

ACT High School Profile Report

The Graduating Class of 2006
Pennsylvania



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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

26% 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. 12,651 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. 54% 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 10% of the cohort took less than three years of math courses. Of these students, 30% were college ready. 9% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 13% of these students were college ready. In comparison, 58% 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 10% of the cohort took less than three years of natural science courses. 18% of these students were college ready. In comparison, 33% 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 41% 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.

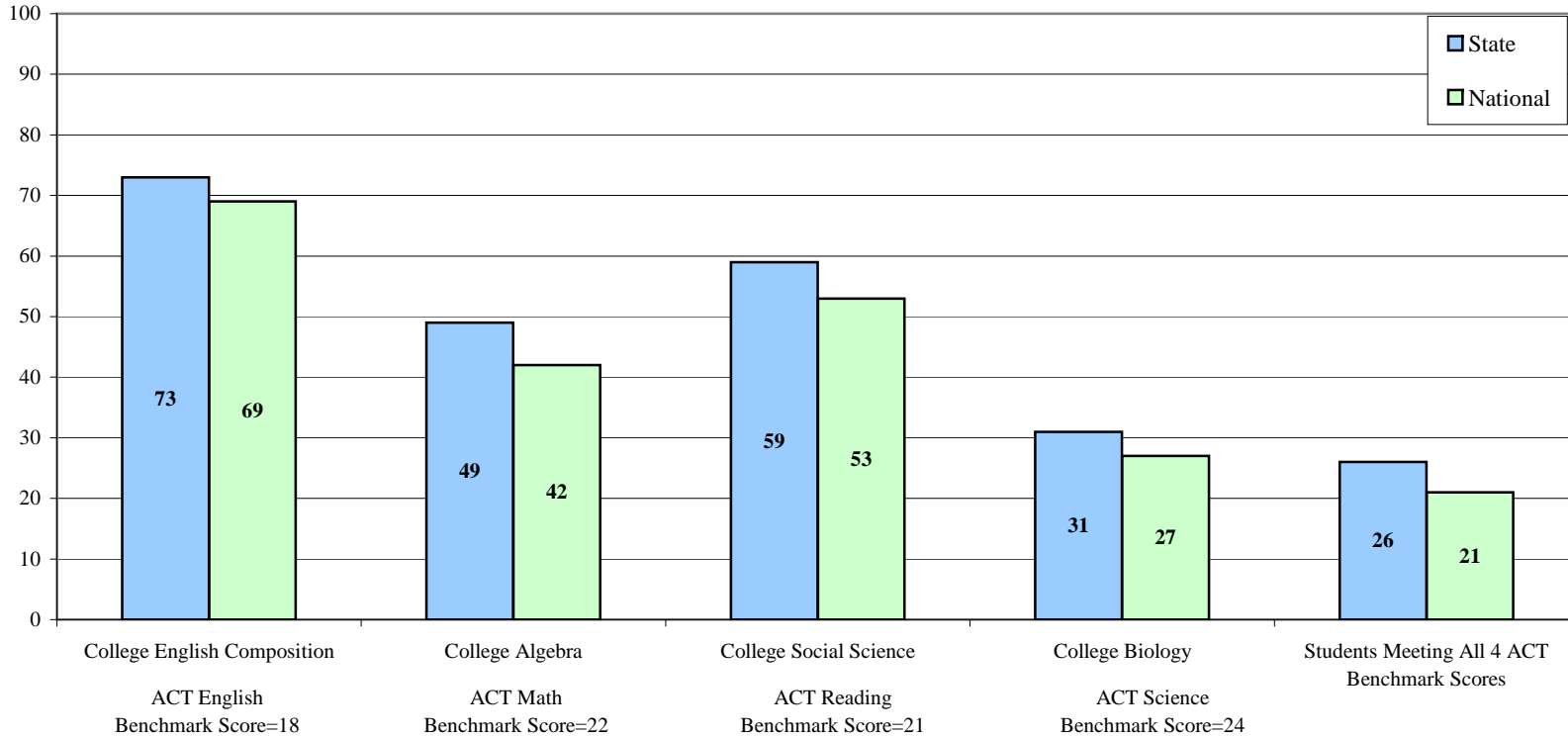
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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 518-869-7378.

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	9,592	1,116,082	71	67	46	39	59	53	30	26	24	20
2003	11,290	1,175,059	71	67	46	40	58	52	30	26	25	20
2004	12,012	1,171,460	74	68	48	40	59	52	31	26	26	21
2005	11,848	1,186,251	73	68	47	41	59	51	30	26	25	21
2006	12,651	1,206,455	73	69	49	42	59	53	31	27	26	21

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	9,592	1,116,082	20.8	20.2	21.2	20.6	22.0	21.1	21.3	20.8	21.5	20.8
2003	11,290	1,175,059	20.9	20.3	21.2	20.6	22.1	21.2	21.3	20.8	21.5	20.8
2004	12,012	1,171,460	21.2	20.4	21.5	20.7	22.3	21.3	21.5	20.9	21.8	20.9
2005	11,848	1,186,251	21.2	20.4	21.5	20.7	22.3	21.3	21.4	20.9	21.7	20.9
2006	12,651	1,206,455	21.3	20.6	21.7	20.8	22.2	21.4	21.4	20.9	21.8	21.1

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	6,001	2,648	63	28	21.6	19.4	21.9	19.8	22.7	20.8	21.9	20.2	22.1	20.2
2003	6,964	3,068	62	27	21.6	19.6	21.9	19.9	22.8	20.9	21.9	20.3	22.2	20.3
2004	7,280	3,312	61	28	21.9	19.9	22.2	20.2	23.0	21.2	22.1	20.4	22.4	20.6
2005	6,932	3,337	59	28	22.0	20.1	22.1	20.4	23.0	21.3	22.0	20.6	22.4	20.7
2006	6,882	3,826	54	30	21.9	20.3	22.3	20.7	22.8	21.4	21.9	20.6	22.4	20.9

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	9,592	100	21.5	11,290	100	21.5	12,012	100	21.8	11,848	100	21.7	12,651	100	21.8
African American/Black	731	8	16.5	891	8	16.4	985	8	16.8	986	8	16.6	1,018	8	16.6
American Indian/Alaskan Native	22	0	19.2	21	0	18.9	22	0	20.4	25	0	21.2	27	0	19.0
Caucasian American/White	7,664	80	21.9	8,899	79	22.0	9,233	77	22.2	9,070	77	22.2	9,059	72	22.2
Hispanic	139	1	19.3	158	1	19.3	180	1	19.4	209	2	20.0	197	2	20.5
Asian American/Pacific Islander	203	2	21.8	270	2	22.8	252	2	22.6	263	2	23.7	266	2	23.4
Other/No Response	833	9	21.9	1,051	9	21.6	1,340	11	22.4	1,295	11	22.3	2,084	16	22.3

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	23	100	27	100	90	100	24	100	0	100	36
35	95	100	55	100	156	99	61	100	19	100	35
34	169	99	126	99	257	98	60	99	50	100	34
33	164	98	101	98	272	96	91	99	92	99	33
32	149	96	128	98	238	94	95	98	153	99	32
31	256	95	192	97	340	92	146	97	213	98	31
30	300	93	296	95	377	89	73	96	267	96	30
29	420	91	391	93	458	86	183	96	378	94	29
28	446	88	481	90	437	83	303	94	534	91	28
27	450	84	655	86	745	79	433	92	592	87	27
26	507	80	791	81	573	73	762	88	714	82	26
25	783	76	782	74	664	69	740	82	796	76	25
24	654	70	811	68	701	64	890	77	830	70	24
23	717	65	707	62	752	58	1,118	69	837	63	23
22	862	59	617	56	650	52	1,057	61	934	57	22
21	886	53	736	51	698	47	1,021	52	942	49	21
20	956	46	681	45	744	41	1,259	44	949	42	20
19	839	38	737	40	778	36	1,122	34	881	34	19
18	616	31	873	34	557	29	913	25	829	27	18
17	591	27	1,092	27	652	25	677	18	734	21	17
16	591	22	1,050	19	578	20	441	13	639	15	16
15	581	17	655	10	404	15	360	9	447	10	15
14	500	13	421	5	571	12	241	6	336	6	14
13	252	9	145	2	355	8	177	5	241	4	13
12	217	7	71	1	290	5	132	3	138	2	12
11	197	5	20	1	187	2	124	2	69	1	11
10	143	3	6	1	59	1	69	1	26	1	10
9	105	2	4	1	33	1	44	1	8	1	9
8	96	1	0	1	21	1	15	1	2	1	8
7	58	1	0	1	8	1	7	1	1	1	7
6	22	1	0	1	0	1	6	1	0	1	6
5	3	1	0	1	4	1	5	1	0	1	5
4	2	1	0	1	1	1	0	1	0	1	4
3	1	1	0	1	0	1	2	1	0	1	3
2	0	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	0	1	0	1	0	1	1
Average	21.3		21.7		22.2		21.4		21.8		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	422	100	68	100	219	100	477	100	457	100	102	100	130	100	18
17	641	97	271	99	801	98	811	96	566	96	197	99	152	99	17
16	595	92	549	97	704	92	967	90	987	92	283	98	359	98	16
15	738	87	950	93	903	86	1,031	82	841	84	558	95	815	95	15
14	980	81	1,059	85	808	79	1,011	74	1,033	77	1,239	91	1,103	88	14
13	720	73	1,037	77	1,031	73	1,086	66	1,285	69	919	81	1,466	80	13
12	1,113	68	1,355	69	1,349	65	1,241	57	1,490	59	1,853	74	1,360	68	12
11	1,183	59	1,678	58	1,227	54	976	48	907	47	1,307	59	1,314	57	11
10	1,479	49	1,536	45	1,057	44	1,109	40	1,146	40	1,920	49	1,946	47	10
9	1,135	38	1,450	33	1,288	36	1,002	31	909	31	1,883	34	1,395	32	9
8	1,012	29	1,046	21	1,275	26	760	23	1,330	24	967	19	951	21	8
7	950	21	632	13	713	16	692	17	1,052	13	347	11	670	13	7
6	702	13	403	8	604	10	793	12	414	5	431	9	500	8	6
5	415	8	354	5	292	5	375	5	126	2	369	5	86	4	5
4	340	4	172	2	172	3	214	3	75	1	94	2	246	3	4
3	150	2	68	1	136	2	74	1	25	1	121	1	34	1	3
2	68	1	19	1	46	1	30	1	8	1	18	1	94	1	2
1	8	1	4	1	26	1	2	1	0	1	43	1	30	1	1
Average	10.8		10.9		11.1		11.5		11.6		10.7		10.8		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	12,651	54	22.4	20.9
	African Am./Black	1,018	47	17.5	15.9
	Am. Indian/Alaskan Native	27	37	19.2	19.9
	Caucasian Am./White	9,059	58	22.7	21.4
	Hispanic	197	47	22.0	19.1
	Asian Am./Pacific Islander	266	57	23.8	22.6
	Other/No Response	2,084	45	22.8	21.7
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	451	4	309	2	775	6	236	2
	28 to 32	1,571	12	1,488	12	1,850	15	800	6
	24 to 27	2,394	19	3,039	24	2,683	21	2,825	22
	20 to 23	3,421	27	2,741	22	2,844	22	4,455	35
	16 to 19	2,637	21	3,752	30	2,565	20	3,153	25
	13 to 15	1,333	11	1,221	10	1,330	11	778	6
	01 to 12	844	7	101	1	604	5	404	3
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	4,995	39	20.6	22.4	21.7	21.9	21.8
	Females	6,966	55	21.8	21.2	22.6	21.0	21.8
	Missing	690	5	21.2	21.4	22.4	21.2	21.7
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	69	54	55	36	30
	Females	77	45	61	26	23
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

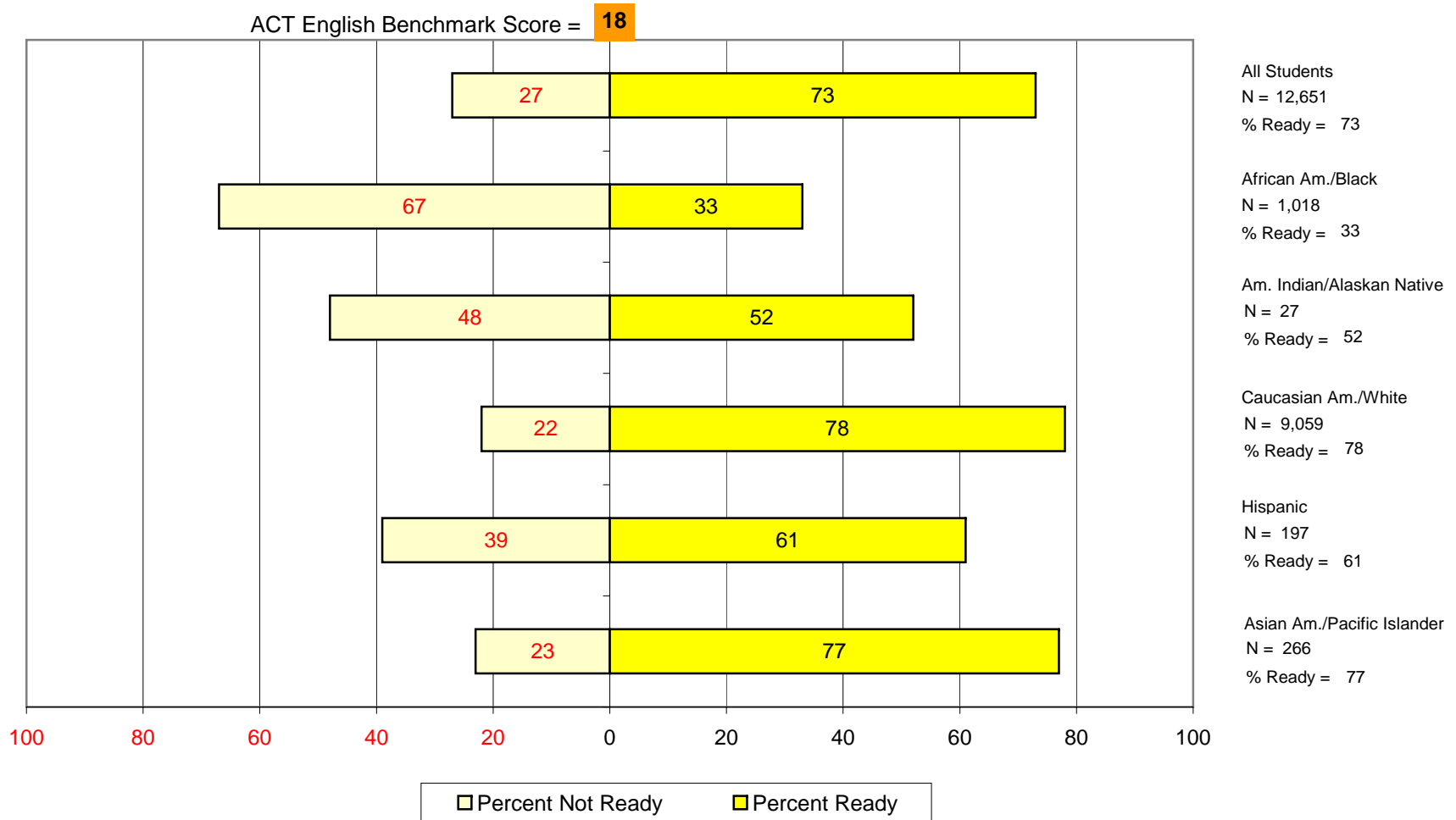


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

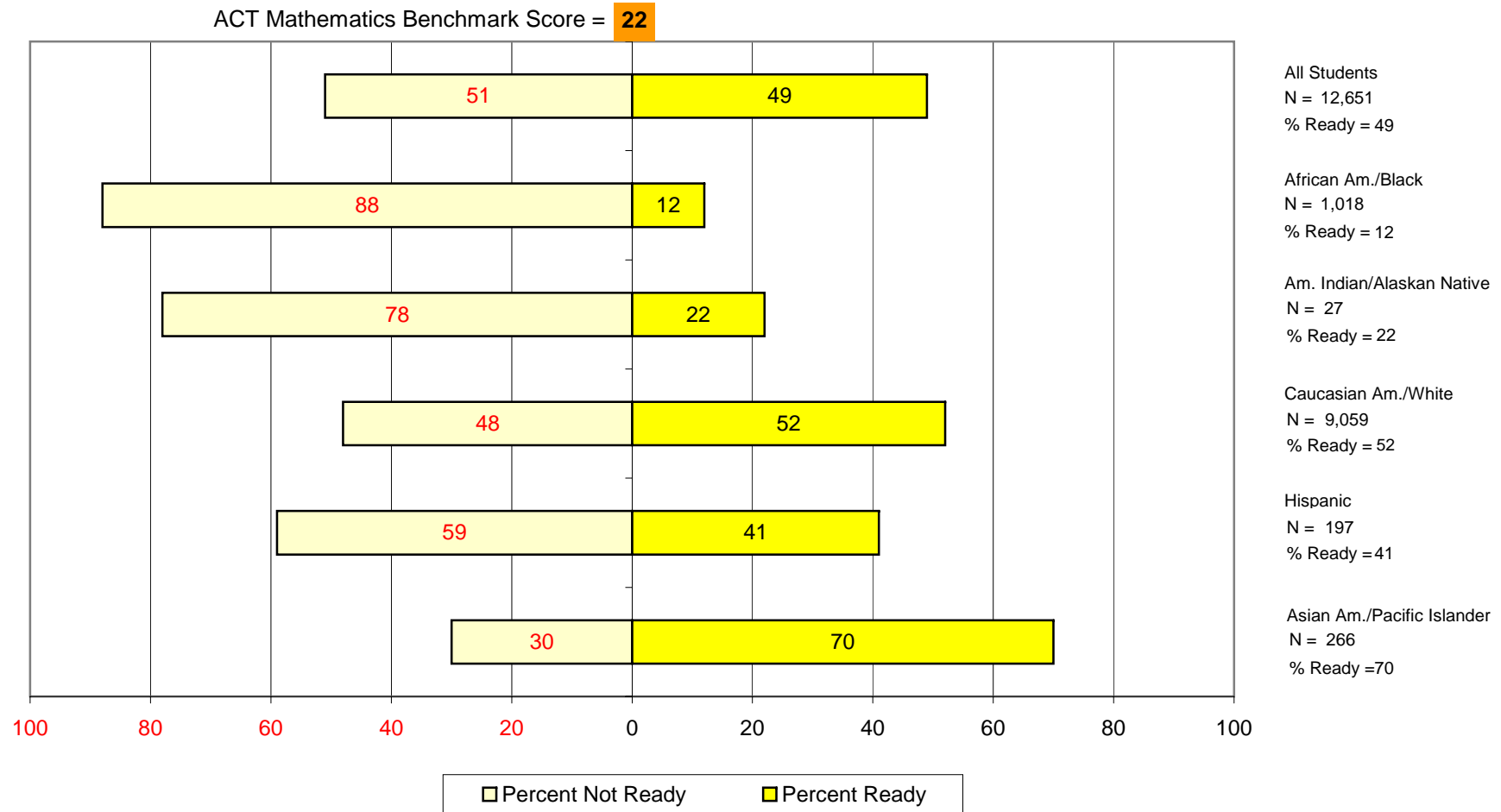


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

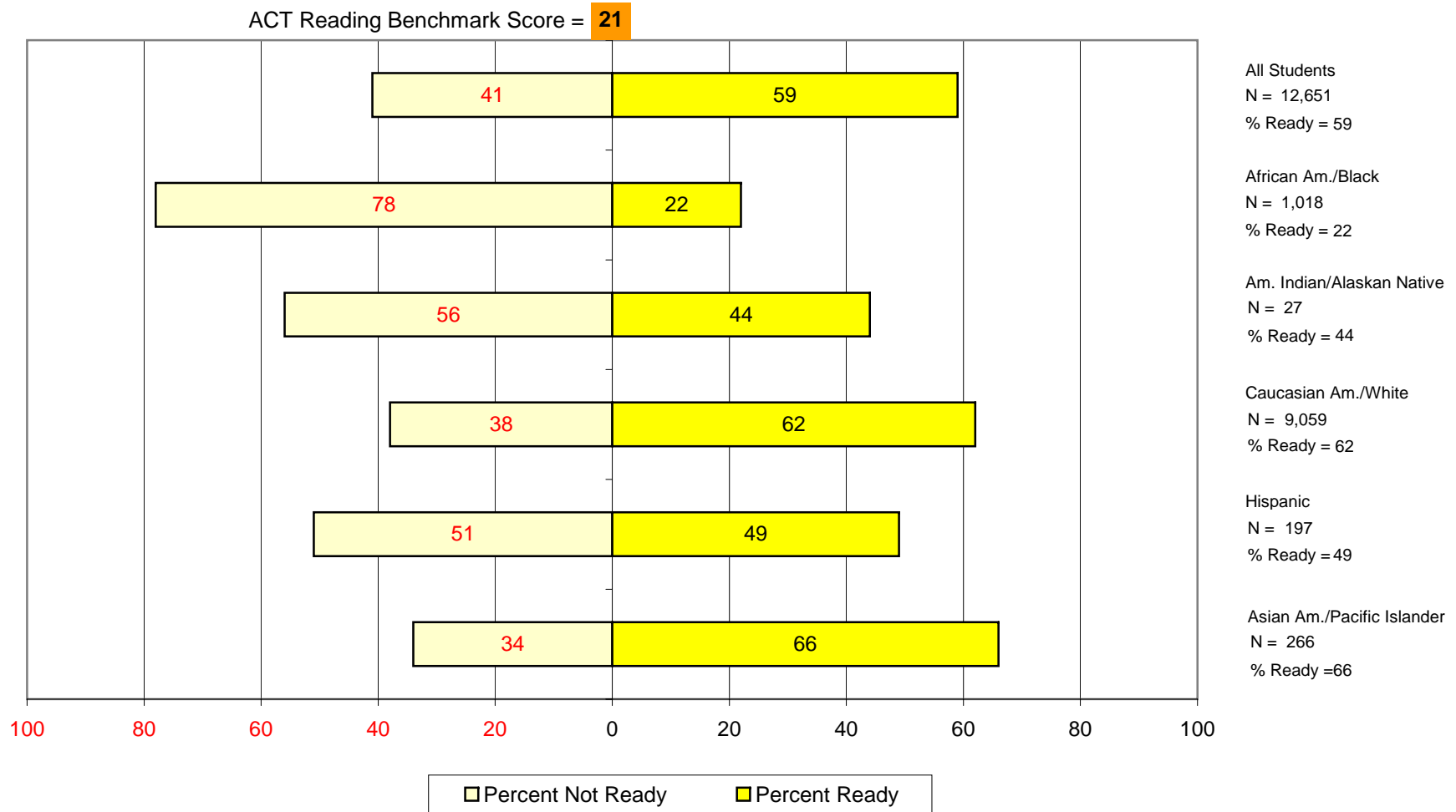


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

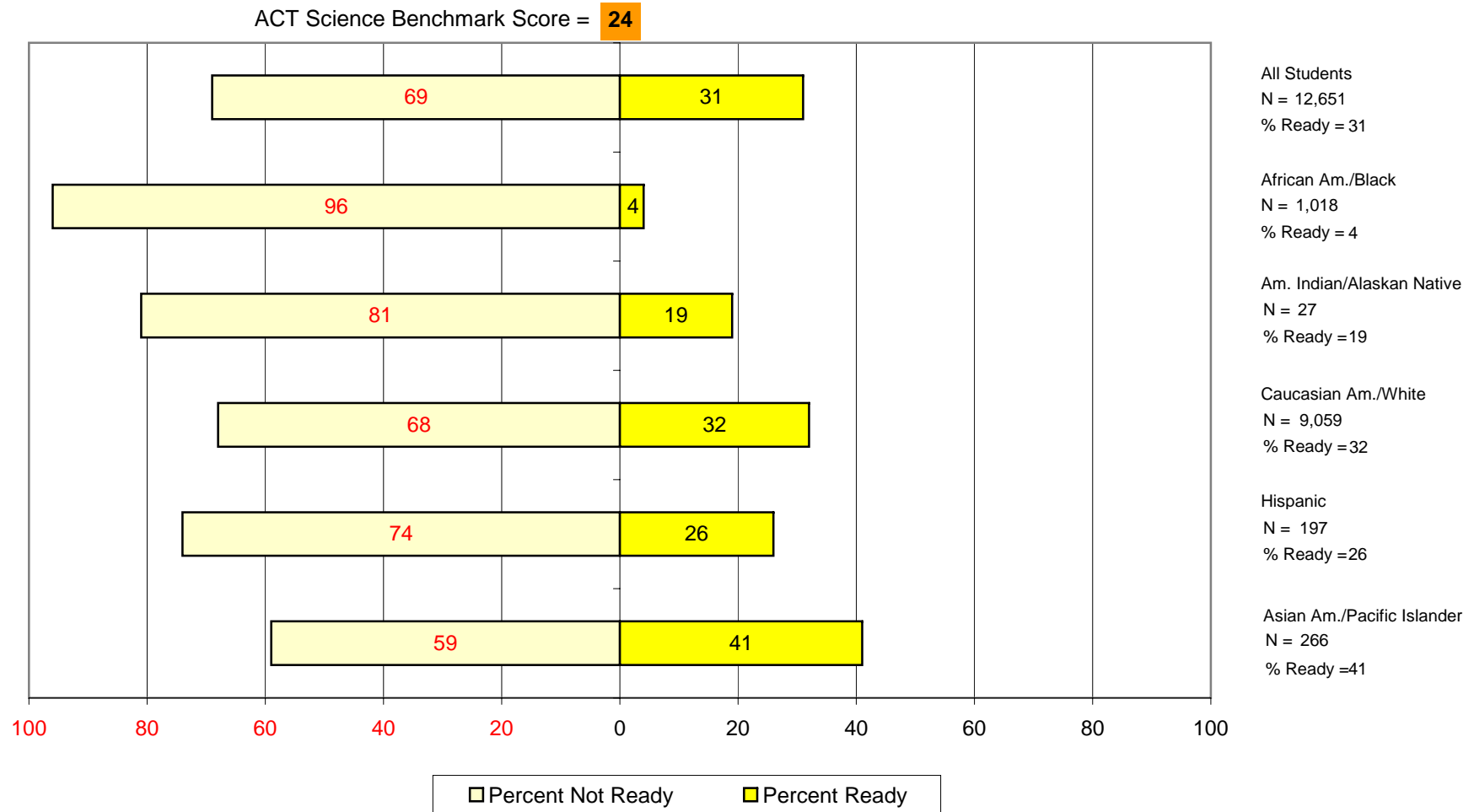


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

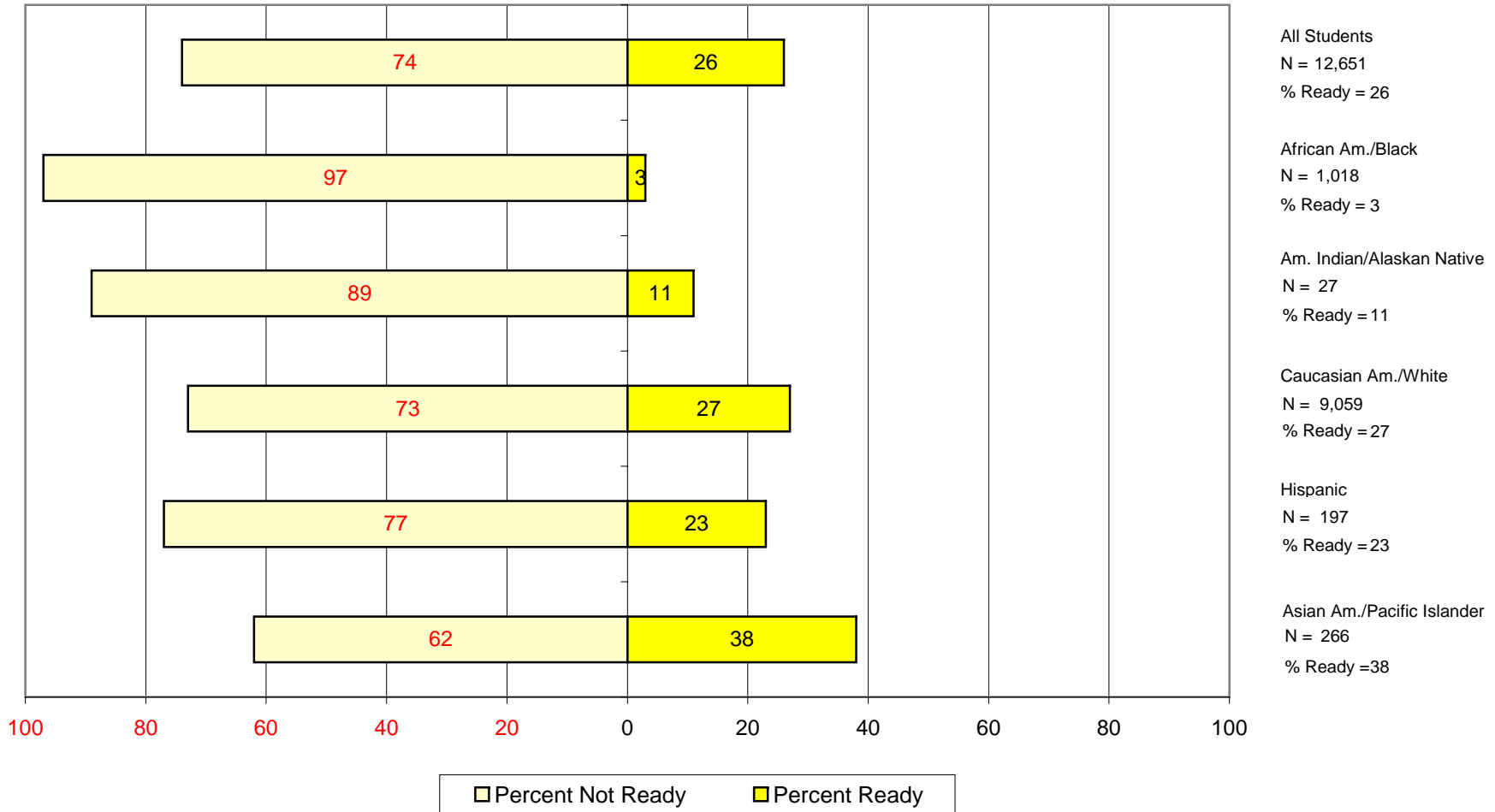


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	1,837	15	22.7	2.1	664	13	22.0	1.8	1,095	16	23.2	2.2
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	7,528	60	21.1	0.5	2,873	58	20.6	0.4	4,312	62	21.5	0.5
Less than 4 years of English	1,278	10	20.6	-	551	11	20.2	-	652	9	21.0	-
No English course/grade information reported	2,008	16	21.0	-	907	18	19.9	-	907	13	22.1	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,388	11	24.7	5.4	501	10	25.7	5.9	825	12	24.2	5.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	951	8	21.7	2.4	296	6	22.2	2.4	615	9	21.4	2.5
Alg 1, Alg 2, Geom, & Trig	1,286	10	19.9	0.6	446	9	20.5	0.7	778	11	19.6	0.7
Alg 1, Alg 2, Geom, & Other Adv Math	922	7	19.7	0.4	294	6	20.6	0.8	582	8	19.3	0.4
Other comb of 4 or more years of Math	2,998	24	24.5	5.2	1,342	27	25.5	5.7	1,546	22	23.7	4.8
Alg 1, Alg 2, & Geom (Min. Core)	1,167	9	17.7	-1.6	444	9	18.0	-1.8	666	10	17.5	-1.4
Other comb of 3 or 3.5 years of Math	516	4	21.2	1.9	217	4	21.7	1.9	276	4	20.9	2.0
Less than 3 years of Math	1,283	10	19.3	-	486	10	19.8	-	710	10	18.9	-
No Math course/grade information reported	2,140	17	21.4	-	969	19	21.5	-	968	14	21.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	755	6	23.4	1.3	330	7	23.0	1.0	388	6	23.9	1.8
Other comb of 4 or more years Social Science	3,891	31	22.7	0.6	1,414	28	22.1	0.1	2,317	33	23.1	1.0
US Hist, World Hist, & Am Gov (Min. Core)	670	5	21.1	-1.0	255	5	20.7	-1.3	385	6	21.4	-0.7
Other comb of 3 or 3.5 years of Social Science	2,885	23	21.9	-0.2	1,093	22	21.5	-0.5	1,669	24	22.2	0.1
Less than 3 years of Social Science	2,290	18	22.1	-	928	19	22.0	-	1,227	18	22.1	-
No Soc Sci course/grade information reported	2,160	17	22.0	-	975	20	21.1	-	980	14	22.7	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	4,776	38	22.2	2.7	1,897	38	22.9	3.4	2,684	39	21.7	2.2
Bio, Chem, Phys	1,412	11	23.9	4.4	591	12	24.8	5.3	767	11	23.2	3.7
Gen Sci ² , Bio, Chem (Min. Core)	2,634	21	19.7	0.2	859	17	20.1	0.6	1,649	24	19.6	0.1
Other comb of 3 years of Natural Science	232	2	20.7	1.2	101	2	21.4	1.9	119	2	20.1	0.6
Less than 3 years of Natural Science	1,326	10	19.5	-	523	10	19.5	-	719	10	19.5	-
No Nat Sci course/grade information reported	2,271	18	21.1	-	1,024	21	21.3	-	1,028	15	20.8	-

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	1,837	15	22.7	83	272,554	23	21.8	77
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	7,528	60	21.1	72	668,226	55	20.4	67
Less than 4 years of English	1,278	10	20.6	71	115,551	10	19.4	62
No English course/grade information reported	2,008	16	21.0	70	150,124	12	20.3	67
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,388	11	24.7	76	67,960	6	24.7	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	951	8	21.7	51	90,348	7	22.2	56
Alg 1, Alg 2, Geom, & Trig	1,286	10	19.9	33	95,613	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	922	7	19.7	30	153,394	13	20.3	37
Other comb of 4 or more years of Math	2,998	24	24.5	72	244,137	20	24.0	68
Alg 1, Alg 2, & Geom (Min. Core)	1,167	9	17.7	13	209,836	17	17.8	14
Other comb of 3 or 3.5 years of Math	516	4	21.2	46	54,965	5	20.6	40
Less than 3 years of Math	1,283	10	19.3	30	131,567	11	17.9	18
No Math course/grade information reported	2,140	17	21.4	46	158,635	13	20.8	42
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	755	6	23.4	64	31,335	3	22.7	60
Other comb of 4 or more years Social Science	3,891	31	22.7	62	443,622	37	21.9	57
US Hist, World Hist, & Am Gov (Min. Core)	670	5	21.1	50	67,943	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	2,885	23	21.9	57	325,879	27	21.3	52
Less than 3 years of Social Science	2,290	18	22.1	57	179,270	15	20.5	46
No Soc Sci course/grade information reported	2,160	17	22.0	57	158,406	13	21.2	52
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	4,776	38	22.2	37	320,821	27	22.3	38
Bio, Chem, Phys	1,412	11	23.9	51	115,519	10	23.2	45
Gen Sci ¹ , Bio, Chem (Min. Core)	2,634	21	19.7	16	339,689	28	20.2	19
Other comb of 3 years of Natural Science	232	2	20.7	22	32,330	3	20.5	24
Less than 3 years of Natural Science	1,326	10	19.5	18	234,307	19	19.1	14
No Nat Sci course/grade information reported	2,271	18	21.1	28	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	85	1	20.1	12	5	18.2	72	1	20.4
Architecture & Environmental Design	173	1	22.1	8	3	19.5	157	2	22.3
Business & Management	875	7	21.2	17	7	16.5	820	8	21.3
Business & Office	36	0	19.6	5	2	20.0	29	0	19.6
Marketing & Distribution	77	1	20.7	3	1	18.3	71	1	20.7
Communications & Comm. Technologies	406	3	21.6	5	2	19.0	385	4	21.7
Community & Personal Services	165	1	18.0	15	6	16.2	140	1	18.1
Computer & Information Sciences	178	1	22.1	11	4	19.5	154	2	22.4
Cross-Disciplinary Studies	17	0	25.4	0	0	.	17	0	25.4
Education	613	5	20.5	4	2	17.8	591	6	20.6
Teacher Education	352	3	19.4	0	0	.	335	3	19.4
Engineering	386	3	24.8	2	1	19.0	366	4	24.9
Engineering-Related Technologies	206	2	23.9	7	3	20.7	187	2	23.9
Foreign Languages	69	1	25.0	0	0	.	65	1	24.9
Health Sciences & Allied Health Fields	1,627	13	21.0	76	29	17.1	1,487	15	21.3
Human, Family & Consumer Science	56	0	19.4	7	3	17.4	42	0	19.9
Letters	59	0	25.1	1	0	22.0	55	1	24.9
Mathematics	72	1	25.5	0	0	.	71	1	25.4
Philosophy, Religion & Theology	63	0	22.5	1	0	19.0	58	1	22.9
Sciences (Biological & Physical)	721	6	24.1	2	1	20.5	699	7	24.2
Social Sciences	769	6	22.6	1	0	19.0	748	8	22.8
Trade & Industrial	34	0	18.1	11	4	17.2	19	0	18.2
Visual & Performing Arts	436	3	21.1	8	3	17.8	404	4	21.2
Undecided	931	7	21.6	25	10	17.0	829	8	21.8
No Response	4,245	34	21.8	38	15	17.1	2,065	21	21.9

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	45	17.1	4	13.8	0	.	37	17.2	0	.	0	.	4	19.3
2-yr College Degree	214	17.6	19	14.7	1	16.0	158	17.8	4	18.3	4	17.5	28	18.8
Bachelors Degree	3,923	20.1	276	15.5	7	17.1	3,041	20.5	48	18.4	41	20.4	510	20.1
Graduate Study	2,785	22.9	167	17.4	4	24.3	2,132	23.2	36	22.1	47	23.4	399	23.2
Prof. Level Degree	3,158	23.4	302	18.2	9	20.3	2,177	24.0	65	22.1	124	24.4	481	24.1
Other	222	18.5	29	15.5	1	18.0	140	19.4	7	16.9	6	20.8	39	17.5
No Response	2,304	21.9	221	15.7	5	16.0	1,374	22.5	37	19.8	44	24.5	623	22.7

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

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	2,135	724	1,411	1	7	24	32	25	11	1
UNIVERSITY OF PITTSBURGH	Pennsylvania	1,324	407	917	1	4	17	35	29	14	1
DUQUESNE UNIVERSITY	Pennsylvania	702	264	438	1	3	19	41	27	9	1
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	597	167	430	1	11	43	31	11	2	0
TEMPLE UNIVERSITY	Pennsylvania	589	135	454	4	13	34	29	14	5	0
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	552	127	425	4	13	38	29	14	3	0
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	456	162	294	4	17	39	29	10	1	0
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	455	108	347	5	11	35	34	12	3	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	413	180	233	1	4	8	16	32	34	4
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	399	105	294	3	10	36	33	15	4	0
GANNON UNIVERSITY	Pennsylvania	388	105	283	3	12	27	38	16	3	0
DREXEL UNIVERSITY	Pennsylvania	373	104	269	2	8	23	28	26	13	1
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	343	66	277	2	12	40	31	12	3	0
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	338	90	248	3	11	42	32	11	1	0
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	320	120	200	2	17	46	27	6	2	0
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	320	90	230	3	17	43	26	8	3	0
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	315	94	221	1	11	44	32	10	1	0
MERCYHURST COLLEGE	Pennsylvania	296	87	209	4	15	31	31	15	4	0
WEST VIRGINIA UNIVERSITY	West Virginia	293	87	206	2	6	26	38	22	7	0
ALLEGHENY COLLEGE	Pennsylvania	250	94	156	0	4	15	30	35	16	0
VILLANOVA UNIVERSITY	Pennsylvania	246	50	196	0	4	16	24	32	22	1
LOCK HAVEN U OF PENNSYLVANIA	Pennsylvania	245	57	188	4	12	40	31	12	1	0
GROVE CITY COLLEGE	Pennsylvania	243	97	146	0	2	9	27	40	20	2
CARNEGIE MELLON UNIVERSITY	Pennsylvania	240	86	154	0	1	10	23	30	28	8
ROBERT MORRIS UNIVERSITY	Pennsylvania	239	69	170	2	11	38	31	16	2	0
NCAA INITIAL-ELIGIBILITY CLEARINGHOUSE	Iowa	217	104	113	3	7	25	31	25	8	0
WASHINGTON AND JEFFERSON COLLEGE	Pennsylvania	201	42	159	0	5	19	33	30	12	0
LEHIGH UNIVERSITY	Pennsylvania	192	38	154	1	2	8	27	37	22	3
UNIVERSITY OF DELAWARE	Delaware	192	40	152	1	3	15	31	33	17	1
BUCKNELL UNIVERSITY	Pennsylvania	188	52	136	0	3	11	20	36	28	3
All Other Institutions		16,557	4,461	12,096	2	8	22	29	23	14	2
Total		29,618	8,412	21,206	2	8	25	30	22	12	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	5,719	430,404	22.9	22.4	7.9	7.7	22.6	22.0
African Am./Black	396	38,583	16.8	17.5	6.9	6.8	17.1	17.6
Am. Indian/Alaskan Native	12	2,803	18.9	19.8	7.5	7.1	19.2	19.6
Caucasian Am./White	4,019	269,428	23.3	23.4	8.0	7.8	23.0	22.8
Hispanic	105	33,207	22.5	18.9	7.7	7.4	22.0	19.1
Asian Am./Pacific Islander	161	21,275	23.9	23.0	8.4	8.0	23.7	22.8
Other/No Response	1,026	65,108	23.8	22.8	8.1	7.9	23.4	22.5
Males	2,141	170,904	22.4	22.1	7.7	7.4	22.0	21.5
Females	3,253	240,056	23.3	22.6	8.1	7.9	23.0	22.3
Missing	325	19,444	22.7	22.1	8.0	7.8	22.5	21.9

