

ACT Profile Report - State

Graduating Class 2009
Montana



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This report provides information about the performance of your 2009 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2009 and tested under standard time conditions.

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, test data for a school, district, and the state 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, or the state.

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.

Total Students in Report: 5,960

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

How to Improve Scores and Increase College Readiness

26% of your students 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: 5,960 of your students 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, 11% were college ready. 18% of the cohort reported taking the minimum math core (Algebra I, Algebra II, and Geometry). 21% of these students were college ready. In comparison, 62% of the students who advanced beyond minimum math 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 26% of the cohort took less than three years of natural science courses. 14% of these students were college ready. In comparison, 40% 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.

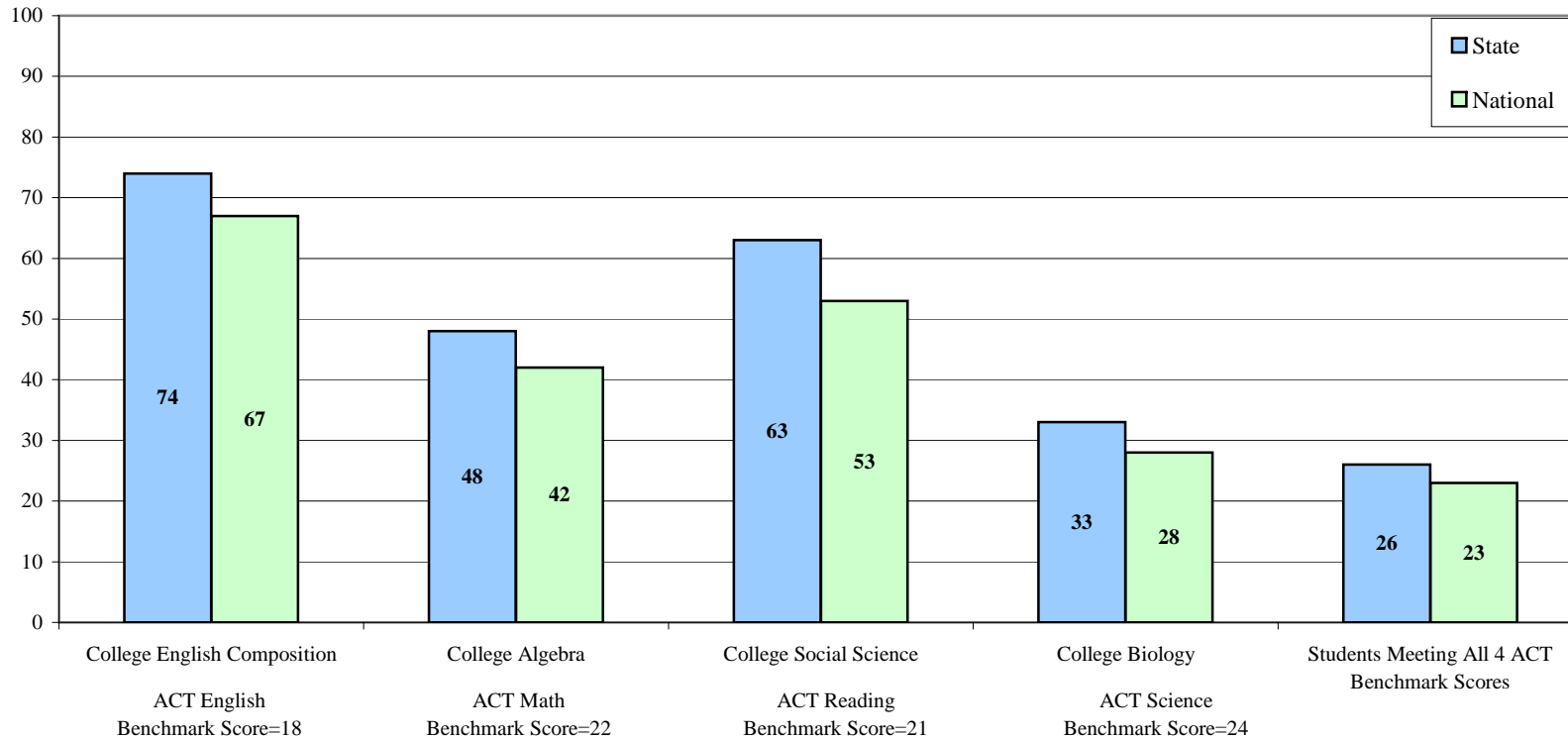
PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS: Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

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 Your 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.

Total Students in Report: 5,960

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

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
2005	6,178	1,186,251	74	68	48	41	60	51	33	26	26	21
2006	6,033	1,206,455	74	69	49	42	61	53	33	27	26	21
2007	6,066	1,300,599	75	69	50	43	60	53	34	28	26	23
2008	6,286	1,421,941	75	68	49	43	62	53	33	28	26	22
2009	5,960	1,480,469	74	67	48	42	63	53	33	28	26	23

Table 1.2. Five Year Trends—Average ACT Scores

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
2005	6,178	1,186,251	21.0	20.4	21.5	20.7	22.4	21.3	21.8	20.9	21.8	20.9
2006	6,033	1,206,455	21.0	20.6	21.7	20.8	22.5	21.4	21.8	20.9	21.9	21.1
2007	6,066	1,300,599	21.2	20.7	21.7	21.0	22.5	21.5	21.8	21.0	21.9	21.2
2008	6,286	1,421,941	21.3	20.6	21.8	21.0	22.7	21.4	21.8	20.8	22.0	21.1
2009	5,960	1,480,469	21.2	20.6	21.7	21.0	22.7	21.4	21.7	20.9	22.0	21.1

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
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
2007	1,300,599	20.7	21.0	21.5	21.0	21.2
2008	1,421,941	20.6	21.0	21.4	20.8	21.1
2009	1,480,469	20.6	21.0	21.4	20.9	21.1

Total Students in Report: 5,960

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

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	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
2005	3,154	2,582	51	42	22.3	19.4	23.1	19.8	23.7	21.0	23.1	20.4	23.2	20.3
2006	2,875	2,633	48	44	22.3	19.8	23.1	20.4	23.7	21.5	22.9	20.8	23.1	20.8
2007	2,788	2,545	46	42	22.7	19.7	23.2	20.3	23.8	21.2	23.1	20.7	23.3	20.6
2008	3,519	2,407	56	38	22.5	19.8	23.2	20.0	23.8	21.4	23.0	20.4	23.2	20.5
2009	3,733	2,036	63	34	22.4	19.3	23.0	19.7	23.9	20.9	22.8	20.0	23.2	20.1

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity

	2005			2006			2007			2008			2009		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	6,178	100	21.8	6,033	100	21.9	6,066	100	21.9	6,286	100	22.0	5,960	100	22.0
African American/Black	18	0	18.4	16	0	19.5	18	0	17.3	14	0	20.9	26	0	20.3
American Indian/Alaska Native	312	5	17.1	269	4	17.5	286	5	18.1	325	5	17.7	313	5	18.1
Caucasian American/White	5,154	83	22.1	4,896	81	22.1	4,812	79	22.1	5,241	83	22.3	5,086	85	22.2
Hispanic	92	1	20.4	95	2	20.2	94	2	20.8	92	1	20.8	106	2	20.7
Asian American/Pacific Islander	71	1	20.9	67	1	22.4	66	1	22.3	82	1	22.5	72	1	23.1
Other/No Response	531	9	21.8	690	11	22.2	790	13	22.1	532	8	22.2	357	6	21.7

Section II

Academic Achievement

Total Students in Report: 5,960

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

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	7	100	4	100	50	100	11	100	1	100	36
35	31	100	23	100	24	99	27	100	8	100	35
34	65	99	36	100	95	99	31	99	16	100	34
33	60	98	58	99	155	97	39	99	31	100	33
32	80	97	79	98	115	95	31	98	63	99	32
31	83	96	78	97	198	93	79	98	104	98	31
30	149	95	74	95	274	89	91	96	142	96	30
29	144	92	174	94	206	85	108	95	145	94	29
28	177	90	214	91	237	81	135	93	229	91	28
27	176	87	262	88	218	77	191	91	274	88	27
26	258	84	365	83	255	74	301	88	299	83	26
25	340	79	396	77	268	69	522	82	368	78	25
24	311	74	470	70	356	65	384	74	415	72	24
23	377	68	358	63	401	59	530	67	472	65	23
22	419	62	296	57	373	52	487	58	510	57	22
21	551	55	395	52	524	46	577	50	533	48	21
20	497	46	360	45	394	37	662	41	470	39	20
19	372	38	422	39	372	30	511	29	461	32	19
18	309	31	434	32	232	24	370	21	435	24	18
17	307	26	505	25	343	20	219	15	354	17	17
16	327	21	542	16	270	15	204	11	242	11	16
15	346	15	269	7	192	10	139	8	154	7	15
14	160	10	111	2	163	7	90	5	131	4	14
13	120	7	24	1	128	4	86	4	65	2	13
12	96	5	6	1	60	2	57	2	26	1	12
11	80	3	3	1	34	1	40	1	11	1	11
10	53	2	1	1	9	1	18	1	1	1	10
9	36	1	1	1	10	1	13	1	0	1	9
8	20	1	0	1	2	1	6	1	0	1	8
7	8	1	0	1	2	1	1	1	0	1	7
6	0	1	0	1	0	1	0	1	0	1	6
5	1	1	0	1	0	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
Avg (SD)	21.2 (5.4)		21.7 (4.8)		22.7 (5.7)		21.7 (4.5)		22.0 (4.5)		Avg (SD)

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

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 5,960

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

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	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	180	100	38	100	181	100	280	100	197	100	23	100	35	100	18
17	175	97	35	99	300	97	268	95	343	97	54	100	28	99	17
16	246	94	303	99	330	92	521	91	283	91	142	99	211	99	16
15	345	90	368	94	463	86	571	82	406	86	193	96	352	95	15
14	280	84	459	88	394	79	554	72	471	79	608	93	540	89	14
13	425	79	580	80	561	72	372	63	477	71	526	83	821	80	13
12	499	72	822	70	674	63	530	57	679	63	746	74	628	67	12
11	569	64	735	56	560	51	644	48	517	52	775	62	801	56	11
10	799	54	822	44	724	42	519	37	641	43	1,231	49	886	43	10
9	678	41	666	30	633	30	411	29	518	33	705	28	624	28	9
8	528	30	504	19	488	19	475	22	696	24	471	16	451	17	8
7	507	21	307	11	357	11	332	14	514	12	223	8	232	10	7
6	338	12	124	5	166	5	227	8	157	4	102	4	180	6	6
5	192	7	104	3	71	2	167	4	37	1	83	3	66	3	5
4	135	3	65	2	28	1	61	1	15	1	35	1	55	2	4
3	55	1	24	1	22	1	22	1	7	1	33	1	37	1	3
2	9	1	3	1	7	1	6	1	1	1	3	1	10	1	2
1	0	1	1	1	1	1	0	1	1	1	7	1	3	1	1
Avg (SD)	10.5 (3.5)		11.0 (2.9)		11.5 (3.3)		11.8 (3.6)		11.4 (3.3)		10.8 (2.6)		11.0 (2.8)		Avg (SD)

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

Table 2.3. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	25	25	27	25	25
Q2 (50th Percentile)	21	21	22	21	22
Q1 (25th Percentile)	17	18	19	19	19

Total Students in Report: 5,960

Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	5,960	63	23.2	20.1
	African American/Black	26	42	21.5	19.3
	American Indian/Alaska Native	313	45	19.7	17.2
	Caucasian American/White	5,086	64	23.3	20.3
	Hispanic	106	52	22.2	19.1
	Asian American/Pacific Islander	72	72	24.0	20.7
	Other/No Response	357	59	23.2	19.6
National	All Students	1,480,469	70	22.0	19.1
	African American/Black	196,149	64	17.6	15.9
	American Indian/Alaska Native	15,773	59	20.1	17.4
	Caucasian American/White	941,206	73	23.0	20.1
	Hispanic	133,569	67	19.6	17.3
	Asian American/Pacific Islander	59,093	80	23.7	21.4
	Other/No Response	134,679	63	22.2	19.0

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	21.2	21.7	22.7	21.7	22.0
	African American/Black	20.2	19.5	21.5	19.8	20.3
	American Indian/Alaska Native	16.6	17.9	18.8	18.4	18.1
	Caucasian American/White	21.5	22.0	23.0	22.0	22.2
	Hispanic	20.1	20.7	21.6	20.1	20.7
	Asian American/Pacific Islander	22.2	23.1	23.3	23.2	23.1
	Other/No Response	20.9	21.5	22.6	21.4	21.7
National	All Students	20.6	21.0	21.4	20.9	21.1
	African American/Black	16.0	17.1	16.9	17.2	16.9
	American Indian/Alaska Native	17.9	18.7	19.4	19.1	18.9
	Caucasian American/White	21.9	21.9	22.6	21.9	22.2
	Hispanic	17.7	19.1	18.9	18.8	18.7
	Asian American/Pacific Islander	22.6	24.5	22.7	22.7	23.2
	Other/No Response	20.4	21.0	21.3	20.7	20.9

Total Students in Report: 5,960

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	163	3	121	2	324	5	108	2
	28 to 32	633	11	619	10	1,030	17	444	7
	24 to 27	1,085	18	1,493	25	1,097	18	1,398	23
	20 to 23	1,844	31	1,409	24	1,692	28	2,256	38
	16 to 19	1,315	22	1,903	32	1,217	20	1,304	22
	13 to 15	626	11	404	7	483	8	315	5
	01 to 12	294	5	11	0	117	2	135	2
National	33 to 36	60,269	4	45,198	3	74,801	5	26,524	2
	28 to 32	154,245	10	139,060	9	205,090	14	104,787	7
	24 to 27	251,396	17	293,477	20	226,630	15	287,693	19
	20 to 23	376,203	25	300,212	20	361,756	24	492,815	33
	16 to 19	303,385	20	495,592	33	334,831	23	367,167	25
	13 to 15	179,194	12	198,214	13	195,336	13	131,197	9
	01 to 12	155,777	11	8,716	1	82,025	6	70,286	5

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	2,735	46	20.6	22.4	22.5	22.2	22.1
	Females	3,204	54	21.7	21.2	22.8	21.3	21.9
	Missing	21	0	21.3	21.0	22.7	20.5	21.5
National	Males	668,165	45	20.2	21.6	21.3	21.4	21.3
	Females	808,097	55	20.9	20.4	21.4	20.4	20.9
	Missing	4,207	0	20.3	21.2	21.5	20.8	21.1

Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Meet All Four
		English	Mathematics	Reading	Science	
State	Males	70	53	61	37	29
	Females	77	44	64	29	23
National	Males	65	47	52	33	27
	Females	69	38	53	24	20

Total Students in Report: 5,960

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ³	Avg
State	Core or More ²	3,733	83	22.4	60	23.0	71	23.9	42	22.8	34	23.2
	Less than Core	2,036	61	19.3	30	19.7	50	20.9	18	20.0	12	20.1
	Missing	191	44	17.2	21	18.2	35	19.1	15	18.5	12	18.4
National	Core or More	1,039,502	75	21.7	50	21.9	59	22.3	34	21.7	28	22.0
	Less than Core	391,458	52	18.3	25	18.9	38	19.4	16	19.2	12	19.1
	Missing	49,509	35	15.9	16	17.5	25	17.3	10	17.6	7	17.2

¹"Curriculum Taken" reflects overall high school curriculum in this table.

²"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

³Composite CRB% results reflect students who meet all four subject-area benchmarks.

Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More	5,674	75	21.3	5,204	54	22.3	5,333	64	22.9	4,248	40	22.7
	Less than Core	134	63	19.8	576	11	17.5	468	56	21.7	1,550	14	19.5
	Missing	152	45	17.5	180	21	18.1	159	36	19.2	162	16	18.5
National	Core or More	1,367,549	70	20.9	1,334,313	46	21.4	1,287,169	55	21.7	1,206,541	32	21.5
	Less than Core	73,276	42	16.8	101,413	7	16.5	151,264	41	19.7	230,683	12	18.4
	Missing	39,644	37	16.1	44,743	17	17.5	42,036	26	17.5	43,245	11	17.7

¹"Curriculum Taken" reflects content-specific curriculum in this table.

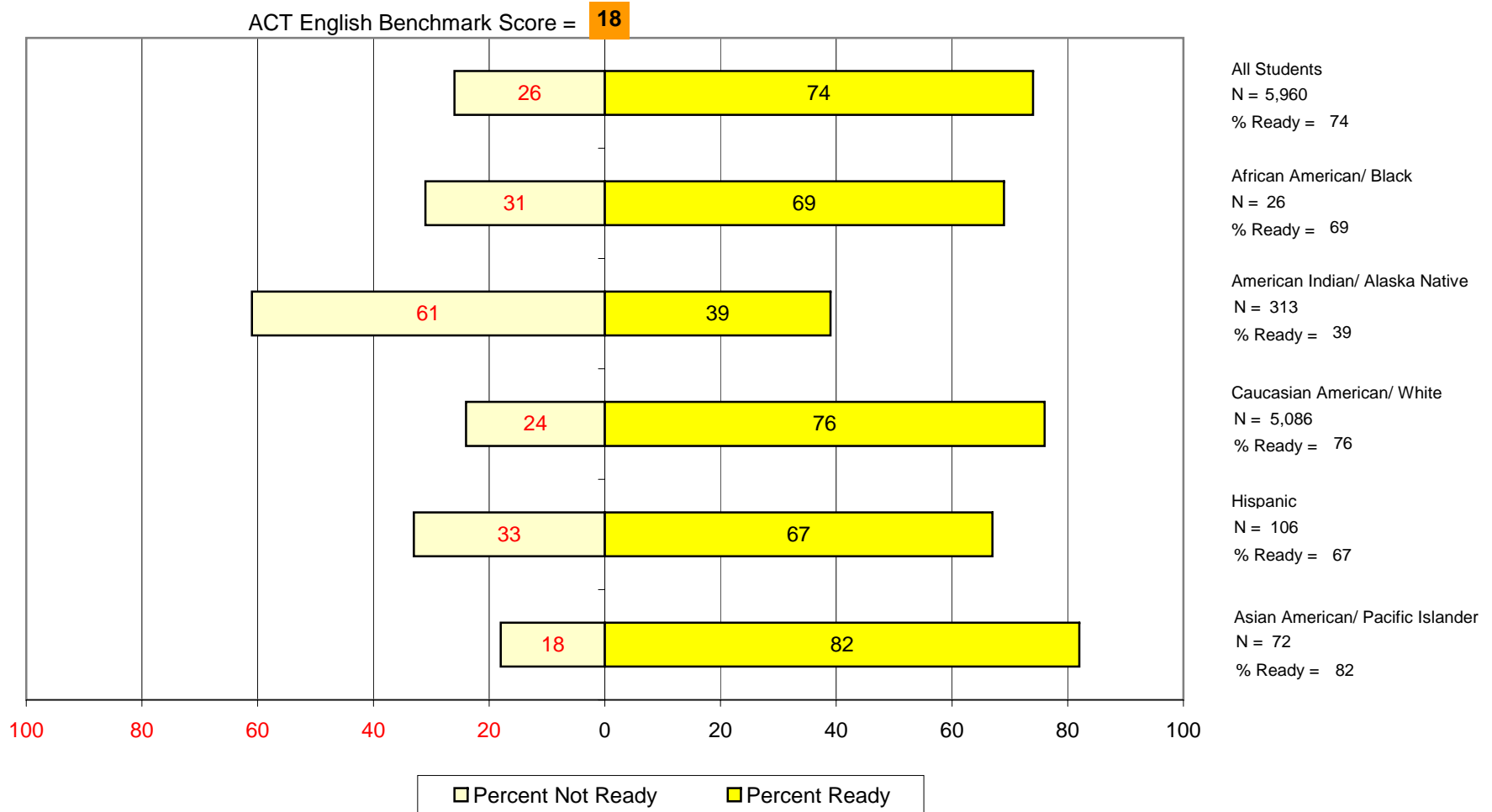
For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

Section III

College Readiness and the Impact of Course Rigor

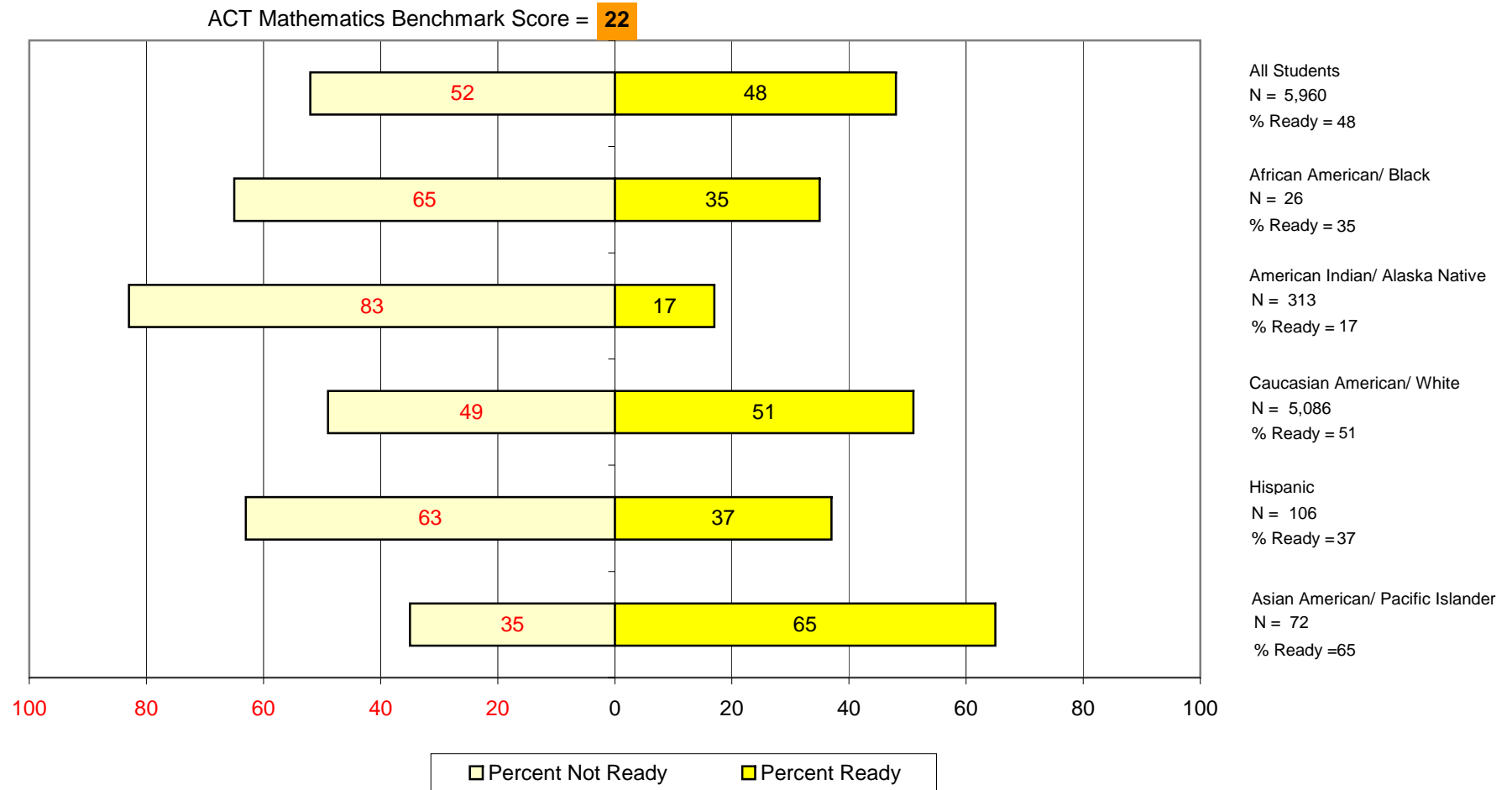
Total Students in Report: 5,960

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



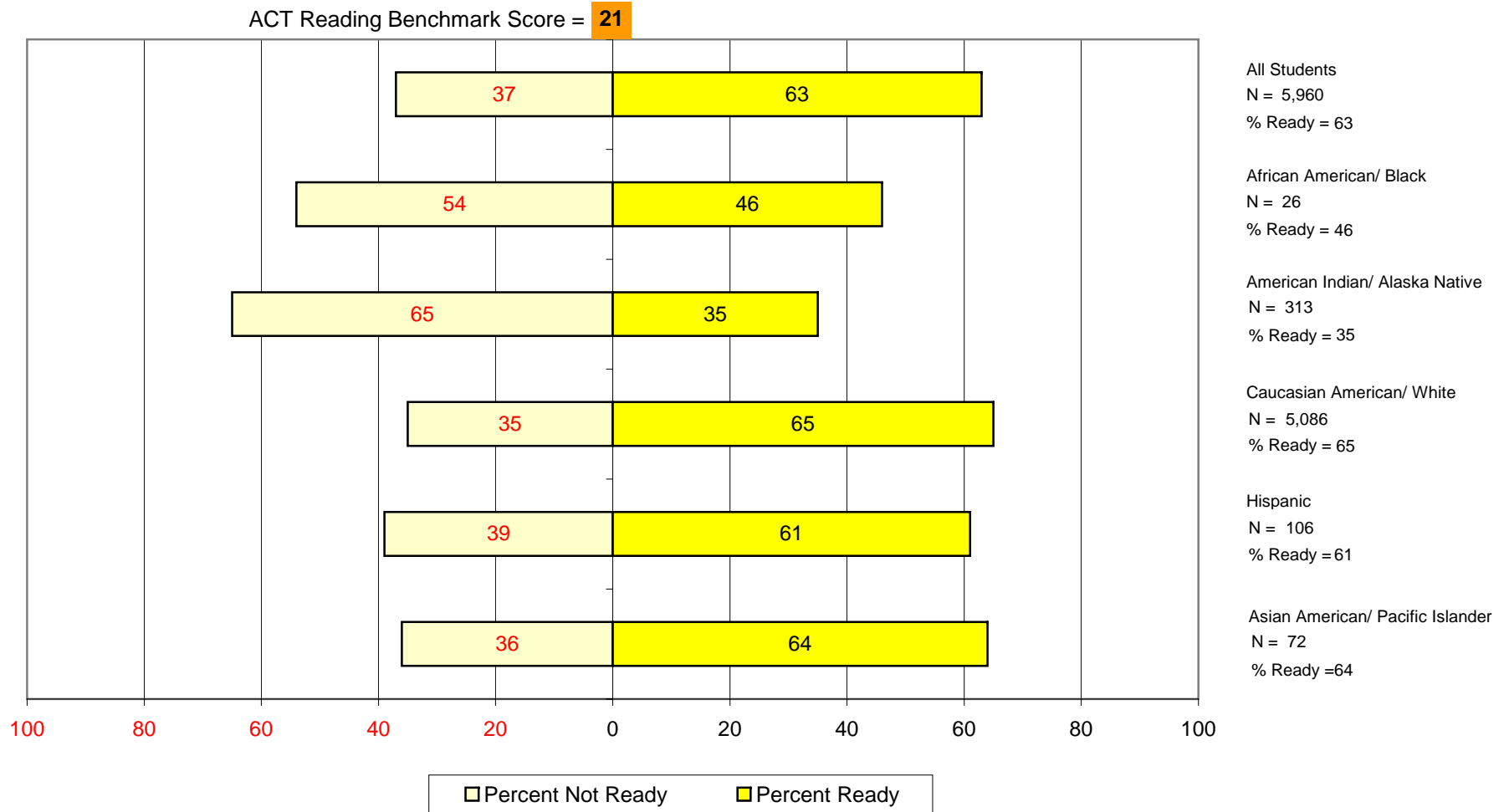
Total Students in Report: 5,960

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



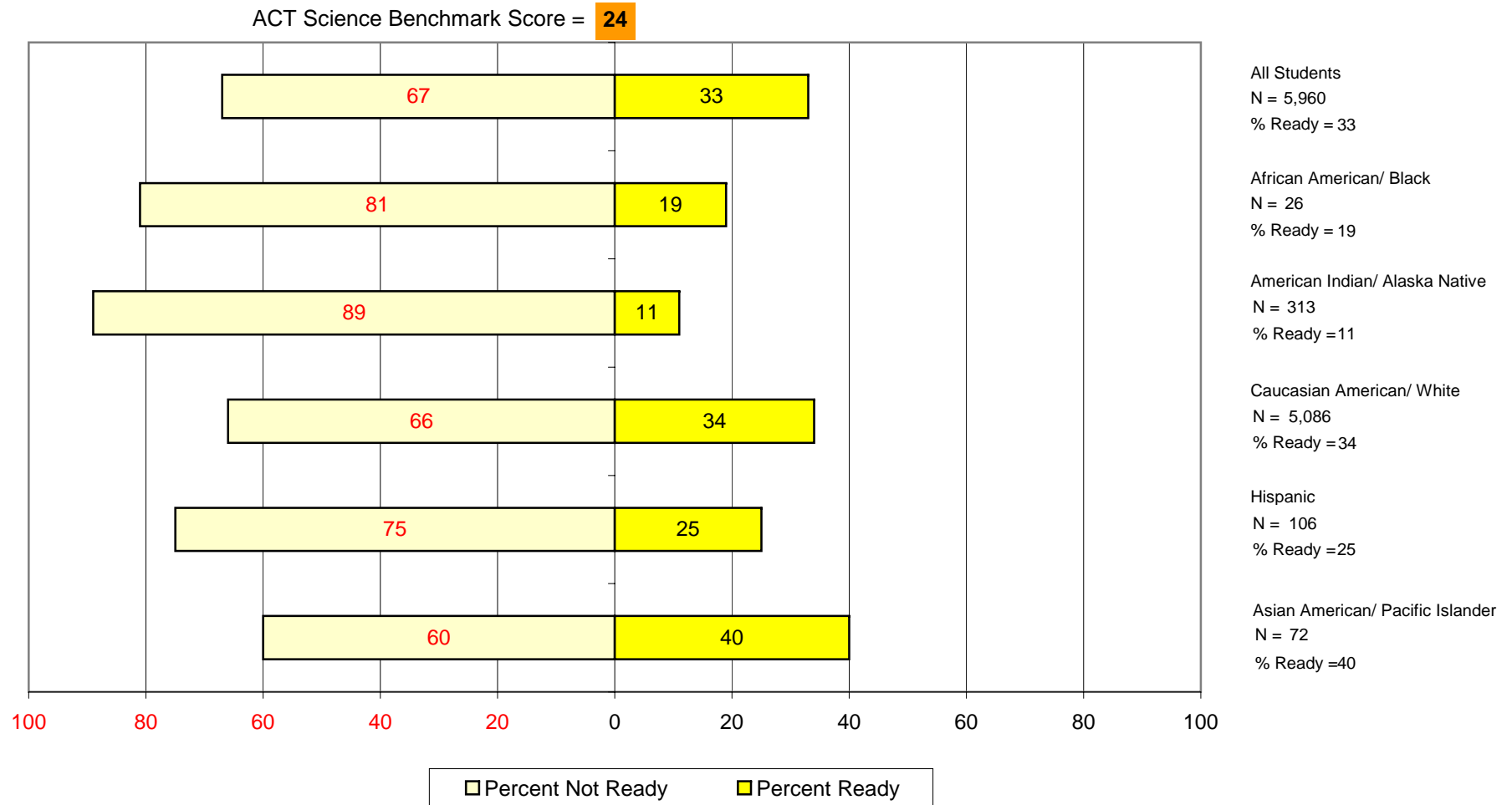
Total Students in Report: 5,960

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



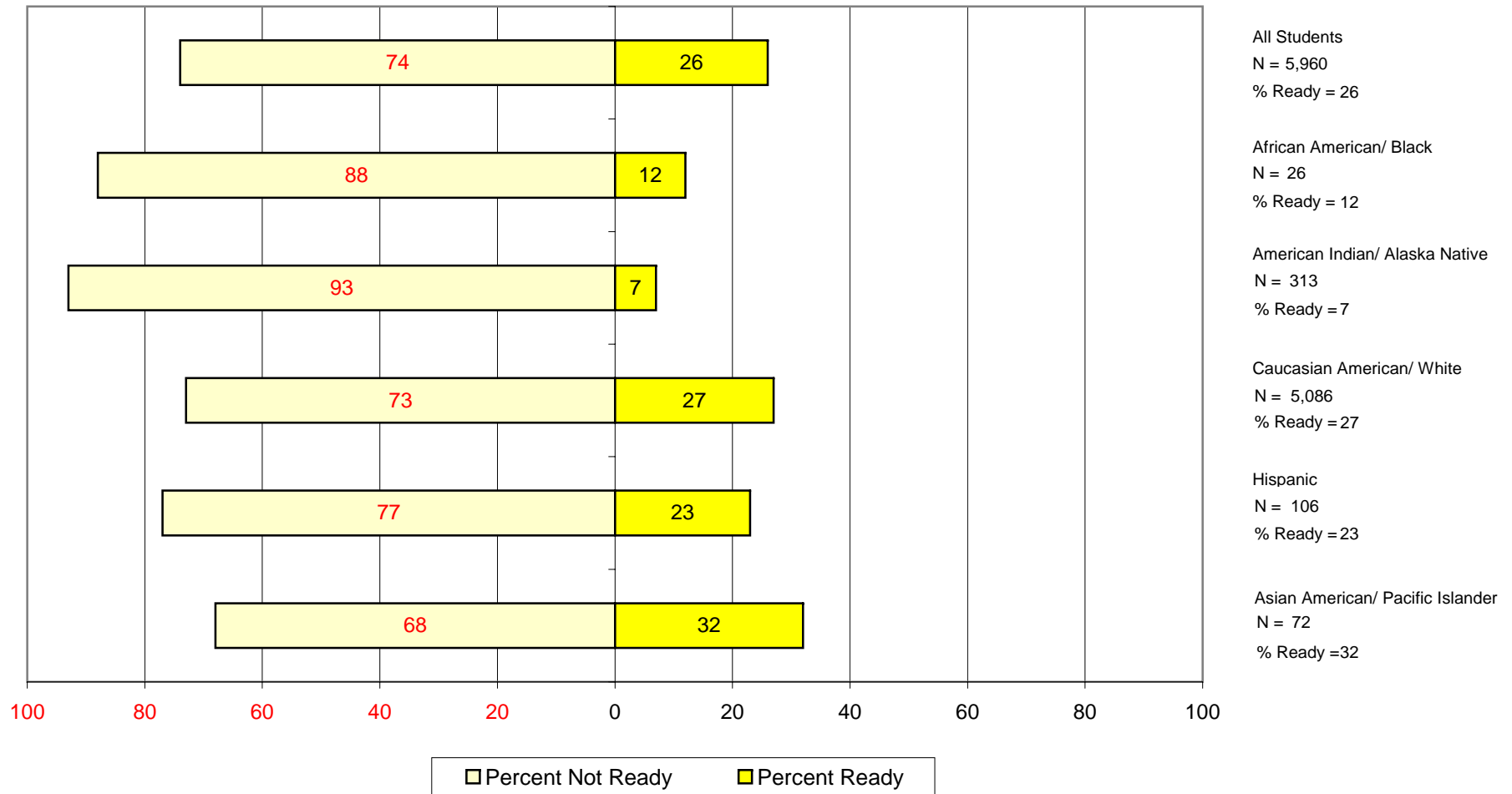
Total Students in Report: 5,960

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



Total Students in Report: 5,960

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



Total Students in Report: 5,960

Table 3.1. Average ACT Scores and Average ACT 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	1,300	22	22.3	2.5	539	20	22.0	2.8	758	24	22.6	2.2
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	4,374	73	21.0	1.2	2,056	75	20.4	1.2	2,307	72	21.6	1.2
Less than 4 years of English	136	2	19.8	-	67	2	19.2	-	67	2	20.4	-
No English course/grade information reported	150	3	17.4	-	73	3	16.2	-	72	2	18.3	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	369	6	25.4	7.9	175	6	26.3	8.7	193	6	24.6	7.3
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	583	10	23.0	5.5	220	8	23.8	6.2	362	11	22.5	5.2
Alg 1, Alg 2, Geom, & Trig	411	7	21.1	3.6	158	6	21.6	4.0	252	8	20.8	3.5
Alg 1, Alg 2, Geom, & Other Adv Math	806	14	21.7	4.2	315	12	22.0	4.4	490	15	21.4	4.1
Other comb of 4 or more years of Math	1,695	28	24.4	6.9	882	32	25.3	7.7	810	25	23.4	6.1
Alg 1, Alg 2, & Geom (Min. Core)	1,076	18	18.8	1.3	465	17	19.3	1.7	604	19	18.5	1.2
Other comb of 3 or 3.5 years of Math	264	4	20.8	3.3	128	5	21.2	3.6	135	4	20.5	3.2
Less than 3 years of Math	594	10	17.5	-	314	11	17.6	-	279	9	17.3	-
No Math course/grade information reported	162	3	18.3	-	78	3	18.2	-	79	2	18.4	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	602	10	23.0	1.3	304	11	22.6	1.1	298	9	23.3	1.4
Other comb of 4 or more years Social Science	1,771	30	23.1	1.4	812	30	23.1	1.6	953	30	23.0	1.1
US Hist, World Hist, & Am Gov (Min. Core)	1,376	23	22.3	0.6	669	24	22.1	0.6	705	22	22.4	0.5
Other comb of 3 or 3.5 years of Social Science	1,584	27	23.2	1.5	658	24	23.1	1.6	920	29	23.2	1.3
Less than 3 years of Social Science	473	8	21.7	-	219	8	21.5	-	252	8	21.9	-
No Soc Sci course/grade information reported	154	3	19.0	-	73	3	17.9	-	76	2	20.0	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	1,924	32	23.6	4.1	1,012	37	24.4	4.6	908	28	22.7	3.4
Bio, Chem, Phys	134	2	23.6	4.1	59	2	25.4	5.6	75	2	22.2	2.9
Gen Sci ² , Bio, Chem (Min. Core)	1,856	31	21.7	2.2	669	24	21.7	1.9	1,178	37	21.7	2.4
Other comb of 3 years of Natural Science	334	6	22.4	2.9	185	7	22.6	2.8	149	5	22.1	2.8
Less than 3 years of Natural Science	1,555	26	19.5	-	735	27	19.8	-	817	25	19.3	-
No Nat Sci course/grade information reported	157	3	18.4	-	75	3	18.4	-	77	2	18.5	-

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.

Total Students in Report: 5,960

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	1,300	22	22.3	81	338,118	23	22.0	76
Eng 9, Eng 10, Eng 11, Eng 12 (Min. Core)	4,374	73	21.0	73	1,029,431	70	20.6	68
Less than 4 years of English	136	2	19.8	64	74,090	5	16.7	42
No English course/grade information reported	150	3	17.4	45	38,830	3	16.1	37
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	369	6	25.4	81	92,630	6	24.5	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	583	10	23.0	63	135,244	9	22.1	56
Alg 1, Alg 2, Geom, & Trig	411	7	21.1	43	110,962	7	20.0	35
Alg 1, Alg 2, Geom, & Other Adv Math	806	14	21.7	50	220,868	15	20.1	36
Other comb of 4 or more years of Math	1,695	28	24.4	71	455,130	31	23.9	66
Alg 1, Alg 2, & Geom (Min. Core)	1,076	18	18.8	21	248,747	17	17.5	12
Other comb of 3 or 3.5 years of Math	264	4	20.8	41	70,732	5	20.1	35
Less than 3 years of Math	594	10	17.5	11	105,591	7	16.5	7
No Math course/grade information reported	162	3	18.3	22	40,565	3	17.7	18
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	602	10	23.0	64	46,754	3	22.8	61
Other comb of 4 or more years Social Science	1,771	30	23.1	67	735,636	50	22.0	57
US Hist, World Hist, & Am Gov (Min. Core)	1,376	23	22.3	61	84,543	6	20.6	47
Other comb of 3 or 3.5 years of Social Science	1,584	27	23.2	65	420,236	28	21.3	52
Less than 3 years of Social Science	473	8	21.7	56	152,775	10	19.7	40
No Soc Sci course/grade information reported	154	3	19.0	35	40,525	3	17.5	26
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	1,924	32	23.6	48	563,824	38	22.2	39
Bio, Chem, Phys	134	2	23.6	54	141,531	10	23.3	47
Gen Sci ¹ , Bio, Chem (Min. Core)	1,856	31	21.7	31	459,833	31	20.1	21
Other comb of 3 years of Natural Science	334	6	22.4	37	41,353	3	19.8	21
Less than 3 years of Natural Science	1,555	26	19.5	14	233,215	16	18.4	11
No Nat Sci course/grade information reported	157	3	18.4	15	40,713	3	17.7	11

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Total Students in Report: 5,960

Table 4.1. Distribution of Planned Educational Majors for All Students 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	179	3	19.9	37	8	18.2	132	3	20.6
Architecture & Environmental Design	147	2	22.6	8	2	20.4	132	3	22.8
Business & Management	423	7	21.2	25	5	18.6	367	7	21.3
Business & Office	43	1	19.6	4	1	17.3	35	1	19.8
Marketing & Distribution	35	1	21.0	2	0	18.5	29	1	21.1
Communications & Comm. Technologies	92	2	22.9	5	1	18.0	82	2	23.5
Community & Personal Services	117	2	19.7	24	5	18.2	86	2	20.1
Computer & Information Sciences	119	2	23.7	15	3	19.2	100	2	24.4
Cross-Disciplinary Studies	10	0	26.1	1	0	18.0	8	0	27.5
Education	261	4	21.5	3	1	19.0	248	5	21.6
Teacher Education	148	2	20.1	4	1	18.0	136	3	20.2
Engineering	318	5	24.5	14	3	18.4	295	6	24.8
Engineering-Related Technologies	245	4	23.5	20	4	20.0	218	4	23.9
Foreign Languages	36	1	24.2	3	1	18.0	32	1	25.0
Health Sciences & Allied Health Fields	1,157	19	21.9	64	13	19.3	1,049	21	22.1
Human, Family & Consumer Science	59	1	20.7	6	1	19.8	45	1	21.0
Letters	58	1	24.8	2	0	20.0	53	1	25.0
Mathematics	47	1	24.6	2	0	17.0	42	1	25.6
Philosophy, Religion & Theology	49	1	22.4	5	1	19.4	42	1	22.6
Sciences (Biological & Physical)	368	6	24.2	6	1	20.8	348	7	24.2
Social Sciences	329	6	22.7	5	1	19.6	312	6	22.8
Trade & Industrial	175	3	18.9	107	23	18.2	56	1	20.0
Visual & Performing Arts	379	6	22.1	47	10	19.7	306	6	22.6
Undecided	923	15	21.9	61	13	18.8	765	15	22.1
No Response	243	4	18.7	5	1	16.2	22	0	20.4

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

²Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 5,960

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 American/Black		American Indian/Alaska Native		Caucasian American/White		Hispanic		Asian American/Pacific Islander		Other/No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	125	18.9	0	.	3	17.3	112	18.7	4	20.0	0	.	6	22.7
2-yr College Degree	350	18.8	3	18.3	20	16.3	301	19.0	5	16.6	2	20.0	19	18.1
Bachelors Degree	2,936	21.5	10	19.7	112	18.2	2,597	21.7	47	19.6	31	23.2	139	20.6
Graduate Study	732	24.1	0	.	17	18.6	655	24.3	16	22.4	9	23.3	35	23.3
Prof. Level Degree	1,272	23.9	6	22.5	66	20.7	1,068	24.1	29	22.3	28	23.4	75	24.9
Other	167	19.6	2	14.5	9	16.0	136	20.0	1	22.0	1	22.0	18	18.3
No Response	378	20.4	5	22.4	86	16.4	217	21.5	4	21.3	1	20.0	65	21.8

Total Students in Report: 5,960

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	
MONTANA STATE UNIVERSITY-BOZEMAN	Montana	2,100	920	1,180	0	4	21	35	25	13	1	
UNIVERSITY OF MONTANA	Montana	1,948	808	1,140	0	5	24	36	23	11	0	
MONTANA STATE UNIVERSITY-BILLINGS	Montana	853	342	511	1	9	32	36	18	5	0	
MONTANA TECH OF THE UNIV OF MONTANA	Montana	533	169	364	1	4	24	34	24	12	1	
CARROLL COLLEGE	Montana	512	134	378	0	2	20	30	31	15	1	
MONTANA STATE UNIVERSITY-NORTHERN	Montana	291	101	190	2	11	38	32	12	5	0	
UNIVERSITY OF MONTANA WESTERN	Montana	281	80	201	1	7	33	38	18	3	0	
ROCKY MOUNTAIN COLLEGE	Montana	270	41	229	1	6	26	35	23	9	0	
GONZAGA UNIVERSITY	Washington	180	39	141	0	2	12	22	34	26	4	
UNIVERSITY OF WASHINGTON	Washington	168	28	140	0	4	12	26	32	24	3	
WASHINGTON STATE UNIVERSITY	Washington	166	28	138	0	1	13	33	34	20	0	
UNIVERSITY OF GREAT FALLS	Montana	147	32	115	0	5	33	44	15	3	0	
DICKINSON STATE UNIVERSITY	North Dakota	142	34	108	0	6	35	37	20	3	0	
MONTANA STATE UNIV C TECH-GREAT FALLS	Montana	133	36	97	2	10	41	35	11	2	0	
MILES COMMUNITY COLLEGE	Montana	121	30	91	2	14	42	28	10	4	0	
NCAA ELIGIBILITY CENTER	Indiana	115	56	59	0	2	18	50	18	10	3	
DAWSON COMMUNITY COLLEGE	Montana	113	45	68	3	15	41	32	9	1	0	
NORTHWEST COLLEGE	Wyoming	113	35	78	2	16	31	36	9	6	0	
UNIVERSITY OF MONTANA-HELENA C OF TECH	Montana	103	21	82	0	12	38	33	14	4	0	
UNIVERSITY OF OREGON	Oregon	103	20	83	0	3	13	31	28	24	1	
CONCORDIA COLLEGE-MOORHEAD	Minnesota	96	30	66	0	1	9	28	41	20	1	
FLATHEAD VALLEY COMMUNITY COLLEGE	Montana	85	31	54	2	11	39	28	16	4	0	
UNIVERSITY OF WYOMING	Wyoming	83	22	61	0	1	24	40	24	10	1	
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	81	41	40	0	2	19	27	32	19	1	
SEATTLE UNIVERSITY	Washington	75	11	64	0	4	11	21	40	23	1	
UNIVERSITY OF MARY	North Dakota	75	17	58	0	5	20	45	25	4	0	
BOISE STATE UNIVERSITY	Idaho	74	9	65	1	5	28	23	30	8	4	
COLORADO STATE UNIVERSITY	Colorado	74	16	58	0	0	11	42	32	15	0	
UNIVERSITY OF IDAHO	Idaho	73	11	62	0	1	14	37	29	19	0	
STANFORD UNIVERSITY	California	65	12	53	0	0	0	8	23	52	17	
All Other Institutions		3,828	944	2,884	0	4	18	28	27	20	2	
Total		13,001	4,143	8,858	0	5	23	32	24	14	1	

Section V Optional Writing Test Results

Total Students in Report: 5,960

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	3,686	814,713	21.7	21.5	7.0	7.2	20.9	20.8
African American/Black	19	96,225	20.2	16.5	7.0	6.4	19.7	16.5
American Indian/Alaska Native	201	5,489	16.7	18.9	6.3	6.7	16.6	18.5
Caucasian American/White	3,109	497,164	22.1	22.8	7.1	7.3	21.2	21.9
Hispanic	71	85,681	20.4	18.4	6.7	7.0	19.7	18.4
Asian American/Pacific Islander	55	44,716	22.4	23.5	7.2	7.6	21.5	22.8
Other/No Response	231	85,438	21.2	21.4	7.1	7.2	20.5	20.8
Males	1,592	357,025	21.1	21.1	6.7	6.9	20.1	20.3
Females	2,079	455,190	22.3	21.7	7.3	7.4	21.5	21.2
Missing	15	2,498	21.9	22.1	7.1	7.2	20.9	21.3

