



2013 College-Bound Seniors

# State Profile Report



MICHIGAN

## Included in This Report

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[SAT® Data](#)

[SAT Subject Tests™ Data](#)

[Demographic and Academic Information](#)

[College Plans](#)

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**DATA EMBARGO IN EFFECT** *This report contains information on college-bound students in the class of 2013 who took the SAT® or SAT Subject Tests™ at any time during high school. **Data and other information in this report are embargoed from dissemination to the media and general public until the College Board's press conference in mid-September.** You may use the data and other information in this report for internal purposes prior to the College-Bound Seniors press conference. If you have any questions about the embargo or the College-Board national press conference, please contact the College Board communications department at [communications@collegeboard.org](mailto:communications@collegeboard.org).*

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# The SAT® Program

The SAT® (formerly known as the SAT® I: Reasoning Test) assesses student reasoning based on knowledge and skills developed by the students in their course work. The SAT Subject Tests™ (formerly known as SAT II: Subject Tests) are a series of one-hour, mostly multiple-choice tests that measure how much students know about a particular academic subject and how well they can apply that knowledge. Most students also complete the optional SAT Questionnaire (formerly known as the Student Descriptive Questionnaire) when they register to take SAT Program tests, providing valuable contextual information to aid in interpreting and understanding individual and group scores. College-Bound Seniors 2013 includes students who tested through June 2013.

## Using This Report

College-Bound Seniors presents data on high school graduates in the year 2013 who participated in the SAT Program. Students are counted only once, no matter how often they tested, and only their latest scores and most recent SAT Questionnaire responses are summarized. Because the accuracy of self-reported information has been documented and the college-bound population is relatively stable from year to year, SAT Questionnaire responses from these students can be considered highly accurate. Therefore, you can use this report to:

- Interpret scores of individual students within the broader context of data aggregated across groups of college-bound seniors.
- Study changes over time in the characteristics of students taking SAT tests.
- Look at year-to-year educational and demographic changes in this population, along with changes in test performance.

Keep in mind, however, that:

- Relationships between test scores and other factors such as educational background, gender, racial/ethnic background, parental education, and household income are complex and interdependent. These factors do not directly affect test performance; rather, they are associated with educational experiences both on tests such as the SAT and in schoolwork.
- Not all students in a high school, school district or state take the SAT. Since the population of test-takers is self-selected, using aggregate SAT scores to compare or evaluate teachers, schools, districts, states or other educational units is not valid, and the College Board strongly discourages such uses.
- Interpreting SAT scores for subgroups requires unique considerations. The most significant factor to consider in interpreting SAT scores for any group, or subgroup, of test-takers is the proportion of students taking the test. For example, if state data are being considered, it is appropriate to recognize that in some states there are lower participation rates. Typically, test-takers in these states have strong academic backgrounds and apply to the nation's most selective colleges and scholarship

programs. For these states, it is expected that the SAT mean scores reported for students will be higher than the national average.

## Statistical Definitions

The following terms are used throughout this report. For more statistical information, visit the College Board website at [www.collegeboard.org](http://www.collegeboard.org).

### Mean

The *mean* is the arithmetic average.

### Percentile

The *percentile*, also called the *percentile point*, is the point on the measurement scale below which a specified percentage of scores falls. The 25th, 50th and 75th percentile points are often reported for large data sets. The 50th percentile point is also called the *median* and, like the mean, is an average and a good indicator of the center of the distribution of scores. Comparing the 25th and 75th percentile points gives an idea of the range of scores in the populations reported in this document. Like the standard deviation, the difference between the scores associated with the 75th and 25th percentiles is an indication of the variability of the scores in a particular sample.

### Scaled score

A *scaled score* is a score that has been converted from the raw score (number of questions answered correctly minus a fraction of the incorrect answers) for reporting. The SAT Program uses the 200- to 800-point scale.

### Standard deviation (SD)

The *standard deviation* (SD) is a measure of the variability of a set of scores. If test scores cluster tightly around the mean score, as they do when the group tested is relatively homogeneous, the standard deviation is smaller than it would be with a more diverse group and a greater scatter of scores around the mean.

## About the College Board

The College Board is a mission-driven not-for-profit organization that connects students to college success and opportunity. Founded in 1900, the College Board was created to expand access to higher education. Today, the membership association is made up of over 6,000 of the world's leading educational institutions and is dedicated to promoting excellence and equity in education. Each year, the College Board helps more than seven million students prepare for a successful transition to college through programs and services in college readiness and college success — including the SAT® and the Advanced Placement Program® (AP®). The organization also serves the education community through research and advocacy on behalf of students, educators and schools. For further information, visit [www.collegeboard.org](http://www.collegeboard.org).

# Total Group Mean SAT Scores

## College-Bound Seniors, 1972–2013

<b>Year</b>	<b>Critical Reading</b>			<b>Mathematics</b>			<b>Writing</b>		
	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
1972	531	529	530	527	489	509	-	-	-
1973	523	521	523	525	489	506	-	-	-
1974	524	520	521	524	488	505	-	-	-
1975	515	509	512	518	479	498	-	-	-
1976	511	508	509	520	475	497	-	-	-
1977	509	505	507	520	474	496	-	-	-
1978	511	503	507	517	474	494	-	-	-
1979	509	501	505	516	473	493	-	-	-
1980	506	498	502	515	473	492	-	-	-
1981	508	496	502	516	473	492	-	-	-
1982	509	499	504	516	473	493	-	-	-
1983	508	498	503	516	474	494	-	-	-
1984	511	498	504	518	478	497	-	-	-
1985	514	503	509	522	480	500	-	-	-
1986	515	504	509	523	479	500	-	-	-
1987	512	502	507	523	481	501	-	-	-
1988	512	499	505	521	483	501	-	-	-
1989	510	498	504	523	482	502	-	-	-
1990	505	496	500	521	483	501	-	-	-
1991	503	495	499	520	482	500	-	-	-
1992	504	496	500	521	484	501	-	-	-
1993	504	497	500	524	484	503	-	-	-
1994	501	497	499	523	487	504	-	-	-
1995	505	502	504	525	490	506	-	-	-
1996	507	503	505	527	492	508	-	-	-
1997	507	503	505	530	494	511	-	-	-
1998	509	502	505	531	496	512	-	-	-
1999	509	502	505	531	495	511	-	-	-
2000	507	504	505	533	498	514	-	-	-
2001	509	502	506	533	498	514	-	-	-
2002	507	502	504	534	500	516	-	-	-
2003	512	503	507	537	503	519	-	-	-
2004	512	504	508	537	501	518	-	-	-
2005	513	505	508	538	504	520	-	-	-
2006	505	502	503	536	502	518	491	502	497
2007	503	500	501	532	499	514	487	499	493
2008	502	499	500	532	499	514	486	499	493
2009	502	497	499	533	498	514	485	498	492
2010	502	498	500	533	499	515	485	497	491
2011	500	495	497	531	500	514	482	496	489
2012	498	493	496	532	499	514	481	494	488
2013	499	494	496	531	499	514	482	493	488

Note: For 1972–1986 a formula was applied to the original mean and standard deviation to convert the mean to the recentered scale. For 1987–1995 individual student scores were converted to the recentered scale and then the mean was recomputed. From 1996–1999, nearly all students received scores on the recentered scale. Any score on the original scale was converted to the recentered scale prior to computing the mean. From 2000–2013, all scores are reported on the recentered scale. Cohort data presented prior to 2007 include students testing through March of the senior year, while cohort data from 2007 to present include students testing through June. For further information see [www.collegeboard.org/cbs](http://www.collegeboard.org/cbs).

# Table of Contents

## SAT®

SAT Data	Page 1
----------	--------

---

Table 1: Overall Mean Scores
Table 2: Mean Scores by Gender
Table 3: Year in Which Seniors Last Took the SAT
Table 4: Mean Scores for Total Group
Table 5: Percentiles for State and Total Group
Table 6: Score Distributions
Table 7: Type of High School

## Demographic Information

SAT: Mean Scores by Gender Within Ethnicity	Page 3
---	--------

---

Table 9: Total Mean Scores by Ethnicity
Table 10: Male Mean Scores by Ethnicity
Table 11: Female Mean Scores by Ethnicity

SAT: Student Background Information and Characteristics	Page 4
---	--------

---

Table 12: Student Background Information and Characteristics
--

## Academic Information

Academic Record	Page 5
-----------------	--------

---

Table 13: High School Rank
Table 14: High School Grade Point Average
Table 15: Average Years of Study in Six Academic Subjects

Course-Taking Patterns	Page 6
------------------------	--------

---

Table 16: English and Language Arts, Mathematics
Table 17: Natural Sciences, Social Sciences and History
Table 18: Foreign and Classical Languages
Table 19: Arts and Music, Computers

## SAT Subject Tests™

SAT Subject Tests Data	Page 10
------------------------	---------

---

Table 20: Number of Test-Takers and Tests for SAT Subject Tests
Table 21: Mean Scores for SAT Subject Test Takers and for Students Who Also Took the SAT

SAT Subject Tests Score Distributions	Page 11
---------------------------------------	---------

---

Table 22: English, History and Social Studies
Table 23: Mathematics, Science
Table 24: Foreign and Classical Languages
Table 25: Foreign and Classical Languages (continued)

## College Plans

Intended College Major, Degree-Level Goal	Page 13
---	---------

---

Table 26: Intended College Major, Degree-Level Goal
---

Institutions That Received the Most SAT® Program Score Reports from Your Students	Page 14
---	---------

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Table 27: Institutions That Received the Most SAT Program Score Reports from Your Students
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## SAT® Data

Data in this report are for high school graduates in the year 2013. Information is summarized for seniors who took the SAT at any time during their high school years through June 2013. If a student took the test more than once, the most recent score is used.

Table 1: Overall Mean Scores

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing *		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total	4,300	590	113	610	110	582	110	58.5	11.3	7.8	1.4

Table 2: Mean Scores by Gender

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Male	1,995	592	115	631	109	578	111	58.2	11.4	7.7	1.5
Female	2,305	588	111	592	108	585	109	58.7	11.3	7.9	1.3

Table 3: Year in Which Seniors Last Took the SAT

Scores are from the last administration in which seniors took the SAT.

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Senior (2012-2013)	1,843	576	124	596	113	567	117	57.0	12.0	7.6	1.5
Junior (2011-2012)	2,370	603	102	623	105	596	102	59.9	10.5	8.0	1.3
Sophomore (2010-2011)	60	558	115	586	117	529	120	53.3	12.0	7.5	1.5
Freshman (2009-2010)	27	487	103	526	107	480	73	48.3	7.5	7.2	1.2
Total	4,300	590	113	610	110	582	110	58.5	11.3	7.8	1.4

Table 4: Mean Scores for Total Group

Mean scores for the total group may serve as points of reference when evaluating mean scores for the state.

SAT	Test-Takers Number	Critical Reading		Mathematics		Writing		Writing Subscores			
		Mean	SD	Mean	SD	Mean	SD	Multiple Choice		Essay	
								Mean	SD	Mean	SD
Total Group	1,660,047	496	115	514	118	488	114	49.0	11.5	7.1	1.6

\*Writing data are based on students who took the current version of the SAT, first administered in March 2005. All students in the 2013 cohort took the SAT writing section. The writing section contains one essay (30 percent of the total score) and 49 multiple-choice questions (70 percent of the total score). Essay scores range from 2-12, with a very small percentage of students (less than 0.3 percent) receiving scores of 0 on the essay, for essays written completely off topic. Multiple-choice scores range from 20 to 80.

## SAT Data

### Table 5: Percentiles for State and Total Group

A percentile represents the point below which a percentage of scores fall. Comparing the 25th percentile point to the 75th percentile point gives an idea of the range of performance in a group.

SAT Percentile	State			Total Group		
	Critical Reading	Mathematics	Writing	Critical Reading	Mathematics	Writing
75th	670	690	660	570	600	560
50th	600	620	590	490	510	480
25th	520	530	510	420	430	410

### Table 6: Score Distributions

The score ranges in the following table reflect SAT Skills Insight™, a resource that identifies skills demonstrated by typical students who score in each range. For more information and resources for educators and students, please visit [www.collegeboard.org/sat-skills](http://www.collegeboard.org/sat-skills).

SAT Score Range	Critical Reading			Mathematics			Writing		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
700–800	391	432	823	624	405	1,029	290	364	654
600-690	646	710	1,356	687	768	1,455	606	740	1,346
500-590	557	705	1,262	445	672	1,117	642	713	1,355
400-490	294	346	640	188	389	577	355	380	735
300-390	86	97	183	43	64	107	82	94	176
200-290	21	15	36	8	7	15	20	14	34

### Table 7: Type of High School

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Public	2,971	74	46	54	594	618	585
Religiously Affiliated	476	12	46	54	570	610	572
Independent	557	14	47	53	598	599	589
Other or Unknown	296		45	55	569	558	551

### Table 8: Test-Taking Conditions

\*Nonstandard conditions\* reflect test-takers who received an accommodation. \*Disabling conditions\* are self-reported student responses.

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
Disabling Conditions	154	4	545	129	553	121	526	118
Nonstandard Conditions	64	1	570	116	572	120	558	107

## Demographic Information

SAT: Mean Scores by Gender Within Ethnicity

Table 9: Total Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	18	0	601		579		577	
Asian, Asian American, or Pacific Islander	916	21	585	135	680	93	597	130
Black or African American	337	8	519	119	509	107	505	109
Mexican or Mexican American	49	1	557	81	568	83	550	92
Puerto Rican	8	0	550		496		524	
Other Hispanic, Latino, or Latin American	70	2	606	99	576	105	583	108
White	2,622	61	601	101	602	103	587	99
Other	140	3	610	107	625	97	600	105
No Response	140	3	583	114	582	102	565	108
Total	4,300	100	590	113	610	110	582	110

Table 10: Male Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	10	0	623		603		608	
Asian, Asian American, or Pacific Islander	457	11	582	132	692	91	594	126
Black or African American	143	3	517	133	522	117	500	120
Mexican or Mexican American	23	1	567		609		550	
Puerto Rican	2	0						
Other Hispanic, Latino, or Latin American	24	1	634		608		583	
White	1,207	28	604	102	625	101	581	99
Other	54	1	616	112	642	111	592	121
No Response	75	2	589	121	594	107	561	118
Total	1,995	46	592	115	631	109	578	111

Table 11: Female Mean Scores by Ethnicity

SAT Test-Takers Who Described Themselves As:	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
American Indian or Alaska Native	8	0	574		550		538	
Asian, Asian American, or Pacific Islander	459	11	587	137	668	94	601	132
Black or African American	194	5	520	108	500	98	508	100
Mexican or Mexican American	26	1	549	76	531	67	550	99
Puerto Rican	6	0	555		485		525	
Other Hispanic, Latino, or Latin American	46	1	592	91	560	103	583	95
White	1,415	33	599	101	583	100	592	98
Other	86	2	606	103	614	84	606	94
No Response	65	2	575	106	567	95	568	95
Total	2,305	54	588	111	592	108	585	109

## Demographic Information

### SAT: Student Background Information and Characteristics

**Table 12: Student Background Information and Characteristics**

Student demographic information provides a broader context to aid in interpreting and understanding individual and group scores.

SAT	Test-Takers		Critical Reading		Mathematics		Writing	
	Number	Pct	Mean	SD	Mean	SD	Mean	SD
All Test-Takers	4,300	100	590	113	610	110	582	110
<b>First Language Learned</b>								
English	3,106	75	595	106	596	107	581	103
English and Another	542	13	601	117	644	113	605	116
Another Language	482	12	535	137	654	103	552	133
No Response	170		617	110	640	108	603	114
<b>Citizenship</b>								
U.S. Citizen / U.S. National	3,665	90	600	106	606	109	588	105
U.S. Permanent Resident or Refugee	131	3	598	118	643	111	604	116
Citizen of Another Country	264	7	478	127	644	101	505	128
Other, Unknown, or No Response	240		560	132	620	116	563	124
<b>Plans to Apply for Financial Aid</b>								
Yes	2,632	71	591	112	602	110	579	109
No	345	9	582	110	622	112	584	107
Don't Know	706	19	583	119	622	110	578	114
No Response	617		600	112	626	105	595	109
<b>Family Income</b>								
\$0 - \$20,000	103	5	491	112	554	108	490	121
\$20,000–\$40,000	213	9	549	120	569	120	539	112
\$40,000–\$60,000	257	11	562	117	576	107	544	108
\$60,000–\$80,000	294	13	569	120	584	114	559	116
\$80,000–\$100,000	289	13	578	106	593	102	567	101
\$100,000–\$120,000	322	14	590	106	605	110	585	107
\$120,000–\$140,000	164	7	615	106	623	98	601	102
\$140,000–\$160,000	144	6	587	106	600	109	571	94
\$160,000–\$200,000	163	7	618	99	641	100	611	103
More than \$200,000	331	15	608	103	626	104	602	107
No Response	2,020		601	112	624	108	594	107
<b>Highest Level of Parental Education</b>								
No High School Diploma	27	1	461	131	579	123	472	140
High School Diploma	387	9	526	118	555	114	516	108
Associate Degree	176	4	542	105	555	108	530	96
Bachelor's Degree	1,468	36	576	110	600	106	566	103
Graduate Degree	2,029	50	622	103	638	103	615	104
No Response	213		551	120	575	108	545	109
<b>Took the PSAT/NMSQT®</b>								
Yes, As a Junior	1,523	39	602	108	617	106	596	104
Yes, As a Sophomore or Younger	624	16	577	101	595	106	566	101
Yes, As a Junior and As a Sophomore or Younger	916	24	638	97	648	99	625	101
No	808	21	528	115	564	114	520	105
No Response	429		582	118	615	110	576	113

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.



## Academic Information

### Academic Record

Table 13: High School Rank

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Highest Tenth	1,342	63	49	51	635	660	629
Second Tenth	487	23	44	56	554	578	544
Second Fifth	197	9	49	51	528	550	518
Final Three Fifths	119	6	55	45	465	501	452
No Response	2,155		44	56	583	598	573

Table 14: High School Grade Point Average

SAT	Test-Takers		Percent by Gender		Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
A+ (97–100)	806	20	46	54	649	672	647
A (93–96)	1,559	39	42	58	615	635	608
A- (90–92)	814	20	47	53	565	591	555
B (80–89)	735	18	53	47	516	534	504
C (70–79)	80	2	68	33	468	462	450
D, E, or F (below 70)	7	0	43	57	536	536	493
No Response	299		52	48	583	600	570
<b>Mean Grade Point Average</b>	<b>All Students: 3.80</b>		<b>Male: 3.75</b>		<b>Female: 3.84</b>		

Table 15: Average Years of Study in Six Academic Subjects

SAT	Average Years of Study			Grade Point Average: Each Subject		
	Male	Female	Total	Male	Female	Total
Arts and Music	2.4	2.9	2.7	3.89	3.95	3.92
English and Language Arts	4.1	4.1	4.1	3.69	3.84	3.77
Foreign and Classical Languages	3.1	3.3	3.2	3.69	3.82	3.76
Mathematics	4.2	4.2	4.2	3.68	3.66	3.67
Natural Sciences	3.9	3.8	3.9	3.71	3.71	3.71
Social Sciences and History	3.7	3.7	3.7	3.74	3.80	3.77
<b>Total for All Subjects</b>	<b>21.4</b>	<b>22.0</b>	<b>21.8</b>			

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

### Course-Taking Patterns

Table 16: English, Mathematics

<b>English and Language Arts</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	716	20	43	57	605	624	598	
4 Years	2,509	71	45	55	596	610	585	
3 Years	229	6	50	50	530	565	526	
2 Years	46	1	59	41	522	605	529	
1 Year	20	1	30	70	511	552	524	
1/2 Year or Less	20	1	45	55	521	590	473	
No Response	760		52	48	584	615	580	
AP®/Honors Courses	2,003	57	41	59	630	636	620	
<b>Course Work or Experience</b>								
English/Language Arts	3,175	96	44	56	594	609	584	
Journalism	388	12	33	67	583	587	576	
Creative Writing	896	27	38	62	581	583	569	
American Literature	2,321	70	44	56	597	610	587	
Composition/Writing	1,831	55	42	58	589	600	579	
British Literature	1,008	30	42	58	603	607	590	
World Literature	1,409	42	42	58	601	613	591	
Communications	410	12	43	57	569	588	563	
Public Speaking	1,000	30	42	58	592	601	582	
English As Second Language	219	7	42	58	484	622	501	

<b>Mathematics</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	1,147	32	49	51	615	651	607	
4 Years	2,048	58	43	57	587	595	576	
3 Years	265	7	42	58	544	546	540	
2 Years	39	1	51	49	503	564	497	
1 Year	20	1	50	50	508	620	530	
1/2 Year or Less	21	1	48	52	542	583	499	
No Response	760		52	48	584	614	580	
AP/Honors Courses	2,066	58	48	52	627	659	619	
<b>Highest Level of Mathematics Achieved*</b>								
Calculus	2,023	59	50	50	624	659	616	
Pre-calculus	809	24	38	62	556	556	544	
Geometry	493	14	36	64	524	502	513	
Algebra II	28	1	39	61	511	583	508	
Algebra I	9	0	44	56	534	492	511	

\*To better reflect the relationship between students' SAT scores and their Mathematics course work, course work is now being displayed as the highest level of mathematics achieved. This means that each student is counted only once under their highest level of mathematics course taken.

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

### Course-Taking Patterns

Table 17: Natural Sciences, Social Sciences and History

Natural Sciences	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	807	23	49	51	616	650	608	
4 Years	1,787	51	45	55	604	617	591	
3 Years	700	20	40	60	556	558	550	
2 Years	119	3	54	46	532	576	529	
1 Year	57	2	39	61	512	565	522	
1/2 Year or Less	40	1	48	53	508	574	503	
No Response	790		52	48	583	613	579	
AP/Honors Courses	1,900	54	47	53	630	653	621	
<b>Course Work or Experience</b>								
Biology	3,245	97	45	55	594	610	584	
Chemistry	3,177	95	44	56	595	613	586	
Physics	2,548	76	48	52	602	627	592	
Geology, Earth, or Space Science	1,503	45	43	57	581	595	572	
Other Sciences	1,226	37	40	60	581	590	568	

Social Sciences and History	Test-Takers		Percent by Gender		SAT Mean Scores			
	Years of Study	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	518	15	48	52	610	629	598	
4 Years	1,749	50	45	55	603	612	592	
3 Years	1,019	29	44	56	577	601	571	
2 Years	167	5	50	50	541	591	529	
1 Year	42	1	40	60	514	594	524	
1/2 Year or Less	30	1	43	57	530	593	508	
No Response	775		52	48	583	614	579	
AP/Honors Courses	1,842	52	46	54	633	644	623	
<b>Course Work or Experience</b>								
U.S. History	3,136	94	44	56	594	611	584	
World History or Cultures	2,915	88	43	57	594	609	584	
U.S. Government or Civics	2,884	87	44	56	594	608	583	
Economics	2,601	78	44	56	594	612	585	
Geography	790	24	43	57	567	589	562	
Psychology	1,273	38	37	63	592	602	582	
European History	804	24	45	55	609	616	599	
Sociology	472	14	36	64	573	577	558	
Ancient History	607	18	46	54	596	604	583	
Other Courses	640	19	41	59	596	598	582	

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

### Course-Taking Patterns

Table 18: Foreign and Classical Languages

Foreign and Classical Languages Years of Study	Test-Takers		Percent by Gender		SAT Mean Scores		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
More Than 4 Years	546	16	42	58	613	642	609
4 Years	1,187	34	40	60	622	634	615
3 Years	689	20	50	50	589	606	575
2 Years	833	24	49	51	564	575	550
1 Year	129	4	43	57	519	537	504
1/2 Year or Less	134	4	60	40	496	570	495
No Response	782		52	48	582	613	578
AP/Honors Courses	915	26	40	60	647	659	642
<b>Course Work or Experience</b>							
Chinese	231	7	44	56	598	660	592
French	787	24	32	68	611	609	598
German	285	9	53	47	606	607	586
Greek	14	0	50	50	660	596	640
Hebrew	20	1	50	50	595	618	591
Italian	29	1	28	72	622	576	590
Japanese	95	3	46	54	576	623	564
Korean	22	1	50	50	467	602	456
Latin	280	8	56	44	626	621	608
Russian	15	0	47	53	509	583	551
Spanish	1,901	57	45	55	589	606	582
Other Languages	101	3	34	66	540	574	529

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## Academic Information

### Course-Taking Patterns

Table 19: Arts and Music, Computers

<b>Arts and Music</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>		
	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
<b>Years of Study</b>							
More Than 4 Years	450	13	38	62	584	593	573
4 Years	966	28	38	62	613	619	603
3 Years	382	11	40	60	581	607	571
2 Years	617	18	45	55	591	609	581
1 Year	686	20	51	49	587	608	579
1/2 Year or Less	384	11	61	39	567	613	561
No Response	815		54	46	584	614	579
AP/Honors Courses	341	10	38	62	627	629	619
<b>Course Work or Experience</b>							
Acting or Play Production	822	25	34	66	615	598	598
Art History or Appreciation	501	15	34	66	585	588	574
Dance	415	13	13	87	584	576	576
Drama: Study or Appreciation	534	16	33	67	591	583	579
Music: Study or Appreciation	568	17	44	56	608	607	595
Music Performance	1,878	57	42	58	609	626	600
Photography or Film	654	20	34	66	582	590	571
Studio Art and Design	835	25	29	71	599	603	591
None	427	13	66	34	555	600	549

<b>Computers</b>	<b>Test-Takers</b>		<b>Percent by Gender</b>		<b>SAT Mean Scores</b>		
<b>Course Work or Experience</b>	Number	Pct	Male	Female	Critical Reading	Mathematics	Writing
Computer Literacy	2,082	65	45	55	596	610	584
Computer Programming	760	24	62	38	609	642	594
Word Processing	1,991	62	45	55	598	611	587
Internet Activity	1,653	52	45	55	599	612	587
Using Computer Graphics	1,100	34	50	50	596	613	585
Creating Spreadsheets/Databases	1,200	38	48	52	606	619	594
None	461	14	38	62	583	612	584

Note: Occasional updates are made to the optional Student Questionnaire to improve student response rates. Fluctuations from year to year should be interpreted with appropriate consideration.

## SAT Subject Tests™ Data

Table 20: Number of Test-Takers and Tests for SAT Subject Tests

Students Who Took SAT Subject Tests		Students Who Took an SAT Subject Test and Also Took the SAT			
Number of Test-Takers	Number of Tests	Number of Test-Takers	Critical Reading Mean	Mathematics Mean	Writing Mean
2,183	5,381	1,302	660	696	659

Students Who Took One or More Different SAT Subject Tests		
Number of Tests Taken	Number of Test-Takers	Percent of Total Test-Takers Who Took One or More Tests
1	187	9
2	1,073	49
3	714	33
4 or More	209	10

Table 21: Mean Scores for SAT Subject Test Takers and for Students Who Also Took the SAT

Most, but not all, students who take SAT Subject Tests also take the SAT. This table provides SAT Subject Test scores for students who took SAT Subject Tests. It also provides the SAT scores for those students who also took the SAT.

	SAT Subject Test			N	SAT						
	N	Mean	SD		Mean	SD	Mean	SD	Mean	SD	
<b>English</b>											
Literature	566	652	83	341	677	78	662	83	670	81	
<b>History and Social Studies</b>											
U.S. History	550	687	84	339	679	80	684	82	670	81	
World History	111	643	105	77	665	88	675	82	662	93	
<b>Mathematics</b>											
Mathematics Level 1	526	659	85	292	626	84	668	75	633	82	
Mathematics Level 2	1,433	727	74	886	668	92	721	63	671	86	
<b>Science</b>											
Biology-E	214	682	78	132	661	89	692	83	663	84	
Biology-M	365	696	75	241	675	81	703	70	676	85	
Chemistry	849	699	88	540	669	90	722	65	674	84	
Physics	414	689	81	254	654	99	718	69	651	96	
<b>Foreign and Classical Languages</b>											
Chinese/Listening	35	761	55	29	663	107	727	77	662	99	
French	69	616	106	56	678	82	666	78	677	81	
French/Listening	13	663		12	646		675		668		
German	10	623		6	703		660		717		
German/Listening	9	642		4							
Modern Hebrew	1										
Italian	4			4							
Japanese/Listening	18	672		12	588		695		615		
Korean/Listening	17	772		13	578		688		590		
Latin	16	613		14	746		687		689		
Spanish	146	599	112	88	663	84	672	85	659	82	
Spanish/Listening	15	613		10	677		650		666		

## SAT Subject Tests Score Distributions

Table 22: English, History and Social Studies

SAT Subject Tests	English		History and Social Studies			
	Literature		U.S. History		World History	
	N	Pct	N	Pct	N	Pct
750-800	64	11	156	28	23	21
700-740	127	22	145	26	17	15
650-690	133	23	109	20	18	16
600-640	115	20	57	10	16	14
550-590	74	13	38	7	16	14
500-540	31	5	31	6	12	11
450-490	14	2	8	1	5	5
400-440	5	1	5	1	3	3
350-390	3	1	1	0		
300-340					1	1
250-290						
200-240						
Total	566		550		111	
Mean	652		687		643	
SD	83		84		105	
75th percentile	720		750		720	
50th percentile	660		700		650	
25th percentile	600		640		550	

Table 23: Mathematics, Science

SAT Subject Tests	Mathematics				Science							
	Mathematics Level 1		Mathematics Level 2		Biology-E		Biology-M		Chemistry		Physics	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	73	14	755	53	45	21	107	29	336	40	119	29
700-740	146	28	243	17	62	29	78	21	165	19	87	21
650-690	103	20	190	13	45	21	104	28	135	16	92	22
600-640	98	19	161	11	32	15	41	11	91	11	63	15
550-590	49	9	64	4	17	8	21	6	64	8	30	7
500-540	36	7	14	1	9	4	10	3	32	4	15	4
450-490	13	2	5	0	3	1	2	1	19	2	7	2
400-440	6	1	1	0	1	0	2	1	7	1	1	0
350-390												
300-340	2	0										
250-290												
200-240												
Total	526		1,433		214		365		849		414	
Mean	659		727		682		696		699		689	
SD	85		74		78		75		88		81	
75th percentile	720		800		740		750		770		750	
50th percentile	680		750		690		700		720		690	
25th percentile	610		680		630		650		640		640	

## SAT Subject Tests Score Distributions

Table 24: Foreign and Classical Languages

SAT Subject Tests	Foreign and Classical Languages											
	Chinese/Listening		French		French/Listening		German		German/Listening		Modern Hebrew	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	29	83	7	10	2	15	3	30	3	33		
700-740	1	3	14	20	4	31			1	11		
650-690	3	9	9	13			2	20	2	22	1	100
600-640	1	3	6	9	3	23						
550-590	1	3	14	20	4	31	1	10				
500-540			7	10			2	20				
450-490			9	13			2	20	2	22		
400-440			2	3					1	11		
350-390			1	1								
300-340												
250-290												
200-240												
Total	35		69		13		10		9		1	
Mean	761		616		663		623		642			
SD	55		106									
75th percentile	800		710									
50th percentile	770		600									
25th percentile	750		530									

Table 25: Foreign and Classical Languages (continued)

SAT Subject Tests	Foreign and Classical Languages											
	Italian		Japanese/Listening		Korean/Listening		Latin		Spanish		Spanish/Listening	
	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct	N	Pct
750-800	2	50	7	39	15	88	3	19	13	9	2	13
700-740			3	17			3	19	19	13	2	13
650-690	1	25	3	17	1	6			20	14		
600-640					1	6	1	6	26	18	4	27
550-590	1	25	2	11			3	19	28	19	3	20
500-540							4	25	13	9	2	13
450-490			1	6			2	13	10	7	2	13
400-440			1	6					8	5		
350-390			1	6					6	4		
300-340									3	2		
250-290												
200-240												
Total	4		18		17		16		146		15	
Mean			672		772		613		599		613	
SD									112			
75th percentile									680			
50th percentile									610			
25th percentile									520			



## College Plans

Table 26: Intended College Major, Degree-Level Goal

SAT Intended College Major	Test-Takers		Mean Scores		
	Number	Pct	Critical Reading	Mathematics	Writing
Agriculture, Agriculture Operations, and Related Sciences	10	0	579	583	574
Architecture and Related Services	45	1	575	609	580
Area, Ethnic, Cultural and Gender Studies	8	0	614	536	576
Biological and Biomedical Sciences	383	10	615	636	605
Business Management, Marketing, and Related Support Services	356	10	557	607	557
Communication, Journalism and Related Programs	90	2	583	548	571
Computer and Information Sciences and Support Services	84	2	635	659	596
Construction Trades	1	0			
Education	69	2	591	577	580
Engineering	479	13	605	657	593
Engineering Technologies/Technicians	37	1	553	638	550
English Language and Literature/Letters	82	2	636	579	628
Family and Consumer Sciences/Human Sciences	1	0			
Foreign Languages, Literatures, and Linguistics	49	1	634	624	627
Health Professions and Related Clinical Services	636	17	584	611	586
History	54	1	624	601	591
Legal Professions and Studies	106	3	583	569	561
Liberal Arts and Sciences, General Studies, and Humanities	67	2	619	594	603
Library Science And Administration	1	0			
Mathematics and Statistics	53	1	629	728	646
Mechanic and Repair Technologies/Technician	1	0			
Military Technologies And Applied Sciences	9	0	623	616	581
Multi/Interdisciplinary Studies	47	1	657	687	661
Natural Resources and Conservation	17	0	585	564	566
Parks, Recreation, Leisure and Fitness Studies	4	0			
Personal and Culinary Services	5	0	536	530	524
Philosophy and Religious Studies	13	0	620	617	626
Physical Sciences	93	3	642	665	628
Precision Production	0	0			
Psychology	124	3	587	570	571
Public Administration and Social Services Professions	10	0	596	580	580
Security and Protective Services	29	1	550	518	524
Social Sciences	96	3	641	622	626
Theology and Religious Vocations	8	0	575	566	563
Transportation and Materials Moving	1	0			
Visual and Performing Arts	371	10	573	562	557
Other	27	1	526	552	533
Undecided	245	7	623	636	613
<b>Degree-Level Goal</b>					
Certificate Program	15	0	557	657	553
Associate Degree	5	0	434	460	402
Bachelor's Degree	701	19	544	557	530
Master's Degree	1,153	31	585	605	576
Doctoral or Related Degree	1,391	37	616	637	610
Other	11	0	516	583	495
Undecided	468	13	593	608	582

## College Plans

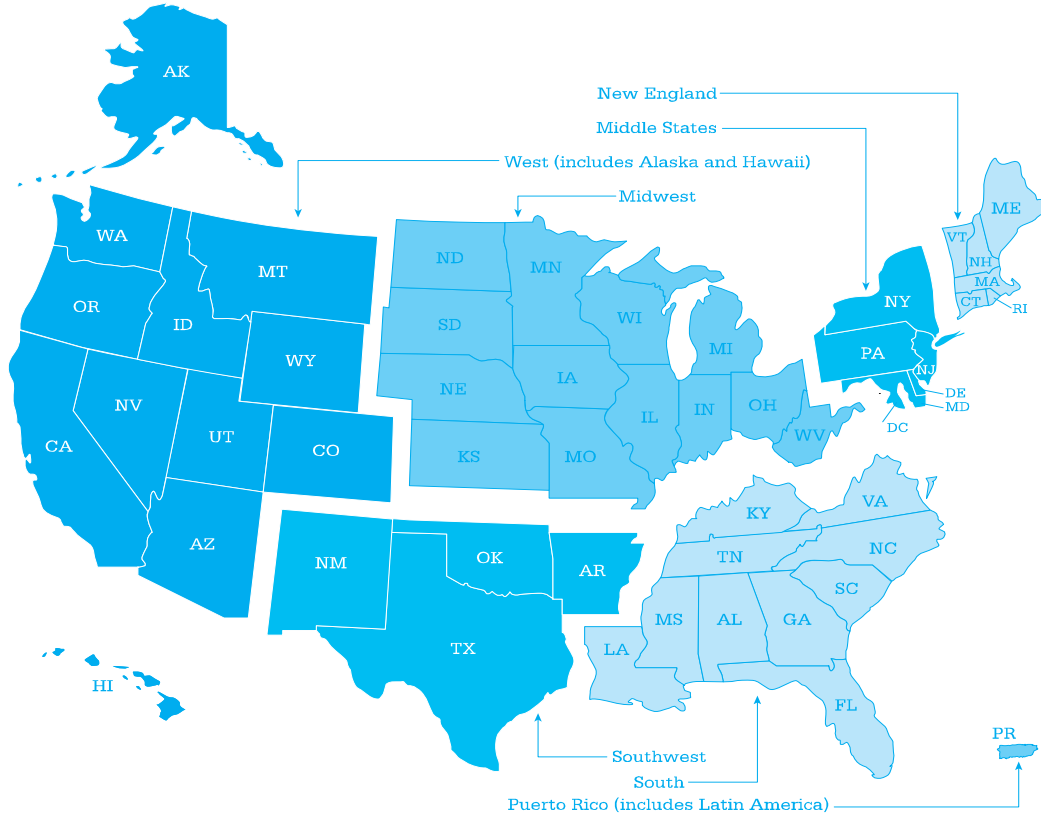
### Table 27: Institutions That Received the Most SAT Program Score Reports from Your Students

Of the 5,181 students from your state who took the SAT and/or an SAT Subject Test, 3,804 designated that their score reports be sent to institutions. Students may designate more than one institution to receive scores. This list includes only the 45 institutions that received the most score reports. A total of 979 institutions received score reports from your students.

Institution	State	Type	Number of Students	Percent of Score Senders*
UNIVERSITY OF MICHIGAN ANN ARBOR	MI	Public	1,848	48.6
MICHIGAN STATE UNIVERSITY	MI	Public	1,005	26.4
HARVARD UNDERGRADUATE ADMISSIONS	MA	Private	716	18.8
NATIONAL MERIT SCHOLARSHIP CORPORATION	IL	Scholarship	619	16.3
NORTHWESTERN UNIVERSITY	IL	Private	569	15.0
NORTHWESTERN UNIVERSITY'S MIDWEST ACDMC T	IL	Scholarship	560	14.7
STANFORD UNIVERSITY	CA	Private	499	13.1
PRINCETON UNIVERSITY	NJ	Private	499	13.1
YALE UNIVERSITY	CT	Private	460	12.1
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	MA	Private	458	12.0
COLUMBIA UNIVERSITY UNDERGRADUATE ADMISS	NY	Private	386	10.1
CORNELL UNIVERSITY	NY	Private	383	10.1
UNIVERSITY OF CHICAGO	IL	Private	369	9.7
UNIVERSITY OF PENNSYLVANIA UNDERGRADUATE	PA	Private	336	8.8
BROWN UNIVERSITY	RI	Private	264	6.9
CARNEGIE MELLON UNIVERSITY	PA	Private	252	6.6
DUKE UNIVERSITY	NC	Private	243	6.4
DARTMOUTH COLLEGE	NH	Private	237	6.2
WASHINGTON UNIVERSITY	MO	Private	212	5.6
JOHNS HOPKINS UNIVERSITY UNDERGRADUATE A	MD	Private	212	5.6
GRAND VALLEY STATE UNIVERSITY	MI	Public	212	5.6
WAYNE STATE UNIVERSITY	MI	Public	212	5.6
NEW YORK UNIVERSITY	NY	Private	191	5.0
CASE WESTERN RESERVE UNIVERSITY	OH	Private	190	5.0
UNIVERSITY OF CALIFORNIA BERKELEY	CA	Public	174	4.6
UNIVERSITY OF NOTRE DAME	IN	Private	155	4.1
WESTERN MICHIGAN UNIVERSITY	MI	Public	153	4.0
PURDUE UNIVERSITY WEST LAFAYETTE	IN	Public	153	4.0
GEORGETOWN UNIVERSITY	DC	Private	139	3.7
BOSTON UNIVERSITY	MA	Private	139	3.7
EASTERN MICHIGAN UNIVERSITY	MI	Public	131	3.4
VANDERBILT UNIVERSITY	TN	Private	127	3.3
CENTRAL MICHIGAN UNIVERSITY	MI	Public	126	3.3
MICHIGAN TECHNOLOGICAL UNIVERSITY	MI	Public	124	3.3
CALIFORNIA INSTITUTE OF TECHNOLOGY	CA	Private	124	3.3
KALAMAZOO COLLEGE	MI	Private	123	3.2
MICHIGAN DEPARTMENT OF EDUCATION GIFTED	MI	Scholarship	120	3.2
UNIVERSITY OF SOUTHERN CALIFORNIA	CA	Private	119	3.1
HOPE COLLEGE	MI	Private	118	3.1
OAKLAND UNIVERSITY	MI	Public	117	3.1
UNIVERSITY OF ILLINOIS URBANA	IL	Public	110	2.9
UNIVERSITY OF CALIFORNIA LOS ANGELES	CA	Public	98	2.6
UNIVERSITY OF MICHIGAN DEARBORN	MI	Public	97	2.5
OBERLIN COLLEGE	OH	Private	90	2.4
NCAA ELIGIBILITY CENTER	IN	Public	88	2.3

\*Of your students who designated that their SAT and/or SAT Subject Test score reports be sent to institutions, the 'Percent of Score Senders' indicates the percent of those students who had their scores sent to each institution listed.

# Areas Served by College Board Regional Offices



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## Southwestern Regional Office

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