

# ACT High School Profile Report

The Graduating Class of 2006  
North Dakota





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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](http://www.act.org)

## How to Improve Scores and Increase College Readiness

23% 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.** 6,335 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. 56% 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 18% of the cohort took less than three years of math courses. Of these students, 16% were college ready. 25% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 26% of these students were college ready. In comparison, 69% 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 23% of the cohort took less than three years of natural science courses. 12% of these students were college ready. In comparison, 36% 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 40% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

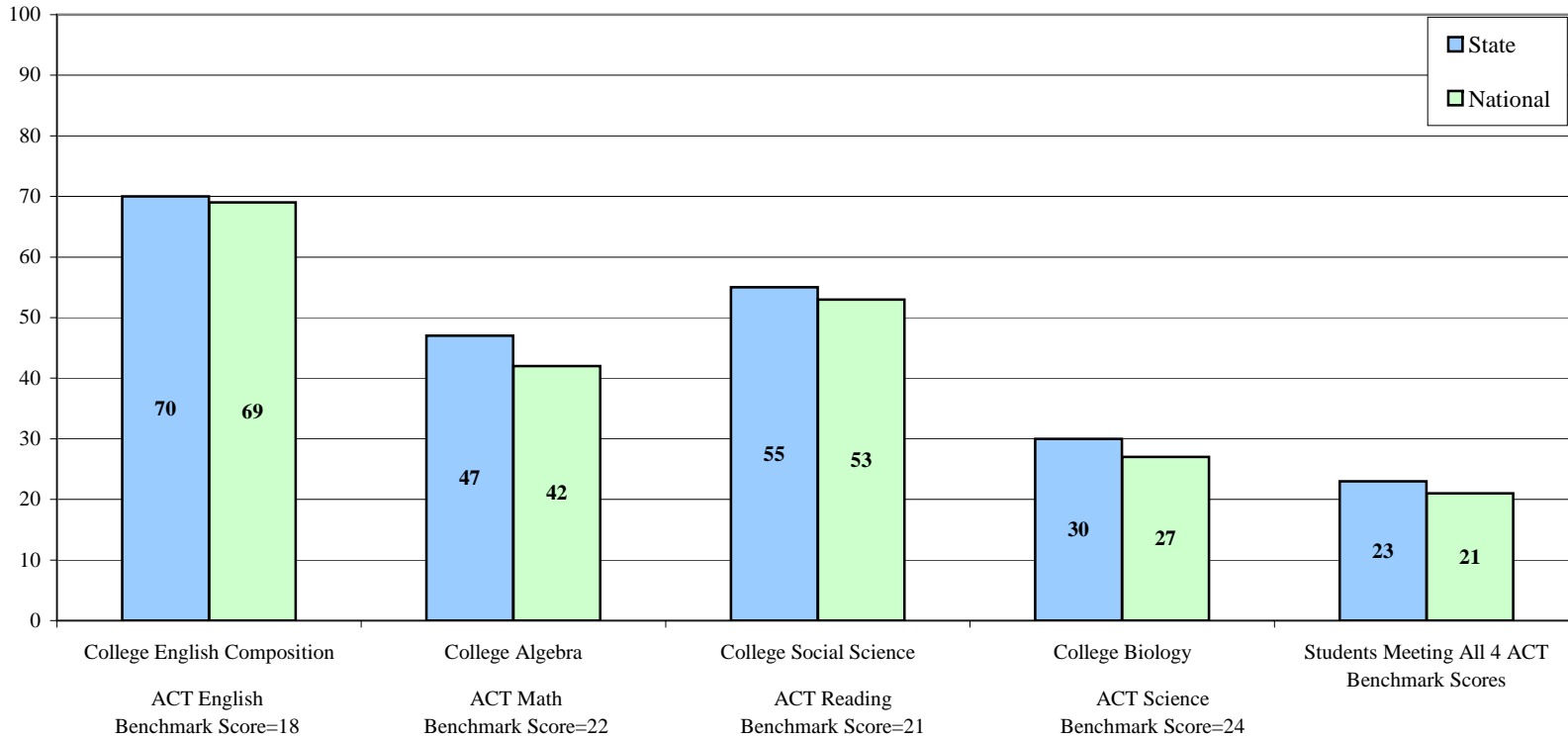
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS.** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic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

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 916-631-9200.

# 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	6,947	1,116,082	67	67	45	39	56	53	29	26	23	20
2003	7,098	1,175,059	69	67	45	40	54	52	30	26	23	20
2004	6,730	1,171,460	68	68	45	40	53	52	30	26	22	21
2005	6,562	1,186,251	69	68	45	41	52	51	29	26	23	21
<b>2006</b>	<b>6,335</b>	<b>1,206,455</b>	<b>70</b>	<b>69</b>	<b>47</b>	<b>42</b>	<b>55</b>	<b>53</b>	<b>30</b>	<b>27</b>	<b>23</b>	<b>21</b>

**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	6,947	1,116,082	20.1	20.2	21.2	20.6	21.5	21.1	21.5	20.8	21.2	20.8
2003	7,098	1,175,059	20.3	20.3	21.2	20.6	21.6	21.2	21.6	20.8	21.3	20.8
2004	6,730	1,171,460	20.2	20.4	21.3	20.7	21.5	21.3	21.4	20.9	21.2	20.9
2005	6,562	1,186,251	20.4	20.4	21.2	20.7	21.4	21.3	21.5	20.9	21.3	20.9
<b>2006</b>	<b>6,335</b>	<b>1,206,455</b>	<b>20.5</b>	<b>20.6</b>	<b>21.4</b>	<b>20.8</b>	<b>21.6</b>	<b>21.4</b>	<b>21.5</b>	<b>20.9</b>	<b>21.4</b>	<b>21.1</b>

**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
<b>2006</b>	<b>1,206,455</b>	<b>20.6</b>	<b>20.8</b>	<b>21.4</b>	<b>20.9</b>	<b>21.1</b>

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

Grad Year	Number of Students Tested		Percent <sup>1</sup>		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	4,219	2,530	61	36	21.7	17.6	22.9	18.6	22.9	19.2	22.7	19.6	22.7	18.9
2003	4,221	2,616	59	37	22.0	17.7	22.9	18.7	23.0	19.4	22.8	19.6	22.8	19.0
2004	4,023	2,418	60	36	21.6	17.8	22.9	18.8	22.7	19.5	22.6	19.6	22.6	19.1
2005	3,814	2,385	58	36	22.0	17.9	22.7	18.9	22.7	19.4	22.8	19.7	22.7	19.1
<b>2006</b>	<b>3,562</b>	<b>2,335</b>	<b>56</b>	<b>37</b>	<b>21.9</b>	<b>18.3</b>	<b>22.8</b>	<b>19.3</b>	<b>22.9</b>	<b>19.7</b>	<b>22.7</b>	<b>19.9</b>	<b>22.7</b>	<b>19.4</b>

<sup>1</sup>Percent 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
<b>All Students</b>	<b>6,947</b>	<b>100</b>	<b>21.2</b>	<b>7,098</b>	<b>100</b>	<b>21.3</b>	<b>6,730</b>	<b>100</b>	<b>21.2</b>	<b>6,562</b>	<b>100</b>	<b>21.3</b>	<b>6,335</b>	<b>100</b>	<b>21.4</b>
African American/Black	32	0	19.6	26	0	18.1	24	0	17.6	33	1	17.6	33	1	19.6
American Indian/Alaskan Native	211	3	16.6	215	3	17.5	240	4	16.9	251	4	17.5	224	4	17.4
Caucasian American/White	6,375	92	21.4	6,486	91	21.5	6,059	90	21.4	5,854	89	21.5	5,544	88	21.5
Hispanic	40	1	19.6	58	1	20.1	63	1	19.0	52	1	19.1	45	1	20.2
Asian American/Pacific Islander	43	1	23.2	45	1	21.2	55	1	21.5	51	1	21.5	55	1	22.8
Other/No Response	246	4	20.4	268	4	20.5	289	4	21.1	321	5	21.0	434	7	21.3

# Section II

# Academic Achievement

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages for All Students**

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	
36	6	100	13	100	28	100	7	100	0	100	36
35	32	100	16	100	38	100	31	100	6	100	35
34	57	99	49	100	100	99	32	99	26	100	34
33	42	99	36	99	95	97	23	99	28	99	33
32	52	98	51	98	91	96	60	99	48	99	32
31	74	97	68	97	136	94	46	98	68	98	31
30	102	96	87	96	124	92	26	97	113	97	30
29	141	94	146	95	206	90	82	96	130	95	29
28	181	92	153	93	154	87	156	95	174	93	28
27	163	89	308	90	276	85	162	93	248	91	27
26	246	87	358	85	296	80	416	90	285	87	26
25	346	83	410	80	312	76	327	84	352	82	25
24	320	77	441	73	361	71	508	78	446	77	24
23	313	72	418	66	464	65	617	70	459	70	23
22	416	67	392	60	407	58	561	61	495	62	22
21	505	61	429	53	389	51	645	52	587	55	21
20	587	53	411	47	409	45	639	42	571	45	20
19	455	43	415	40	458	39	601	32	553	36	19
18	378	36	489	34	341	31	480	22	522	28	18
17	353	30	604	26	409	26	313	14	421	19	17
16	378	25	515	16	304	20	196	10	302	13	16
15	377	19	301	8	267	15	133	6	203	8	15
14	263	13	156	4	279	11	83	4	153	5	14
13	154	9	40	1	156	6	78	3	92	2	13
12	121	6	20	1	146	4	47	2	38	1	12
11	105	4	7	1	55	1	27	1	12	1	11
10	68	3	2	1	15	1	20	1	2	1	10
9	50	2	0	1	11	1	15	1	1	1	9
8	33	1	0	1	5	1	2	1	0	1	8
7	16	1	0	1	1	1	2	1	0	1	7
6	1	1	0	1	0	1	0	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	20.5		21.4		21.6		21.5		21.4		Average

<sup>1</sup>Note: 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 (CP<sup>1</sup>), 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 <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	N	CP <sup>1</sup>	
18	128	100	31	100	77	100	111	100	167	100	47	100	55	100	18
17	190	98	83	100	333	99	263	98	179	97	68	99	59	99	17
16	224	95	194	98	305	94	321	94	388	95	111	98	144	98	16
15	277	91	339	95	377	89	388	89	384	88	222	96	290	96	15
14	424	87	440	90	430	83	470	83	440	82	515	93	537	91	14
13	343	80	536	83	532	76	525	75	717	75	423	85	771	83	13
12	529	75	609	74	754	68	659	67	759	64	1,037	78	755	71	12
11	620	67	887	65	758	56	513	57	561	52	713	62	709	59	11
10	829	57	859	51	647	44	678	49	678	43	1,144	50	1,240	48	10
9	674	44	879	37	759	33	658	38	527	33	1,008	32	634	28	9
8	642	33	601	23	583	22	471	28	752	24	450	17	473	18	8
7	526	23	380	14	337	12	453	20	514	12	156	9	319	11	7
6	410	15	257	8	251	7	442	13	189	4	201	7	173	6	6
5	250	8	147	4	118	3	239	6	44	1	136	4	34	3	5
4	183	4	69	1	34	1	99	2	25	1	45	2	89	2	4
3	70	1	15	1	31	1	33	1	4	1	47	1	13	1	3
2	15	1	9	1	6	1	12	1	6	1	4	1	28	1	2
1	1	1	0	1	3	1	0	1	1	1	8	1	12	1	1
Average	10.2		10.6		11.1		10.8		11.3		10.7		10.9		Average

<sup>1</sup>Note: 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	6,335	56	22.7	19.4
	African Am./Black	33	55	21.7	17.3
	Am. Indian/Alaskan Native	224	35	20.2	15.8
	Caucasian Am./White	5,544	58	22.8	19.6
	Hispanic	45	49	21.7	18.8
	Asian Am./Pacific Islander	55	69	23.8	19.3
	Other/No Response	434	46	22.4	19.7
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	137	2	114	2	261	4	93	1
	28 to 32	550	9	505	8	711	11	370	6
	24 to 27	1,075	17	1,517	24	1,245	20	1,413	22
	20 to 23	1,821	29	1,650	26	1,669	26	2,462	39
	16 to 19	1,564	25	2,023	32	1,512	24	1,590	25
	13 to 15	794	13	497	8	702	11	294	5
	01 to 12	394	6	29	0	235	4	113	2
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	3,012	48	19.8	22.0	21.2	22.1	21.4
	Females	3,176	50	21.1	20.9	22.0	21.1	21.4
	Missing	147	2	19.9	20.4	21.2	21.0	20.7
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	65	51	52	35	26
	Females	74	42	58	25	20
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

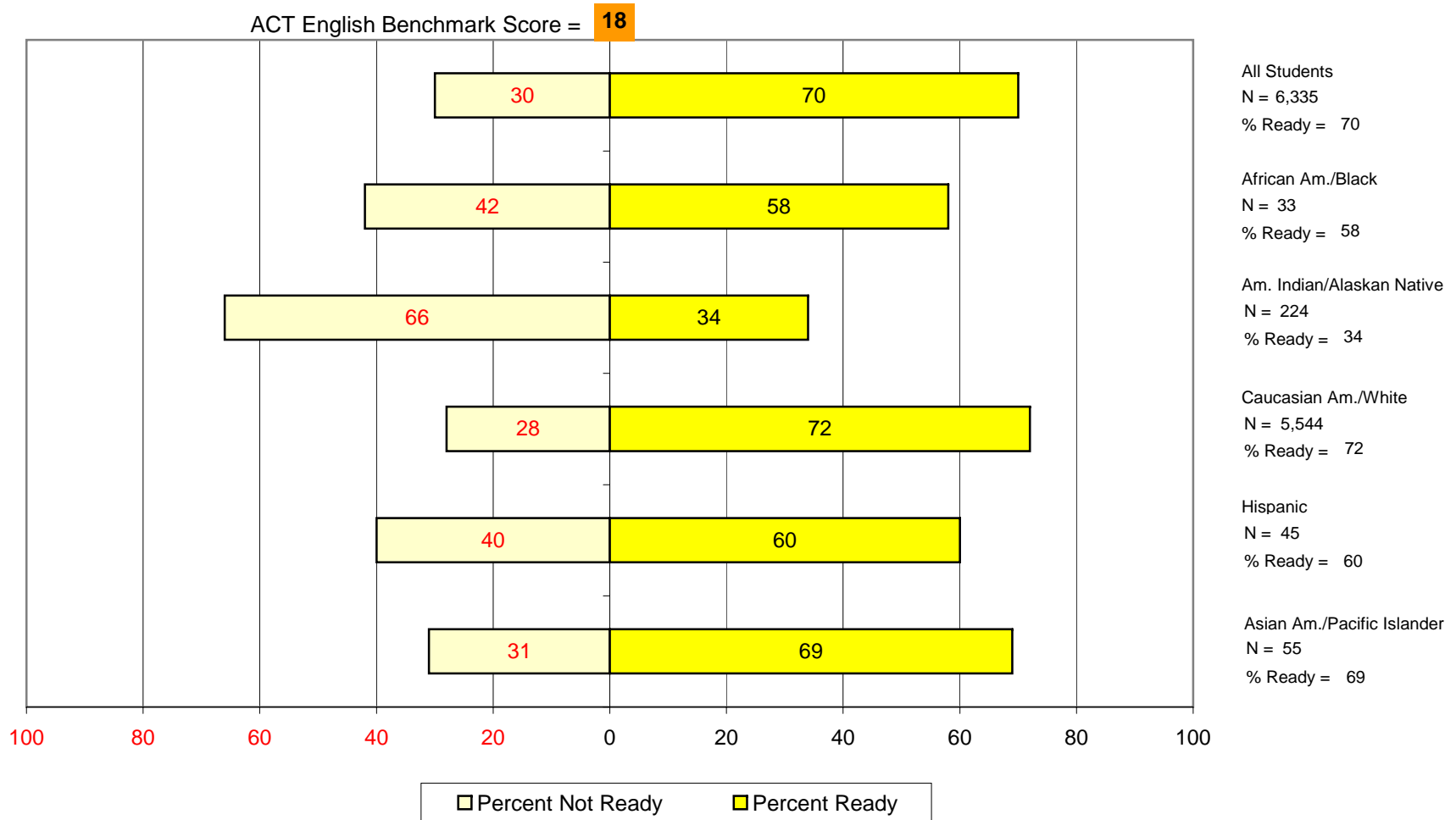


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

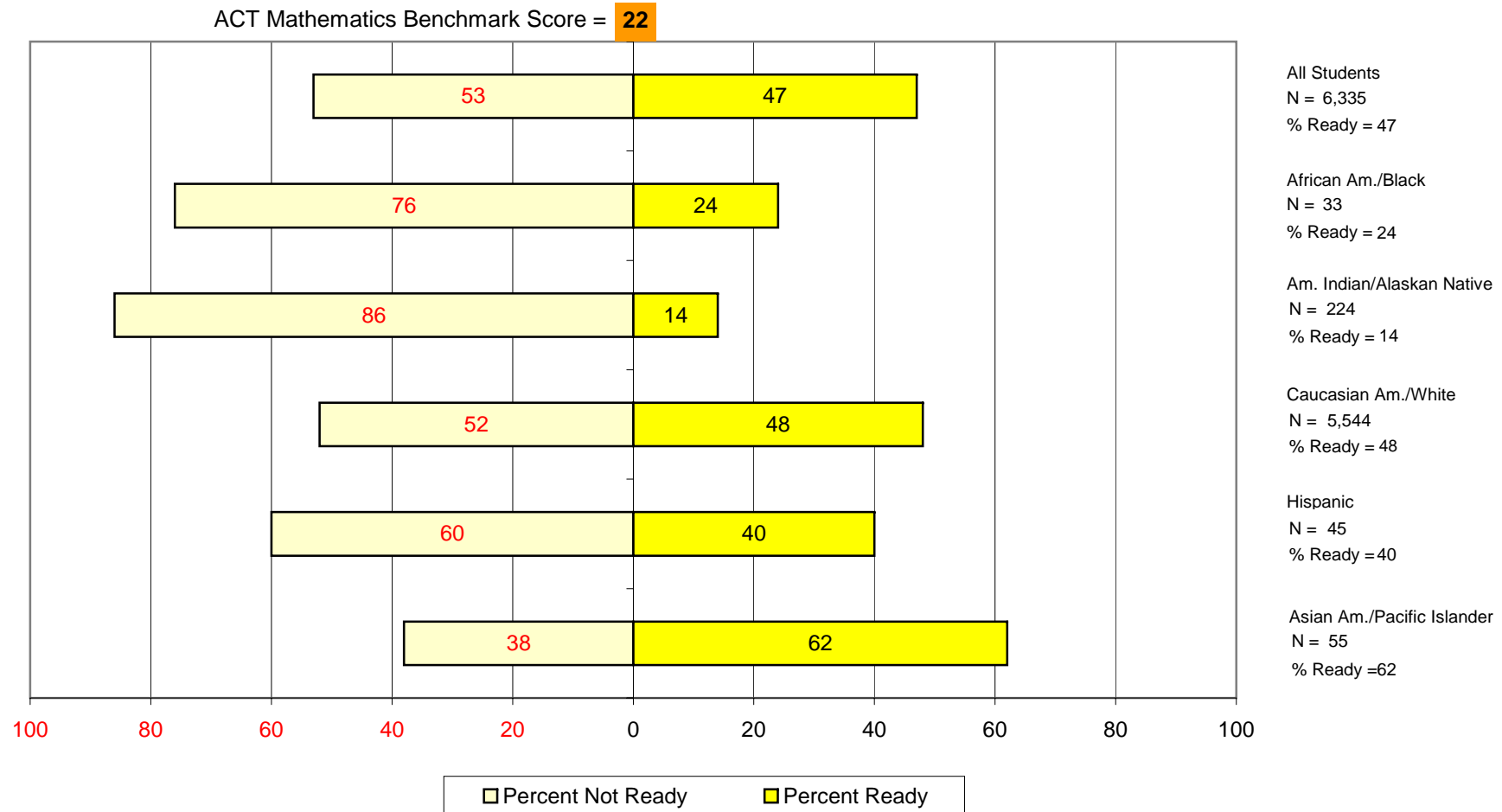


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: **READING**

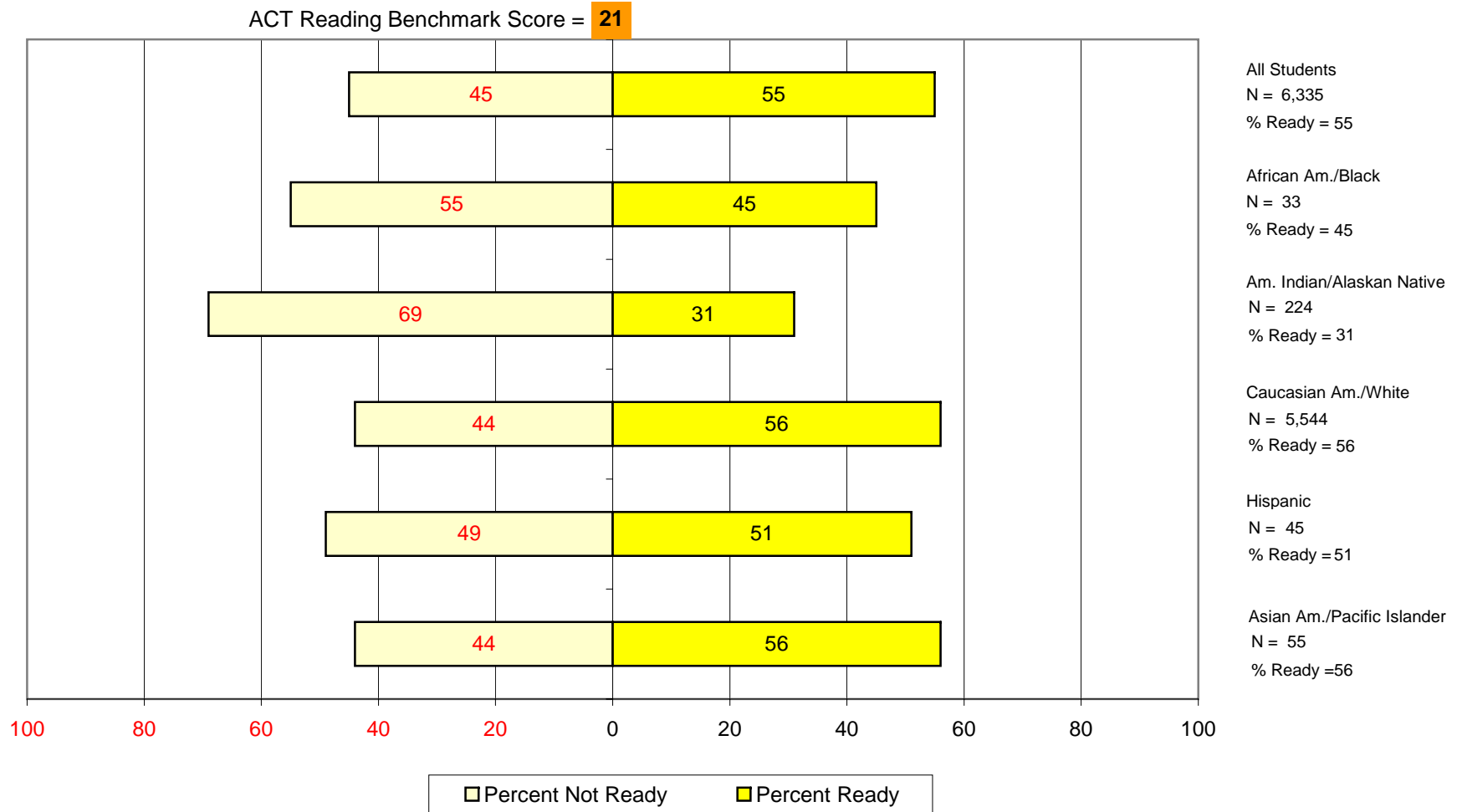


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

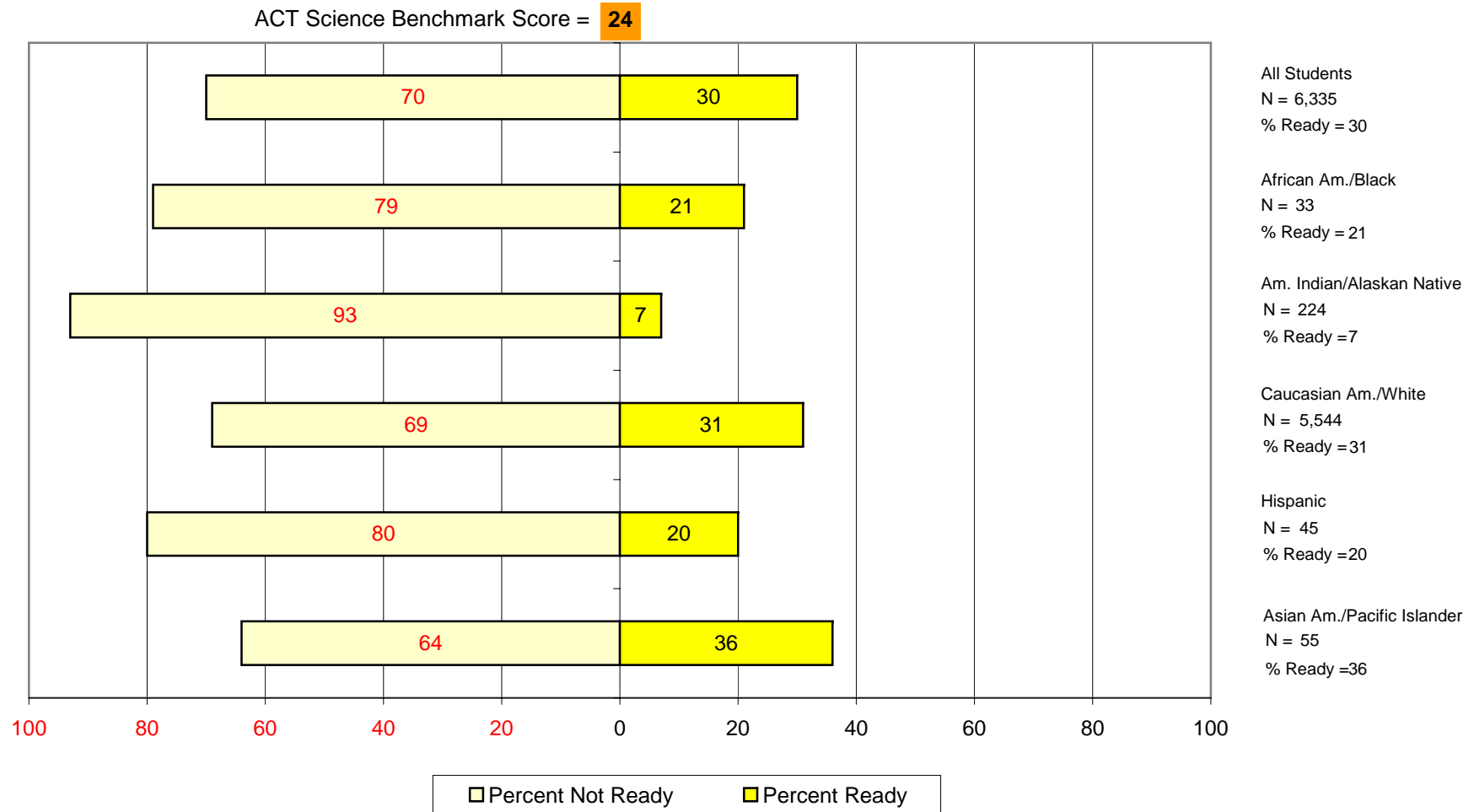
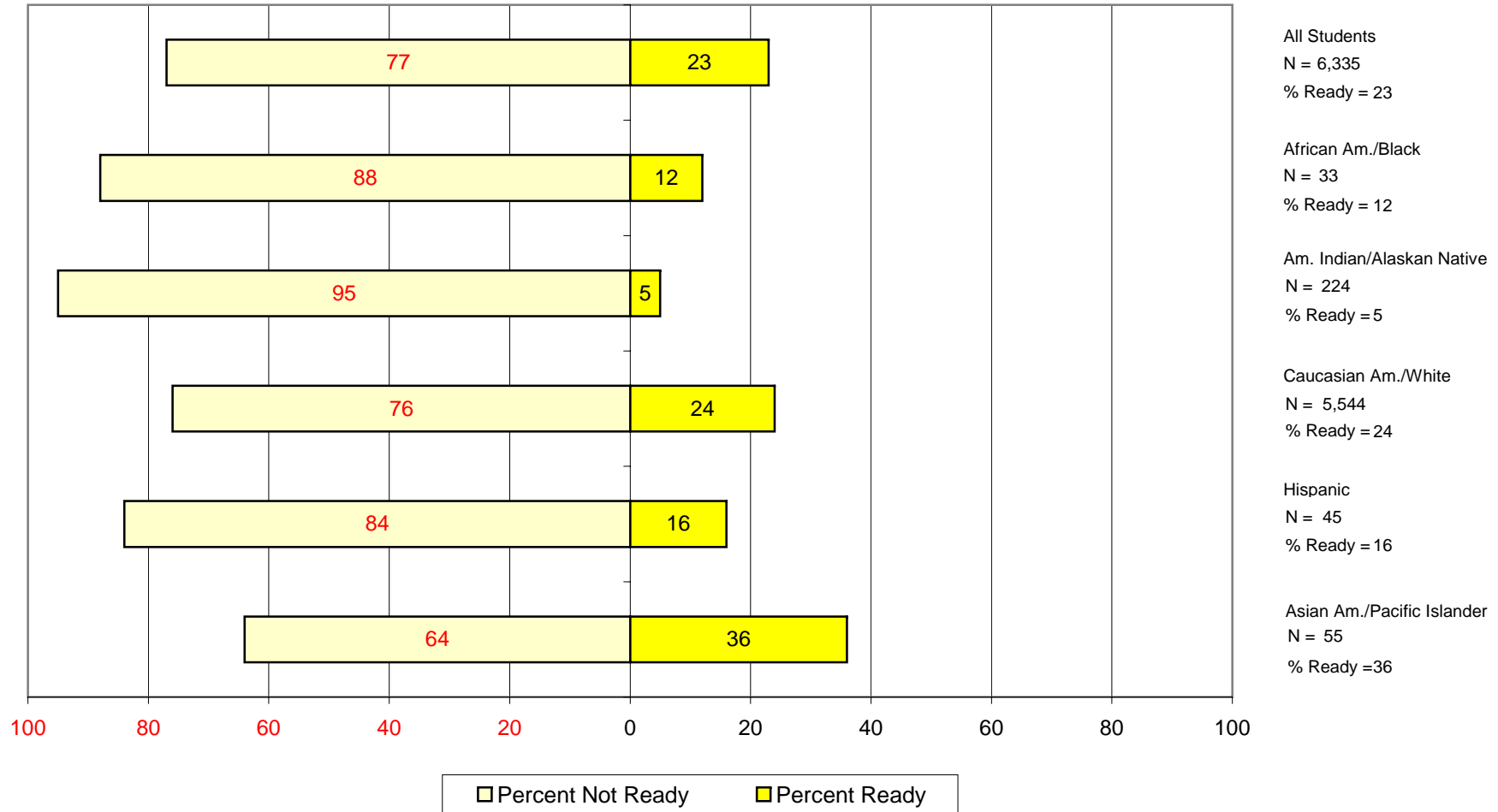


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



**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 <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>
<b>ENGLISH COURSE PATTERN</b>												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	1,954	31	21.3	1.4	810	27	20.8	1.8	1,109	35	21.8	1.1
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	3,466	55	20.2	0.3	1,728	57	19.5	0.5	1,675	53	20.8	0.1
Less than 4 years of English	465	7	19.9	-	243	8	19.0	-	210	7	20.7	-
No English course/grade information reported	450	7	19.7	-	231	8	19.1	-	182	6	20.2	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	179	3	26.5	8.6	77	3	27.3	9.2	101	3	25.9	8.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	380	6	24.3	6.4	155	5	25.2	7.1	220	7	23.7	6.0
Alg 1, Alg 2, Geom, & Trig	303	5	22.6	4.7	135	4	23.7	5.6	163	5	21.9	4.2
Alg 1, Alg 2, Geom, & Other Adv Math	1,125	18	22.3	4.4	442	15	23.3	5.2	667	21	21.7	4.0
Other comb of 4 or more years of Math	855	13	25.4	7.5	460	15	26.4	8.3	383	12	24.3	6.6
Alg 1, Alg 2, & Geom (Min. Core)	1,609	25	19.5	1.6	759	25	20.0	1.9	814	26	19.0	1.3
Other comb of 3 or 3.5 years of Math	284	4	22.8	4.9	147	5	23.6	5.5	131	4	22.0	4.3
Less than 3 years of Math	1,122	18	17.9	-	587	19	18.1	-	507	16	17.7	-
No Math course/grade information reported	478	8	20.6	-	250	8	21.0	-	190	6	19.9	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	145	2	20.1	-0.1	84	3	20.7	0.8	57	2	19.6	-0.8
Other comb of 4 or more years Social Science	2,439	39	22.4	2.2	1,045	35	22.1	2.2	1,353	43	22.6	2.2
US Hist, World Hist, & Am Gov (Min. Core)	527	8	20.2	0.0	297	10	19.7	-0.2	227	7	20.9	0.5
Other comb of 3 or 3.5 years of Social Science	2,121	33	21.7	1.5	1,001	33	21.3	1.4	1,078	34	22.1	1.7
Less than 3 years of Social Science	629	10	20.2	-	338	11	19.9	-	274	9	20.4	-
No Soc Sci course/grade information reported	474	7	21.2	-	247	8	20.7	-	187	6	21.6	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	1,661	26	23.5	4.1	860	29	24.4	4.8	771	24	22.7	3.5
Bio, Chem, Phys	21	0	24.7	5.3	8	0	26.8	7.2	13	0	23.4	4.2
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	2,455	39	21.4	2.0	985	33	21.9	2.3	1,430	45	21.1	1.9
Other comb of 3 years of Natural Science	255	4	22.2	2.8	155	5	22.5	2.9	96	3	21.9	2.7
Less than 3 years of Natural Science	1,465	23	19.4	-	749	25	19.6	-	681	21	19.2	-
No Nat Sci course/grade information reported	478	8	21.0	-	255	8	21.5	-	185	6	20.2	-

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

<sup>2</sup>Includes General, Physical and Earth Sciences.

**Table 3.2. College Readiness Percents by Common Course Patterns**

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
<b>ENGLISH COURSE PATTERN</b>								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	1,954	31	21.3	75	272,554	23	21.8	77
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	3,466	55	20.2	68	668,226	55	20.4	67
Less than 4 years of English	465	7	19.9	66	115,551	10	19.4	62
No English course/grade information reported	450	7	19.7	64	150,124	12	20.3	67
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	179	3	26.5	87	67,960	6	24.7	74
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	380	6	24.3	77	90,348	7	22.2	56
Alg 1, Alg 2, Geom, & Trig	303	5	22.6	63	95,613	8	20.4	38
Alg 1, Alg 2, Geom, & Other Adv Math	1,125	18	22.3	59	153,394	13	20.3	37
Other comb of 4 or more years of Math	855	13	25.4	77	244,137	20	24.0	68
Alg 1, Alg 2, & Geom (Min. Core)	1,609	25	19.5	26	209,836	17	17.8	14
Other comb of 3 or 3.5 years of Math	284	4	22.8	61	54,965	5	20.6	40
Less than 3 years of Math	1,122	18	17.9	16	131,567	11	17.9	18
No Math course/grade information reported	478	8	20.6	41	158,635	13	20.8	42
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	145	2	20.1	45	31,335	3	22.7	60
Other comb of 4 or more years Social Science	2,439	39	22.4	60	443,622	37	21.9	57
US Hist, World Hist, & Am Gov (Min. Core)	527	8	20.2	45	67,943	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	2,121	33	21.7	56	325,879	27	21.3	52
Less than 3 years of Social Science	629	10	20.2	45	179,270	15	20.5	46
No Soc Sci course/grade information reported	474	7	21.2	52	158,406	13	21.2	52
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	1,661	26	23.5	48	320,821	27	22.3	38
Bio, Chem, Phys	21	0	24.7	43	115,519	10	23.2	45
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	2,455	39	21.4	27	339,689	28	20.2	19
Other comb of 3 years of Natural Science	255	4	22.2	38	32,330	3	20.5	24
Less than 3 years of Natural Science	1,465	23	19.4	12	234,307	19	19.1	14
No Nat Sci course/grade information reported	478	8	21.0	27	163,789	14	20.7	26

<sup>1</sup>Includes 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 <sup>1</sup>	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp	N	Percent <sup>2</sup>	Avg ACT Comp
Agriculture Sciences & Technologies	186	3	19.6	68	7	17.7	111	2	20.7
Architecture & Environmental Design	100	2	22.3	21	2	19.1	76	2	23.2
Business & Management	408	6	21.1	36	4	17.7	360	8	21.5
Business & Office	32	1	19.3	11	1	17.8	20	0	20.3
Marketing & Distribution	32	1	20.5	4	0	18.8	28	1	20.8
Communications & Comm. Technologies	91	1	22.4	8	1	15.3	82	2	23.1
Community & Personal Services	186	3	19.1	44	5	17.8	131	3	19.7
Computer & Information Sciences	164	3	22.9	31	3	20.5	130	3	23.6
Cross-Disciplinary Studies	5	0	24.0	1	0	17.0	4	0	25.8
Education	214	3	20.9	6	1	18.3	196	4	21.1
Teacher Education	140	2	21.1	4	0	15.3	133	3	21.3
Engineering	256	4	23.0	28	3	17.9	222	5	23.8
Engineering-Related Technologies	167	3	21.4	41	4	17.7	121	3	22.5
Foreign Languages	28	0	24.1	1	0	22.0	26	1	23.8
Health Sciences & Allied Health Fields	1,123	18	21.7	99	11	18.4	985	21	22.1
Human, Family & Consumer Science	65	1	19.3	20	2	16.8	40	1	20.1
Letters	30	0	24.8	2	0	23.0	26	1	25.2
Mathematics	17	0	24.5	1	0	18.0	15	0	25.2
Philosophy, Religion & Theology	19	0	23.0	0	0	.	18	0	23.2
Sciences (Biological & Physical)	197	3	23.8	4	0	19.0	188	4	24.0
Social Sciences	312	5	22.9	8	1	17.4	295	6	23.0
Trade & Industrial	320	5	18.2	227	25	17.5	82	2	20.4
Visual & Performing Arts	249	4	21.1	37	4	17.2	200	4	21.8
Undecided	813	13	21.5	110	12	17.8	632	14	22.1
No Response	1,181	19	21.2	100	11	18.0	540	12	22.0

<sup>1</sup>2-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*.

<sup>2</sup>Percent 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	215	17.3	0	.	5	14.0	199	17.3	0	.	0	.	11	17.9
2-yr College Degree	697	18.1	1	16.0	32	15.3	616	18.2	5	17.2	1	22.0	42	18.0
Bachelors Degree	2,558	21.2	12	19.3	84	17.0	2,299	21.4	15	19.2	17	20.0	131	21.1
Graduate Study	728	23.4	7	18.6	22	18.2	642	23.7	9	21.9	6	24.3	42	22.5
Prof. Level Degree	1,375	23.4	11	21.5	59	19.6	1,175	23.6	12	22.4	20	24.8	98	22.9
Other	183	19.6	0	.	3	15.0	162	19.9	3	16.0	2	17.5	13	18.8
No Response	579	21.1	2	17.5	19	15.7	451	21.2	1	20.0	9	24.1	97	21.5

**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
NORTH DAKOTA STATE UNIVERSITY	North Dakota	2,958	1,081	1,877	0	3	24	38	25	8	1
UNIVERSITY OF NORTH DAKOTA	North Dakota	2,947	1,030	1,917	0	3	23	38	25	10	1
BISMARCK STATE COLLEGE	North Dakota	1,255	553	702	2	14	37	32	13	2	0
NORTH DAKOTA STATE COLLEGE OF SCIENCE	North Dakota	1,019	383	636	2	16	40	30	11	1	0
MINOT STATE UNIVERSITY	North Dakota	919	324	595	1	8	36	32	18	5	0
MINNESOTA STATE UNIVERSITY MOORHEAD	Minnesota	803	192	611	0	3	26	41	24	5	1
UNIVERSITY OF MARY	North Dakota	783	133	650	0	5	23	39	25	7	0
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	713	193	520	0	1	10	30	38	19	2
DICKINSON STATE UNIVERSITY	North Dakota	556	183	373	1	8	35	32	20	4	0
VALLEY CITY STATE UNIVERSITY	North Dakota	429	88	341	0	8	38	33	17	3	0
JAMESTOWN COLLEGE	North Dakota	389	64	325	1	5	29	38	22	5	1
MAYVILLE STATE UNIVERSITY	North Dakota	351	81	270	0	8	37	36	16	2	0
CONCORDIA COLLEGE-MOORHEAD	Minnesota	308	67	241	0	1	19	36	30	12	2
LAKE REGION STATE COLLEGE	North Dakota	234	95	139	3	22	40	26	7	2	0
WILLISTON STATE COLLEGE	North Dakota	230	74	156	3	15	40	28	13	2	0
MINN ST COMM & TECH COLL-MOORHEAD	Minnesota	222	66	156	2	18	38	32	9	0	0
MINOT STATE UNIVERSITY-BOTTINEAU	North Dakota	182	39	143	1	16	44	26	12	1	0
NORTHLAND COMM & TECH COLL-E GRAND FRKS	Minnesota	177	45	132	0	16	50	26	6	2	0
UNIVERSITY OF MINNESOTA-DULUTH	Minnesota	168	31	137	0	1	17	42	30	8	1
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	139	38	101	1	1	21	40	27	11	0
SAINT CLOUD STATE UNIVERSITY	Minnesota	120	17	103	0	1	19	48	28	4	0
NORTHERN STATE UNIVERSITY	South Dakota	91	27	64	0	9	25	36	24	5	0
MEDCENTER ONE COLLEGE OF NURSING	North Dakota	84	7	77	1	14	33	30	17	5	0
UNIV OF MINNESOTA-CROOKSTON	Minnesota	81	17	64	0	4	38	38	17	2	0
BEMIDJI STATE UNIVERSITY	Minnesota	80	17	63	0	0	29	43	23	5	1
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	69	8	61	1	6	12	35	36	9	1
ARIZONA STATE UNIV AT THE TEMPE CAMPUS	Arizona	60	14	46	0	0	22	35	30	13	0
R D HAIR STYLING COLLEGE	North Dakota	60	14	46	3	20	47	20	8	2	0
TURTLE MOUNTAIN COMMUNITY COLLEGE	North Dakota	56	26	30	4	45	30	18	4	0	0
BLACK HILLS STATE UNIVERSITY	South Dakota	55	10	45	2	4	33	35	25	2	0
All Other Institutions		3,460	752	2,708	1	5	19	28	27	18	3
<b>Total</b>		<b>18,998</b>	<b>5,669</b>	<b>13,329</b>	<b>1</b>	<b>6</b>	<b>27</b>	<b>34</b>	<b>22</b>	<b>9</b>	<b>1</b>

# 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
<b>All Students</b>	<b>2,370</b>	<b>430,404</b>	<b>22.0</b>	<b>22.4</b>	<b>7.0</b>	<b>7.7</b>	<b>21.0</b>	<b>22.0</b>
African Am./Black	12	38,583	20.5	17.5	6.3	6.8	19.3	17.6
Am. Indian/Alaskan Native	30	2,803	17.9	19.8	6.0	7.1	17.2	19.6
Caucasian Am./White	2,122	269,428	22.1	23.4	7.0	7.8	21.1	22.8
Hispanic	21	33,207	20.3	18.9	6.5	7.4	19.3	19.1
Asian Am./Pacific Islander	33	21,275	22.2	23.0	7.8	8.0	22.0	22.8
Other/No Response	152	65,108	21.9	22.8	6.8	7.9	20.8	22.5
Males	1,015	170,904	21.6	22.1	6.7	7.4	20.5	21.5
Females	1,302	240,056	22.4	22.6	7.2	7.9	21.5	22.3
Missing	53	19,444	21.4	22.1	6.9	7.8	20.6	21.9



