

# ACT Profile Report - State

Graduating Class 2011  
Montana



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This report provides information about the performance of your 2011 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 2011 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.

Furthermore, 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. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at [www.act.org/standard/infoserv.html](http://www.act.org/standard/infoserv.html).

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

29% 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:** 6,037 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. 68% 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 7% of the cohort took less than three years of math courses. Of these students, 10% were college ready. 17% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 22% of these students were college ready. In comparison, 65% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry 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. 14% of these students were college ready. In comparison, 42% 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 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](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 303-337-3273.

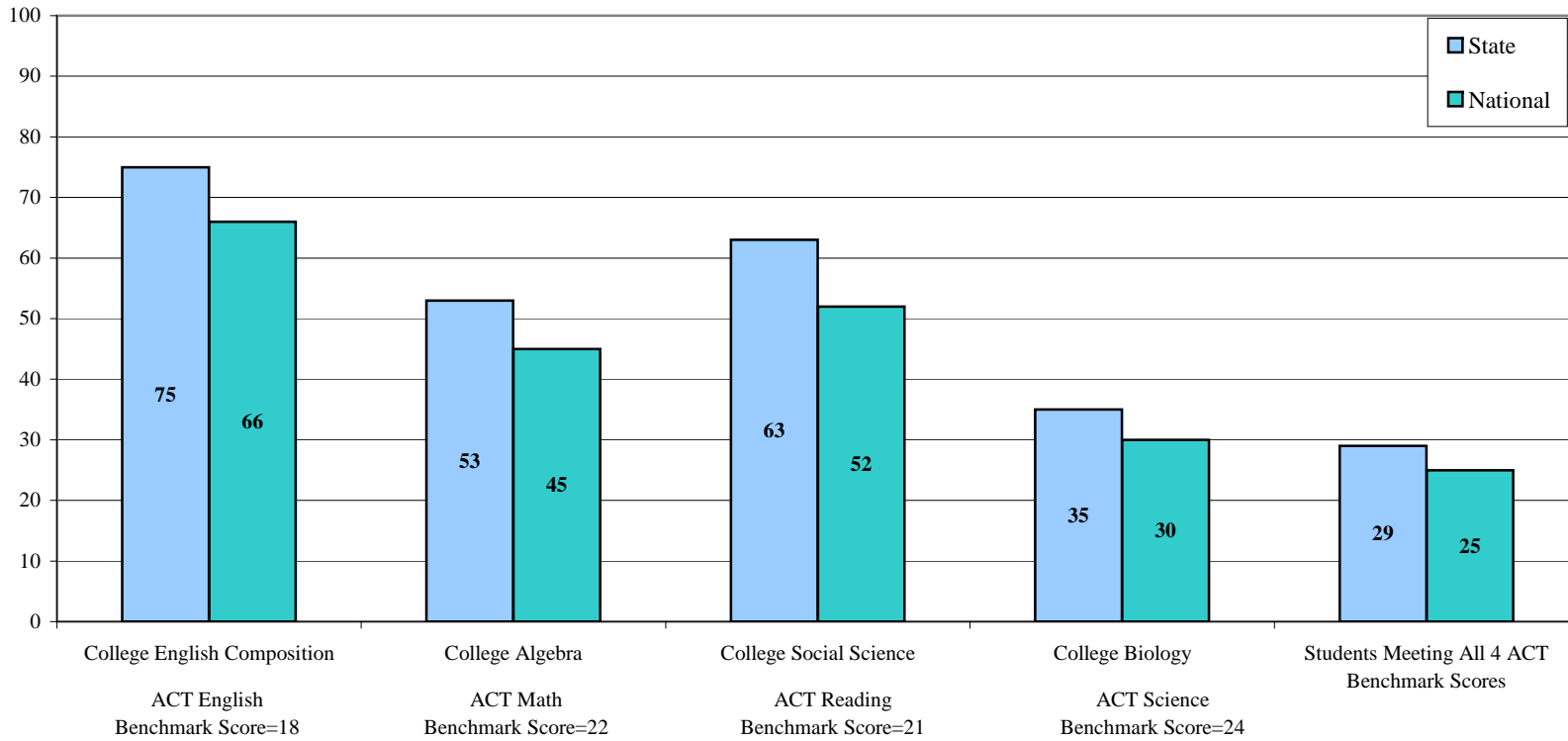
# Section I

## Executive Summary

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 6,037

**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: 6,037

**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
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
2010	6,222	1,568,835	74	66	51	43	62	52	34	29	28	24
<b>2011</b>	<b>6,037</b>	<b>1,623,112</b>	<b>75</b>	<b>66</b>	<b>53</b>	<b>45</b>	<b>63</b>	<b>52</b>	<b>35</b>	<b>30</b>	<b>29</b>	<b>25</b>

**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
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
2010	6,222	1,568,835	21.3	20.5	21.7	21.0	22.7	21.3	21.9	20.9	22.0	21.0
<b>2011</b>	<b>6,037</b>	<b>1,623,112</b>	<b>21.3</b>	<b>20.6</b>	<b>21.9</b>	<b>21.1</b>	<b>22.7</b>	<b>21.3</b>	<b>22.0</b>	<b>20.9</b>	<b>22.1</b>	<b>21.1</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
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
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
<b>2011</b>	<b>1,623,112</b>	<b>20.6</b>	<b>21.1</b>	<b>21.3</b>	<b>20.9</b>	<b>21.1</b>

Total Students in Report: 6,037

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

Year	Number of Students Tested		Percent <sup>2</sup>		Average ACT Scores									
	Core or More <sup>1</sup>	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
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
2010	4,063	2,008	65	32	22.6	19.1	23.0	19.5	23.8	20.6	23.0	20.0	23.2	19.9
<b>2011</b>	<b>4,084</b>	<b>1,833</b>	<b>68</b>	<b>30</b>	<b>22.4</b>	<b>19.3</b>	<b>23.0</b>	<b>19.7</b>	<b>23.7</b>	<b>20.8</b>	<b>23.0</b>	<b>20.1</b>	<b>23.1</b>	<b>20.1</b>

<sup>1</sup>"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.

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

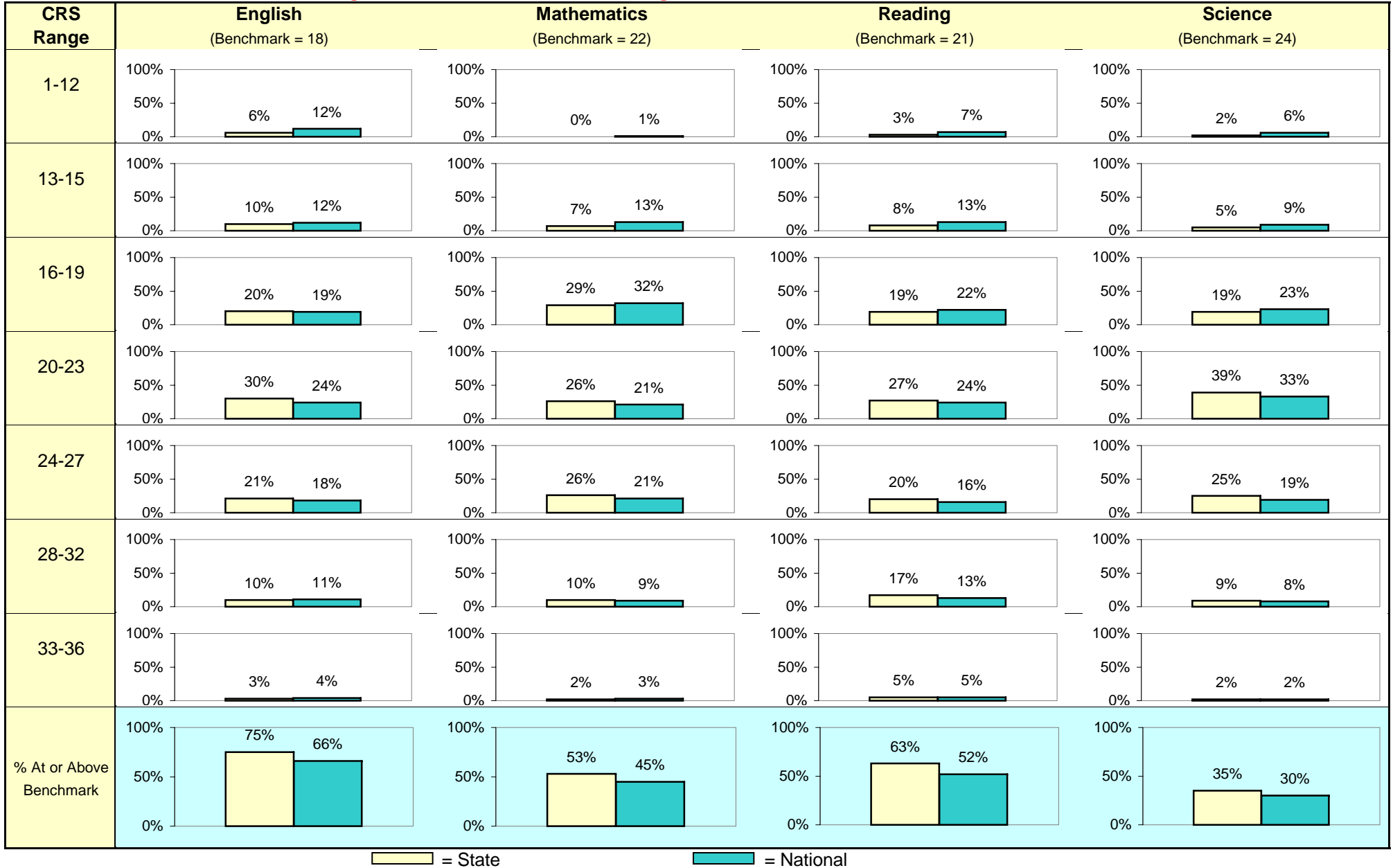
**Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity<sup>1</sup>**

	2007			2008			2009			2010			2011		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
<b>All Students</b>	<b>6,066</b>	<b>100</b>	<b>21.9</b>	<b>6,286</b>	<b>100</b>	<b>22.0</b>	<b>5,960</b>	<b>100</b>	<b>22.0</b>	<b>6,222</b>	<b>100</b>	<b>22.0</b>	<b>6,037</b>	<b>100</b>	<b>22.1</b>
Black/African American	18	0	17.3	14	0	20.9	26	0	20.3	39	1	19.1	29	0	19.2
American Indian/Alaska Native	286	5	18.1	325	5	17.7	313	5	18.1	373	6	17.8	284	5	18.0
White	4,812	79	22.1	5,241	83	22.3	5,086	85	22.2	5,290	85	22.4	5,065	84	22.4
Hispanic/Latino	94	2	20.8	92	1	20.8	106	2	20.7	124	2	21.0	195	3	20.5
Asian	66	1	22.3	82	1	22.5	72	1	23.1	83	1	22.5	56	1	22.5
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	0	0	.	10	0	19.6
Two or more races	78	1	21.4	96	2	20.9	85	1	21.6	94	2	21.3	179	3	21.2
Prefer not to respond/No response	712	12	22.2	436	7	22.4	272	5	21.8	219	4	21.7	219	4	22.5

<sup>1</sup>Refer to the section header on page 5 for a description of race/ethnicity changes.

Total Students in Report: 6,037

**Table 1.6. Percent of Students in College Readiness Standards Score Ranges**





# Section II

## Academic Achievement

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 6,037

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

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	13	100	15	100	42	100	13	100	1	100	36
35	48	100	25	100	43	99	24	100	11	100	35
34	56	99	49	99	116	99	15	99	24	100	34
33	74	98	49	99	127	97	45	99	40	99	33
32	75	97	82	98	157	95	40	98	70	99	32
31	115	96	65	96	179	92	60	98	76	98	31
30	109	94	110	95	232	89	109	97	167	96	30
29	150	92	118	93	201	85	105	95	170	94	29
28	176	89	215	92	235	82	217	93	220	91	28
27	229	86	289	88	210	78	211	90	310	87	27
26	248	83	394	83	251	74	307	86	298	82	26
25	325	79	415	77	359	70	440	81	398	77	25
24	452	73	474	70	410	64	533	74	444	70	24
23	360	66	491	62	323	58	662	65	472	63	23
22	496	60	410	54	469	52	506	54	542	55	22
21	504	52	254	47	451	44	632	46	519	46	21
20	447	43	392	43	406	37	536	35	464	38	20
19	347	36	338	36	361	30	394	26	449	30	19
18	285	30	450	31	350	24	359	20	413	23	18
17	291	25	465	23	239	18	203	14	295	16	17
16	306	20	516	16	225	15	166	10	231	11	16
15	283	15	303	7	157	11	155	8	164	7	15
14	185	11	82	2	223	8	92	5	129	4	14
13	110	8	27	1	98	4	78	4	77	2	13
12	101	6	7	1	95	3	59	2	40	1	12
11	110	4	1	1	45	1	28	1	7	1	11
10	65	2	1	1	16	1	32	1	4	1	10
9	36	1	0	1	9	1	10	1	1	1	9
8	25	1	0	1	3	1	3	1	1	1	8
7	13	1	0	1	0	1	1	1	0	1	7
6	2	1	0	1	4	1	2	1	0	1	6
5	0	1	0	1	0	1	0	1	0	1	5
4	0	1	0	1	1	1	0	1	0	1	4
3	1	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)	21.3 (5.6)		21.9 (4.8)		22.7 (5.7)		22.0 (4.5)		22.1 (4.6)		Avg (SD)

<sup>1</sup>CP 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: 6,037

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subtest Score Averages**

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		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	165	100	78	100	151	100	158	100	248	100	51	100	90	100	18
17	233	97	5	99	250	97	452	97	246	96	51	99	1	99	17
16	239	93	344	99	547	93	469	90	277	92	133	98	153	98	16
15	374	89	444	93	399	84	464	82	435	87	231	96	424	96	15
14	346	83	409	86	414	78	347	74	550	80	610	92	629	89	14
13	451	78	596	79	554	71	555	69	619	71	834	82	587	79	13
12	443	70	849	69	827	62	603	59	468	61	611	68	811	69	12
11	696	63	822	55	558	48	749	50	839	53	961	58	816	55	11
10	859	51	631	41	631	39	485	37	505	39	837	42	926	42	10
9	608	37	726	31	620	28	491	29	505	31	843	28	675	27	9
8	470	27	402	19	391	18	383	21	561	22	417	14	447	15	8
7	416	19	311	12	384	12	288	15	555	13	220	8	209	8	7
6	328	12	180	7	165	5	280	10	148	4	96	4	130	4	6
5	191	7	112	4	87	2	193	5	53	1	77	2	39	2	5
4	111	4	90	2	45	1	79	2	18	1	18	1	73	2	4
3	84	2	34	1	11	1	24	1	10	1	27	1	8	1	3
2	22	1	2	1	3	1	15	1	0	1	6	1	14	1	2
1	1	1	2	1	0	1	2	1	0	1	14	1	5	1	1
Avg (SD)	10.7 (3.5)		11.0 (3.0)		11.6 (3.3)		11.6 (3.6)		11.5 (3.3)		11.0 (2.6)		11.1 (2.7)		Avg (SD)

<sup>1</sup>CP 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	22	22	22	22
Q1 (25th Percentile)	17	18	19	19	19

Total Students in Report: 6,037

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity<sup>1</sup> by Level of Preparation**

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More <sup>2</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	<b>All Students</b>	<b>6,037</b>	<b>68</b>	<b>23.1</b>	<b>20.1</b>
	Black/African American	29	48	20.6	17.9
	American Indian/Alaska Native	284	56	18.9	16.8
	White	5,065	69	23.4	20.4
	Hispanic/Latino	195	65	21.6	18.4
	Asian	56	66	23.5	20.4
	Native Hawaiian/Other Pac. Isl.	10	50	21.6	16.3
	Two or more races	179	54	23.0	19.3
	Prefer not/No Response	219	67	23.6	20.7
National	<b>All Students</b>	<b>1,623,112</b>	<b>74</b>	<b>21.9</b>	<b>19.0</b>
	Black/African American	223,383	69	17.5	15.9
	American Indian/Alaska Native	14,970	63	19.7	17.1
	White	981,585	76	23.1	20.3
	Hispanic/Latino	200,661	72	19.4	17.2
	Asian	66,650	81	24.1	21.9
	Native Hawaiian/Other Pac. Isl.	2,244	78	20.0	17.8
	Two or more races	46,378	72	21.8	19.3
	Prefer not/No Response	87,241	65	22.1	18.7

<sup>1</sup>Refer to the section header on page 11 for a description of race/ethnicity changes.

<sup>2</sup>"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<sup>1</sup>**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	<b>All Students</b>	21.3	21.9	22.7	22.0	22.1
	Black/African American	18.4	18.6	19.9	19.8	19.2
	American Indian/Alaska Native	16.4	18.3	18.5	18.4	18.0
	White	21.7	22.2	23.0	22.3	22.4
	Hispanic/Latino	19.8	20.2	21.1	20.4	20.5
	Asian	21.0	23.3	22.5	22.4	22.5
	Native Hawaiian/Other Pac. Isl.	17.6	19.4	20.4	20.4	19.6
	Two or more races	20.3	21.0	22.2	20.8	21.2
	Prefer not/No Response	22.1	21.7	23.7	21.7	22.5
National	<b>All Students</b>	20.6	21.1	21.3	20.9	21.1
	Black/African American	15.9	17.2	17.0	17.1	17.0
	American Indian/Alaska Native	17.5	18.6	19.1	18.9	18.6
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.6	19.2	18.9	18.8	18.7
	Asian	22.8	25.1	22.9	23.1	23.6
	Native Hawaiian/Other Pac. Isl.	18.6	19.9	19.4	19.5	19.5
	Two or more races	20.7	20.7	21.6	20.9	21.1
	Prefer not/No Response	20.2	20.9	21.0	20.4	20.7

<sup>1</sup>Refer to the section header on page 11 for a description of race/ethnicity changes.



Total Students in Report: 6,037

**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	191	3	138	2	328	5	97	2
	28 to 32	625	10	590	10	1,004	17	531	9
	24 to 27	1,254	21	1,572	26	1,230	20	1,491	25
	20 to 23	1,807	30	1,547	26	1,649	27	2,336	39
	16 to 19	1,229	20	1,769	29	1,175	19	1,122	19
	13 to 15	578	10	412	7	478	8	325	5
	01 to 12	353	6	9	0	173	3	135	2
National	33 to 36	68,159	4	49,703	3	81,236	5	32,031	2
	28 to 32	174,801	11	144,331	9	211,084	13	130,969	8
	24 to 27	286,161	18	344,894	21	265,974	16	316,182	19
	20 to 23	394,076	24	332,913	21	382,505	24	530,056	33
	16 to 19	309,855	19	525,628	32	360,259	22	366,855	23
	13 to 15	201,235	12	217,338	13	214,265	13	153,754	9
	01 to 12	188,825	12	8,305	1	107,789	7	93,265	6

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

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	2,784	46	20.8	22.5	22.3	22.5	22.2
	Females	3,252	54	21.9	21.3	23.0	21.6	22.1
	Missing	1	0	16.0	21.0	18.0	20.0	19.0
National	Males	739,070	46	20.2	21.6	21.1	21.4	21.2
	Females	879,957	54	20.9	20.6	21.4	20.5	21.0
	Missing	4,085	0	16.4	17.8	17.7	17.8	17.6

**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	59	60	40	32
	Females	78	48	66	31	26
National	Males	64	49	51	34	28
	Females	69	41	53	26	22

Total Students in Report: 6,037

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

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>4</sup>	Avg
State	Core or More <sup>2</sup>	4,084	81	22.4	63	23.0	70	23.7	43	23.0	36	23.1
	Less than Core	1,833	62	19.3	33	19.7	49	20.8	19	20.1	14	20.1
	Missing <sup>3</sup>	120	38	16.1	13	17.6	30	18.1	10	17.8	4	17.6
National	Core or More	1,202,164	72	21.5	51	21.8	57	22.0	34	21.6	29	21.9
	Less than Core	366,518	51	18.3	27	19.0	38	19.3	17	19.0	13	19.0
	Missing	54,430	38	16.3	21	18.0	27	17.7	12	17.7	9	17.5

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.

<sup>2</sup> "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.

<sup>3</sup> Zero years or no coursework information reported in one or more content areas.

<sup>4</sup> Composite 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 <sup>1</sup>	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More <sup>2</sup>	5,814	75	21.5	5,481	57	22.4	5,518	64	22.8	4,547	42	22.8
	Less than Core	131	66	20.0	445	10	17.2	421	56	21.8	1,391	14	19.6
	Missing <sup>3</sup>	92	40	16.5	111	14	17.6	98	32	18.3	99	10	18.1
National	Core or More	1,510,179	68	20.9	1,494,425	47	21.4	1,424,252	54	21.6	1,367,777	33	21.4
	Less than Core	66,225	40	16.6	79,145	8	16.4	149,746	40	19.7	205,148	12	18.3
	Missing	46,708	39	16.5	49,542	21	18.1	49,114	28	17.9	50,187	13	17.8

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.

<sup>2</sup> "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

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.

<sup>3</sup> Zero years or no coursework information reported in the specified content area.

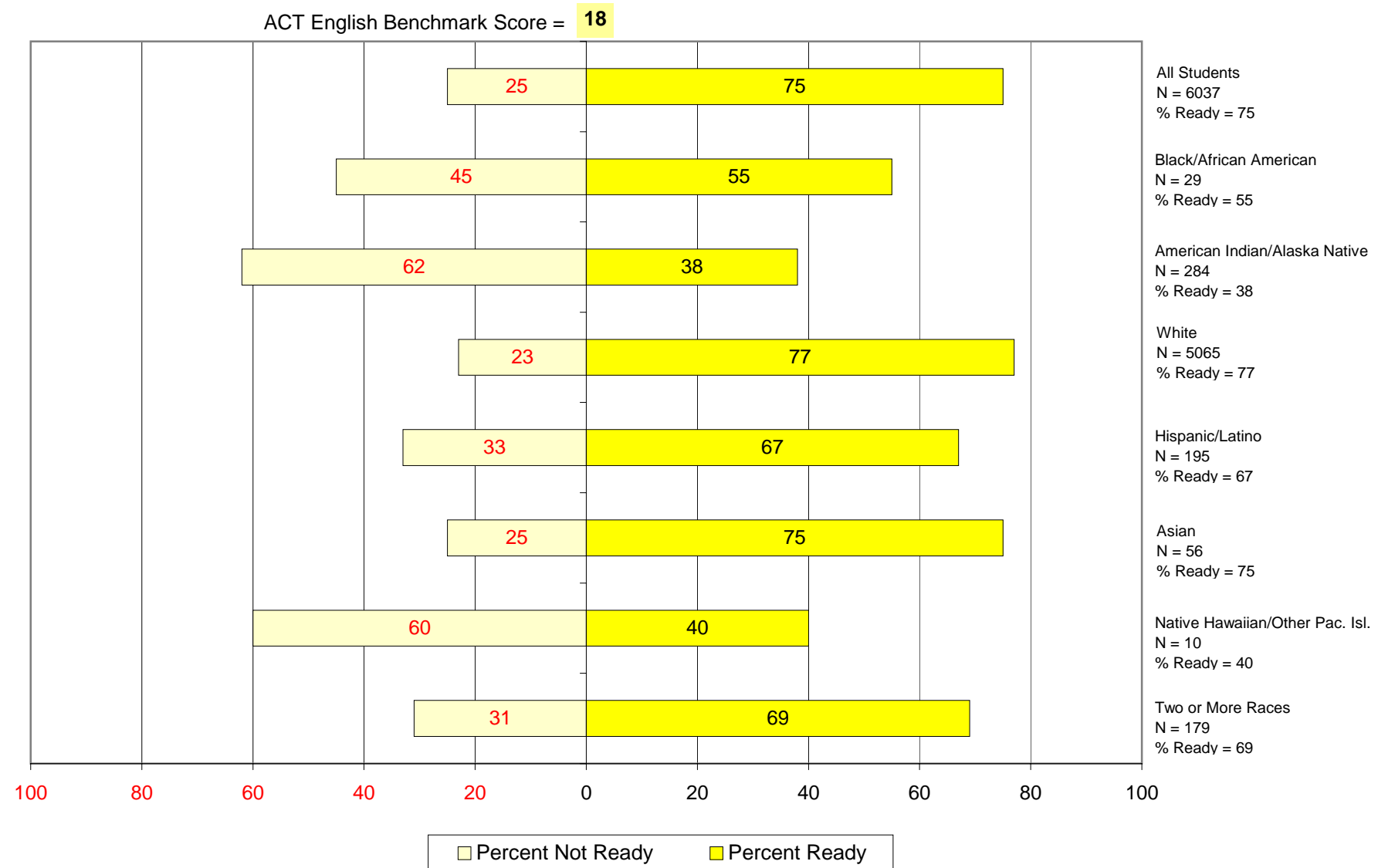
# Section III

## College Readiness and the Impact of Course Rigor

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 6,037

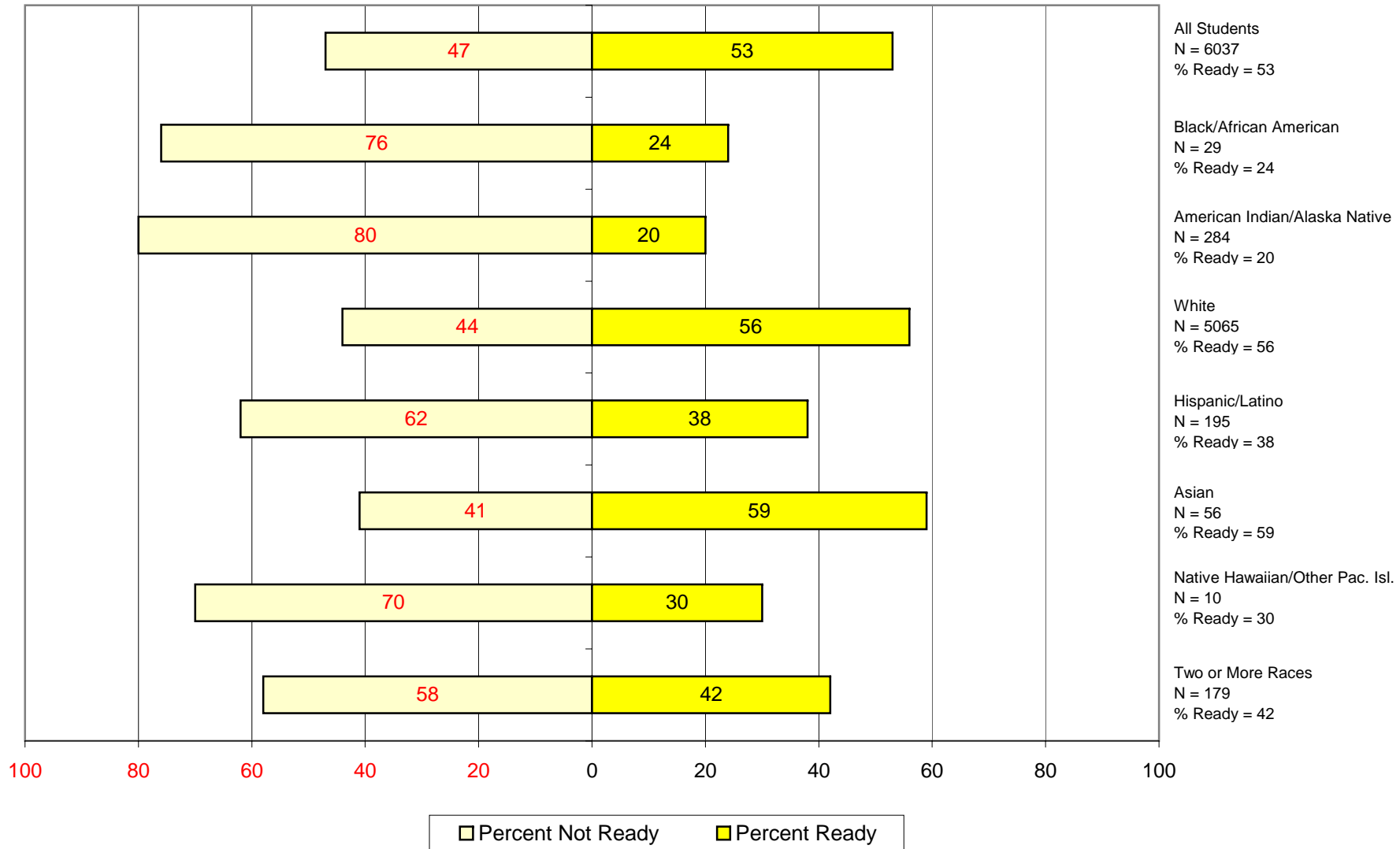
**Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ENGLISH**



<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: MATHEMATICS**

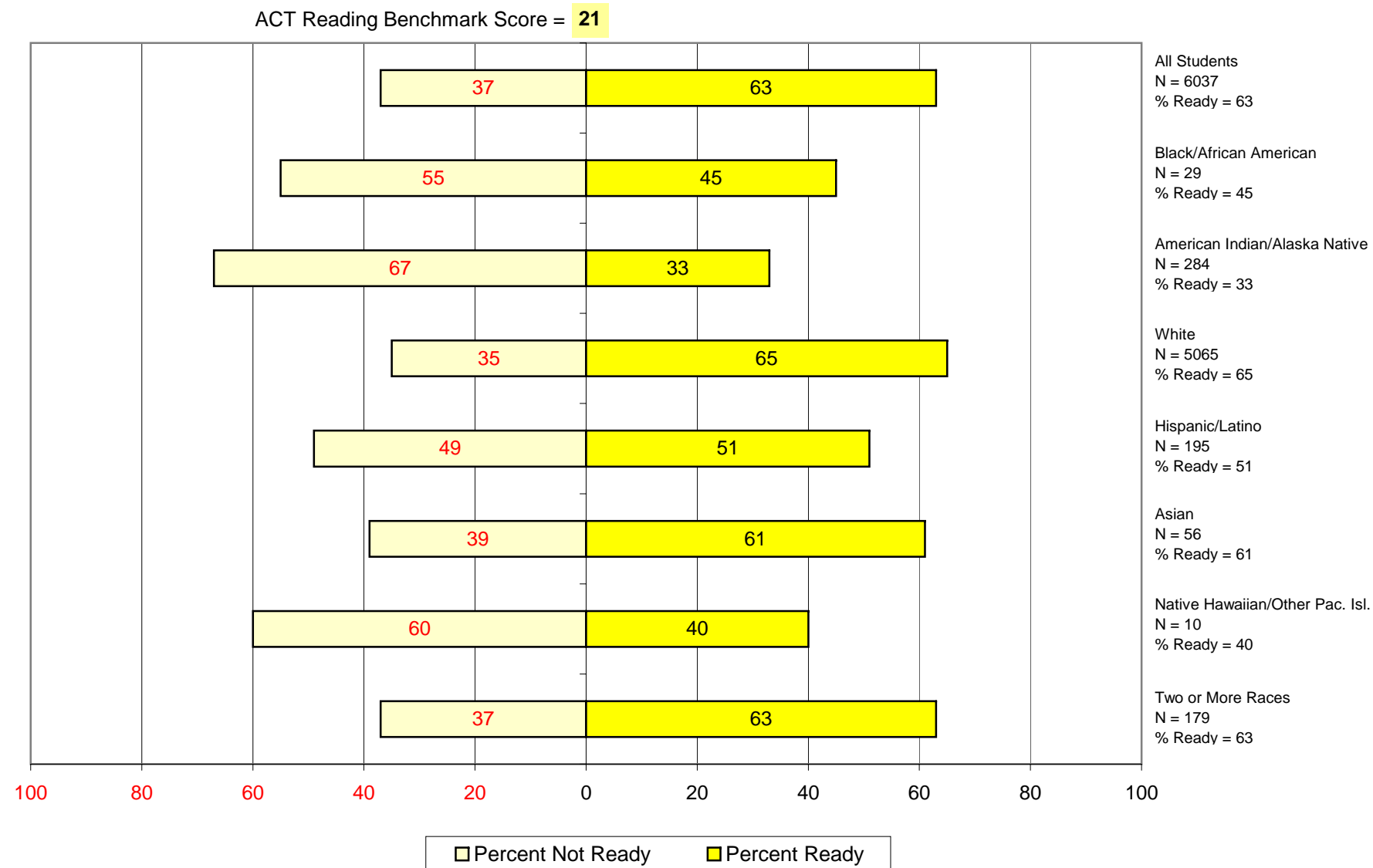
ACT Mathematics Benchmark Score = **22**



<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 6,037

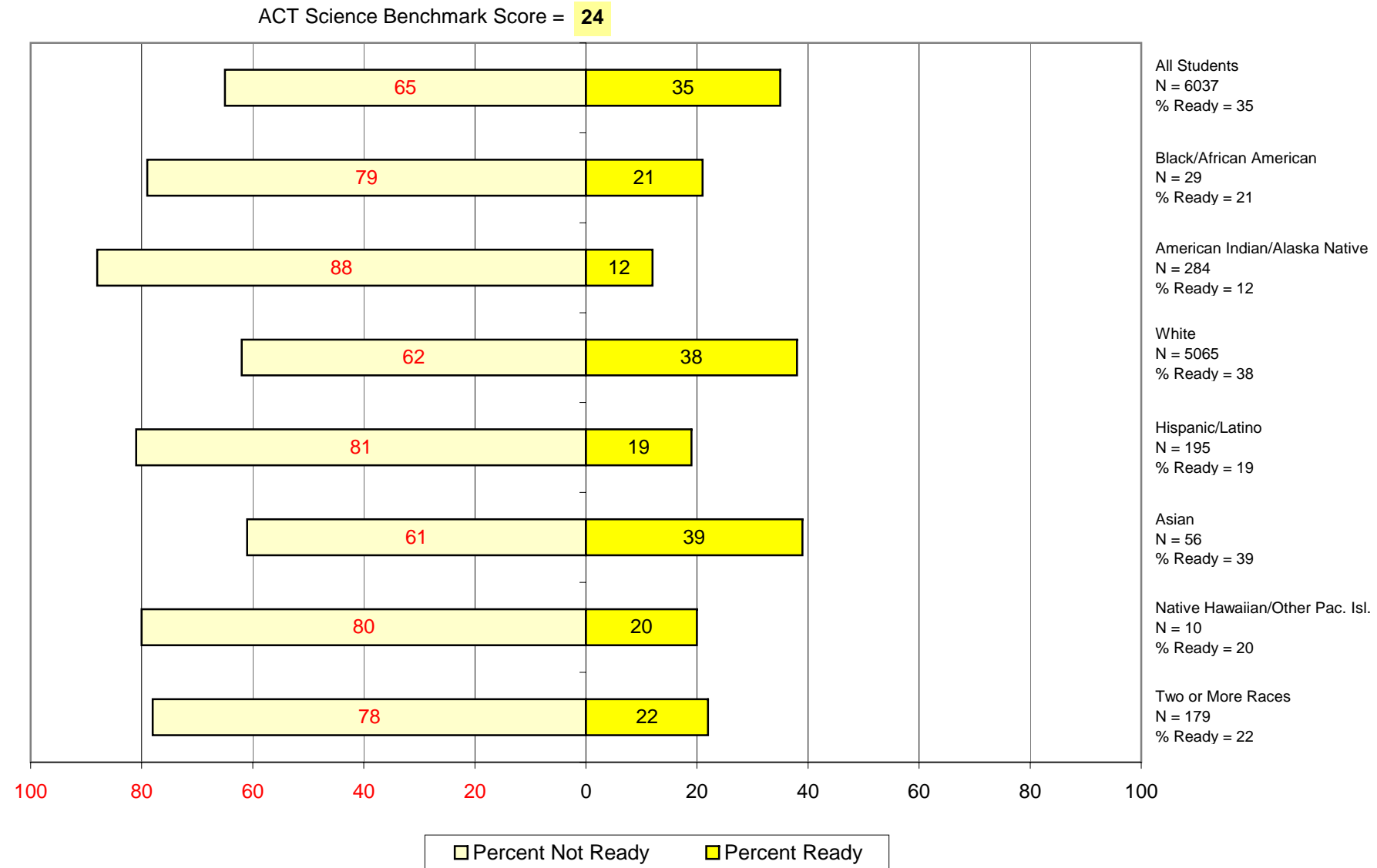
**Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: READING**



<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 6,037

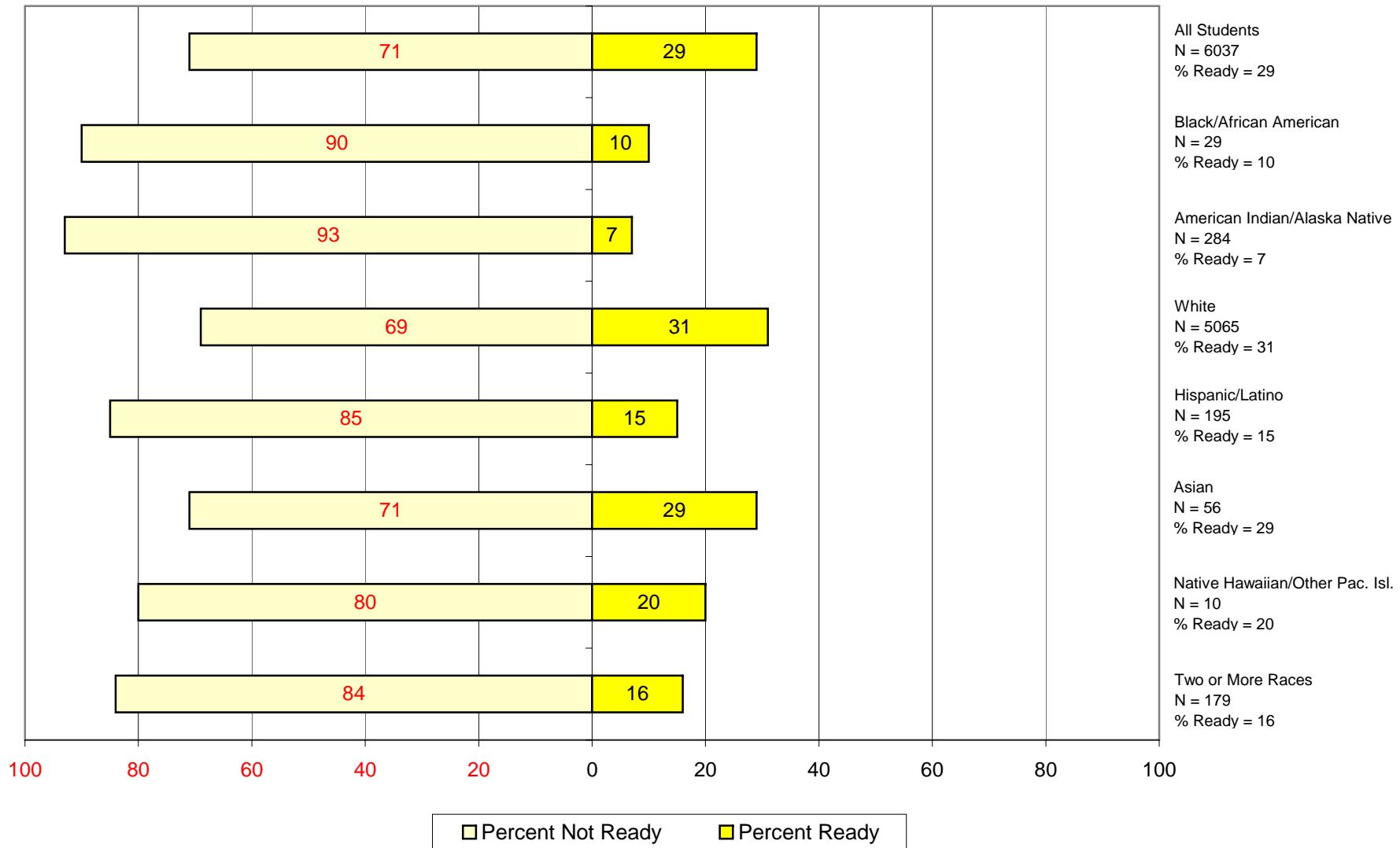
**Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: SCIENCE**



<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

Total Students in Report: 6,037

**Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ALL FOUR**



<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.



Total Students in Report: 6,037

**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 <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	1,305	22	22.3	2.3	538	19	21.9	3.7	767	24	22.5	1.2
Eng 9, Eng 10, Eng 11, Eng 12	4,509	75	21.2	1.2	2,150	77	20.6	2.4	2,359	73	21.8	0.5
Less than 4 years of English	131	2	20.0	-	55	2	18.2	-	75	2	21.3	-
Zero years / no English courses reported	92	2	16.5	-	41	1	16.3	-	51	2	16.6	-
<b>MATHEMATICS COURSE PATTERN</b>												
Alg 1, Alg 2, Geom, Trig, & Calc	404	7	25.7	8.5	205	7	26.3	8.8	199	6	25.2	8.2
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	587	10	22.6	5.4	208	7	23.3	5.8	379	12	22.3	5.3
Alg 1, Alg 2, Geom, & Trig	406	7	20.7	3.5	177	6	21.5	4.0	229	7	20.0	3.0
Alg 1, Alg 2, Geom, & Other Adv Math	979	16	21.6	4.4	376	14	22.2	4.7	603	19	21.2	4.2
Other comb of 4 or more years of Math	1,820	30	24.5	7.3	957	34	25.0	7.5	863	27	23.9	6.9
Alg 1, Alg 2, & Geom	1,024	17	18.8	1.6	472	17	19.4	1.9	551	17	18.3	1.3
Other comb of 3 or 3.5 years of Math	261	4	21.3	4.1	123	4	21.1	3.6	138	4	21.5	4.5
Less than 3 years of Math	445	7	17.2	-	216	8	17.5	-	229	7	17.0	-
Zero years / no Math courses reported	111	2	17.6	-	50	2	18.3	-	61	2	17.0	-
<b>SOCIAL SCIENCE COURSE PATTERN</b>												
US Hist, World Hist, Am Gov, & Other Hist	585	10	22.9	1.1	286	10	22.3	1.3	299	9	23.5	1.0
Other comb of 4 or more years Social Science	1,932	32	23.1	1.3	899	32	22.7	1.7	1,033	32	23.6	1.1
US Hist, World Hist, & Am Gov	1,376	23	22.6	0.8	658	24	22.5	1.5	718	22	22.7	0.2
Other comb of 3 or 3.5 years of Social Science	1,625	27	22.6	0.8	702	25	22.3	1.3	923	28	22.9	0.4
Less than 3 years of Social Science	421	7	21.8	-	193	7	21.0	-	227	7	22.5	-
Zero years / no Social Science courses reported	98	2	18.3	-	46	2	18.4	-	52	2	18.3	-
<b>NATURAL SCIENCE COURSE PATTERN</b>												
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	2,137	35	23.6	4.0	1,119	40	24.2	4.4	1,018	31	23.0	3.6
Bio, Chem, Phys	125	2	24.0	4.4	58	2	25.2	5.4	67	2	23.1	3.7
Gen Sci <sup>2</sup> , Bio, Chem	1,921	32	21.9	2.3	684	25	22.2	2.4	1,236	38	21.8	2.4
Other comb of 3 years of Natural Science	364	6	22.6	3.0	214	8	22.8	3.0	150	5	22.3	2.9
Less than 3 years of Natural Science	1,391	23	19.6	-	665	24	19.8	-	726	22	19.4	-
Zero years / no Natural Science courses reported	99	2	18.1	-	44	2	18.7	-	55	2	17.6	-

<sup>1</sup>Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

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

Total Students in Report: 6,037

**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	1,305	22	22.3	80	366,770	23	21.8	74
Eng 9, Eng 10, Eng 11, Eng 12	4,509	75	21.2	74	1,143,409	70	20.6	66
Less than 4 years of English	131	2	20.0	66	66,225	4	16.6	40
Zero years / no English courses reported	92	2	16.5	40	46,708	3	16.5	39
<b>MATHEMATICS COURSE PATTERN</b>								
	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	404	7	25.7	84	102,806	6	24.2	71
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	587	10	22.6	64	147,655	9	22.1	58
Alg 1, Alg 2, Geom, & Trig	406	7	20.7	42	115,939	7	19.7	34
Alg 1, Alg 2, Geom, & Other Adv Math	979	16	21.6	54	271,304	17	19.9	36
Other comb of 4 or more years of Math	1,820	30	24.5	75	539,241	33	23.8	66
Alg 1, Alg 2, & Geom	1,024	17	18.8	22	238,527	15	17.3	12
Other comb of 3 or 3.5 years of Math	261	4	21.3	50	78,953	5	19.9	35
Less than 3 years of Math	445	7	17.2	10	79,145	5	16.4	8
Zero years / no Math courses reported	111	2	17.6	14	49,542	3	18.1	21
<b>SOCIAL SCIENCE COURSE PATTERN</b>								
	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	585	10	22.9	62	47,284	3	22.5	59
Other comb of 4 or more years Social Science	1,932	32	23.1	67	845,170	52	21.9	56
US Hist, World Hist, & Am Gov	1,376	23	22.6	63	86,167	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	1,625	27	22.6	63	445,631	27	21.1	51
Less than 3 years of Social Science	421	7	21.8	56	149,746	9	19.7	40
Zero years / no Social Science courses reported	98	2	18.3	32	49,114	3	17.9	28
<b>NATURAL SCIENCE COURSE PATTERN</b>								
	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	2,137	35	23.6	50	686,167	42	22.1	39
Bio, Chem, Phys	125	2	24.0	54	160,020	10	23.1	46
Gen Sci <sup>1</sup> , Bio, Chem	1,921	32	21.9	32	476,294	29	20.1	21
Other comb of 3 years of Natural Science	364	6	22.6	41	45,296	3	19.6	20
Less than 3 years of Natural Science	1,391	23	19.6	14	205,148	13	18.3	12
Zero years / no Natural Science courses reported	99	2	18.1	10	50,187	3	17.8	13

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

## Career and Educational Aspirations

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Tables within this section have been changed to reflect the updated Educational Major categories implemented by ACT in the fall of 2010.

Total Students in Report: 6,037

**Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans**

Planned Educational Major <sup>1</sup>	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N <sup>2</sup>	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp
Agriculture & Natural Resources Conservation	206	3	20.6	32	7	18.7	166	3	21.0
Architecture	65	1	22.9	2	0	20.5	58	1	23.0
Area, Ethnic, & Multidisciplinary Studies	9	0	23.8	0	0	.	9	0	23.8
Arts: Visual & Performing	421	7	21.9	36	8	18.6	368	7	22.2
Business	462	8	21.2	33	8	17.9	408	8	21.6
Communications	78	1	22.9	4	1	18.5	68	1	23.5
Community, Family, & Personal Services	151	3	20.1	42	10	18.8	103	2	20.6
Computer Science & Mathematics	130	2	24.1	8	2	20.3	118	2	24.4
Education	450	7	21.4	11	3	18.0	415	8	21.5
Engineering	398	7	24.5	7	2	17.3	373	7	24.6
Engineering Technology & Drafting	206	3	23.3	13	3	17.5	180	3	23.8
English & Foreign Languages	80	1	24.4	1	0	17.0	75	1	24.4
Health Administration & Assisting	105	2	20.1	12	3	19.4	82	2	20.0
Health Sciences & Technologies	1,109	18	22.2	61	14	19.5	1,010	20	22.4
Philosophy, Religion, & Theology	43	1	22.2	0	0	.	39	1	22.6
Repair, Production, & Construction	171	3	18.4	87	20	17.5	77	1	19.4
Sciences: Biological & Physical	413	7	24.5	8	2	21.0	391	8	24.6
Social Sciences & Law	361	6	22.4	10	2	17.7	334	6	22.5
Undecided	1,037	17	22.0	63	14	18.5	843	16	22.3
No Response	142	2	18.5	7	2	18.0	28	1	21.0

<sup>1</sup>Refer to the section header on page 25 for a description of educational major changes.

<sup>2</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.

<sup>3</sup>Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 6,037

**Table 4.2. Average ACT Composite Scores for Racial/Ethnic<sup>1</sup> Groups by Post-Secondary Educational Aspirations**

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	107	17.7	1	22.0	4	13.0	91	17.9	4	16.3
2-yr College Degree	330	18.7	1	13.0	9	15.7	290	18.8	12	18.5
Bachelors Degree	3,331	21.5	19	19.4	138	18.0	2,841	21.7	95	19.7
Graduate Study	739	24.6	4	20.0	25	21.9	636	24.9	21	21.9
Prof. Level Degree	1,075	24.4	1	26.0	37	19.8	910	24.7	50	22.8
Other	110	19.9	0	.	4	14.0	95	20.3	2	18.0
No Response	345	21.1	3	16.0	67	16.5	202	22.6	11	17.9

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	107	17.7	0	.	0	.	4	16.0	3	20.3
2-yr College Degree	330	18.7	2	17.5	0	.	6	19.7	10	18.9
Bachelors Degree	3,331	21.5	29	21.5	7	19.4	109	20.6	93	21.4
Graduate Study	739	24.6	10	24.1	1	30.0	14	22.4	28	25.4
Prof. Level Degree	1,075	24.4	12	24.3	1	12.0	25	24.6	39	24.6
Other	110	19.9	2	18.5	0	.	1	18.0	6	19.8
No Response	345	21.1	1	32.0	1	18.0	20	21.4	40	22.3

<sup>1</sup>Refer to the section header on page 25 for a description of race/ethnicity changes.

Total Students in Report: 6,037

**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	2,194	928	1,266	0	4	20	35	27	13	1
UNIVERSITY OF MONTANA	Montana	1,917	858	1,059	1	6	23	36	23	11	1
MONTANA STATE UNIVERSITY-BILLINGS	Montana	844	320	524	1	8	29	35	20	7	0
MONTANA TECH OF THE UNIV OF MONTANA	Montana	530	196	334	1	4	21	33	25	15	1
CARROLL COLLEGE	Montana	418	120	298	0	3	18	31	33	14	1
ROCKY MOUNTAIN COLLEGE	Montana	327	71	256	0	5	21	39	24	11	0
UNIVERSITY OF MONTANA WESTERN	Montana	309	82	227	0	10	33	34	18	5	0
MONTANA STATE UNIVERSITY-NORTHERN	Montana	239	82	157	3	14	39	26	13	4	0
UNIVERSITY OF GREAT FALLS	Montana	166	35	131	1	10	33	37	15	5	0
UNIVERSITY OF WASHINGTON	Washington	165	36	129	1	1	7	27	34	25	5
GONZAGA UNIVERSITY	Washington	132	18	114	1	1	7	23	35	33	1
WASHINGTON STATE UNIVERSITY	Washington	129	25	104	0	2	17	33	26	20	1
MONTANA STATE UNIV C TECH-GREAT FALLS	Montana	125	43	82	0	14	38	32	14	2	0
UNIVERSITY OF OREGON	Oregon	121	19	102	1	2	11	36	31	18	2
NCAA ELIGIBILITY CENTER	Indiana	119	59	60	0	4	26	34	28	8	0
DICKINSON STATE UNIVERSITY	North Dakota	101	27	74	1	5	30	42	17	6	0
BOISE STATE UNIVERSITY	Idaho	97	15	82	0	1	11	34	43	10	0
NORTHWEST COLLEGE	Wyoming	95	29	66	1	8	27	44	14	4	1
UNIVERSITY OF MONTANA-HELENA C OF TECH	Montana	95	21	74	0	15	29	35	15	6	0
DAWSON COMMUNITY COLLEGE	Montana	93	31	62	3	14	33	33	15	1	0
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	90	40	50	1	1	14	31	37	13	2
COLORADO STATE UNIVERSITY	Colorado	87	16	71	0	0	10	28	41	21	0
MILES COMMUNITY COLLEGE	Montana	85	28	57	4	15	24	44	13	1	0
MONTANA GEAR UP	Montana	81	32	49	4	20	32	32	9	4	0
UNIVERSITY OF MARY	North Dakota	81	17	64	0	1	28	36	30	5	0
BRIGHAM YOUNG UNIVERSITY	Utah	80	37	43	0	0	10	33	40	15	3
FLATHEAD VALLEY COMMUNITY COLLEGE	Montana	79	20	59	1	10	27	38	18	6	0
OREGON STATE UNIVERSITY	Oregon	78	7	71	0	1	18	40	26	15	0
MINOT STATE UNIVERSITY	North Dakota	71	21	50	3	10	25	35	21	6	0
UNIVERSITY OF IDAHO	Idaho	71	15	56	0	0	20	28	23	28	1
All Other Institutions		3,608	883	2,725	0	4	16	28	30	19	3
<b>Total</b>		<b>12,627</b>	<b>4,131</b>	<b>8,496</b>	<b>1</b>	<b>5</b>	<b>21</b>	<b>33</b>	<b>26</b>	<b>14</b>	<b>1</b>

# Section V

## Optional Writing Test Results

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 6,037

**Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity<sup>1</sup> and Gender for students who took ACT Writing**

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
	State	National	State	National	State	National	State	National
<b>All Students</b>	<b>3,552</b>	<b>905,035</b>	<b>21.9</b>	<b>21.5</b>	<b>7.0</b>	<b>7.1</b>	<b>20.9</b>	<b>20.8</b>
Black/African American	14	112,251	20.5	16.7	7.1	6.3	20.1	16.5
American Indian/Alaska Native	175	5,519	16.6	18.4	5.9	6.5	16.1	18.0
White	2,918	522,234	22.3	23.2	7.1	7.3	21.3	22.2
Hispanic/Latino	127	128,599	19.9	18.4	6.6	6.8	19.2	18.2
Asian	42	51,829	21.3	23.8	7.0	7.6	20.5	22.9
Native Hawaiian/Other Pac. Isl.	6	1,332	19.3	19.7	6.0	7.2	18.0	19.5
Two or more races	120	27,722	21.0	21.6	6.9	7.0	20.1	20.8
Prefer not/No Response	150	55,549	22.6	21.3	6.9	7.0	21.4	20.5
Males	1,650	399,206	21.3	21.3	6.7	6.8	20.3	20.3
Females	1,902	503,699	22.4	21.8	7.2	7.3	21.5	21.1
Missing	0	2,130	.	17.6	.	6.2	.	17.1

<sup>1</sup>Refer to the section header on page 29 for a description of race/ethnicity changes.





