

ACT High School Profile Report

The Graduating Class of 2006
Iowa



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Iowa

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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

27% 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. 22,233 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. 63% 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, 15% were college ready. 21% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 23% of these students were college ready. In comparison, 65% 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 13% of the cohort took less than three years of natural science courses. 17% 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 2.4 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 36% 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.

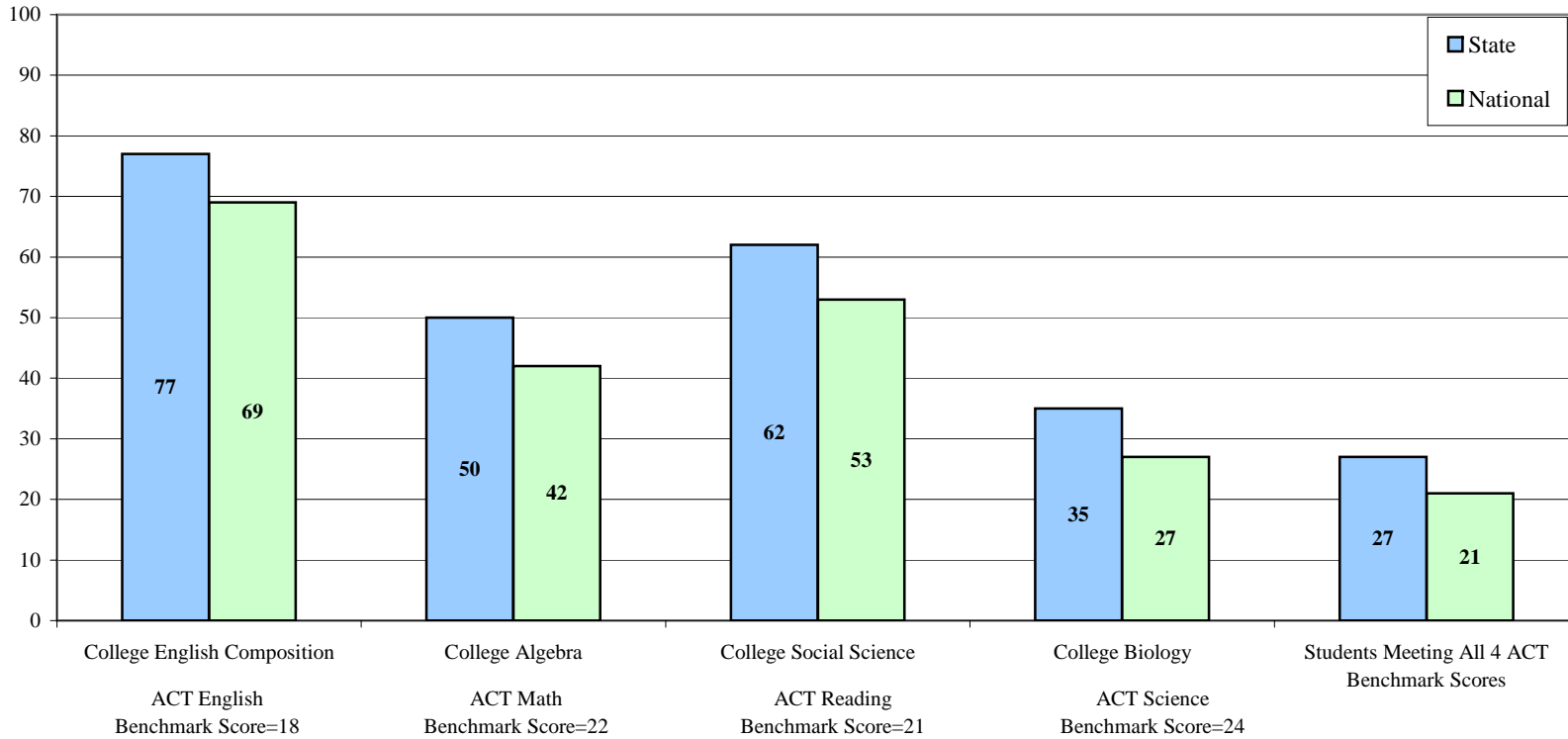
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS. Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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 847-634-2560.

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	23,805	1,116,082	75	67	48	39	62	53	34	26	26	20
2003	24,200	1,175,059	77	67	48	40	61	52	34	26	26	20
2004	23,591	1,171,460	77	68	49	40	60	52	34	26	27	21
2005	22,545	1,186,251	77	68	48	41	59	51	34	26	26	21
2006	22,233	1,206,455	77	69	50	42	62	53	35	27	27	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	23,805	1,116,082	21.2	20.2	21.7	20.6	22.4	21.1	22.1	20.8	22.0	20.8
2003	24,200	1,175,059	21.3	20.3	21.6	20.6	22.4	21.2	22.1	20.8	22.0	20.8
2004	23,591	1,171,460	21.4	20.4	21.8	20.7	22.4	21.3	22.1	20.9	22.0	20.9
2005	22,545	1,186,251	21.5	20.4	21.7	20.7	22.4	21.3	22.1	20.9	22.0	20.9
2006	22,233	1,206,455	21.6	20.6	21.8	20.8	22.5	21.4	22.1	20.9	22.1	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	15,713	7,295	66	31	22.3	19.0	22.7	19.5	23.3	20.4	22.9	20.4	22.9	19.9
2003	15,880	7,267	66	30	22.3	19.2	22.6	19.5	23.3	20.5	22.9	20.5	22.9	20.0
2004	15,522	7,008	66	30	22.3	19.4	22.7	19.7	23.2	20.6	22.8	20.5	22.9	20.2
2005	14,799	6,565	66	29	22.4	19.5	22.6	19.7	23.2	20.6	22.8	20.6	22.9	20.2
2006	14,034	6,549	63	29	22.5	19.6	22.7	20.0	23.4	20.8	22.8	20.7	23.0	20.4

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	23,805	100	22.0	24,200	100	22.0	23,591	100	22.0	22,545	100	22.0	22,233	100	22.1
African American/Black	293	1	17.9	344	1	17.5	361	2	18.5	357	2	17.9	338	2	18.3
American Indian/Alaskan Native	63	0	20.5	83	0	19.6	76	0	19.1	69	0	19.9	80	0	20.5
Caucasian American/White	21,417	90	22.0	21,695	90	22.1	21,122	90	22.1	20,100	89	22.2	19,379	87	22.3
Hispanic	317	1	19.7	360	1	19.8	372	2	19.4	393	2	20.0	373	2	19.8
Asian American/Pacific Islander	478	2	22.0	468	2	21.7	448	2	22.1	411	2	21.9	457	2	22.2
Other/No Response	1,237	5	22.4	1,250	5	22.1	1,212	5	22.2	1,215	5	22.1	1,606	7	22.0

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	40	100	41	100	129	100	48	100	3	100	36
35	139	100	76	100	221	99	112	100	37	100	35
34	286	99	161	99	398	98	123	99	83	100	34
33	223	98	134	99	396	97	139	99	122	99	33
32	263	97	152	98	405	95	221	98	248	99	32
31	329	96	263	97	554	93	275	97	326	98	31
30	503	94	418	96	655	91	114	96	479	96	30
29	659	92	615	94	817	88	401	95	561	94	29
28	780	89	714	92	815	84	651	94	825	92	28
27	673	86	1,152	88	1,168	80	707	91	957	88	27
26	1,077	82	1,341	83	1,246	75	1,699	87	1,203	84	26
25	1,404	78	1,491	77	1,235	69	1,255	80	1,537	78	25
24	1,263	71	1,674	71	1,278	64	2,053	74	1,685	71	24
23	1,383	66	1,473	63	1,603	58	2,074	65	1,841	64	23
22	1,593	59	1,335	56	1,422	51	2,053	56	1,894	55	22
21	1,842	52	1,504	50	1,436	44	2,265	46	2,055	47	21
20	1,939	44	1,539	44	1,319	38	2,205	36	1,970	38	20
19	1,579	35	1,577	37	1,499	32	1,940	26	1,678	29	19
18	1,243	28	1,686	30	962	25	1,388	18	1,523	21	18
17	1,089	23	1,870	22	1,192	21	910	11	1,157	14	17
16	1,096	18	1,533	14	939	16	549	7	875	9	16
15	1,002	13	879	7	717	11	374	5	583	5	15
14	697	8	430	3	804	8	241	3	327	3	14
13	308	5	125	1	485	5	181	2	168	1	13
12	266	4	35	1	326	2	116	1	68	1	12
11	208	3	13	1	143	1	75	1	23	1	11
10	161	2	2	1	40	1	34	1	4	1	10
9	91	1	0	1	16	1	21	1	1	1	9
8	71	1	0	1	10	1	6	1	0	1	8
7	23	1	0	1	0	1	1	1	0	1	7
6	3	1	0	1	1	1	2	1	0	1	6
5	0	1	0	1	2	1	0	1	0	1	5
4	0	1	0	1	0	1	0	1	0	1	4
3	0	1	0	1	0	1	0	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	21.6		21.8		22.5		22.1		22.1		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	567	100	152	100	344	100	682	100	622	100	163	100	160	100	18
17	886	97	498	99	1,359	98	1,123	97	762	97	272	99	236	99	17
16	946	93	951	97	1,242	92	1,507	92	1,691	94	384	98	595	98	16
15	1,214	89	1,568	93	1,544	87	1,801	85	1,428	86	825	96	1,253	96	15
14	1,728	84	1,915	86	1,587	80	1,805	77	1,632	80	2,067	93	2,114	90	14
13	1,388	76	2,105	77	2,181	73	1,996	69	2,579	72	1,586	83	2,758	80	13
12	2,226	70	2,466	68	2,660	63	2,448	60	2,986	61	3,695	76	2,786	68	12
11	2,335	60	3,294	57	2,504	51	2,034	49	1,916	47	2,654	60	2,575	55	11
10	2,838	49	2,954	42	2,022	40	2,123	40	2,226	39	3,879	48	4,159	44	10
9	2,283	36	2,686	28	2,421	31	1,956	30	1,837	29	3,390	30	2,049	25	9
8	1,988	26	1,631	16	1,988	20	1,422	21	2,303	20	1,495	15	1,444	16	8
7	1,568	17	925	9	1,079	11	1,260	15	1,545	10	466	8	1,035	9	7
6	1,126	10	537	5	768	6	1,139	9	517	3	628	6	544	5	6
5	565	5	372	2	303	2	617	4	133	1	475	3	117	2	5
4	411	3	134	1	118	1	236	1	33	1	96	1	267	2	4
3	123	1	40	1	91	1	68	1	16	1	125	1	45	1	3
2	38	1	5	1	15	1	15	1	5	1	7	1	77	1	2
1	3	1	0	1	7	1	1	1	2	1	26	1	19	1	1
Average	10.8		11.2		11.5		11.5		11.6		10.8		11.1		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	22,233	63	23.0	20.4
	African Am./Black	338	56	19.4	17.0
	Am. Indian/Alaskan Native	80	59	21.3	19.1
	Caucasian Am./White	19,379	64	23.1	20.5
	Hispanic	373	56	21.0	18.2
	Asian Am./Pacific Islander	457	67	22.7	20.8
	Other/No Response	1,606	51	23.0	20.2
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	688	3	412	2	1,144	5	422	2
	28 to 32	2,534	11	2,162	10	3,246	15	1,662	7
	24 to 27	4,417	20	5,658	25	4,927	22	5,714	26
	20 to 23	6,757	30	5,851	26	5,780	26	8,597	39
	16 to 19	5,007	23	6,666	30	4,592	21	4,787	22
	13 to 15	2,007	9	1,434	6	2,006	9	796	4
	01 to 12	823	4	50	0	538	2	255	1
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	10,047	45	21.0	22.6	22.2	22.8	22.3
	Females	11,796	53	22.1	21.1	22.9	21.6	22.1
	Missing	390	2	20.4	20.7	21.3	21.0	21.0
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	74	56	59	41	31
	Females	80	45	65	30	24
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

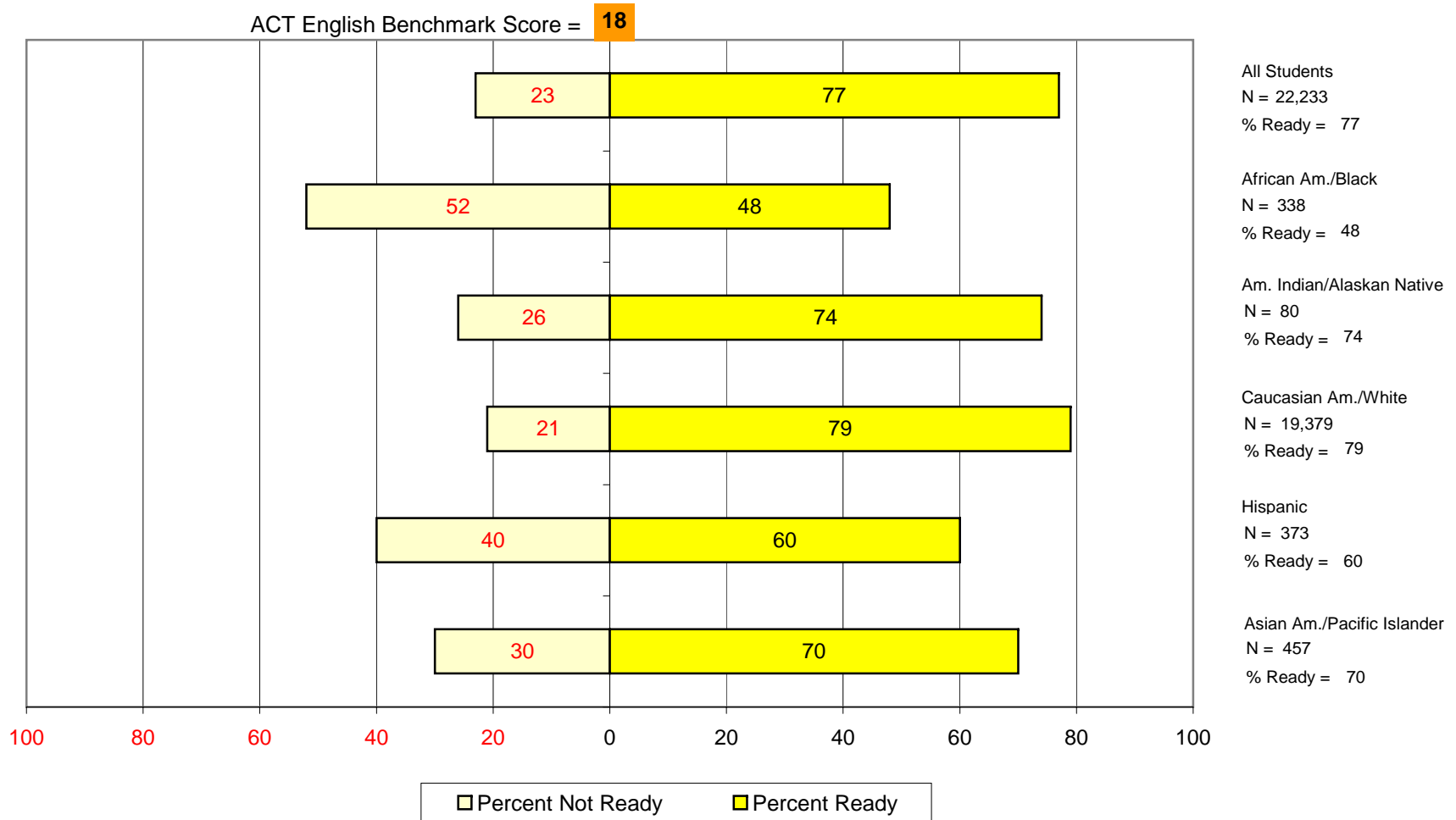


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

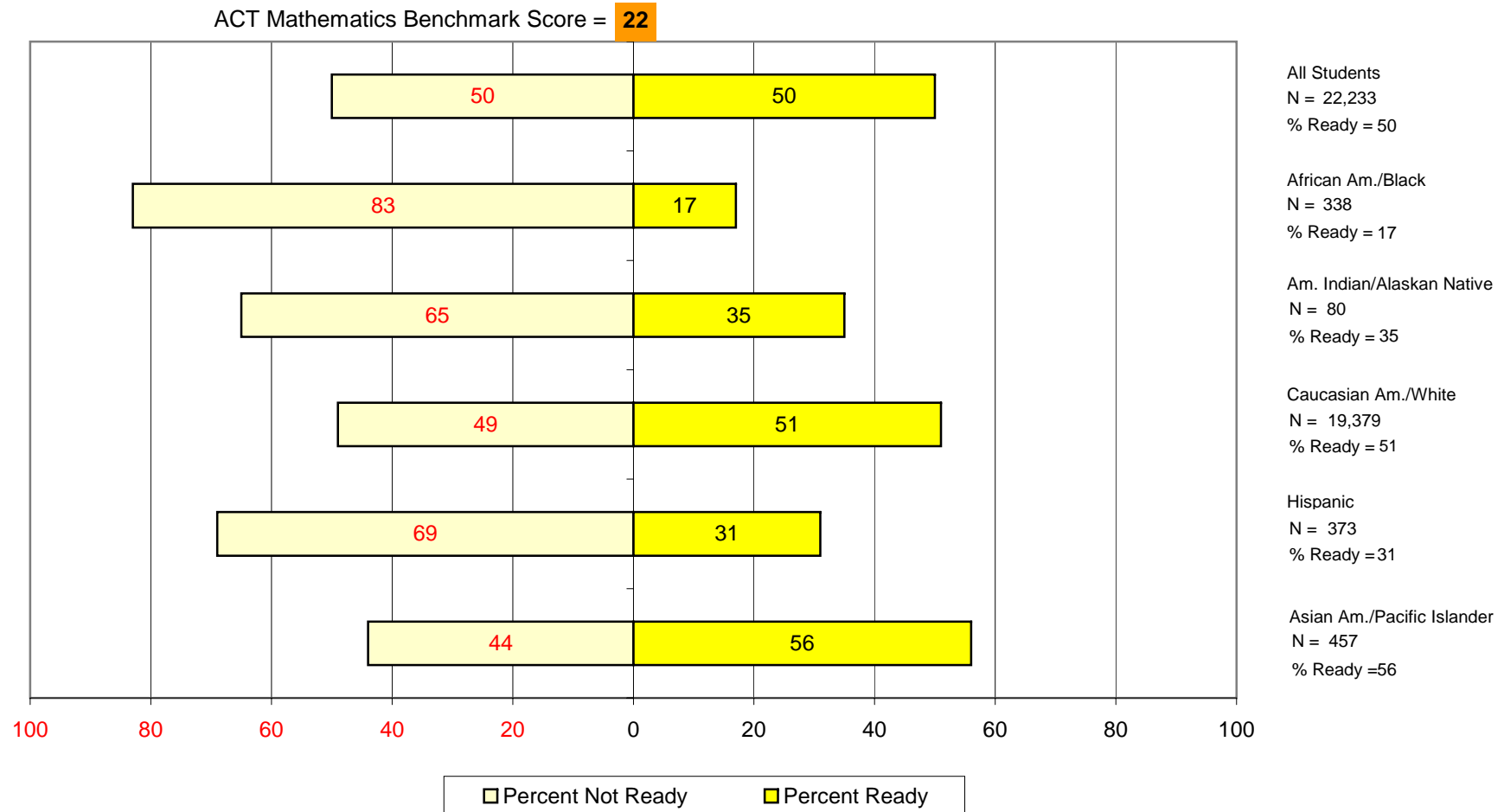


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

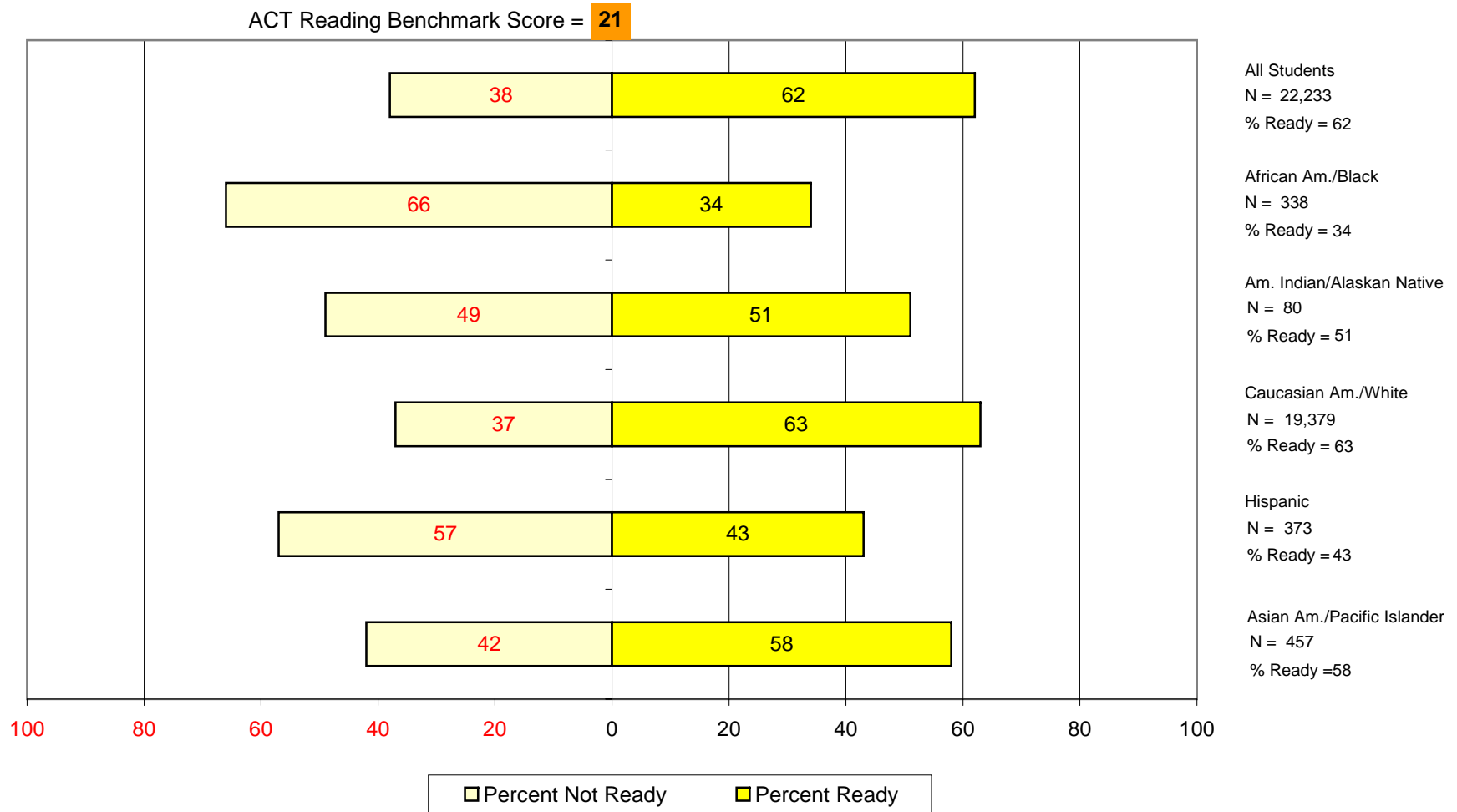


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

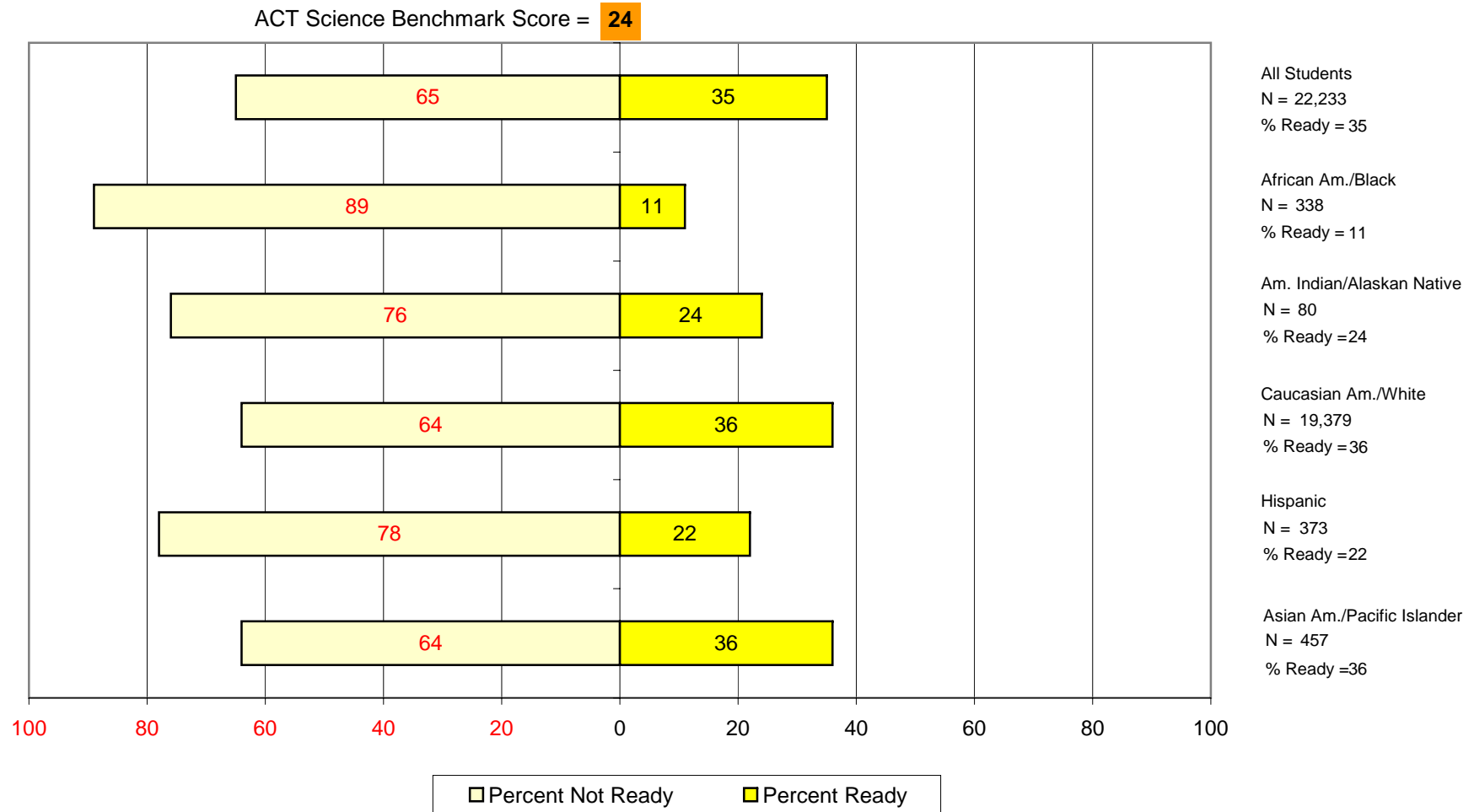


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR

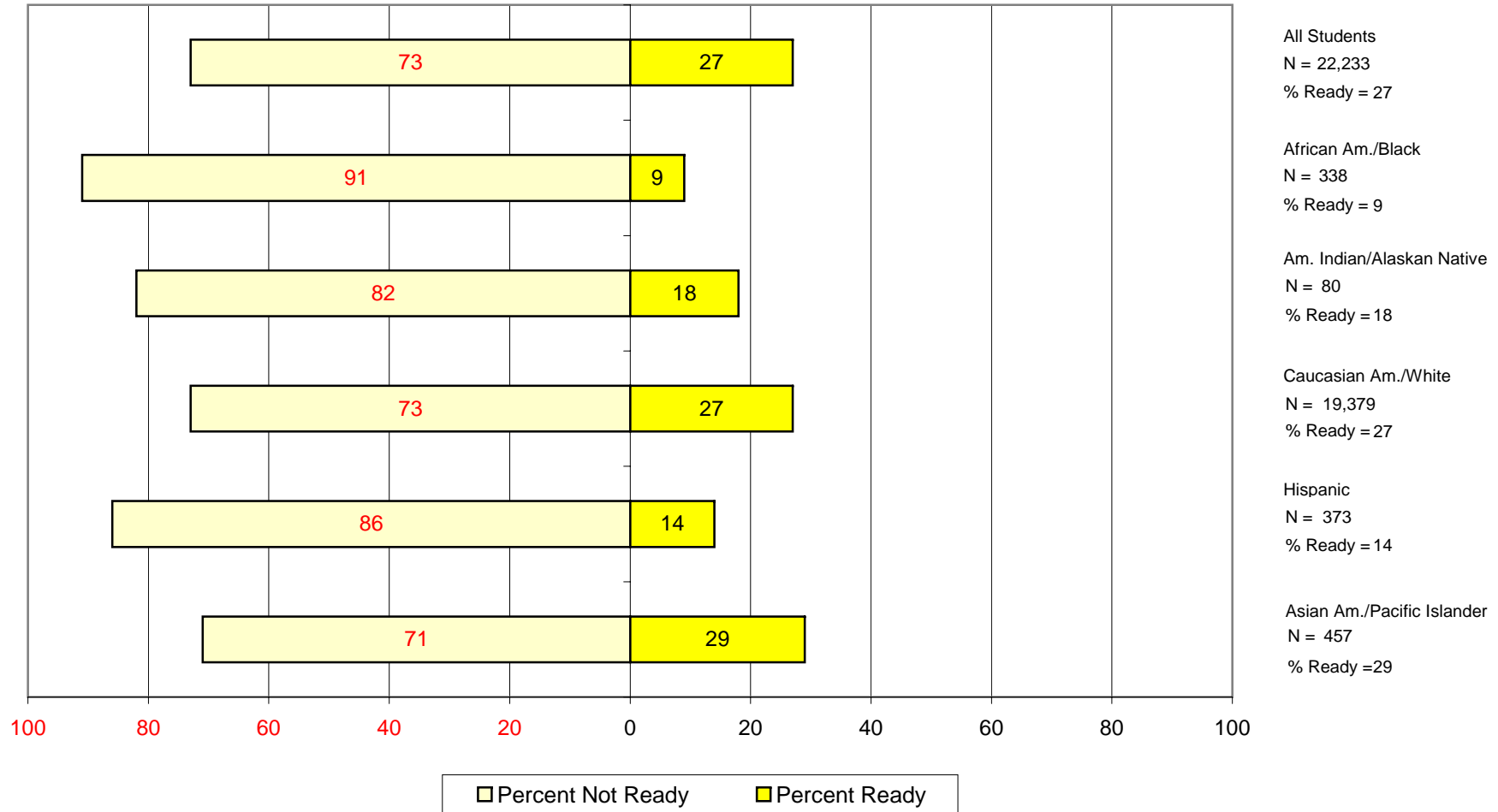


Table 3.1. Average ACT Scores and ACT Average Score Changes by Common Course Patterns

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	10,905	49	22.4	2.6	4,548	45	21.9	2.4	6,258	53	22.7	2.6
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	6,801	31	21.1	1.3	3,176	32	20.6	1.1	3,512	30	21.6	1.5
Less than 4 years of English	2,814	13	19.8	-	1,436	14	19.5	-	1,323	11	20.1	-
No English course/grade information reported	1,713	8	21.3	-	887	9	20.7	-	703	6	22.1	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	1,130	5	25.5	7.6	534	5	26.2	7.5	583	5	24.8	7.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,779	8	23.2	5.3	728	7	23.8	5.1	1,038	9	22.7	5.5
Alg 1, Alg 2, Geom, & Trig	1,760	8	21.9	4.0	781	8	22.4	3.7	960	8	21.4	4.2
Alg 1, Alg 2, Geom, & Other Adv Math	3,055	14	21.7	3.8	1,223	12	22.4	3.7	1,801	15	21.2	4.0
Other comb of 4 or more years of Math	4,703	21	25.0	7.1	2,408	24	25.7	7.0	2,247	19	24.3	7.1
Alg 1, Alg 2, & Geom (Min. Core)	4,760	21	19.2	1.3	1,967	20	19.9	1.2	2,715	23	18.7	1.5
Other comb of 3 or 3.5 years of Math	1,010	5	21.8	3.9	495	5	22.2	3.5	503	4	21.4	4.2
Less than 3 years of Math	2,246	10	17.9	-	988	10	18.7	-	1,208	10	17.2	-
No Math course/grade information reported	1,790	8	21.4	-	923	9	21.8	-	741	6	20.8	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	515	2	22.5	1.1	280	3	22.0	0.8	229	2	23.2	1.6
Other comb of 4 or more years Social Science	9,562	43	23.0	1.6	4,095	41	22.7	1.5	5,350	45	23.3	1.7
US Hist, World Hist, & Am Gov (Min. Core)	1,305	6	21.7	0.3	693	7	21.4	0.2	594	5	22.1	0.5
Other comb of 3 or 3.5 years of Social Science	7,027	32	22.4	1.0	3,106	31	21.9	0.7	3,841	33	22.7	1.1
Less than 3 years of Social Science	2,053	9	21.4	-	957	10	21.2	-	1,052	9	21.6	-
No Soc Sci course/grade information reported	1,771	8	22.4	-	916	9	22.1	-	730	6	22.9	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	7,645	34	23.5	3.7	3,783	38	24.3	4.2	3,779	32	22.8	3.2
Bio, Chem, Phys	1,296	6	24.4	4.6	646	6	25.3	5.2	639	5	23.7	4.1
Gen Sci ² , Bio, Chem (Min. Core)	7,768	35	21.3	1.5	2,902	29	21.7	1.6	4,762	40	21.1	1.5
Other comb of 3 years of Natural Science	744	3	22.1	2.3	455	5	22.5	2.4	281	2	21.4	1.8
Less than 3 years of Natural Science	2,959	13	19.8	-	1,321	13	20.1	-	1,581	13	19.6	-
No Nat Sci course/grade information reported	1,821	8	21.8	-	940	9	22.3	-	754	6	21.3	-

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	10,905	49	22.4	82	272,554	23	21.8	77
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	6,801	31	21.1	75	668,226	55	20.4	67
Less than 4 years of English	2,814	13	19.8	67	115,551	10	19.4	62
No English course/grade information reported	1,713	8	21.3	76	150,124	12	20.3	67
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	1,130	5	25.5	83	67,960	6	24.7	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	1,779	8	23.2	66	90,348	7	22.2	56
Alg 1, Alg 2, Geom, & Trig	1,760	8	21.9	53	95,613	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	3,055	14	21.7	51	153,394	13	20.3	37
Other comb of 4 or more years of Math	4,703	21	25.0	78	244,137	20	24.0	68
Alg 1, Alg 2, & Geom (Min. Core)	4,760	21	19.2	23	209,836	17	17.8	14
Other comb of 3 or 3.5 years of Math	1,010	5	21.8	50	54,965	5	20.6	40
Less than 3 years of Math	2,246	10	17.9	15	131,567	11	17.9	18
No Math course/grade information reported	1,790	8	21.4	46	158,635	13	20.8	42
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	515	2	22.5	61	31,335	3	22.7	60
Other comb of 4 or more years Social Science	9,562	43	23.0	65	443,622	37	21.9	57
US Hist, World Hist, & Am Gov (Min. Core)	1,305	6	21.7	56	67,943	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	7,027	32	22.4	61	325,879	27	21.3	52
Less than 3 years of Social Science	2,053	9	21.4	54	179,270	15	20.5	46
No Soc Sci course/grade information reported	1,771	8	22.4	61	158,406	13	21.2	52
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	7,645	34	23.5	48	320,821	27	22.3	38
Bio, Chem, Phys	1,296	6	24.4	57	115,519	10	23.2	45
Gen Sci ¹ , Bio, Chem (Min. Core)	7,768	35	21.3	26	339,689	28	20.2	19
Other comb of 3 years of Natural Science	744	3	22.1	34	32,330	3	20.5	24
Less than 3 years of Natural Science	2,959	13	19.8	17	234,307	19	19.1	14
No Nat Sci course/grade information reported	1,821	8	21.8	31	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	514	2	20.2	88	6	18.3	400	2	20.6
Architecture & Environmental Design	484	2	21.8	34	2	18.3	431	2	22.2
Business & Management	1,880	8	21.7	110	8	18.7	1,695	10	22.0
Business & Office	175	1	20.5	28	2	18.4	136	1	20.9
Marketing & Distribution	137	1	20.4	8	1	17.9	121	1	20.6
Communications & Comm. Technologies	539	2	22.2	15	1	17.8	502	3	22.4
Community & Personal Services	547	2	19.9	97	7	18.5	409	2	20.3
Computer & Information Sciences	425	2	22.7	46	3	20.2	364	2	23.1
Cross-Disciplinary Studies	25	0	23.2	0	0	.	24	0	23.1
Education	967	4	21.3	22	2	18.7	906	5	21.4
Teacher Education	584	3	21.3	23	2	17.8	537	3	21.5
Engineering	814	4	24.3	26	2	17.7	752	4	24.6
Engineering-Related Technologies	395	2	23.2	41	3	18.1	341	2	23.9
Foreign Languages	107	0	24.5	3	0	20.3	99	1	24.6
Health Sciences & Allied Health Fields	3,408	15	21.9	266	18	18.7	3,003	17	22.3
Human, Family & Consumer Science	231	1	20.4	36	2	18.0	187	1	20.8
Letters	133	1	24.5	4	0	21.0	124	1	24.7
Mathematics	96	0	25.9	0	0	.	93	1	26.1
Philosophy, Religion & Theology	135	1	22.5	8	1	18.0	120	1	22.9
Sciences (Biological & Physical)	890	4	24.0	12	1	18.2	849	5	24.2
Social Sciences	1,189	5	23.2	11	1	18.5	1,141	6	23.2
Trade & Industrial	309	1	20.0	156	11	19.4	143	1	20.7
Visual & Performing Arts	1,051	5	22.1	80	5	18.9	901	5	22.5
Undecided	2,766	12	22.1	192	13	18.0	2,380	13	22.6
No Response	4,432	20	22.2	156	11	18.6	2,083	12	22.5

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	207	19.0	1	12.0	0	.	183	19.1	3	16.0	4	16.3	16	19.1
2-yr College Degree	1,255	18.5	14	16.1	3	16.7	1,138	18.6	18	17.0	14	18.1	68	18.5
Bachelors Degree	9,524	21.5	113	17.4	34	19.7	8,561	21.6	128	19.5	133	20.5	555	21.1
Graduate Study	3,514	23.6	64	19.5	9	22.2	3,096	23.8	59	21.7	71	22.8	215	23.3
Prof. Level Degree	4,703	23.7	101	19.2	25	22.0	3,954	24.0	115	20.1	167	23.9	341	23.6
Other	606	19.7	12	15.5	1	14.0	524	19.9	9	16.0	13	17.3	47	20.0
No Response	2,424	22.2	33	18.7	8	19.1	1,923	22.4	41	19.8	55	23.0	364	22.2

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
UNIVERSITY OF IOWA	Iowa	8,422	3,283	5,139	0	2	18	37	29	12	1
IOWA STATE UNIVERSITY	Iowa	7,829	3,127	4,702	0	3	19	36	29	12	1
UNIVERSITY OF NORTHERN IOWA	Iowa	6,647	1,728	4,919	0	3	23	40	26	9	0
KIRKWOOD COMMUNITY COLLEGE	Iowa	2,290	697	1,593	0	9	38	37	14	2	0
CENTRAL COLLEGE	Iowa	1,437	408	1,029	0	4	20	37	28	10	1
DRAKE UNIVERSITY	Iowa	1,410	296	1,114	0	2	14	34	32	17	1
WARTBURG COLLEGE	Iowa	1,369	239	1,130	0	3	21	35	28	11	1
SIMPSON COLLEGE	Iowa	1,340	281	1,059	1	4	20	40	26	9	0
DES MOINES AREA COMMUNITY COLL-ANKENY	Iowa	1,079	420	659	1	10	38	36	14	3	0
BUENA VISTA UNIVERSITY	Iowa	841	189	652	0	4	26	39	22	8	0
HAWKEYE COMMUNITY COLLEGE	Iowa	839	268	571	1	8	41	35	13	1	0
LUTHER COLLEGE	Iowa	833	172	661	0	2	12	32	33	19	2
COE COLLEGE	Iowa	745	165	580	0	3	22	37	28	9	1
ST AMBROSE UNIVERSITY	Iowa	679	164	515	0	3	27	37	24	8	0
IOWA CENTRAL COMMUNITY COLL-FORT DODGE	Iowa	599	206	393	1	10	40	37	10	2	0
LORAS COLLEGE	Iowa	571	132	439	0	4	23	41	24	8	0
MORNINGSIDE COLLEGE	Iowa	538	135	403	1	6	29	35	23	6	0
NORTHWESTERN COLLEGE	Iowa	535	144	391	0	3	18	37	29	13	1
GRAND VIEW COLLEGE	Iowa	528	104	424	2	7	35	36	16	4	0
NORTHWEST MISSOURI ST UNIV	Missouri	517	150	367	1	5	29	41	19	5	0
NORTH IOWA AREA COMMUNITY COLL	Iowa	513	215	298	1	7	35	38	17	2	0
CREIGHTON UNIVERSITY	Nebraska	510	120	390	0	1	9	28	39	22	2
IOWA WESTERN COMM C-COUNCIL BLFS	Iowa	480	204	276	1	14	37	32	14	3	0
INDIAN HILLS COMMUNITY COLL-OTTUMWA	Iowa	475	175	300	1	10	38	32	15	5	0
MOUNT MERCY COLLEGE	Iowa	466	95	371	0	5	27	42	22	4	0
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	437	105	332	0	3	14	39	29	14	1
AIB COLLEGE OF BUSINESS	Iowa	388	131	257	0	6	36	40	15	3	0
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	379	94	285	0	3	22	40	25	10	0
UNIVERSITY OF SOUTH DAKOTA	South Dakota	374	86	288	0	5	24	39	26	7	0
UPPER IOWA UNIVERSITY	Iowa	369	73	296	1	8	32	39	16	4	0
All Other Institutions		21,699	5,196	16,503	1	5	22	32	25	15	2
Total		65,138	18,802	46,336	0	4	23	35	25	11	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	4,545	430,404	24.2	22.4	7.9	7.7	23.4	22.0
African Am./Black	70	38,583	19.4	17.5	6.8	6.8	19.0	17.6
Am. Indian/Alaskan Native	18	2,803	21.8	19.8	7.4	7.1	21.2	19.6
Caucasian Am./White	3,841	269,428	24.3	23.4	7.9	7.8	23.6	22.8
Hispanic	75	33,207	20.1	18.9	7.1	7.4	19.7	19.1
Asian Am./Pacific Islander	126	21,275	25.1	23.0	8.0	8.0	24.2	22.8
Other/No Response	415	65,108	23.9	22.8	7.7	7.9	23.1	22.5
Males	1,851	170,904	23.8	22.1	7.6	7.4	23.0	21.5
Females	2,609	240,056	24.5	22.6	8.0	7.9	23.8	22.3
Missing	85	19,444	22.0	22.1	7.5	7.8	21.5	21.9

