

# ACT High School Profile Report

The Graduating Class of 2007  
North Dakota





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This report provides information about the performance of your 2007 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** - colleges 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:**

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 2007 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.** 6,326 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 16% of the cohort took less than three years of math courses. Of these students, 18% were college ready. 24% of the cohort reported taking the minimum core (Algebra I, Algebra II, and Geometry). 27% of these students were college ready. In comparison, 68% 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 21% of the cohort took less than three years of natural science courses. 14% of these students were college ready. In comparison, 35% of students who took at least three years of science coursework were college ready.

**EVALUATING RIGOR OF COURSES.** Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 39% 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).

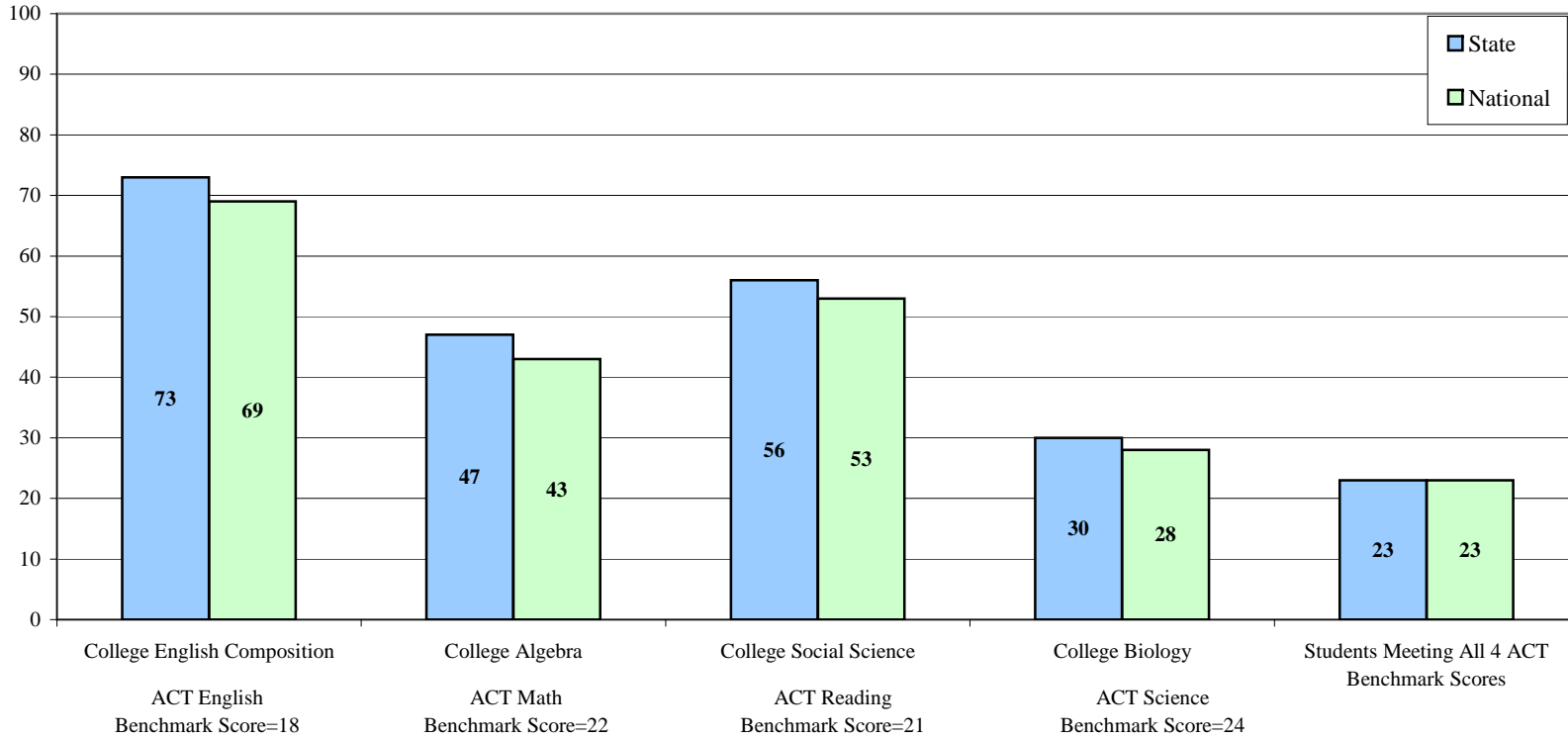
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS.** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic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



**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
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
2006	6,335	1,206,455	70	69	47	42	55	53	30	27	23	21
<b>2007</b>	<b>6,326</b>	<b>1,300,599</b>	<b>73</b>	<b>69</b>	<b>47</b>	<b>43</b>	<b>56</b>	<b>53</b>	<b>30</b>	<b>28</b>	<b>23</b>	<b>23</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
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
2006	6,335	1,206,455	20.5	20.6	21.4	20.8	21.6	21.4	21.5	20.9	21.4	21.1
<b>2007</b>	<b>6,326</b>	<b>1,300,599</b>	<b>20.8</b>	<b>20.7</b>	<b>21.5</b>	<b>21.0</b>	<b>21.9</b>	<b>21.5</b>	<b>21.6</b>	<b>21.0</b>	<b>21.6</b>	<b>21.2</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
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
<b>2007</b>	<b>1,300,599</b>	<b>20.7</b>	<b>21.0</b>	<b>21.5</b>	<b>21.0</b>	<b>21.2</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
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
2006	3,562	2,335	56	37	21.9	18.3	22.8	19.3	22.9	19.7	22.7	19.9	22.7	19.4
<b>2007</b>	<b>3,413</b>	<b>2,259</b>	<b>54</b>	<b>36</b>	<b>22.1</b>	<b>18.8</b>	<b>22.9</b>	<b>19.5</b>	<b>23.0</b>	<b>20.2</b>	<b>22.7</b>	<b>20.1</b>	<b>22.8</b>	<b>19.8</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**

	2003			2004			2005			2006			2007		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</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>	<b>6,326</b>	<b>100</b>	<b>21.6</b>
African American/Black	26	0	18.1	24	0	17.6	33	1	17.6	33	1	19.6	32	1	18.4
American Indian/Alaska Native	215	3	17.5	240	4	16.9	251	4	17.5	224	4	17.4	242	4	17.1
Caucasian American/White	6,486	91	21.5	6,059	90	21.4	5,854	89	21.5	5,544	88	21.5	5,380	85	21.8
Hispanic	58	1	20.1	63	1	19.0	52	1	19.1	45	1	20.2	47	1	20.5
Asian American/Pacific Islander	45	1	21.2	55	1	21.5	51	1	21.5	55	1	22.8	43	1	21.5
Other/No Response	268	4	20.5	289	4	21.1	321	5	21.0	434	7	21.3	582	9	21.7

# 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	4	100	12	100	19	100	5	100	0	100	36
35	42	100	18	100	39	100	27	100	6	100	35
34	61	99	41	100	78	99	15	99	19	100	34
33	68	98	41	99	98	98	46	99	36	100	33
32	60	97	70	98	131	96	39	99	52	99	32
31	77	96	89	97	158	94	76	98	81	98	31
30	89	95	93	96	149	92	75	97	115	97	30
29	118	94	163	94	172	89	78	96	155	95	29
28	208	92	176	92	285	87	134	94	176	93	28
27	180	89	244	89	234	82	181	92	247	90	27
26	222	86	352	85	268	78	321	89	284	86	26
25	354	82	425	79	249	74	423	84	377	81	25
24	319	77	452	73	385	70	475	78	410	76	24
23	358	72	370	66	508	64	538	70	475	69	23
22	532	66	426	60	329	56	697	62	557	62	22
21	541	57	426	53	426	51	653	51	636	53	21
20	552	49	447	46	532	44	710	40	579	43	20
19	482	40	449	39	453	36	539	29	558	34	19
18	356	33	473	32	298	29	457	20	460	25	18
17	306	27	496	25	380	24	271	13	366	17	17
16	381	22	556	17	337	18	158	9	298	12	16
15	288	16	320	8	211	13	121	6	189	7	15
14	261	12	139	3	249	9	97	5	112	4	14
13	117	7	33	1	144	5	59	3	81	2	13
12	116	6	10	1	112	3	60	2	41	1	12
11	88	4	4	1	47	1	35	1	13	1	11
10	58	2	1	1	18	1	28	1	2	1	10
9	30	1	0	1	7	1	2	1	1	1	9
8	42	1	0	1	7	1	4	1	0	1	8
7	11	1	0	1	2	1	0	1	0	1	7
6	3	1	0	1	0	1	1	1	0	1	6
5	0	1	0	1	0	1	0	1	0	1	5
4	2	1	0	1	0	1	1	1	0	1	4
3	0	1	0	1	1	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
Avg (SD)	20.8 (5.4)		21.5 (4.7)		21.9 (5.6)		21.6 (4.2)		21.6 (4.4)		Avg (SD)

<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	107	100	32	100	84	100	128	100	153	100	50	100	41	100	18
17	267	98	81	99	326	99	264	98	231	98	51	99	33	99	17
16	237	94	203	98	331	94	372	94	346	94	127	98	150	99	16
15	225	90	364	95	372	88	444	88	412	88	264	96	351	96	15
14	417	87	405	89	464	82	510	81	587	82	424	92	527	91	14
13	418	80	507	83	482	75	570	73	728	73	775	86	651	83	13
12	597	74	712	75	832	67	640	64	604	61	698	73	809	72	12
11	645	64	1,066	64	823	54	555	54	625	52	821	62	851	60	11
10	811	54	855	47	634	41	634	45	695	42	1,055	49	1,011	46	10
9	673	41	718	33	647	31	571	35	522	31	829	33	818	30	9
8	660	30	641	22	648	21	439	26	588	22	523	19	450	17	8
7	468	20	303	12	309	11	428	19	553	13	309	11	302	10	7
6	337	13	201	7	191	6	409	12	207	4	214	6	144	5	6
5	265	7	131	4	87	3	230	6	42	1	107	3	64	3	5
4	119	3	85	2	62	2	104	2	24	1	32	1	75	2	4
3	59	1	17	1	27	1	15	1	7	1	38	1	31	1	3
2	19	1	4	1	4	1	12	1	2	1	0	1	11	1	2
1	2	1	1	1	3	1	1	1	0	1	9	1	7	1	1
Avg (SD)	10.4 (3.4)		10.7 (2.8)		11.2 (3.2)		11.0 (3.5)		11.4 (3.2)		10.7 (2.7)		10.9 (2.7)		Avg (SD)

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

**Table 2.3. ACT Score Quartile Values for All Students**

Quartile	English	Math	Reading	Science	Composite
Q3 (75th Percentile)	24	25	26	24	24
Q2 (50th Percentile)	21	21	21	21	21
Q1 (25th Percentile)	17	18	18	19	19

**Table 2.4. 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	<b>All Students</b>	<b>6,326</b>	<b>54</b>	<b>22.8</b>	<b>19.8</b>
	African Am./Black	32	47	20.1	16.8
	Am. Indian/Alaska Native	242	36	19.2	16.0
	Caucasian Am./White	5,380	56	22.9	20.1
	Hispanic	47	47	22.0	18.9
	Asian Am./Pacific Islander	43	56	23.2	19.9
	Other/No Response	582	43	22.9	20.0
National	<b>All Students</b>	<b>1,300,599</b>	<b>51</b>	<b>22.0</b>	<b>19.8</b>
	African Am./Black	152,412	51	17.7	16.1
	Am. Indian/Alaska Native	14,044	46	20.3	17.6
	Caucasian Am./White	779,147	54	23.0	20.7
	Hispanic	93,137	50	19.5	17.7
	Asian Am./Pacific Islander	42,257	57	23.1	21.4
	Other/No Response	219,602	38	22.5	20.4

**Table 2.5. Average ACT Scores by Race/Ethnicity**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	<b>All Students</b>	20.8	21.5	21.9	21.6	21.6
	African Am./Black	17.2	18.0	18.8	18.8	18.4
	Am. Indian/Alaska Native	15.4	17.2	17.6	17.8	17.1
	Caucasian Am./White	21.0	21.7	22.1	21.8	21.8
	Hispanic	19.8	19.7	21.4	20.3	20.5
	Asian Am./Pacific Islander	21.3	22.0	21.3	21.0	21.5
	Other/No Response	21.2	21.7	21.9	21.6	21.7
National	<b>All Students</b>	20.7	21.0	21.5	21.0	21.2
	African Am./Black	16.1	17.0	17.1	17.2	17.0
	Am. Indian/Alaska Native	17.9	18.7	19.4	19.2	18.9
	Caucasian Am./White	21.8	21.7	22.5	21.9	22.1
	Hispanic	17.6	19.0	18.8	18.8	18.7
	Asian Am./Pacific Islander	21.7	23.6	22.1	22.3	22.6
	Other/No Response	21.2	21.5	22.0	21.3	21.6

**Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges**

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	175	3	112	2	234	4	93	1
	28 to 32	552	9	591	9	895	14	402	6
	24 to 27	1,075	17	1,473	23	1,136	18	1,400	22
	20 to 23	1,983	31	1,669	26	1,795	28	2,598	41
	16 to 19	1,525	24	1,974	31	1,468	23	1,425	23
	13 to 15	666	11	492	8	604	10	277	4
	01 to 12	350	6	15	0	194	3	131	2
National	33 to 36	44,569	3	29,067	2	58,782	5	26,450	2
	28 to 32	133,320	10	120,951	9	183,189	14	80,170	6
	24 to 27	228,570	18	268,298	21	224,580	17	258,834	20
	20 to 23	348,772	27	284,073	22	317,869	24	458,484	35
	16 to 19	278,059	21	427,859	33	281,941	22	319,915	25
	13 to 15	154,534	12	161,072	12	159,904	12	95,630	7
	01 to 12	112,775	9	9,279	1	74,334	6	61,116	5

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Math	Reading	Science	Composite
State	Males	2,920	46	20.0	22.0	21.4	22.0	21.5
	Females	3,149	50	21.5	21.0	22.2	21.3	21.6
	Missing	257	4	21.1	21.6	22.1	21.8	21.8
National	Males	544,522	42	20.2	21.6	21.2	21.4	21.2
	Females	674,636	52	21.0	20.4	21.6	20.5	21.0
	Missing	81,441	6	21.7	21.9	22.4	21.7	22.1

**Table 2.8. 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	68	51	53	33	25
	Females	77	43	59	27	22
National	Males	66	47	51	32	26
	Females	71	38	53	24	20





# 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

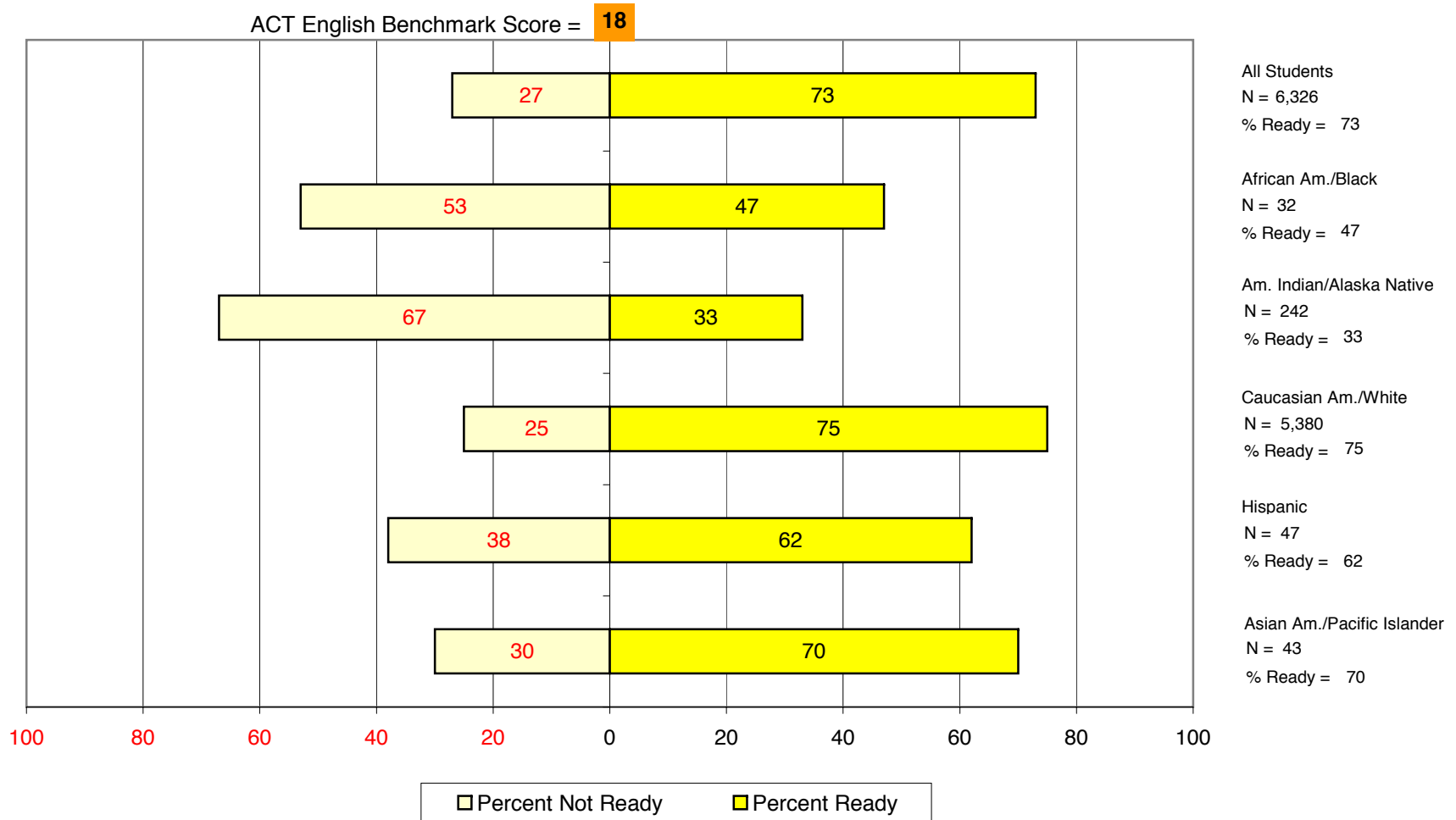


Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

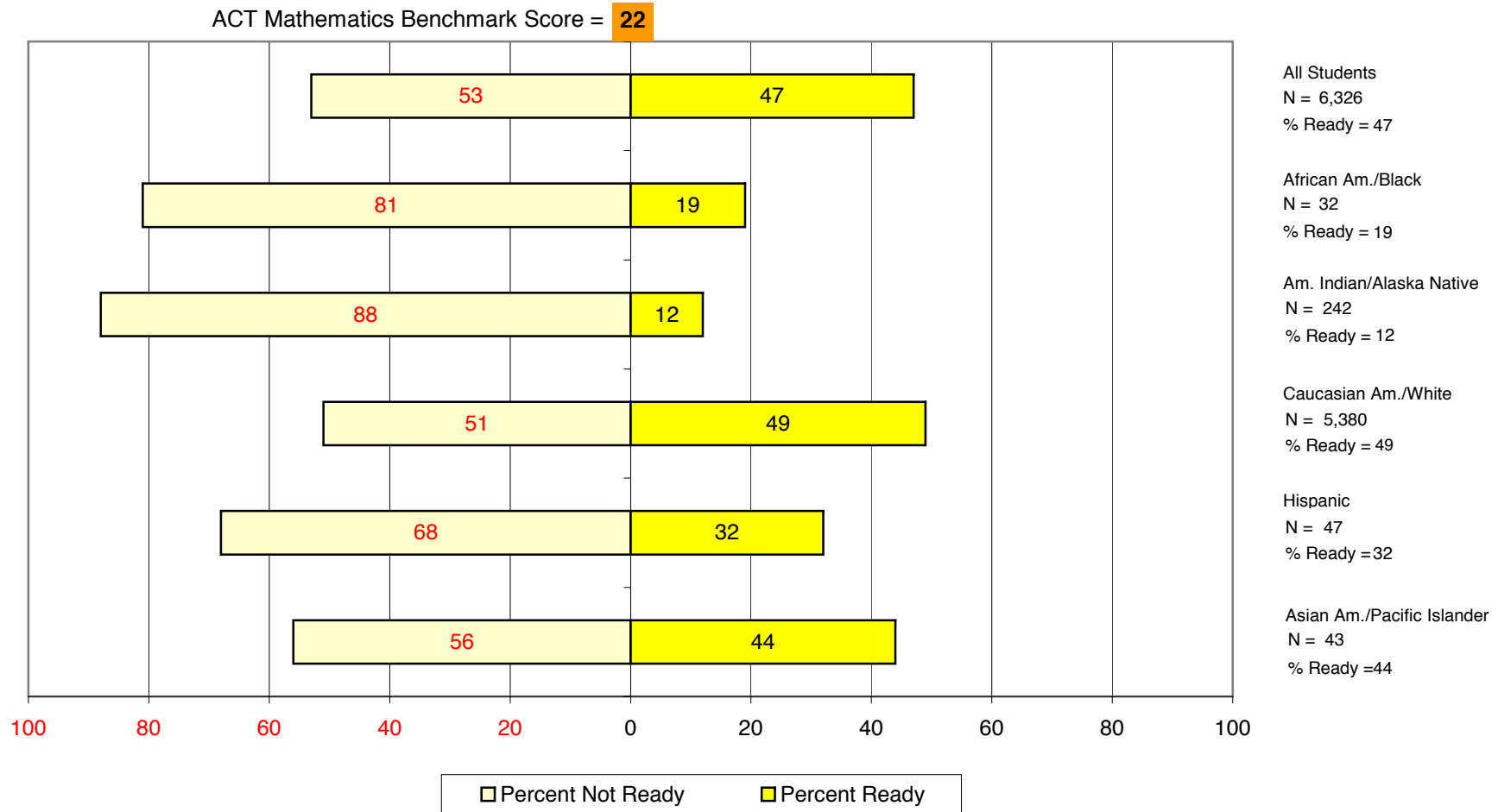


Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: **READING**

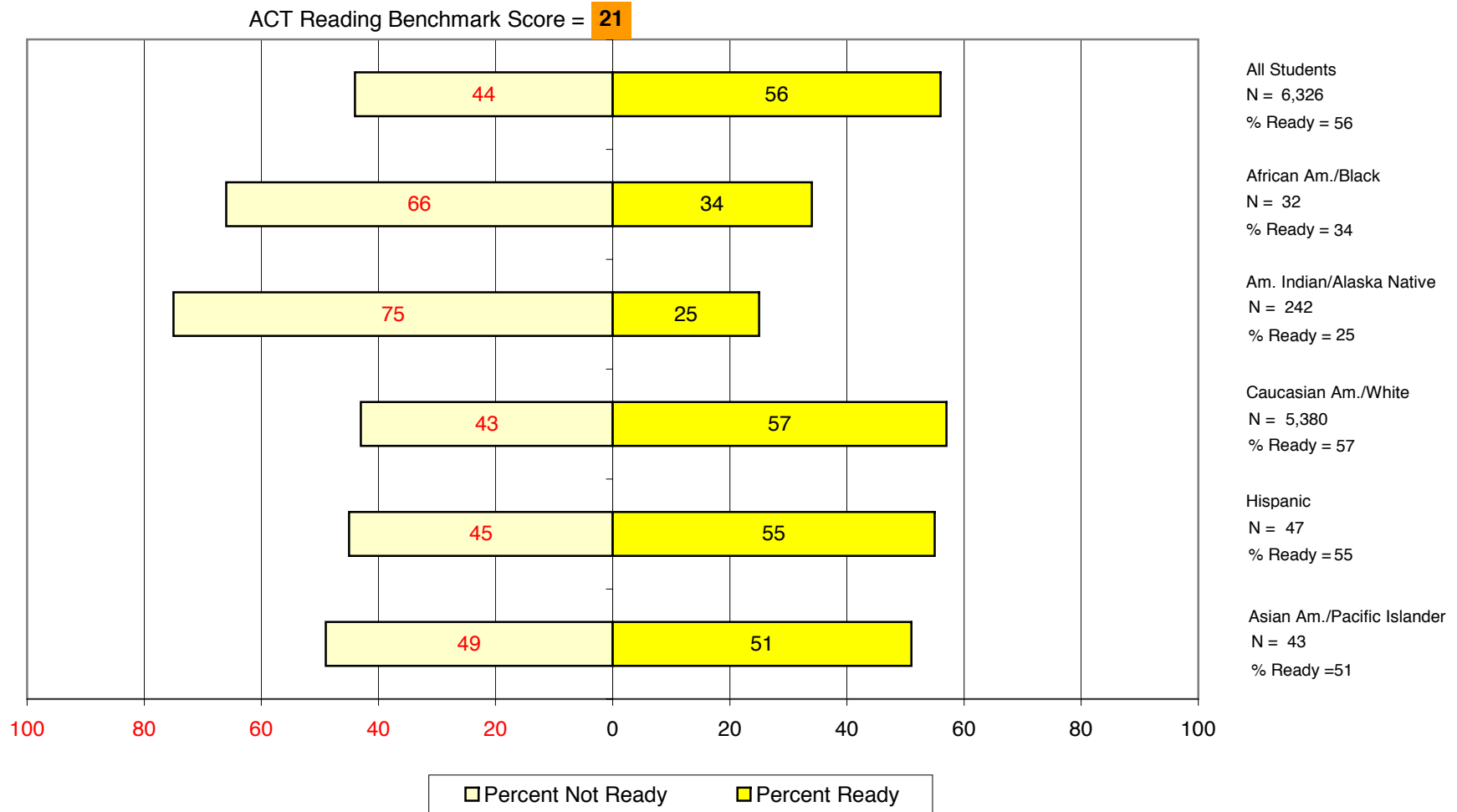


Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

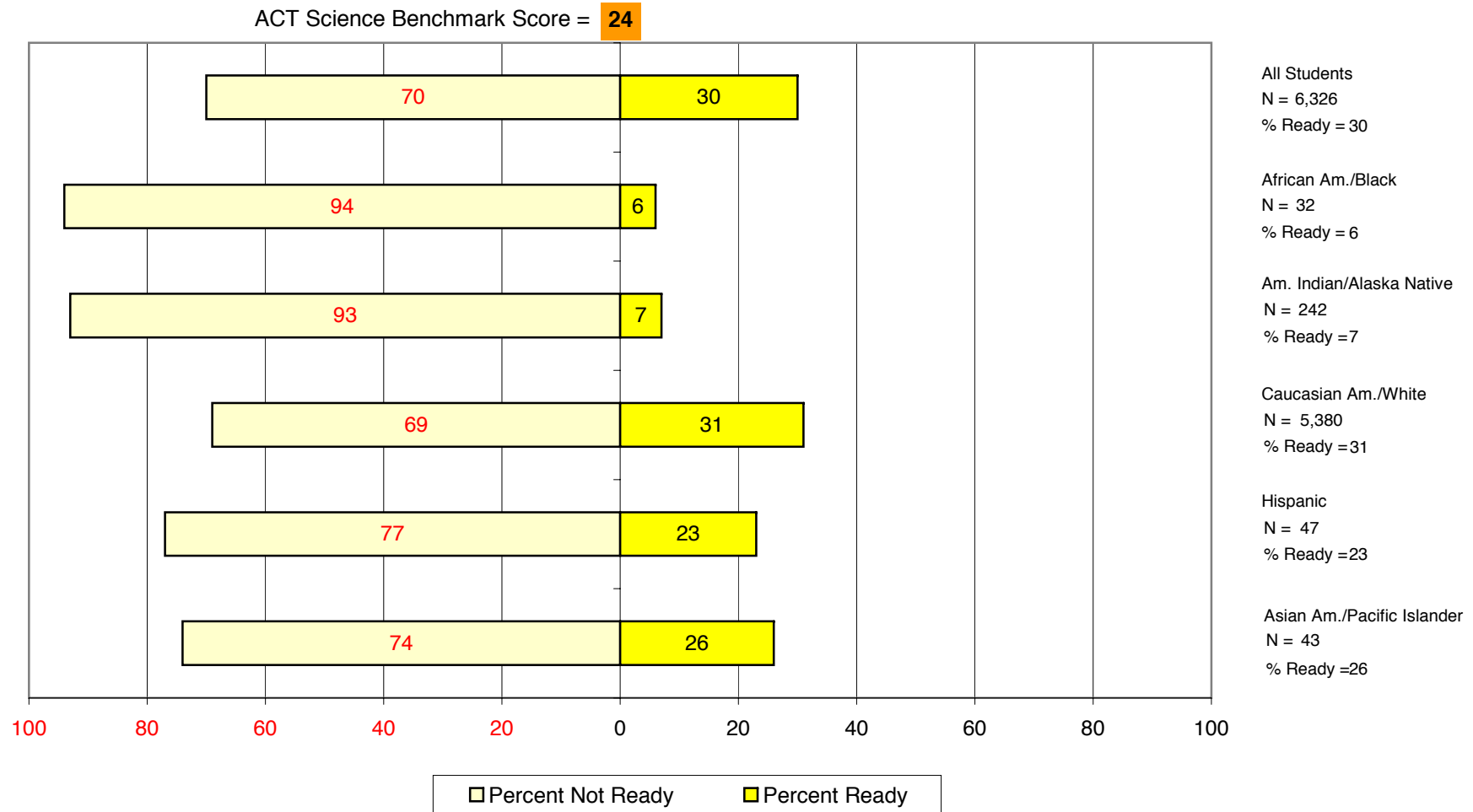
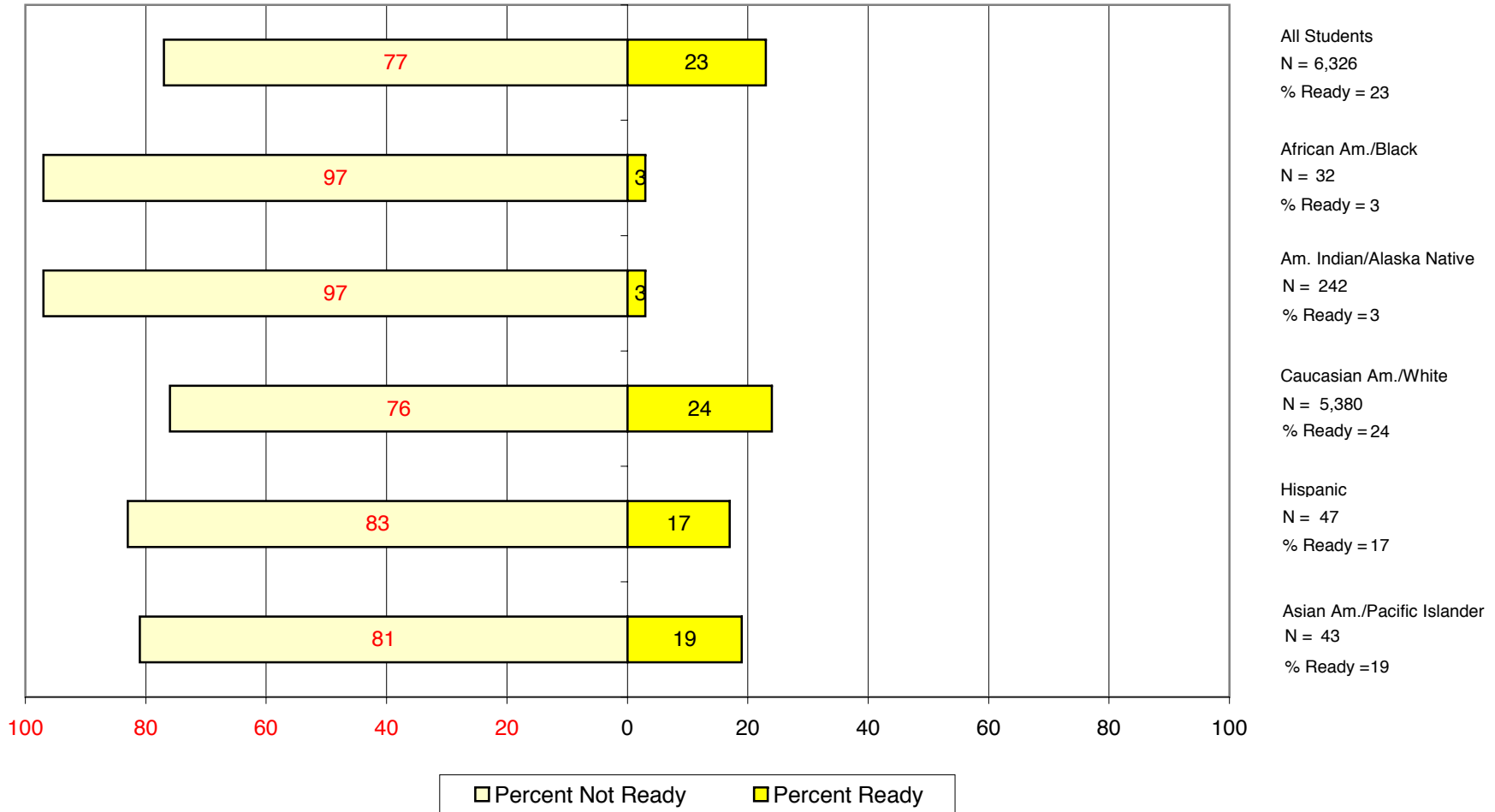


Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



**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	1,350	21	21.9	1.6	494	17	20.9	1.3	823	26	22.5	1.6
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	3,702	59	20.5	0.2	1,841	63	19.9	0.3	1,756	56	21.2	0.3
Less than 4 years of English	604	10	20.3	-	273	9	19.6	-	298	9	20.9	-
No English course/grade information reported	670	11	20.6	-	312	11	19.9	-	272	9	21.1	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	172	3	26.3	8.2	82	3	27.0	8.6	86	3	25.6	7.9
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	299	5	24.6	6.5	137	5	26.0	7.6	152	5	23.3	5.6
Alg 1, Alg 2, Geom, & Trig	294	5	22.5	4.4	142	5	23.0	4.6	146	5	22.0	4.3
Alg 1, Alg 2, Geom, & Other Adv Math	1,203	19	22.5	4.4	495	17	23.1	4.7	675	21	22.0	4.3
Other comb of 4 or more years of Math	816	13	25.6	7.5	385	13	26.5	8.1	407	13	24.8	7.1
Alg 1, Alg 2, & Geom (Min. Core)	1,537	24	19.5	1.4	691	24	20.0	1.6	806	26	19.0	1.3
Other comb of 3 or 3.5 years of Math	267	4	22.5	4.4	124	4	23.2	4.8	137	4	21.6	3.9
Less than 3 years of Math	1,038	16	18.1	-	541	19	18.4	-	453	14	17.7	-
No Math course/grade information reported	700	11	21.2	-	323	11	21.4	-	287	9	20.7	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	130	2	21.9	1.4	78	3	22.2	2.1	45	1	21.6	0.8
Other comb of 4 or more years Social Science	2,273	36	22.5	2.0	946	32	22.3	2.2	1,263	40	22.5	1.7
US Hist, World Hist, & Am Gov (Min. Core)	509	8	21.0	0.5	295	10	20.4	0.3	205	7	21.8	1.0
Other comb of 3 or 3.5 years of Social Science	2,072	33	21.9	1.4	940	32	21.3	1.2	1,078	34	22.4	1.6
Less than 3 years of Social Science	648	10	20.5	-	340	12	20.1	-	275	9	20.8	-
No Soc Sci course/grade information reported	694	11	21.6	-	321	11	21.2	-	283	9	21.9	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	1,652	26	23.5	4.0	840	29	24.2	4.5	763	24	22.7	3.5
Bio, Chem, Phys	20	0	23.8	4.3	14	0	24.1	4.4	4	0	23.0	3.8
Gen Sci <sup>2</sup> , Bio, Chem (Min. Core)	2,354	37	21.6	2.1	903	31	21.7	2.0	1,391	44	21.5	2.3
Other comb of 3 years of Natural Science	222	4	22.1	2.6	138	5	22.5	2.8	80	3	21.6	2.4
Less than 3 years of Natural Science	1,356	21	19.5	-	693	24	19.7	-	619	20	19.2	-
No Nat Sci course/grade information reported	722	11	21.3	-	332	11	21.6	-	292	9	20.8	-

<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	1,350	21	21.9	79	191,202	15	22.2	79
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	3,702	59	20.5	72	766,001	59	20.5	68
Less than 4 years of English	604	10	20.3	70	141,777	11	19.7	64
No English course/grade information reported	670	11	20.6	72	201,619	16	20.7	69
<b>MATHEMATICS COURSE PATTERN</b>								
Alg 1, Alg 2, Geom, Trig, & Calc	172	3	26.3	86	75,970	6	24.8	75
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	299	5	24.6	78	87,647	7	22.4	58
Alg 1, Alg 2, Geom, & Trig	294	5	22.5	62	100,139	8	20.5	40
Alg 1, Alg 2, Geom, & Other Adv Math	1,203	19	22.5	59	163,562	13	20.4	38
Other comb of 4 or more years of Math	816	13	25.6	78	239,187	18	24.3	69
Alg 1, Alg 2, & Geom (Min. Core)	1,537	24	19.5	27	218,745	17	17.9	15
Other comb of 3 or 3.5 years of Math	267	4	22.5	57	57,945	4	20.9	43
Less than 3 years of Math	1,038	16	18.1	18	145,617	11	18.3	21
No Math course/grade information reported	700	11	21.2	46	211,787	16	21.1	44
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
US Hist, World Hist, Am Gov, & Other Hist	130	2	21.9	58	31,985	2	22.7	61
Other comb of 4 or more years Social Science	2,273	36	22.5	60	448,356	34	22.0	56
US Hist, World Hist, & Am Gov (Min. Core)	509	8	21.0	51	72,952	6	20.8	48
Other comb of 3 or 3.5 years of Social Science	2,072	33	21.9	57	333,689	26	21.4	52
Less than 3 years of Social Science	648	10	20.5	45	201,605	16	20.6	47
No Soc Sci course/grade information reported	694	11	21.6	52	212,012	16	21.5	53
<b>NATURAL SCIENCE COURSE PATTERN</b>								
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	1,652	26	23.5	47	333,648	26	22.4	40
Bio, Chem, Phys	20	0	23.8	50	115,297	9	23.4	48
Gen Sci <sup>1</sup> , Bio, Chem (Min. Core)	2,354	37	21.6	27	353,348	27	20.2	20
Other comb of 3 years of Natural Science	222	4	22.1	37	32,593	3	20.4	24
Less than 3 years of Natural Science	1,356	21	19.5	14	247,312	19	19.1	15
No Nat Sci course/grade information reported	722	11	21.3	28	218,401	17	20.9	29

<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	175	3	19.6	62	7	18.7	110	3	20.2
Architecture & Environmental Design	138	2	21.7	26	3	19.2	105	2	22.4
Business & Management	364	6	21.3	43	5	18.8	309	7	21.7
Business & Office	30	0	19.7	11	1	16.7	19	0	21.4
Marketing & Distribution	28	0	22.1	0	0	.	26	1	22.4
Communications & Comm. Technologies	84	1	22.7	10	1	16.1	73	2	23.6
Community & Personal Services	171	3	19.1	43	5	17.2	117	3	19.7
Computer & Information Sciences	127	2	22.3	19	2	20.8	102	2	22.8
Cross-Disciplinary Studies	2	0	17.0	0	0	.	2	0	17.0
Education	182	3	22.1	7	1	16.6	167	4	22.4
Teacher Education	139	2	21.2	4	0	17.3	127	3	21.3
Engineering	219	3	23.0	26	3	18.4	186	4	23.8
Engineering-Related Technologies	133	2	22.2	33	4	18.0	93	2	23.5
Foreign Languages	23	0	24.4	1	0	21.0	21	0	24.5
Health Sciences & Allied Health Fields	998	16	21.9	85	10	18.5	867	20	22.3
Human, Family & Consumer Science	62	1	20.3	15	2	19.0	42	1	21.0
Letters	22	0	24.3	2	0	20.5	18	0	24.9
Mathematics	21	0	24.9	2	0	21.5	18	0	25.4
Philosophy, Religion & Theology	34	1	22.9	0	0	.	32	1	23.0
Sciences (Biological & Physical)	241	4	23.9	6	1	19.3	227	5	24.0
Social Sciences	290	5	22.5	3	0	17.0	278	6	22.6
Trade & Industrial	261	4	18.8	192	22	18.5	58	1	19.8
Visual & Performing Arts	235	4	22.0	33	4	19.1	186	4	22.5
Undecided	976	15	21.0	137	16	17.8	771	18	21.7
No Response	1,371	22	21.7	98	11	17.8	434	10	22.3

<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/ Alaska 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	199	18.2	1	12.0	5	15.0	179	18.5	1	19.0	1	18.0	12	15.0
2-yr College Degree	659	18.3	2	18.5	20	15.6	597	18.5	3	14.3	2	17.5	35	16.7
Bachelors Degree	2,381	21.2	9	17.4	87	16.7	2,081	21.5	21	19.5	12	19.7	171	20.9
Graduate Study	653	23.3	6	18.8	24	18.7	568	23.5	1	21.0	3	23.3	51	23.1
Prof. Level Degree	1,354	23.6	12	19.4	63	18.2	1,134	23.9	17	22.9	17	24.8	111	23.6
Other	167	19.2	0	.	7	14.0	137	19.5	1	13.0	3	19.7	19	19.2
No Response	913	21.9	2	18.0	36	17.0	684	22.0	3	22.3	5	16.8	183	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
NORTH DAKOTA STATE UNIVERSITY	North Dakota	2,955	1,030	1,925	0	3	23	40	24	9	1
UNIVERSITY OF NORTH DAKOTA	North Dakota	2,835	961	1,874	0	3	22	39	24	10	1
BISMARCK STATE COLLEGE	North Dakota	1,319	597	722	1	9	38	38	11	2	0
NORTH DAKOTA STATE COLLEGE OF SCIENCE	North Dakota	1,013	403	610	1	10	41	34	11	2	0
MINOT STATE UNIVERSITY	North Dakota	893	318	575	1	6	34	38	17	5	0
MINNESOTA STATE UNIVERSITY MOORHEAD	Minnesota	807	189	618	1	3	23	41	23	9	0
UNIVERSITY OF MINNESOTA-TWIN CITIES	Minnesota	747	199	548	0	1	9	29	36	23	3
UNIVERSITY OF MARY	North Dakota	694	126	568	0	5	25	43	19	7	0
DICKINSON STATE UNIVERSITY	North Dakota	487	175	312	1	8	37	38	15	3	0
JAMESTOWN COLLEGE	North Dakota	434	89	345	0	4	29	37	22	7	0
VALLEY CITY STATE UNIVERSITY	North Dakota	399	83	316	1	9	33	41	13	3	1
CONCORDIA COLLEGE-MOORHEAD	Minnesota	340	81	259	0	3	13	29	34	18	3
MAYVILLE STATE UNIVERSITY	North Dakota	265	55	210	2	8	36	40	9	5	0
LAKE REGION STATE COLLEGE	North Dakota	208	69	139	6	14	44	30	4	2	0
WILLISTON STATE COLLEGE	North Dakota	200	57	143	2	11	36	39	12	1	0
MINOT STATE UNIVERSITY-BOTTINEAU	North Dakota	199	61	138	4	16	40	31	8	2	0
UNIVERSITY OF MINNESOTA-DULUTH	Minnesota	177	27	150	0	1	11	43	29	16	1
MINN ST COMM & TECH COLL-MOORHEAD	Minnesota	143	32	111	1	9	50	32	6	2	0
NORTHLAND COMM & TECH COLL-E GRAND FRKS	Minnesota	142	38	104	0	14	42	35	8	1	0
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	115	37	78	2	3	13	36	30	16	1
SAINT CLOUD STATE UNIVERSITY	Minnesota	113	15	98	0	3	20	41	28	8	0
MEDCENTER ONE COLLEGE OF NURSING	North Dakota	94	9	85	0	12	44	32	13	0	0
UNIV OF MINNESOTA-CROOKSTON	Minnesota	69	15	54	1	7	38	36	14	3	0
SOUTH DAKOTA STATE UNIVERSITY	South Dakota	68	7	61	0	3	13	41	28	15	0
BEMIDJI STATE UNIVERSITY	Minnesota	67	17	50	0	0	18	48	28	6	0
NORTHERN STATE UNIVERSITY	South Dakota	65	25	40	0	5	25	37	23	11	0
UNIVERSITY OF NEBRASKA AT LINCOLN	Nebraska	62	20	42	0	0	8	34	29	29	0
MINN ST COMM & TECH COLL-FERGUS FALLS	Minnesota	61	24	37	2	16	44	30	8	0	0
SOUTH DAKOTA SCH OF MINES/TECH	South Dakota	60	15	45	0	0	12	25	38	23	2
R D HAIR STYLING COLLEGE	North Dakota	59	18	41	3	19	47	27	3	0	0
All Other Institutions		3,433	727	2,706	1	5	17	29	26	18	3
<b>Total</b>		<b>18,523</b>	<b>5,519</b>	<b>13,004</b>	<b>1</b>	<b>5</b>	<b>26</b>	<b>36</b>	<b>21</b>	<b>10</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>2,235</b>	<b>532,943</b>	<b>22.5</b>	<b>22.3</b>	<b>6.7</b>	<b>7.6</b>	<b>21.1</b>	<b>21.8</b>
African Am./Black	13	50,340	19.7	17.2	6.2	6.7	18.5	17.3
Am. Indian/Alaska Native	59	3,462	17.1	19.8	5.4	7.0	15.9	19.4
Caucasian Am./White	1,905	308,578	22.6	23.4	6.7	7.6	21.2	22.6
Hispanic	17	42,588	23.5	18.8	6.7	7.3	21.9	19.0
Asian Am./Pacific Islander	19	25,616	23.4	23.2	6.9	8.0	22.0	22.8
Other/No Response	222	102,359	23.1	23.2	6.8	7.8	21.7	22.7
Males	941	204,427	21.9	22.0	6.4	7.3	20.4	21.3
Females	1,190	285,556	23.0	22.5	6.9	7.7	21.7	22.1
Missing	104	42,960	23.1	23.0	6.9	7.8	21.7	22.6



