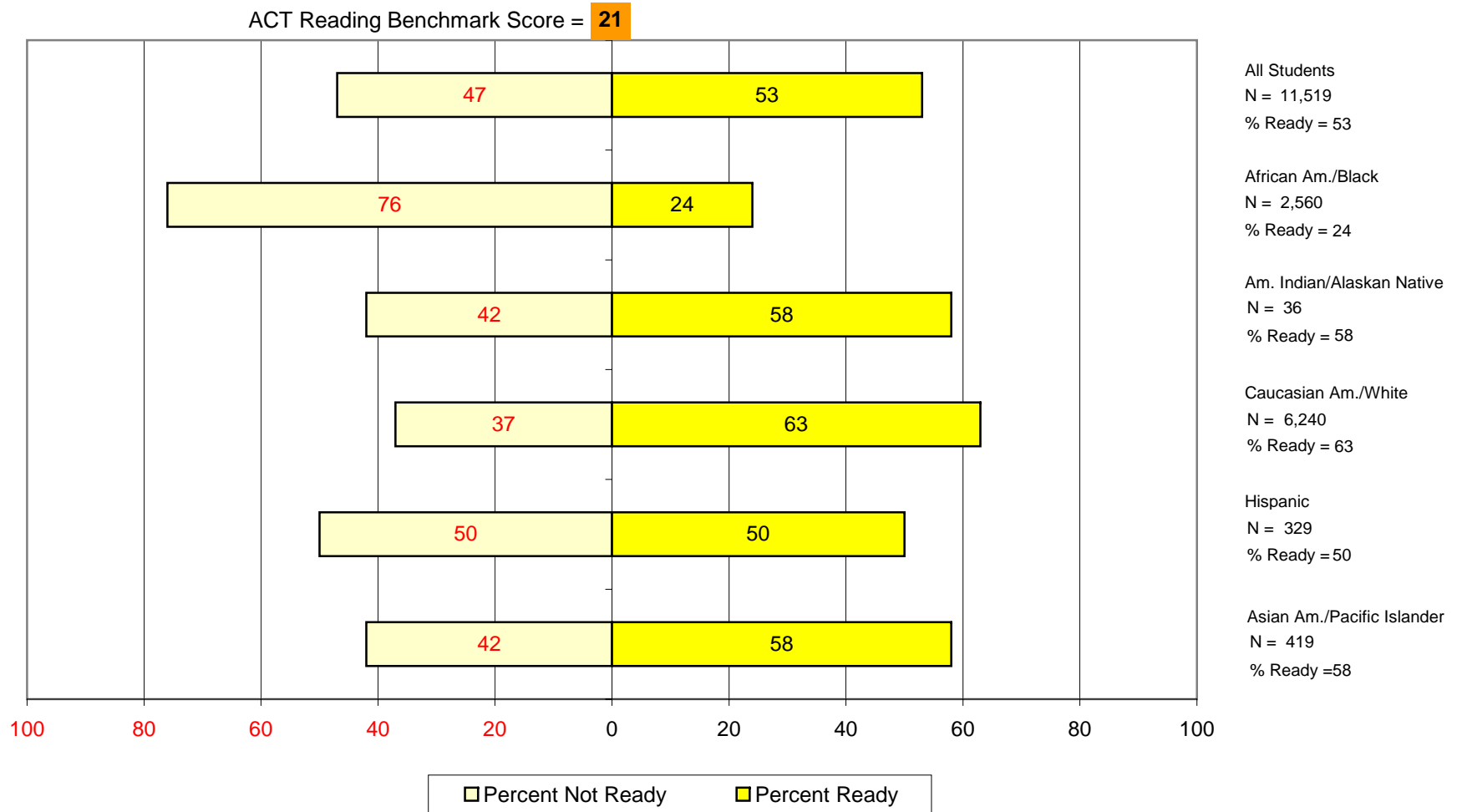


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

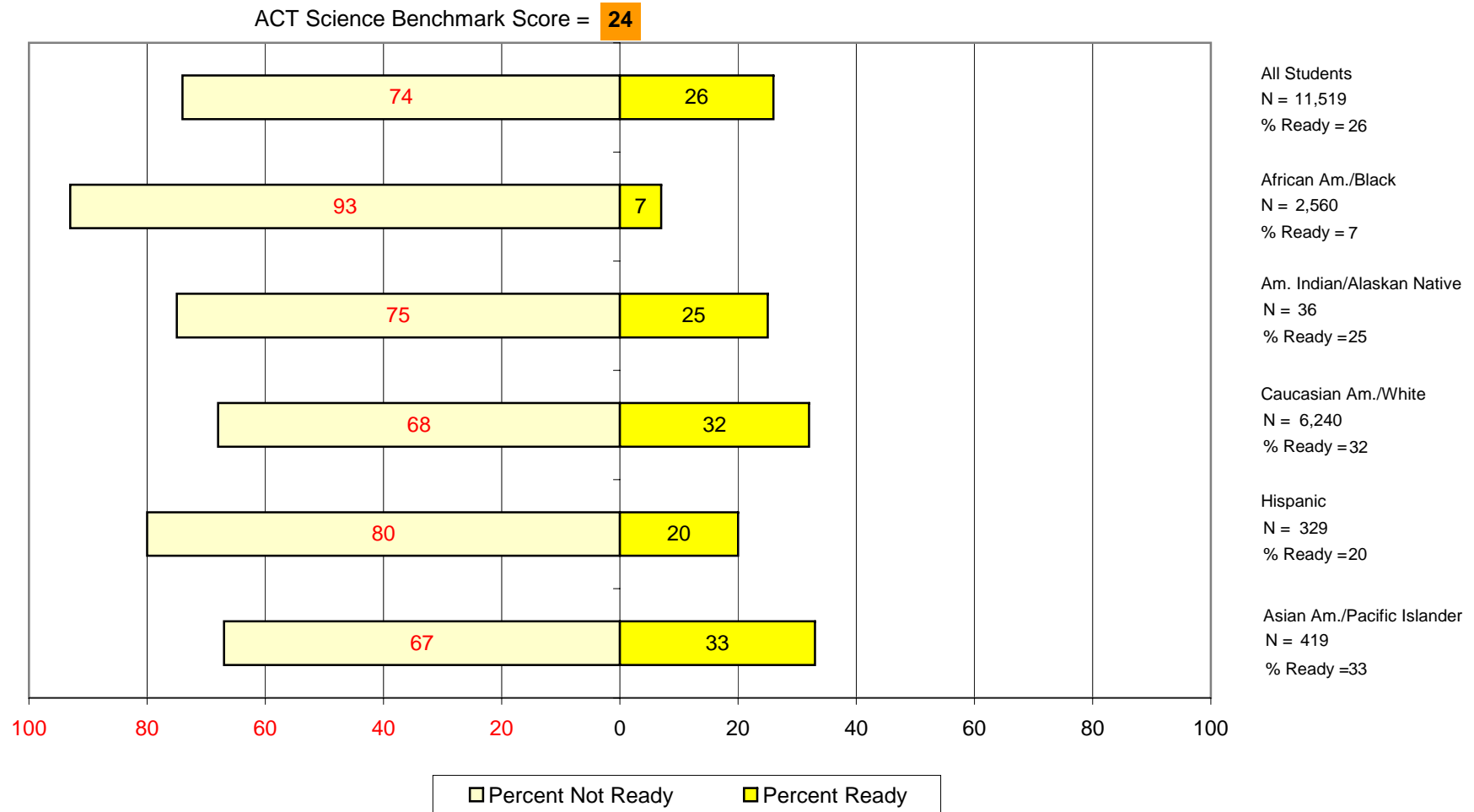


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

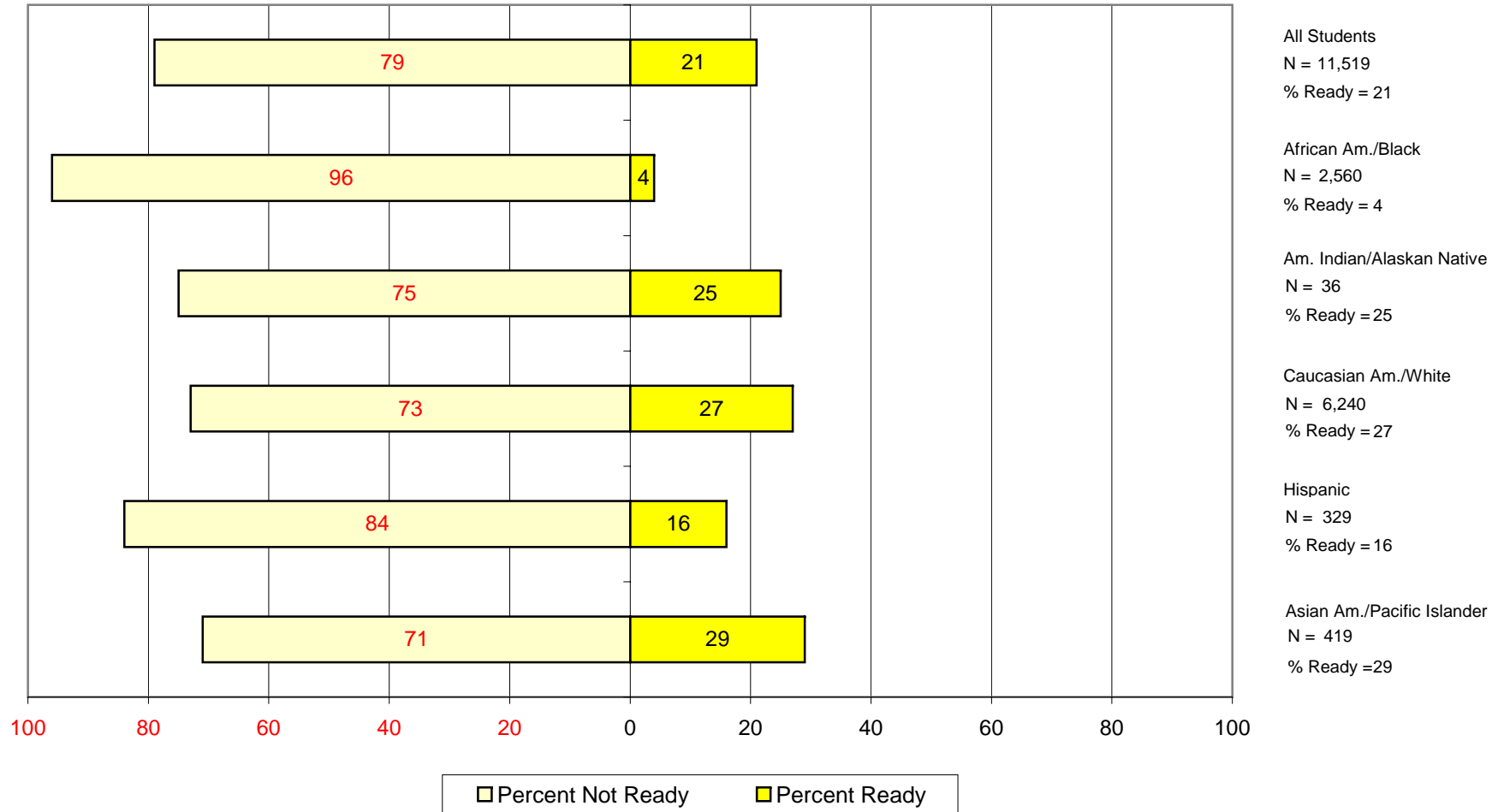


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	890	8	22.1	1.6	290	6	21.0	1.3	559	9	22.7	1.6
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	7,060	61	20.6	0.1	2,618	58	20.1	0.4	4,146	65	21.0	-0.1
Less than 4 years of English	1,165	10	20.5	-	472	10	19.7	-	638	10	21.1	-
No English course/grade information reported	2,404	21	20.2	-	1,132	25	19.3	-	1,043	16	21.0	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	842	7	24.7	5.6	335	7	25.5	6.2	474	7	24.1	5.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,038	9	21.9	2.8	317	7	22.8	3.5	678	11	21.5	2.7
Alg 1, Alg 2, Geom, & Trig	1,243	11	20.0	0.9	395	9	20.9	1.6	795	12	19.7	0.9
Alg 1, Alg 2, Geom, & Other Adv Math	1,139	10	19.9	0.8	338	7	20.5	1.2	748	12	19.6	0.8
Other comb of 4 or more years of Math	1,963	17	24.4	5.3	836	19	25.3	6.0	1,051	16	23.7	4.9
Alg 1, Alg 2, & Geom (Min. Core)	1,333	12	17.2	-1.9	544	12	17.7	-1.6	730	11	16.8	-2.0
Other comb of 3 or 3.5 years of Math	367	3	20.3	1.2	138	3	21.1	1.8	214	3	19.7	0.9
Less than 3 years of Math	1,091	9	19.1	-	432	10	19.3	-	600	9	18.8	-
No Math course/grade information reported	2,503	22	20.8	-	1,177	26	21.0	-	1,096	17	20.4	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	1,076	9	22.5	1.5	454	10	22.0	1.6	573	9	23.0	1.5
Other comb of 4 or more years Social Science	2,329	20	22.6	1.6	776	17	22.5	2.1	1,441	23	22.7	1.2
US Hist, World Hist, & Am Gov (Min. Core)	1,598	14	20.6	-0.4	644	14	20.2	-0.2	887	14	20.9	-0.6
Other comb of 3 or 3.5 years of Social Science	2,701	23	21.1	0.1	933	21	20.6	0.2	1,668	26	21.3	-0.2
Less than 3 years of Social Science	1,294	11	21.0	-	520	12	20.4	-	712	11	21.5	-
No Soc Sci course/grade information reported	2,521	22	21.0	-	1,185	26	20.1	-	1,105	17	21.7	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	3,573	31	22.1	3.2	1,410	31	22.7	3.8	2,016	32	21.6	2.7
Bio, Chem, Phys	773	7	23.4	4.5	292	6	24.4	5.5	441	7	22.7	3.8
Gen Sci ² , Bio, Chem (Min. Core)	2,994	26	19.7	0.8	934	21	19.9	1.0	1,938	30	19.6	0.7
Other comb of 3 years of Natural Science	215	2	18.5	-0.4	105	2	19.0	0.1	100	2	17.8	-1.1
Less than 3 years of Natural Science	1,344	12	18.9	-	546	12	18.9	-	732	11	18.9	-
No Nat Sci course/grade information reported	2,620	23	20.4	-	1,225	27	20.4	-	1,159	18	20.4	-

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

²Includes General, Physical and Earth Sciences.

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	890	8	22.1	79	272,554	23	21.8	77
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	7,060	61	20.6	70	668,226	55	20.4	67
Less than 4 years of English	1,165	10	20.5	70	115,551	10	19.4	62
No English course/grade information reported	2,404	21	20.2	67	150,124	12	20.3	67
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	842	7	24.7	77	67,960	6	24.7	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,038	9	21.9	54	90,348	7	22.2	56
Alg 1, Alg 2, Geom, & Trig	1,243	11	20.0	35	95,613	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	1,139	10	19.9	31	153,394	13	20.3	37
Other comb of 4 or more years of Math	1,963	17	24.4	72	244,137	20	24.0	68
Alg 1, Alg 2, & Geom (Min. Core)	1,333	12	17.2	11	209,836	17	17.8	14
Other comb of 3 or 3.5 years of Math	367	3	20.3	37	54,965	5	20.6	40
Less than 3 years of Math	1,091	9	19.1	30	131,567	11	17.9	18
No Math course/grade information reported	2,503	22	20.8	43	158,635	13	20.8	42
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	1,076	9	22.5	59	31,335	3	22.7	60
Other comb of 4 or more years Social Science	2,329	20	22.6	61	443,622	37	21.9	57
US Hist, World Hist, & Am Gov (Min. Core)	1,598	14	20.6	46	67,943	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	2,701	23	21.1	51	325,879	27	21.3	52
Less than 3 years of Social Science	1,294	11	21.0	50	179,270	15	20.5	46
No Soc Sci course/grade information reported	2,521	22	21.0	51	158,406	13	21.2	52
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	3,573	31	22.1	35	320,821	27	22.3	38
Bio, Chem, Phys	773	7	23.4	50	115,519	10	23.2	45
Gen Sci ¹ , Bio, Chem (Min. Core)	2,994	26	19.7	16	339,689	28	20.2	19
Other comb of 3 years of Natural Science	215	2	18.5	13	32,330	3	20.5	24
Less than 3 years of Natural Science	1,344	12	18.9	15	234,307	19	19.1	14
No Nat Sci course/grade information reported	2,620	23	20.4	24	163,789	14	20.7	26

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Table 4.1. Distribution of Planned Educational Majors for All Students and 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	76	1	19.8	2	1	15.5	71	1	20.0
Architecture & Environmental Design	154	1	21.9	1	1	18.0	142	2	22.0
Business & Management	776	7	20.1	11	8	17.3	719	8	20.2
Business & Office	35	0	19.7	1	1	15.0	33	0	19.7
Marketing & Distribution	94	1	20.1	3	2	13.3	85	1	20.3
Communications & Comm. Technologies	293	3	20.6	2	1	18.5	280	3	20.6
Community & Personal Services	158	1	18.1	6	4	16.7	142	2	18.2
Computer & Information Sciences	215	2	21.3	8	6	17.1	196	2	21.7
Cross-Disciplinary Studies	18	0	23.0	0	0	.	18	0	23.0
Education	306	3	20.4	2	1	17.5	287	3	20.5
Teacher Education	227	2	19.7	1	1	13.0	216	3	19.8
Engineering	329	3	23.0	4	3	14.0	309	4	23.1
Engineering-Related Technologies	247	2	22.0	6	4	19.0	237	3	22.1
Foreign Languages	59	1	24.7	0	0	.	57	1	24.7
Health Sciences & Allied Health Fields	1,091	9	19.9	16	12	16.1	1,025	12	20.1
Human, Family & Consumer Science	68	1	18.7	2	1	19.0	59	1	19.1
Letters	43	0	23.0	1	1	11.0	42	0	23.2
Mathematics	48	0	23.7	0	0	.	46	1	23.9
Philosophy, Religion & Theology	47	0	22.4	1	1	19.0	41	0	22.7
Sciences (Biological & Physical)	582	5	23.4	1	1	18.0	562	7	23.4
Social Sciences	708	6	21.6	2	1	13.5	681	8	21.6
Trade & Industrial	27	0	18.5	9	7	17.8	18	0	18.9
Visual & Performing Arts	471	4	21.2	11	8	14.5	436	5	21.6
Undecided	802	7	21.3	17	13	15.6	712	8	21.6
No Response	4,645	40	21.1	28	21	15.6	2,114	25	21.5

¹2-Year and 4-Year N's do not reflect "Missing" and "Other" institution types, therefore they may not add up to the N for *All Students*.

²Percent of students tested.

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-Am./ Black		Am. Indian/ Alaskan Native		Caucasian-Am./ White		Hispanic		Asian-Am./ Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	27	16.3	11	14.5	0	.	14	17.6	2	17.0	0	.	0	.
2-yr College Degree	108	16.1	38	14.7	2	13.5	54	17.1	3	16.3	1	14.0	10	16.5
Bachelors Degree	3,207	19.8	710	16.2	15	19.6	1,937	21.1	67	19.2	76	21.0	402	20.1
Graduate Study	2,598	22.2	452	18.1	6	24.5	1,610	23.3	61	21.4	102	23.5	367	22.6
Prof. Level Degree	2,723	22.1	737	18.8	7	22.9	1,296	23.8	117	21.2	153	23.0	413	22.7
Other	231	18.1	92	15.9	0	.	90	19.9	11	17.3	6	23.5	32	18.9
No Response	2,625	20.9	520	16.6	6	24.5	1,239	22.1	68	19.8	81	21.9	711	21.8

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	1,994	520	1,474	1	5	20	39	27	8	0
VIRGINIA TECH	Virginia	1,910	646	1,264	1	4	16	36	30	12	1
VIRGINIA COMMONWEALTH UNIVERSITY	Virginia	1,564	448	1,116	3	14	34	31	14	4	0
OLD DOMINION UNIVERSITY	Virginia	1,441	373	1,068	5	17	37	29	10	2	0
UNIV OF VIRGINIA-MAIN CAMPUS	Virginia	1,411	441	970	0	4	13	25	33	23	2
CHRISTOPHER NEWPORT UNIVERSITY	Virginia	1,172	404	768	1	8	29	41	17	4	0
GEORGE MASON UNIVERSITY	Virginia	1,099	294	805	1	8	28	38	19	5	0
RADFORD UNIVERSITY	Virginia	854	152	702	2	10	37	39	11	1	0
LONGWOOD UNIVERSITY	Virginia	698	172	526	1	10	36	39	13	1	0
COLLEGE OF WILLIAM AND MARY	Virginia	682	195	487	0	2	11	24	35	27	1
NORFOLK STATE UNIVERSITY	Virginia	651	181	470	13	32	42	11	2	0	0
HAMPTON UNIVERSITY	Virginia	618	195	423	4	24	42	21	7	1	0
VIRGINIA STATE UNIVERSITY	Virginia	581	156	425	10	33	43	11	2	0	0
UNIVERSITY OF MARY WASHINGTON	Virginia	501	82	419	0	3	15	37	30	15	1
NCAA INITIAL-ELIGIBILITY CLEARINGHOUSE	Iowa	304	155	149	6	18	32	23	15	6	0
LIBERTY UNIVERSITY	Virginia	261	104	157	3	13	37	28	13	4	0
BRIDGEWATER COLLEGE	Virginia	244	73	171	2	12	26	39	17	5	0
HOWARD UNIVERSITY	District of Columbia	216	83	133	3	21	37	32	6	0	0
NORTH CAROLINA AGRIC & TECH STATE UNIV	North Carolina	215	80	135	5	21	45	23	6	1	0
UNIVERSITY OF RICHMOND	Virginia	212	40	172	2	6	24	24	22	22	1
LYNCHBURG COLLEGE	Virginia	208	45	163	1	15	38	32	10	4	0
VIRGINIA UNION UNIVERSITY	Virginia	202	30	172	15	42	34	8	1	0	0
UNIV OF NORTH CAROLINA AT CHAPEL HILL	North Carolina	192	42	150	5	7	19	21	24	23	1
BRIGHAM YOUNG UNIVERSITY	Utah	182	142	40	1	1	4	27	30	28	9
NORTH CAROLINA STATE UNIV AT RALEIGH	North Carolina	176	20	156	2	6	20	33	28	11	0
ROANOKE COLLEGE	Virginia	171	31	140	2	8	26	42	19	5	0
VIRGINIA WESLEYAN COLLEGE	Virginia	170	31	139	3	19	43	28	6	1	0
DUKE UNIVERSITY	North Carolina	165	31	134	1	5	13	18	28	28	7
VIRGINIA MILITARY INSTITUTE	Virginia	165	61	104	1	6	19	41	25	8	0
EAST CAROLINA UNIVERSITY	North Carolina	150	25	125	3	10	29	42	15	1	0
All Other Institutions		11,415	2,902	8,513	3	10	24	28	22	12	1
Total		29,824	8,154	21,670	3	11	26	30	20	10	1

Section V

Optional Writing Test Results

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

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
			State	National	State	National	State	National
All Students	4,913	430,404	21.8	22.4	7.6	7.7	21.5	22.0
African Am./Black	926	38,583	17.3	17.5	6.7	6.8	17.3	17.6
Am. Indian/Alaskan Native	15	2,803	23.6	19.8	7.7	7.1	22.9	19.6
Caucasian Am./White	2,652	269,428	23.2	23.4	7.9	7.8	22.8	22.8
Hispanic	144	33,207	20.6	18.9	7.6	7.4	20.6	19.1
Asian Am./Pacific Islander	224	21,275	22.9	23.0	8.0	8.0	22.6	22.8
Other/No Response	952	65,108	22.3	22.8	7.8	7.9	22.0	22.5
Males	1,819	170,904	21.1	22.1	7.3	7.4	20.7	21.5
Females	2,823	240,056	22.3	22.6	7.8	7.9	22.1	22.3
Missing	271	19,444	21.3	22.1	7.6	7.8	21.1	21.9

