

SAT Trends
Florida and the Nation

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Florida Department of Education

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Summary - SAT Trends Florida and the Nation

Overall Trends in Scores and Number of Test Takers (Pages 1-3)

- Florida's average SAT scores for 2003 graduates are 498 on both the verbal section and the math section, for a combined score of 996, compared to a score of 995 the prior year. Florida's verbal score is up two points, while the math score is down one point.
- For the nation, the average scores are 507 (verbal) and 519 (math). Both the verbal and math scores are up three points from last year. The combined score is 1026, six points higher than last year.
- Florida continues to have a larger percentage of graduates taking the exam than is true nationwide. This makes comparisons of Florida scores with scores of the nation problematic, since typically, the larger the percentage of students taking a test, the lower the average scores are likely to be.
- The number of test takers in Florida increased 10%, from 75,664 in 2002 to 83,397, representing an increase in the proportion of graduates taking the exam from 58% of all graduates to 61%.
- Nationwide, the number of test takers as a percentage of the graduates increased from 46% to 48%.

Profile of the 2003 Test Takers, Compared to Prior Years

- The profile of Florida continues to look less and less like that of the nation. While 73% of the test takers nationwide are from groups which historically have above-average mean scores, only 62% of the Florida test takers represent these groups. (See page 3.)
- The percentage of Florida test takers from minority racial-ethnic groups has been increasing steadily. Fifteen years ago minority students represented about one fourth of the test takers (24%); in 2003, minority students represent 42%. (See page 20.)
- Nationwide, the percentage of minority test takers has also been increasing, but at a slower rate than in Florida. In 1988, minorities represented 23% of the test takers nationwide, about the same as in Florida; by 2003 the percentage had increased to 36%, with Asians, whose scores are typically well above average, representing 9.6% of the total, compared to 4.4% for Florida.

Relationship between Scores and Family Income

- Results on the SAT, as is true with other achievement measures, demonstrate the significant relationship between scores and family income: the higher the average income, the higher the average scores. (See page 6.)¹

¹Information on family income is included in the Student Descriptive Questionnaire, completed by students as part of the exam registration. Since the questionnaire is completed by students individually (not in a test setting), the students are likely to complete this part of the questionnaire with the help of their parents.

- Taking into account family income, Florida test takers score about the same as test takers nationwide. Average incomes begin to diverge at incomes of \$50,000 and above, with higher income U.S. test takers scoring slightly higher than higher income Florida test takers. However, since the income measures are ranges rather than actual dollar amounts, it may be that families of students in the highest income levels in the U.S. have a higher level income than families of Florida students in the highest income levels.
- The family income of test takers has been rising through the years, especially in the nation as a whole. By contrast, the average family income of Florida test takers has been rising more slowly, with decreases in 1993, 1999, and 2002. Increases in family income for both Florida and the U.S. are probably partially related to inflation. Florida's somewhat different trend in family income seems also related to the increased percentages of students taking the test, including students from lower income families and students who are the first of their family to attend college. (See page 7.)

Relationship between Scores and Parental Education

- As with family income, results on the SAT demonstrate a significant relationship between scores and the level of education of the parents: the higher the level of parental education, the higher the average score.² (See page 8.)
- Long term, increasing percentages of SAT test takers represent the first generation of college attendees.³ For both Florida and the U.S., the percentage of test takers whose parents are college educated decreased from 1988 to 1993. The percentage of college-educated parents for Florida was on a par with that of the nation through 1992, moving lower than the U.S. from 1993 on, with the gap continuing to widen. (See page 8.)
- Parental education statistics show a similar pattern for Florida vis-à-vis the U.S. as was evident from statistics on family income. Florida test takers whose parents have not gone beyond high school score about the same as U.S. students in this category, while scores for test takers whose parents are college educated do somewhat less well than U.S. students whose parents are college educated. As with family income, the educational measures are broad and do not include information on types of degrees or the rank of the colleges or universities at which these degrees were earned. (See page 9.)

Course-taking Patterns of SAT Test Takers (Pages 12-15)

- The more academic courses students have taken, the higher SAT scores are likely to be. There is a 163-point spread between the average scores for students who have 20 or more credits of academic subjects and those who have fewer than 15 credits (1073, as compared to 910). (See page 12.)

²Parental education is defined as the highest education achieved by either the father or mother, whichever was higher.

³Taking the SAT, of course, does not guarantee that the test taker will go to college, but indicates an intention to go to college. It is likely that students with average or above-average scores are more likely to actually matriculate than are students whose scores are near the bottom of the scale.

- The pattern of course-taking is remarkably similar for male and female test takers. For both groups, 98% take algebra I, 96% take geometry and approximately 64% take algebra II. Small differences can be seen in higher level math courses, including pre-calculus (36% males, 34% females) and calculus (20% males, 18% females). (See page 15.)
- Almost all of the test takers, regardless of race-ethnicity, take algebra I and geometry. Fewer African-American test takers take other college-track math courses than do whites and Hispanics. More Asians take higher level courses than do the other racial-ethnic groups. (See page 15.)
- In science, test takers who have taken or will have taken physics have an SAT math score of 540, while those who have taken chemistry have a score of 511. Approximately half of the test takers report they will have taken four years or more of science by the time they graduate. (See page 14.)
- One caution in the interpretation of these results: this close relationship between courses taken and test scores may not be strictly a causal one. Students who have a high aptitude for math tend both to make high math scores and to take higher level math courses. Indeed, the test takers may not have yet completed all of the courses indicated, since the student questionnaire asks them to indicate the number of years of course work they have taken or *will have completed by the time they graduate*. With respect to physics and calculus, at the time the students took the examination many of them were probably just beginning the course or, if they took the exam as juniors, were planning to take the course their senior year. For these students, exposure to the content of these courses could not have affected their SAT score.

SAT Scores by Racial-Ethnic Groups

- The profile of Florida students taking the SAT has changed drastically over the 26 years covered in this report. During that time the percentage of Florida SAT white non-Hispanic test takers decreased from 86% to 58%, while the percentage who were African American increased from 9% to 15% and the percentage who were Hispanic increased from 4% to 18%. (See page 20.)⁴
- Except for Hispanics, the scores for all racial-ethnic in Florida lag scores of the same groups nationwide. Florida Hispanics outscore Hispanics nationwide by 39 points. (See page 19.)
- An increasing percentage of test takers are declining to indicate their race-ethnicity. In 2002, 19% of the test takers in both Florida and the U.S. did not do so. The number of nonrespondents in 2003 rose to 24% for Florida and 25% for the U.S. (The student questionnaire does not include a multi-racial category, but it does include a category *other*.) In past years, those who did not provide this information had lower average scores than those who did. In 2003 the trend was reversed. In 2002 the combined SAT score for Florida respondents was 997, compared to 988 for nonrespondents. (See page 21.) In 2003 the combined score for respondents decreased to 992, while the score for

⁴Prior to 1977, Florida state universities required a score on the Florida Twelfth Grade Test, a state-designed exam, for admissions. During those years the SAT was usually taken by a select group of students planning to attend a private or out-of-state college. From 1977 on students could satisfy the state university admissions with either an SAT or an ACT (American College Test). Subsequently, the numbers of SAT and ACT test takers increased significantly. Few statistics are available prior to 1977; were they available, they would not be comparable.

nonrespondents jumped to 1005. This break in the trend makes any changes in scores by race problematic. This can be seen in the results that show that all three large races in Florida—whites, African Americans, and Hispanics--had the same verbal scores in 2003 as they did in 2002, which would not support a two-point increase for the state as a whole. Similarly, decreases in math scores for the respondent groups ranged from two to four points, which would logically not lead to an overall decrease of only one point.

- Test takers are asked on the student questionnaire to indicate their first language learned--English, English and another language, or another language. Not surprisingly, there is a close relationship between scores and the first language learned. Among Other Hispanics Florida SAT test takers (not including Puerto Ricans and Mexican-Americans), the percentage of those who indicated *Other Language* peaked at 47% in 1993. This category represented 43% in 2003. (See page 22.)
- Average scores in 2003 were 1011 for those Other Hispanics for whom English was the first language, 948 for those whose first language was English and another language, and 942 for those whose first language was other than English. (See page 23.)
- Average family incomes are significantly different for the three racial ethnic groups. (See page 24.) The families of African-American and Hispanic test takers are much more likely to have an average income of less than \$30,000, while the families of white test takers are more likely to have an income of \$50,000 or more. As shown on Page 6, the higher the income, the higher the score is likely to be.

Scores Trends by Gender

- More women than men take the SAT. In Florida, 55% of the test takers are female, while 45% are male. (See page 26.) The larger proportion of female test takers suggests that the population of SAT test takers dips lower in the ability level of female students, as evidenced by the data on family income by gender, which shows that female test takers have a lower average family income than do males. (See page 28.)
- Florida's proportion of women test takers is even larger than that of the U.S.--a 54.7 to 45.3 ratio for Florida, compared to a 53.6 to 46.4 ratio for the U.S. Although the difference may seem small, it is consistent. Since women's math scores are significantly lower than are men's, this difference in profile between Florida and the U.S. points to one more reason why U.S. average scores are higher than those for Florida.
- Florida verbal scores for females historically have trailed verbal scores for males. After decreasing four points in 2002, verbal scores for males increased three points in 2003, from 497 to 500. Verbal scores for females increased by one point to 496.
- Math scores for males have consistently been from 30-39 points higher than those for females. Nationwide, the scores for males are also higher than those for females on both sections. Like Florida, the gap is much wider in math. (See pages 26 and 27.)

- Among various racial-ethnic groups, 51% of the Asian test takers, 56% of white non-Hispanic test takers, 57% of the Hispanic test takers, and 59% of the African-American test takers are female. Because of the wide gender gap in math, the larger the percentage of test takers who are women, the lower the combined score is likely to be. (See page 29.)
- The gender score gap, particularly in math, exists for all racial-ethnic groups. The gap is smallest for African Americans, where males scored 9 points higher than females in math but 12 points lower than females in verbal. African-American females scored 131 points lower on the combined score than the state average for females while African-American males scored about 170 points lower than the state average for males.

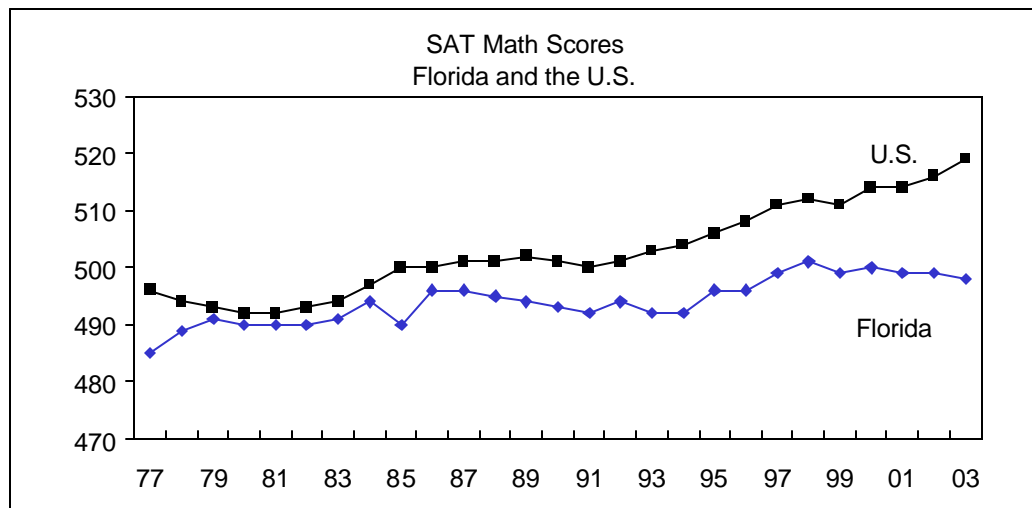
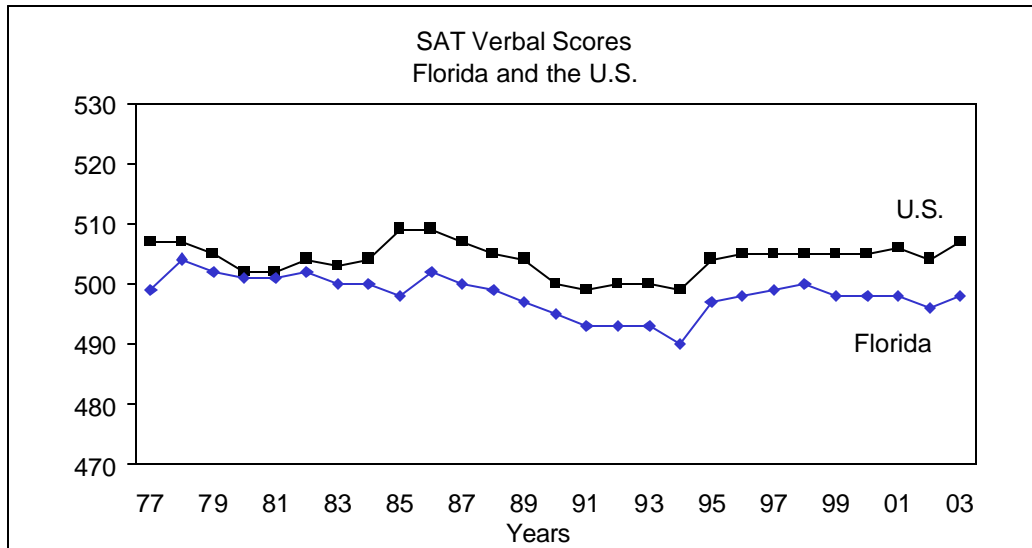
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SUMMARY OF RESULTS ON THE SAT
FLORIDA COLLEGE-BOUND SENIORS

	2001			2002			2003		
	Verbal	Math	Total	Verbal	Math	Total	Verbal	Math	Total
Florida	498	499	997	496	499	995	498	498	996
Nation	506	514	1020	504	516	1020	507	519	1026

Florida: Total score up one point; verbal score up two points; math score down one point. 61% of the graduates took the exam; 38% of the test takers were from minority groups which historically have had below average means.

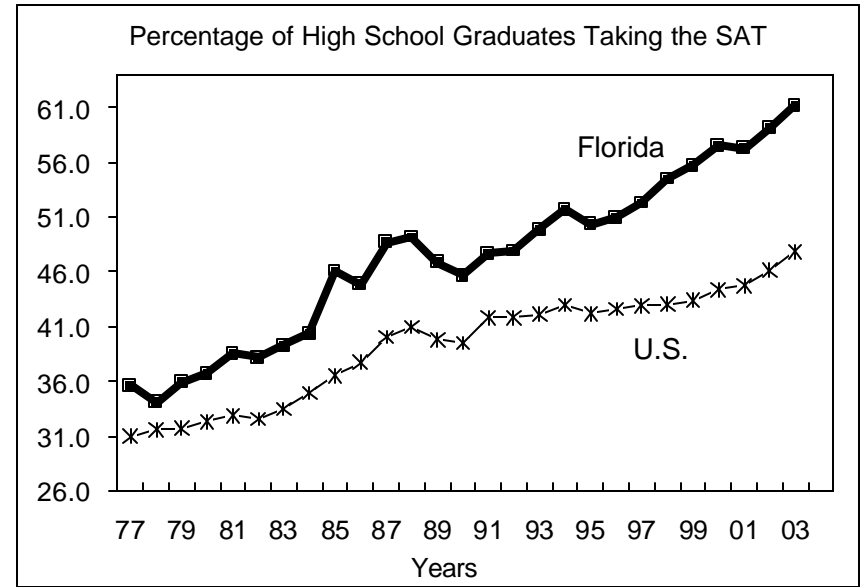
Nation: Total score up 6 points; verbal and math both up three points. 48% of the graduates took the exam; 27% of the testtakers were from minority groups which historically have had below average means.



SAT Trends - Florida

Grad Year	Number of Test Takers	High School Graduates*	Percentage of Graduates	Verbal Score	Math Score	Combined Score
1977	35,619	99,950	35.6	499	485	984
1980	35,824	97,600	36.7	501	490	991
1983	37,304	95,000	39.3	500	491	991
1986	40,624	90,550	44.9	502	496	998
1989	47,274	100,850	46.9	497	494	991
1992	48,570	101,350	47.9	493	494	987
1995	50,470	100,200	50.4	497	496	993
1996	50,979	100,000	51.0	498	496	994
1997	55,085	103,700	53.1	499	499	998
1998	58,040	107,700	53.9	500	501	1001
1999	62,524	112,200	55.7	499	498	997
2000	67,266	116,950	57.5	498	500	998
2001	69,363	121,400	57.1	498	499	997
2002	75,664	131,600	57.5	496	499	995
2003	83,397	136,225	61.2	498	498	996

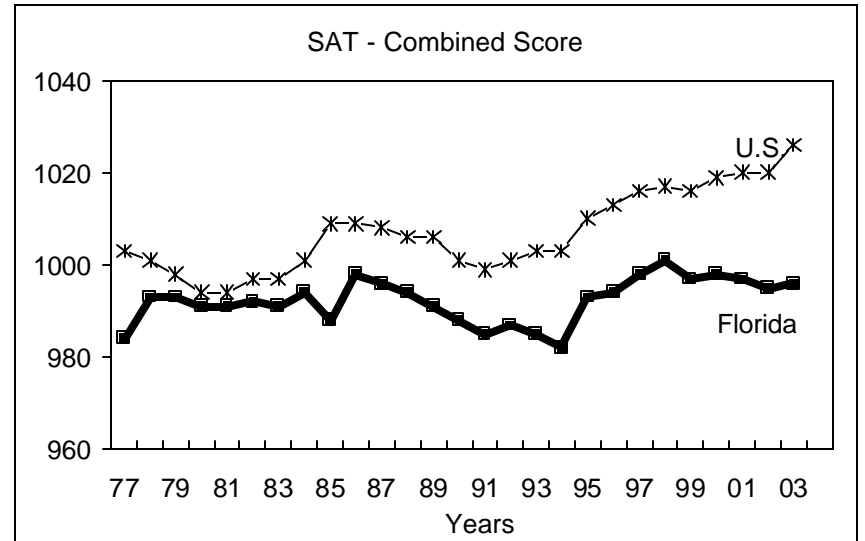
*Public high school graduates plus estimated number of nonpublic high school graduates.



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SAT Trends - United States

Grad Year	Number of Test Takers	High School Graduates	Percentage of Graduates	Verbal Score	Math Score	Combined Score
1977	979,344	3,161,000	31.0	507	496	1003
1980	988,750	3,063,000	32.3	502	492	994
1983	962,877	2,876,494	33.5	503	494	997
1986	1,000,747	2,650,442	37.7	509	500	1009
1989	1,088,223	2,732,584	39.8	504	502	1006
1992	1,034,213	2,474,998	41.8	500	501	1001
1995	1,067,993	2,532,574	42.2	504	506	1010
1996	1,084,725	2,542,547	42.7	505	508	1013
1997	1,127,021	2,625,533	42.9	505	511	1016
1998	1,172,779	2,725,024	43.0	505	512	1017
1999	1,220,130	2,811,442	43.4	505	511	1016
2000	1,260,278	2,840,170	44.4	505	514	1019
2001	1,276,320	2,852,533	44.7	506	514	1020
2002	1,327,831	2,876,452	46.2	504	516	1020
2003	1,406,324	2,938,453	47.9	507	519	1026



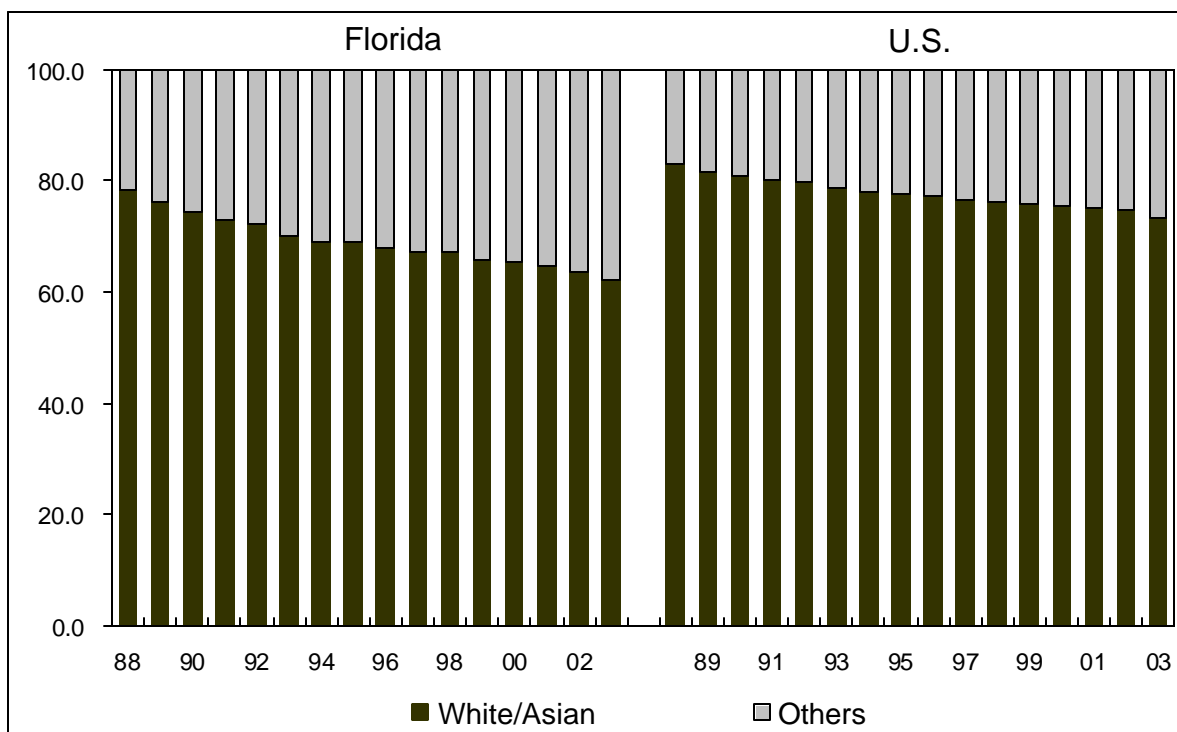
Profile of SAT Test Takers - Florida and the Nation

Percentage of Test Takers from Groups Which Historically Have Above-Average Means

	Florida								U.S.							
	1990	1992	1994	1996	1998	2000	2002	2003	1990	1992	1994	1996	1998	2000	2002	2003
White	70.5	67.9	64.4	63.2	62.6	60.7	58.9	57.7	73.4	71.5	69.4	68.7	67.1	66.4	65.1	63.8
Asian	3.9	4.3	4.6	4.6	4.6	4.7	4.7	4.4	7.6	8.2	8.5	8.5	9.0	9.0	9.7	9.6
Total	74.4	72.2	69.0	67.8	67.2	65.4	63.6	62.1	81.0	79.7	77.9	77.2	76.1	75.4	74.8	73.4

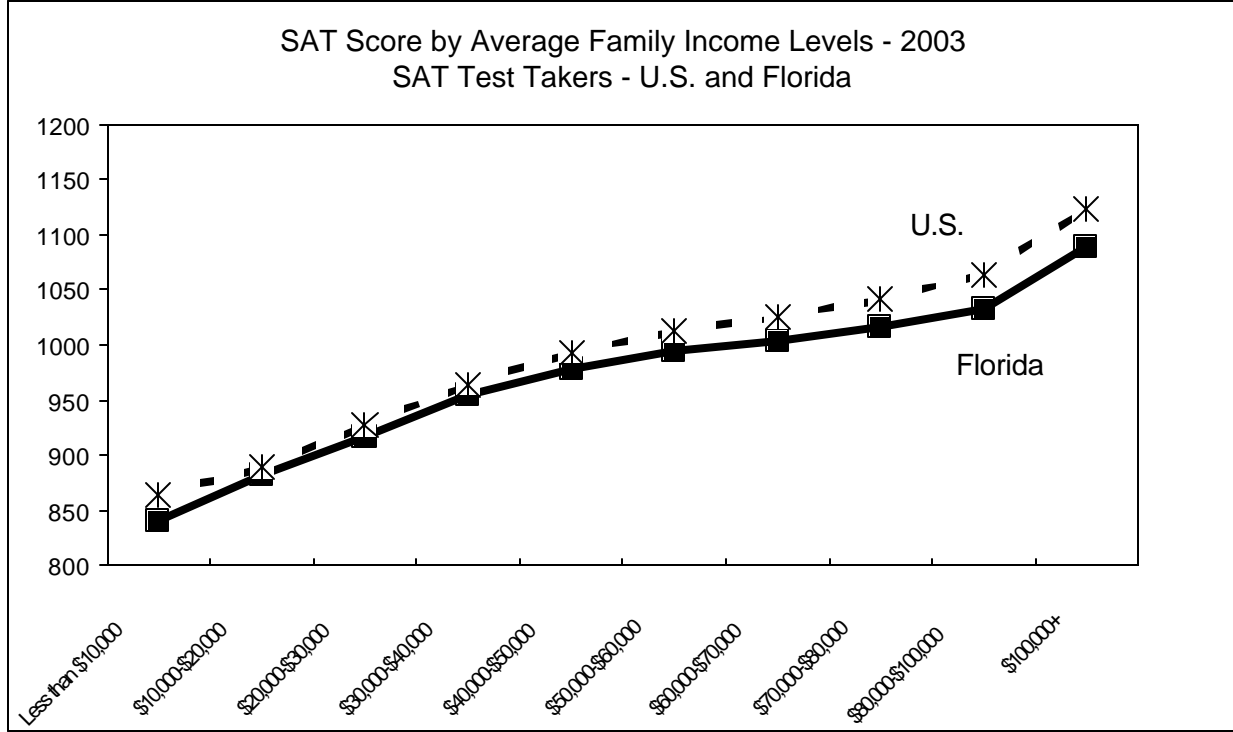
Percentage of Test Takers from Groups Which Historically Have Below-Average Means

	Florida								U.S.							
	1990	1992	1994	1996	1998	2000	2002	2003	1990	1992	1994	1996	1998	2000	2002	2003
Afr.-Amer	11.8	12.2	13.3	13.6	13.5	14.4	14.6	15.3	10.0	10.4	10.8	10.8	10.9	11.2	11.5	12.0
Hispanic	11.6	13.3	15.1	15.6	15.3	16.3	17.4	17.9	6.4	7.3	8.2	8.3	8.6	9.1	9.4	10.2
Other	2.2	2.3	2.6	3.0	4.0	3.9	4.4	4.7	2.6	2.6	3.1	3.7	4.4	4.3	4.3	4.4
Total	25.6	27.8	31.0	32.2	32.8	34.6	36.4	37.9	19.0	20.3	22.1	22.8	23.9	24.6	25.2	26.6



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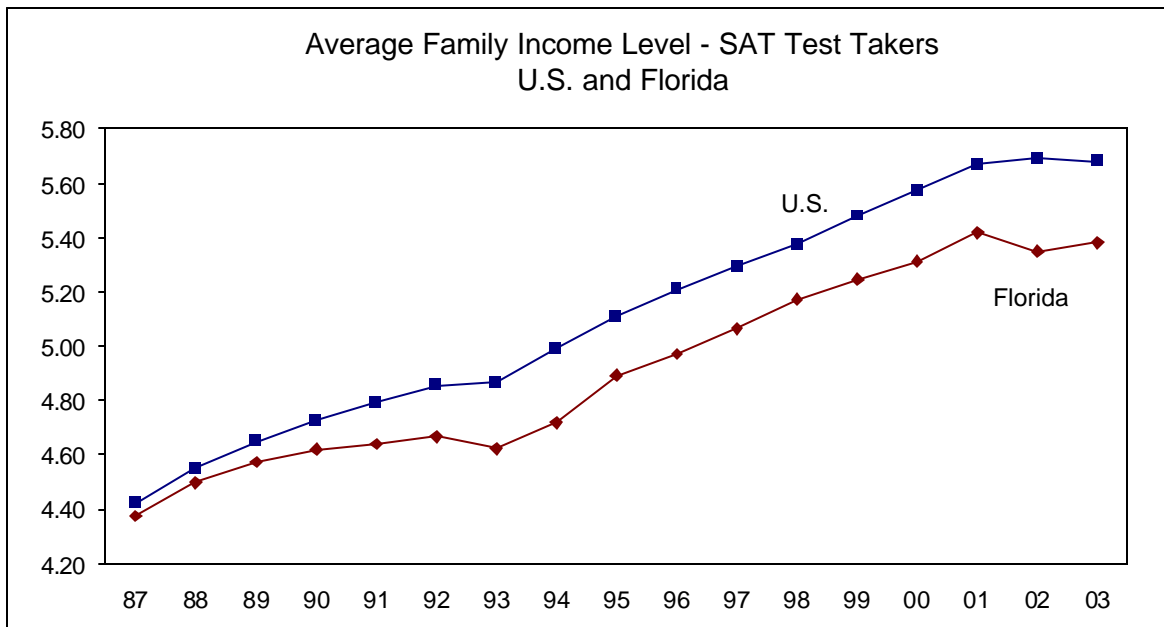
SAT Scores
By Income Level
And Level of Family Education



SAT Scores by Income Levels - 2003

	Florida			The Nation		
	Verbal	Math	Total	Verbal	Math	Total
Less than \$10,000	416	425	841	420	444	864
\$10,000-\$20,000	441	441	882	437	452	889
\$20,000-\$30,000	460	457	917	460	467	927
\$30,000-\$40,000	478	476	954	480	484	964
\$40,000-\$50,000	490	488	978	495	498	993
\$50,000-\$60,000	499	495	994	504	508	1012
\$60,000-\$70,000	503	501	1004	511	514	1025
\$70,000-\$80,000	509	507	1016	518	523	1041
\$80,000-\$100,000	517	515	1032	528	536	1064
More than \$100,000	541	547	1088	555	568	1123

*The data make it appear that Florida students at the highest income levels make lower scores than students at the highest income levels in the U.S. However, the income measures are ranges rather than actual incomes. It is likely that families of students in the highest income levels in the U.S. have a higher level income than families of Florida students in the highest income levels.



Percentage of Test Takers by Average Family Income Level - Florida

	1987	1990	1993	1995		1997	1999	2001	2002	2003
Less than \$10,000	4.6	4.2	5.6	4.9	Less than \$10,000	4.6	4.2	3.6	4.2	4.6
\$10,000-\$20,000	15.3	13.4	14.0	12.2	\$10,000-\$20,000	11.2	10.5	9.4	9.9	10.2
\$20,000-\$30,000	19.7	17.7	16.6	15.1	\$20,000-\$30,000	14.0	13.3	12.6	12.2	12.2
\$30,000-\$40,000	19.5	18.5	17.2	16.2	\$30,000-\$40,000	15.1	14.8	13.3	12.8	12.7
\$40,000-\$50,000	12.7	13.0	12.1	11.7	\$40,000-\$50,000	11.6	11.5	10.6	10.4	9.9
\$50,000-\$60,000	9.3	10.2	9.9	10.2	\$50,000-\$60,000	10.7	10.7	10.1	9.5	9.4
\$60,000-\$70,000	5.1	6.4	6.8	7.6	\$60,000-\$70,000	7.9	8.1	8.3	8.1	7.9
\$70,000 or more	13.8	16.6	17.8	22.1	\$70,000-\$80,000	6.7	7.0	7.9	7.9	7.4
Total Responded	100.0	100.0	100.0	100.0	\$80,000-\$100,000	7.4	7.9	9.4	9.8	9.7
					More Than \$100,000	10.9	11.8	14.8	15.3	16.0
					Total Responded	100.0	100.0	100.0	100.0	100.0
Aver. income level	4.38	4.62	4.62	4.89		5.07	5.25	5.42	5.35	5.38

(Level 4 = \$30,000-\$40,000. Level 5=\$40,000-\$50,000. Calculated with the last level=\$70,000 or more.)

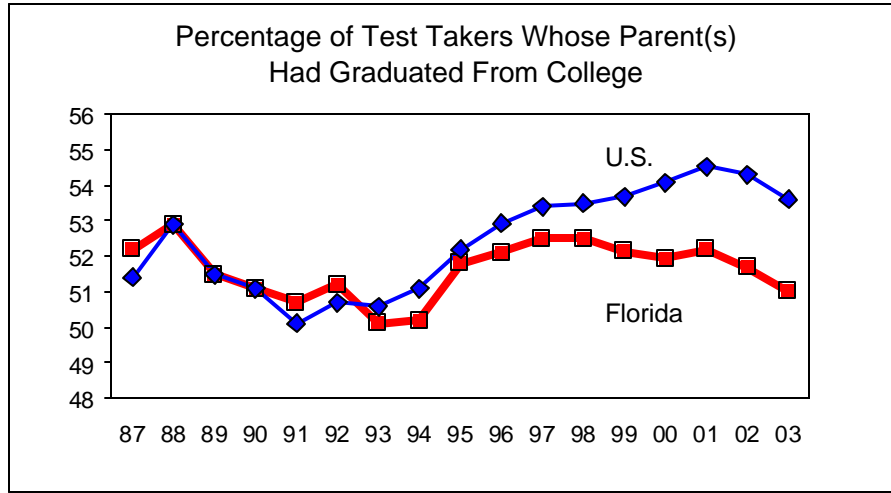
Percentage of Test Takers by Average Family Income Level - Nation

Less than \$10,000	5.3	4.8	5.7	5.3	Less than \$10,000	4.9	4.5	4.0	4.3	4.6
\$10,000-\$20,000	13.5	11.7	11.2	10.0	\$10,000-\$20,000	9.3	8.7	8.2	8.3	8.3
\$20,000-\$30,000	18.3	15.7	14.2	12.6	\$20,000-\$30,000	11.5	10.7	10.0	9.8	9.6
\$30,000-\$40,000	20.5	18.6	16.8	15.1	\$30,000-\$40,000	13.9	12.8	11.7	11.3	10.9
\$40,000-\$50,000	13.7	13.9	12.9	12.3	\$40,000-\$50,000	11.8	10.9	10.0	9.6	9.0
\$50,000-\$60,000	9.7	10.9	10.9	11.2	\$50,000-\$60,000	11.5	11.0	10.3	9.9	9.3
\$60,000-\$70,000	5.6	7.1	7.7	8.6	\$60,000-\$70,000	8.7	9.1	8.9	8.7	8.2
\$70,000 or more	13.3	17.3	20.6	24.8	\$70,000-\$80,000	7.4	8.0	8.3	8.3	10.5
Total Responded	100.0	100.0	100.0	100.0	\$80,000-\$100,000	8.8	10.0	11.0	11.3	11.1
					More Than \$100,000	12.1	14.4	17.6	18.6	18.6
					Total Responded	100.0	100.0	100.0	100.0	100.0
Aver. income level	4.42	4.73	4.87	5.11		5.29	5.48	5.67	5.69	5.68

(Level 4 = \$30,000-\$40,000. Level 5=\$40,000-\$50,000. Calculated with the last level=\$70,000 or more.)

Percentage of Test Takers Whose Parent(s)
Had Graduated from College

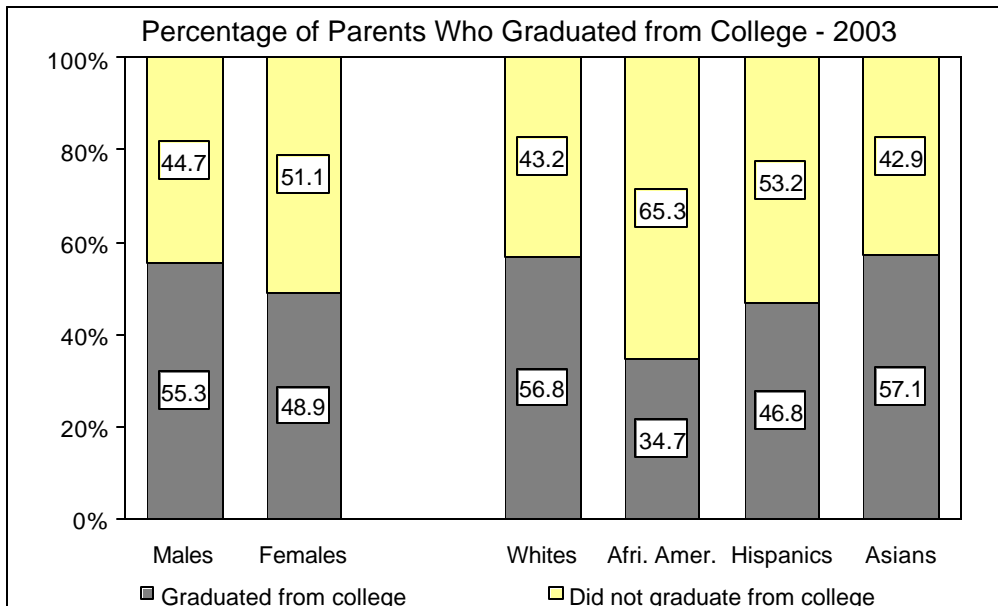
	1989	1991	1993	1995	1997	1999	2001	2002	2003
Florida	51.5	50.7	50.1	51.8	52.5	52.1	52.2	51.7	51.0
U.S.	51.5	50.1	50.6	52.2	53.4	53.7	54.5	54.3	53.6



Parental Education

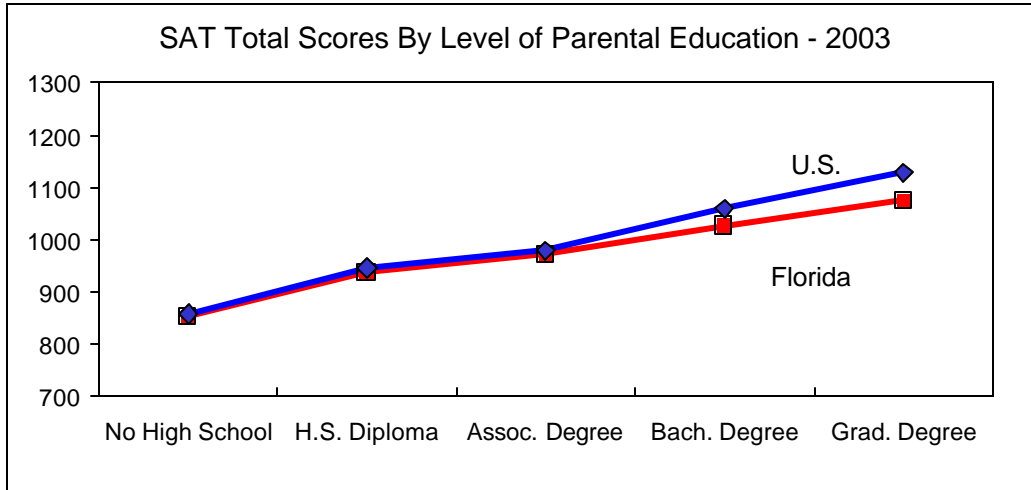
Percentage of Florida Students Whose Parent(s) Graduated from College

	1989	1991	1993	1995	1997	1999	2001	2002	2003
All Test Takers	52.9	51.1	51.2	50.2	52.1	52.1	52.2	51.7	51.0
Males	54.7	53.2	53.7	52.6	55.2	55.8	55.5	55.3	54.7
Females	51.3	49.3	49.1	48.3	49.6	49.9	49.6	48.9	48.2
Whites	56.2	55.0	55.6	54.8	56.7	57.4	57.2	56.8	56.5
Afri. Amer.	35.1	34.0	34.2	33.8	36.2	34.4	35.6	34.7	33.4
Hispanics	44.7	45.0	44.8	44.7	46.8	47.7	47.2	46.8	45.9
Asians	56.9	53.3	52.3	53.1	55.4	57.3	57.4	57.1	59.1



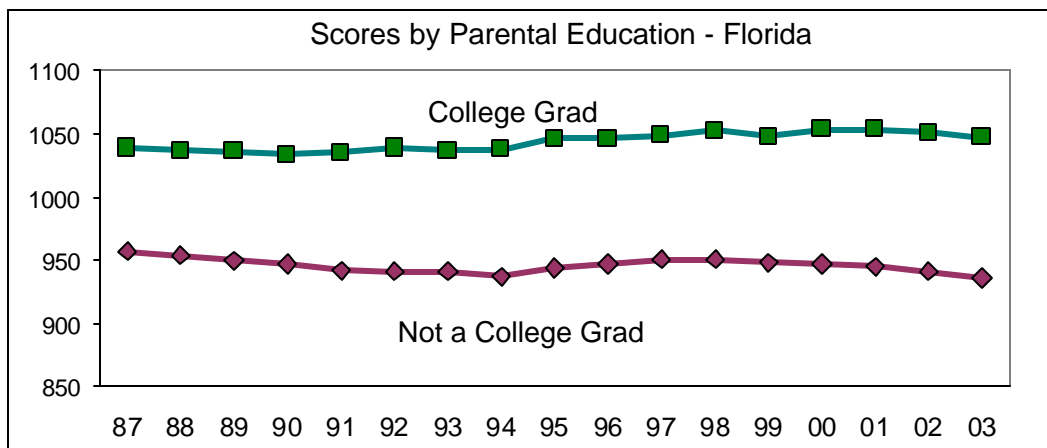
SAT Scores By Level of Parental Education - 2003

	Florida			U.S.		
	Verbal	Math	Total	Verbal	Math	Total
No High School	420	431	851	413	443	856
H.S. Diploma	469	466	935	470	475	945
Assoc. Degree	487	483	970	487	491	978
Bach. Degree	513	512	1025	525	534	1059
Grad. Degree	536	538	1074	559	569	1128



Scores by Parental Education

	1989	1991	1993	1995	1997	1999	2001	2002	2003
Did Not Graduate									
From College	950	942	941	944	951	951	945	941	936
Graduated From College	1036	1035	1037	1046	1049	1049	1054	1051	1047



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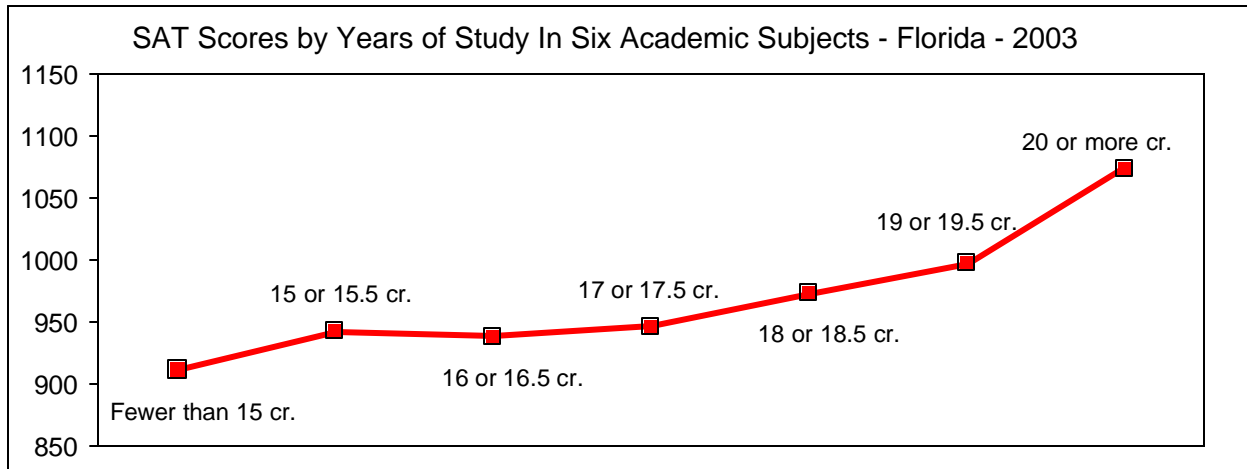
Course-taking Patterns

SAT Test Takers

Florida SAT Scores by Total Year Credits of Study in Six Academic Subjects - 2003*

	Number	%age	Verbal	Math	Combined Score
20 or more credits	21,281	40.3	537	536	1073
19 or 19.5 credits	6,379	12.1	497	495	992
18 or 18.5 credits	6,566	12.4	481	480	961
17 or 17.5 credits	5,489	10.4	472	471	943
16 or 16.5 credits	4,118	7.8	462	463	925
15 or 15.5 credits	3,276	6.2	466	465	931
Fewer than 15 credits	5,661	10.7	452	458	910

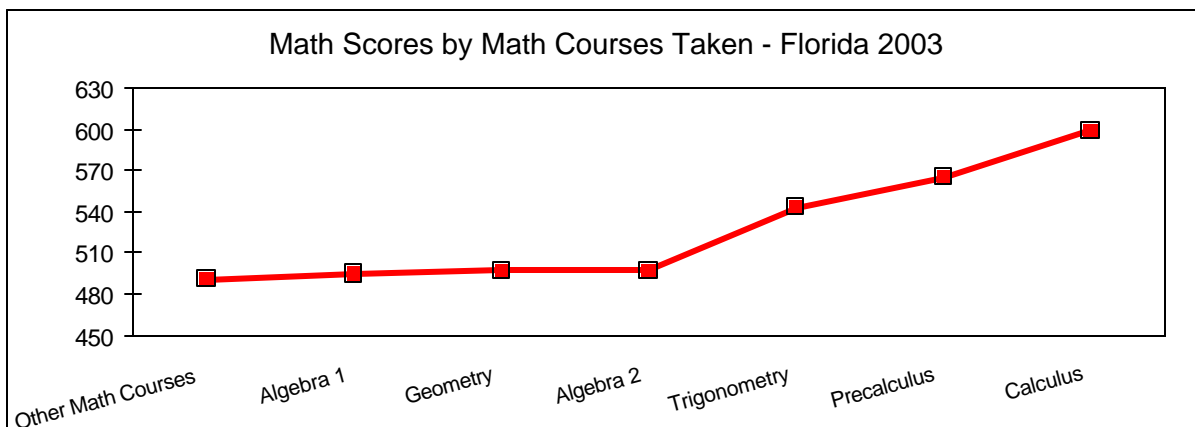
*English, math, natural sciences, social studies/history, foreign languages, arts/music. Information based on test takers who supplied information on the courses they had taken.



Number of Florida Test Takers Who Have Taken Specific Math Courses - 2003

	Number	%age	Average Math Score
Other Math Courses*	20,650	33.9	491
Algebra 1	59,981	98.4	495
Geometry	58,840	96.5	497
Algebra 2	38,910	63.8	497
Trigonometry	17,106	28.1	543
Precalculus	20,863	34.2	565
Calculus	10,677	17.5	599

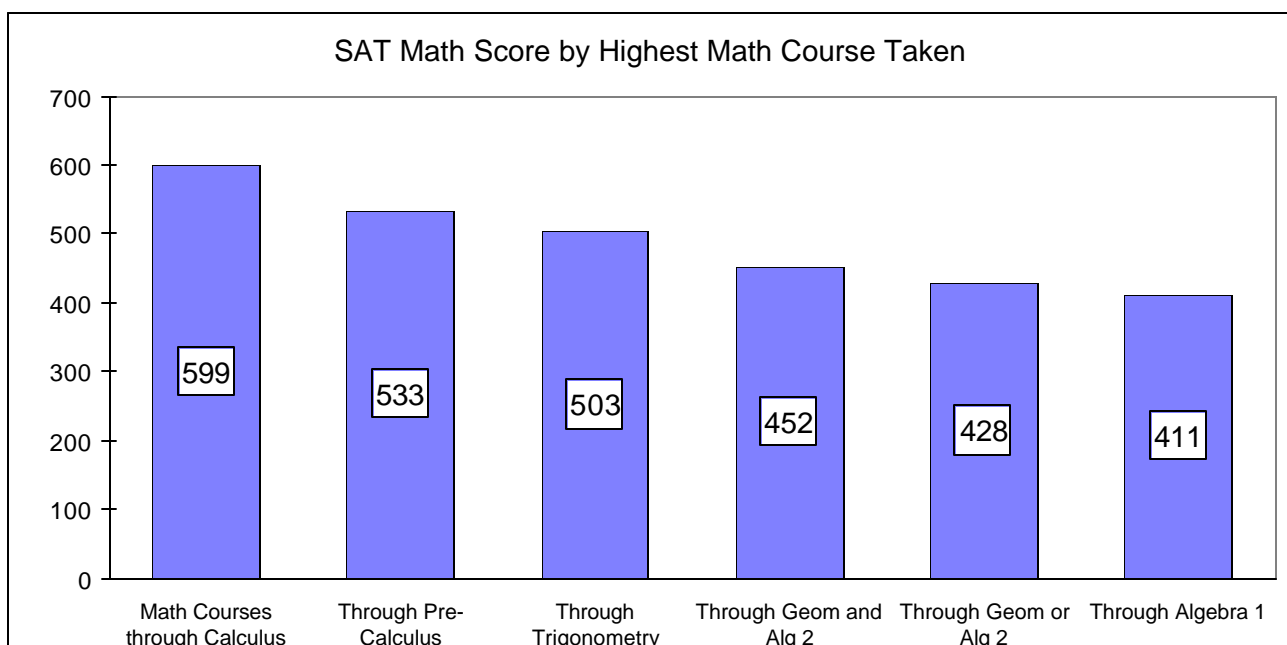
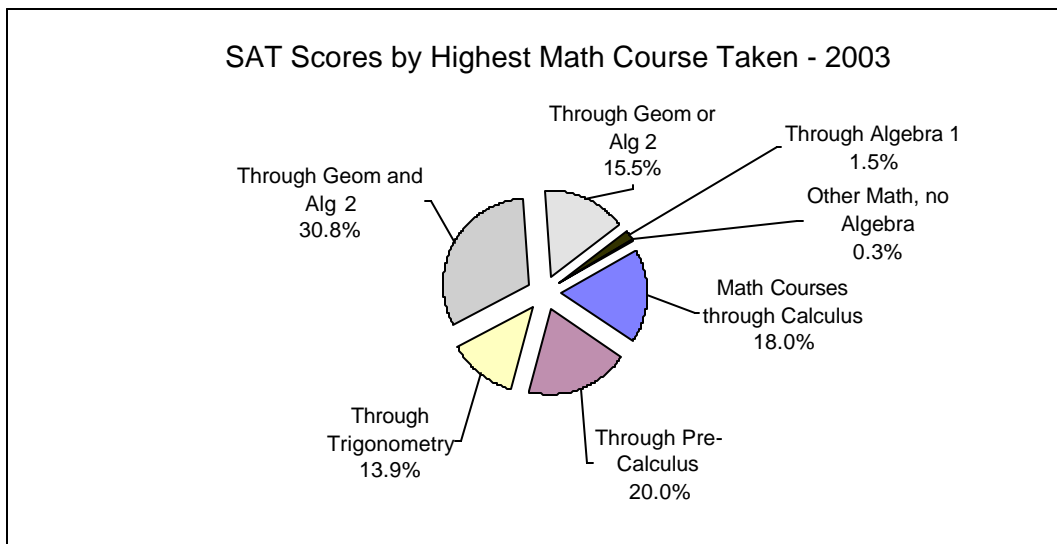
*Such as general math, business math, statistics, etc.



Florida SAT Test Takers - 2003 SAT Math Score by Highest Math Course Taken

	Males			Females			Total*		
	#	%	Score	#	%	Score	#	%	Score
Math Courses through Calculus	5,221	19.9	618	5,456	15.9	582	10,677	17.7	599
Through Pre-Calculus	5,108	19.5	551	6,923	20.2	520	12,031	19.9	533
Through Trigonometry	3,289	12.6	520	4,503	13.1	490	7,792	12.9	503
Through Geom and Alg 2	8,062	30.8	463	11,088	32.3	444	19,150	31.7	452
Through Geom or Alg 2	4,014	15.3	441	5,643	16.5	418	9,657	16.0	428
Through Algebra 1	443	1.7	425	563	1.6	400	1,006	1.7	411
Other Math, no Algebra	63	0.2	425	109	0.3	405	172	0.3	412
Total Responding*	26,200	100.0	514	34,285	100.0	482	60,485	100.0	496

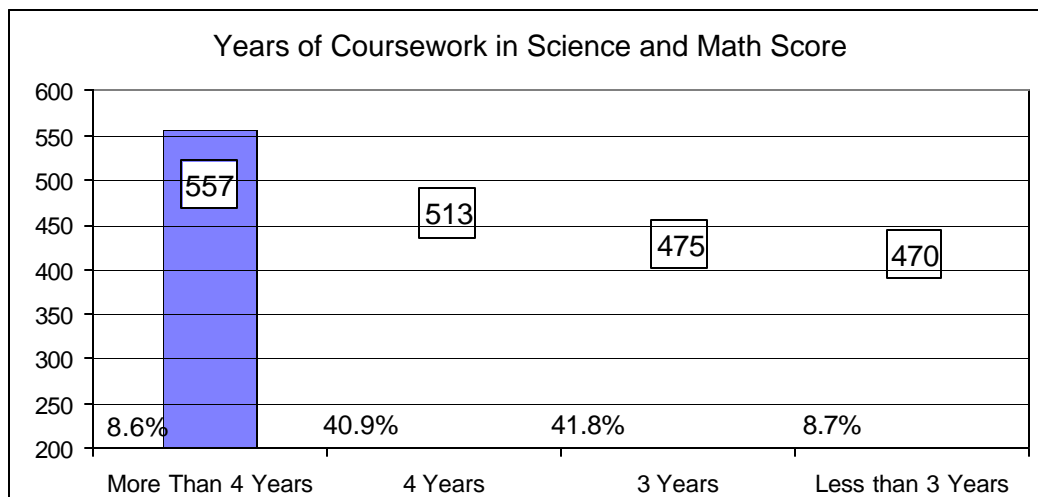
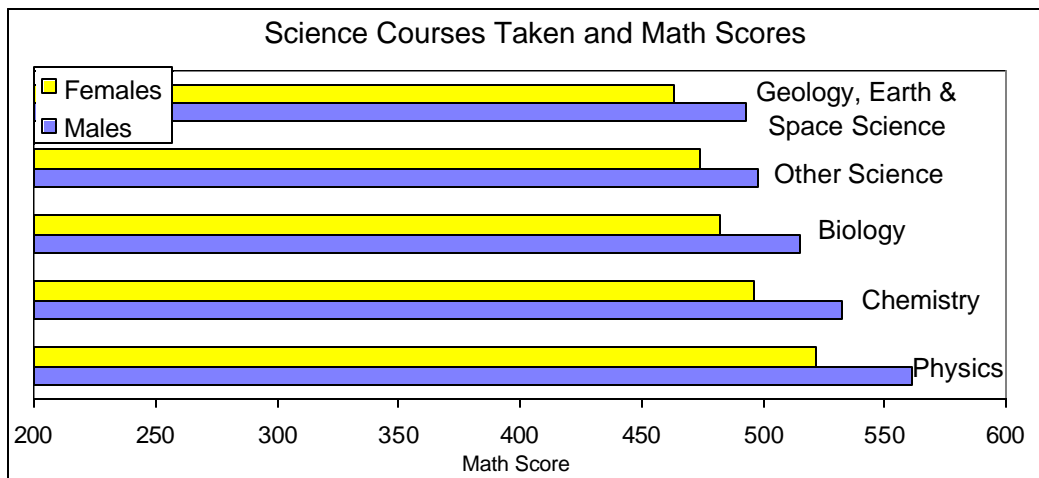
*Total test takers supplying information on the number of courses taken.



Natural Science Courses Taken and Math Score*
2003 Florida SAT Test Takers

	Males				Females				Total			
	Total Number	%	SAT Math	Aver. Years Sci.	Total Number	%	SAT Math	Aver. Years Sci.	Total Number	%	SAT Math	Aver. Years Sci.
Physics	11,410	44.4	561	4.4	12,360	36.5	522	4.3	23,770	39.9	540	4.4
Chemistry	21,146	82.4	532	3.9	28,114	83.0	496	3.8	49,260	82.7	511	3.9
Biology	25,479	99.2	515	3.7	33,633	99.3	482	3.7	59,112	99.2	496	3.7
Other Science	11,071	43.1	498	4.1	18,246	53.8	474	3.9	29,317	49.2	483	4.0
Geology, Earth Science and Space Science	12,519	48.8	493	4.0	15,801	46.6	463	3.9	28,320	47.5	476	3.9
Total Responded*	25,678	100.0	518	3.7	33,885	100.0	485	3.6	59,563	100.0	498	3.7

*Based on test takers who supplied information on the courses they had taken.



Selected Courses Taken
2003 Florida SAT Test Takers - SAT By Race

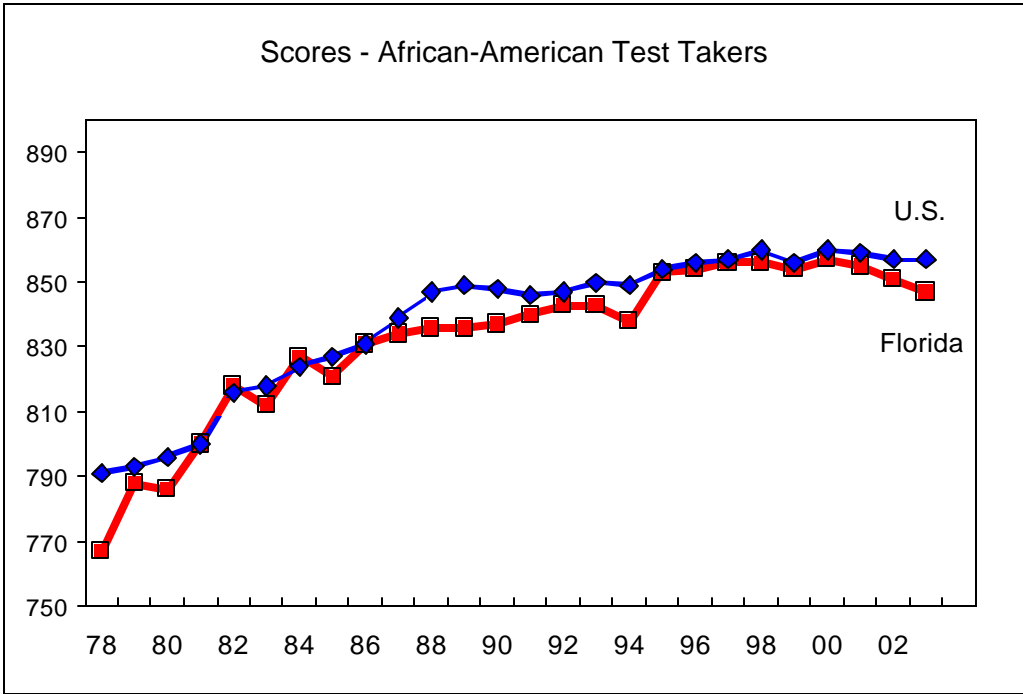
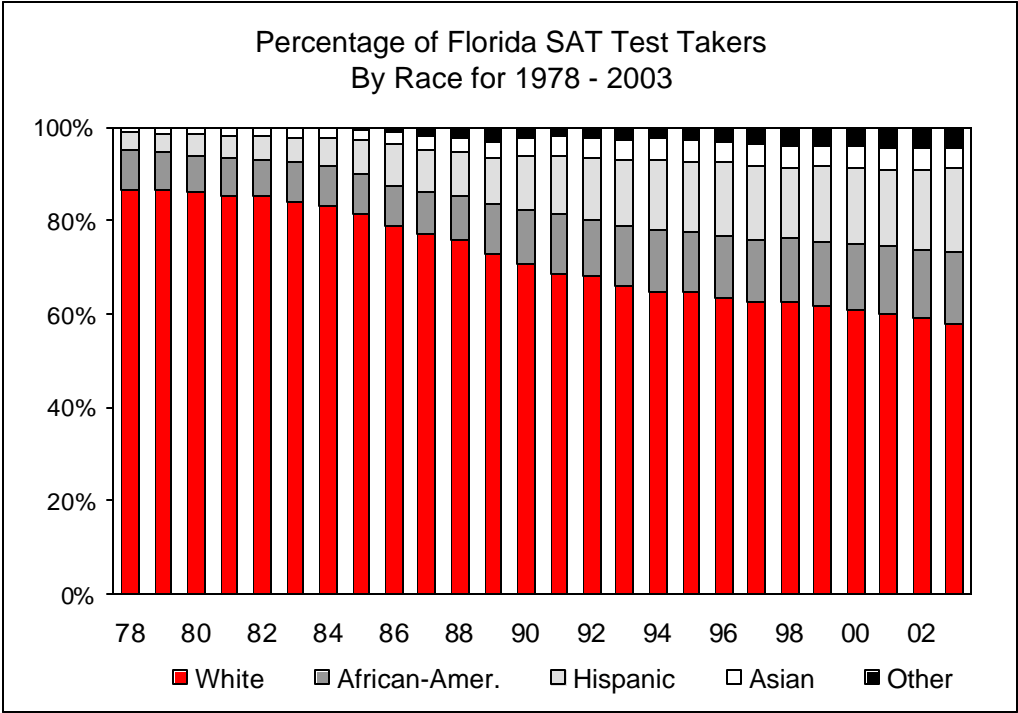
Subject	W H I T E				AFRICAN-AMERICAN				H I S P A N I C				A S I A N				T O T A L*				
	Math Mean		Non		Math Mean		Non		Math Mean		Non		Math Mean		Non		Math Mean		Non		
	Course Takers	Course Takers	Course Takers	%	Course Takers	Course Takers	Course Takers	%	Course Takers	Course Takers	Course Takers	%	Course Takers	Course Takers	Course Takers	%	Course Takers	Course Takers	Course Takers	%	
Algebra I																					
Men	539	572	14,026	98.5	425	448	3,600	97.8	495	506	4,223	98.2	564	599	1,180	97.4	514	531	25,924	98.3	
Women	506	509	18,103	98.7	418	416	5,251	98.0	459	467	5,841	98.5	522	571	1,234	96.9	482	485	34,057	98.5	
All	520	539	32,129	98.6	421	430	8,851	97.9	474	485	10,064	98.4	543	584	2,414	97.2	495	506	59,981	98.4	
Geometry																					
Men	541	499	13,889	96.7	427	391	3,530	94.4	495	491	4,176	95.9	565	574	1,188	95.8	515	475	25,340	96.1	
Women	507	458	18,026	97.2	418	382	5,285	96.5	460	436	5,824	96.8	521	549	1,250	95.7	483	443	33,500	96.9	
All	522	478	31,915	96.9	422	386	8,815	95.6	475	462	10,000	96.5	543	561	2,438	95.8	497	459	58,840	96.5	
Algebra II																					
Men	538	541	9,660	67.8	426	426	2,324	63.1	493	498	2,644	61.5	555	578	681	56.2	514	514	16,972	64.3	
Women	506	504	12,327	67.2	421	413	3,250	60.6	460	458	3,664	61.8	521	528	704	55.3	484	477	21,938	63.4	
All	520	520	21,987	67.5	423	418	5,574	61.7	474	475	6,308	61.7	544	543	1,385	55.6	497	493	38,910	63.8	
Trigonometry																					
Men	582	518	4,649	32.4	483	411	727	19.4	530	482	1,217	28.0	598	544	486	39.2	564	493	7,836	29.7	
Women	544	489	5,421	29.2	464	404	1,173	21.4	497	447	1,423	23.7	547	509	547	34.8	526	465	9,270	26.8	
All	562	502	10,070	30.6	471	407	1,900	20.6	512	461	2,640	25.5	574	526	940	36.9	543	477	17,106	28.1	
Pre-Calculus																					
Men	602	500	5,513	38.4	502	406	755	20.2	559	459	1,582	36.3	615	509	655	52.8	586	474	9,412	35.7	
Women	533	473	6,520	35.1	477	398	1,327	24.2	522	429	1,949	32.4	573	472	648	49.6	547	449	11,451	33.1	
All	582	484	12,033	36.6	486	401	2,082	22.6	538	441	3,531	34.1	594	490	1,303	51.2	565	460	20,863	34.2	
Calculus																					
Men	631	514	3,113	21.7	529	414	357	9.5	586	475	791	18.2	649	518	449	36.2	618	488	5,221	19.8	
Women	598	486	3,199	17.2	510	407	548	10.0	557	443	825	13.7	602	489	388	29.7	582	463	5,456	15.8	
All	614	498	6,312	19.2	517	420	905	9.8	571	456	1,616	15.6	627	502	837	32.9	599	474	10,677	17.5	
Other Math - One Year Only																					
Men	533	542	3,357	24.3	429	423	860	24.0	493	497	1,049	24.9	560	567	239	20.3	512	516	7,142	27.1	
Women	501	508	4,829	27.4	423	413	1,422	27.4	460	460	1,626	28.1	520	525	342	27.8	481	483	10,715	31.0	
All	514	524	8,186	26.0	425	418	2,282	26.0	473	476	2,675	26.8	537	547	581	24.1	493	498	17,857	29.3	
Other Math - Two Years																					
Men	514	540	565	4.1	417	425	200	5.6	488	496	165	3.9	564	565	60	5.1	492	515	1,114	4.2	
Women	484	506	852	4.8	417	416	300	5.8	443	460	295	5.1	506	524	68	5.5	465	482	1,679	4.9	
All	496	521	1,417	4.5	417	420	500	5.7	459	475	460	4.6	533	544	128	5.3	476	497	2,793	4.8	
Total Number Test Takers**	Math Mean	N			Math Mean	N			Math Mean	N			Math Mean	N			Math Mean	N			
Men	539	16,209			426	3,987			495	4,839			567	1,373			515	37,772			
Women	505	20,344			417	5,699			460	6,510			524	1,433			483	45,625			
All	520	36,553			421	9,686			475	11,349			545	2,806			498	83,397			

*Includes other races and those test takers who did not indicate a race.

**Includes test takers who did not supply information on the courses they had taken.

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SAT Scores by Racial-Ethnic Groups

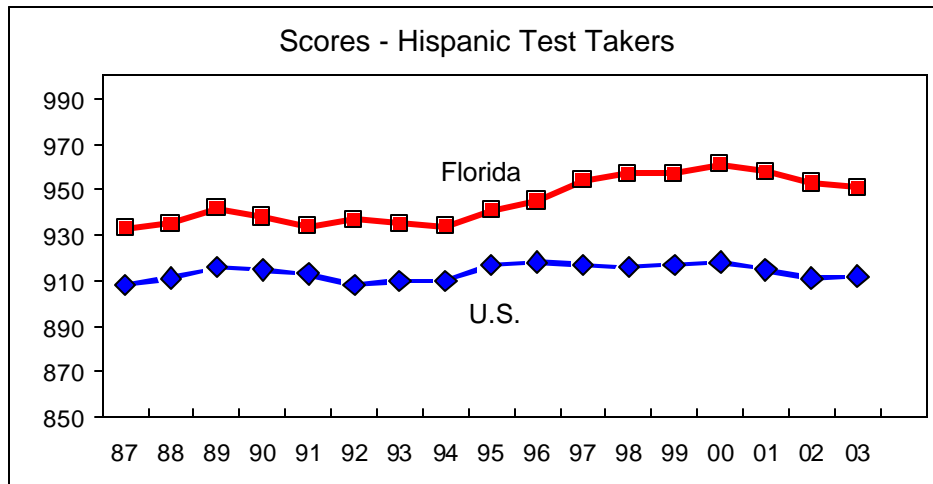
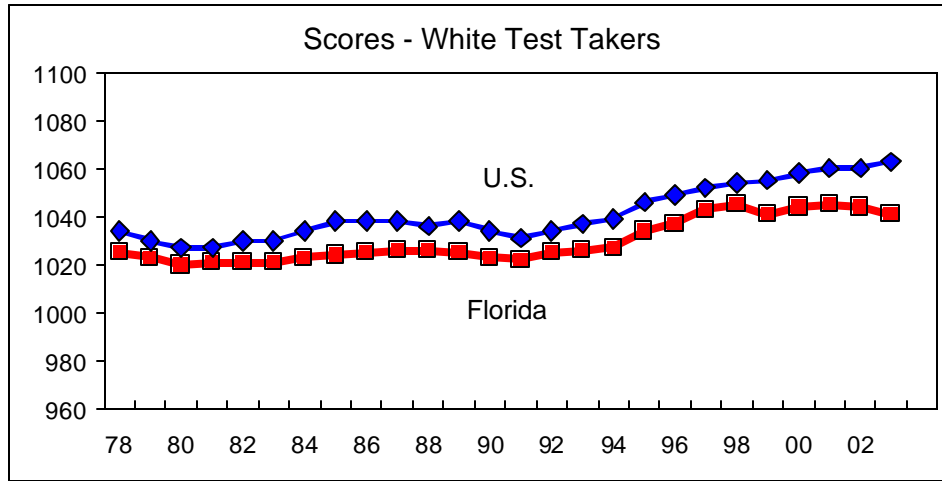


2003 SAT Composite Scores by Racial-Ethnic Groups Florida and the Nation

Racial-Ethnic Groups	Florida		U.S.		Difference*	
	%	Total Score	%	Total Score	%	Total Score
White	57.7	1041	63.8	1063	6.1	22
African American	15.3	847	12.0	857	-3.3	10
Hispanic	17.9	951	10.2	912	-7.7	-39
Asian	4.4	1049	9.6	1083	5.2	34
Other	4.7	975	4.4	1006	-0.3	31
Total Responded**	100.0	992	100.0	1023	-	31
Non Respondents	24.1	1005	25.3	1035	1.2	30

*Positive values: U.S. is higher than Florida

**Test takers who indicated their race-ethnicity



Florida
Numbers of SAT Test Takers by Racial-Ethnic Groups
1980-2003

NUMBER	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	1999	2000	2001	2002	2003**
White	27,538	28,680	27,604	29,100	34,955	29,945	31,089	30,374	30,102	33,158	34,041	34,693	35,013	36,315	36,553
African-American	2,585	2,603	2,797	3,125	4,489	5,024	5,596	6,270	6,459	7,141	7,796	8,234	8,425	9,018	9,686
Hispanic	1,449	1,731	2,007	3,210	4,372	4,886	6,099	7,130	7,428	8,103	8,855	9,308	9,707	10,700	11,349
Asian	368	510	640	989	1,362	1,669	1,972	2,144	2,189	2,417	2,431	2,699	2,765	2,902	2,806
Other	118	148	145	396	1,070	950	1,053	1,218	1,464	2,122	2,223	2,239	2,547	2,692	2,940
Total Responded*	32,058	33,672	33,193	36,820	46,248	42,474	45,808	47,136	47,642	52,941	55,346	57,173	58,457	61,627	63,334
No Response	3,766	4,202	4,712	3,804	2,506	2,510	2,762	3,477	3,337	5,099	7,178	10,093	10,906	14,037	20,063
Total	35,824	37,874	37,905	40,624	48,754	44,984	48,510	50,613	50,979	58,040	62,524	67,266	69,363	75,664	83,397
PERCENTAGE															
White	85.9	85.2	83.2	79.0	75.6	70.5	67.9	64.4	63.2	62.6	61.5	60.7	59.9	58.9	57.7
African-American	8.1	7.7	8.4	8.5	9.7	11.8	12.2	13.3	13.6	13.5	14.1	14.4	14.4	14.6	15.3
Hispanic	4.5	5.1	6.0	8.7	9.5	11.5	13.3	15.1	15.6	15.3	16.0	16.3	16.6	17.4	17.9
Asian	1.1	1.5	1.9	2.7	2.9	3.9	4.3	4.5	4.6	4.6	4.4	4.7	4.7	4.7	4.4
Other	0.4	0.4	0.4	1.1	2.3	2.2	2.3	2.6	3.1	4.0	4.0	3.9	4.4	4.4	4.6
Total Responded*	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
No Response	10.5	11.1	12.4	9.4	5.1	5.6	5.7	6.9	6.5	8.8	11.5	15.0	15.7	18.6	24.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*Total number of students who responded to the questionnaire item asking them to categorize themselves as to race/ethnicity.

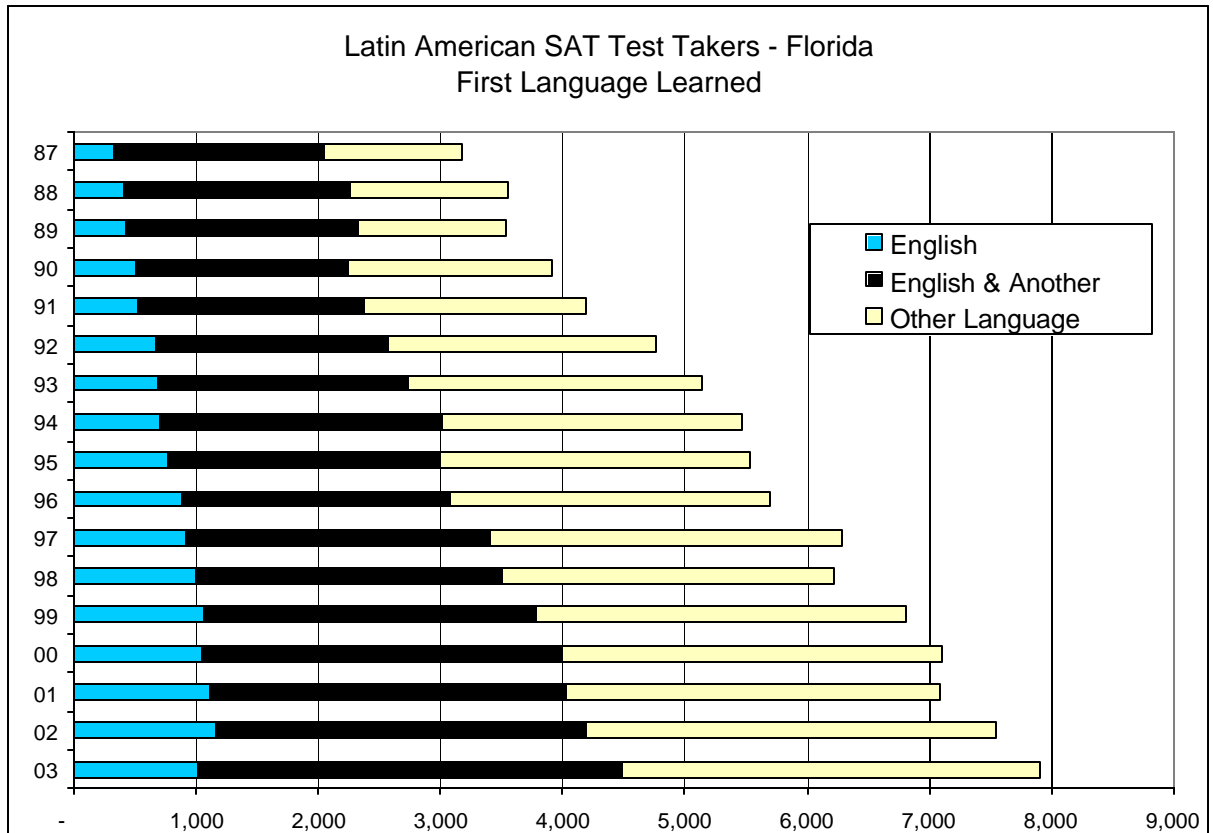
**Because of the increase in the number of nonrespondents, the populations in 2003 may not be comparable to the populations in earlier years.

Florida SAT Scores by Ethnic Groups

	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	1999	2000	2001	2002	2003**
VERBAL															
White	516	518	516	517	517	514	513	514	521	523	521	522	523	521	521
African-American	394	413	413	417	417	420	421	418	429	429	431	431	430	426	426
Hispanic	484	474	474	472	472	474	474	470	479	479	481	480	479	476	476
Asian	479	482	484	489	491	489	495	484	502	504	501	501	502	502	504
Other	471	476	472	466	475	469	473	482	489	495	498	495	487	487	487
Total Responded*	504	507	504	503	501	496	495	492	500	501	500	500	500	497	496
No Response	474	463	472	490	457	473	462	458	472	482	489	487	491	493	503
Total	501	502	500	502	499	495	493	490	498	500	499	498	498	496	498
MATHEMATICS															
White	504	503	507	508	509	509	512	513	516	522	520	522	522	523	520
African-American	392	405	414	414	419	417	422	420	425	427	423	426	425	425	421
Hispanic	475	464	472	472	471	473	475	473	475	478	476	481	479	477	475
Asian	522	525	543	531	526	528	531	530	541	546	543	547	543	544	545
Other	468	474	474	462	465	467	477	471	482	490	489	491	482	488	488
Total Responded*	494	494	498	497	496	494	496	494	498	502	499	502	500	500	496
No Response	458	461	469	486	472	479	459	459	471	485	490	493	494	495	502
Total	490	490	494	496	495	493	494	492	496	501	498	500	499	499	498
TOTAL SCORE															
White	1020	1021	1023	1025	1026	1023	1025	1027	1037	1045	1041	1044	1045	1044	1041
African-American	786	818	827	831	836	837	843	838	854	856	854	857	855	851	847
Hispanic	959	938	946	944	943	947	949	943	954	957	957	961	958	953	951
Asian	1001	1007	1027	1020	1017	1017	1026	1014	1043	1050	1044	1048	1045	1046	1049
Other	939	950	946	928	940	936	950	954	971	985	987	986	969	975	975
Total Responded*	998	1001	1002	1000	997	990	991	986	998	1003	999	1002	1000	997	992
No Response	933	924	941	976	929	952	921	916	943	967	978	980	985	988	1005
Total	991	992	994	998	994	988	987	982	994	1001	997	998	997	995	996

*Test takers who indicated their race-ethnicity.

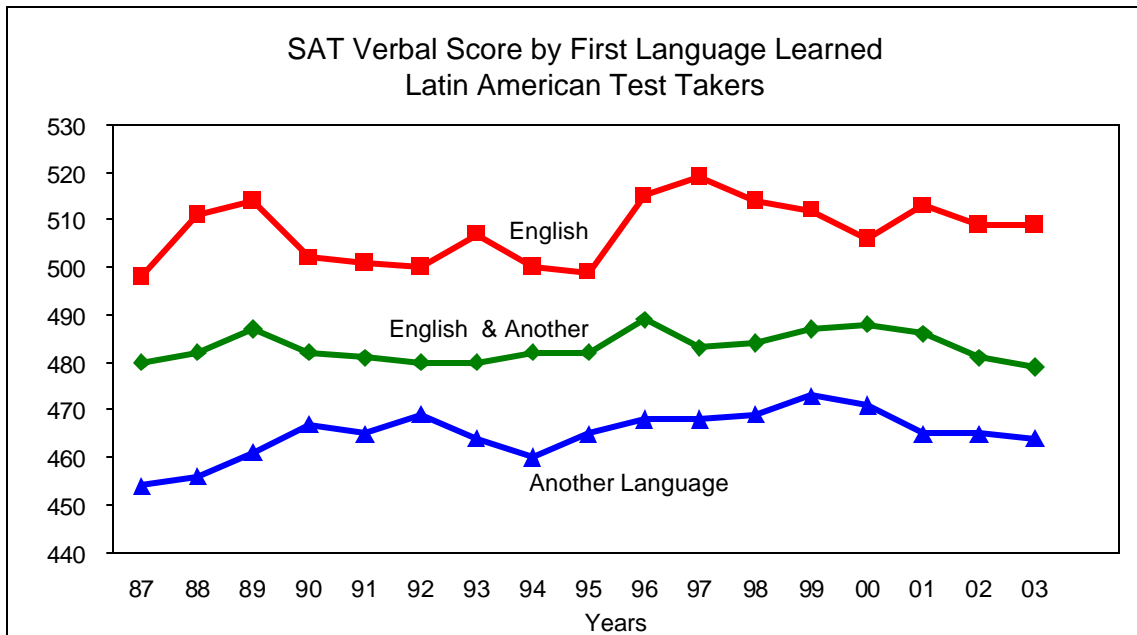
**Because of the increase in the number of nonrespondents, the scores for 2003 may not be comparable to the scores in earlier years.



Latin American SAT Test Takers - Florida*
By First Language Learned

	1987	1989	1991	1993	1995	1997	1999	2001	2002	2003
English	331	417	518	692	768	923	1,059	1,104	1,159	1,011
English & Another	1,715	1,909	1,853	2,032	2,228	2,473	2,720	2,920	3,024	3,479
Other Language	1,123	1,204	1,827	2,413	2,533	2,891	3,033	3,067	3,368	3,421
Total	3,169	3,530	4,198	5,137	5,529	6,287	6,812	7,091	7,551	7,911
PERCENTAGES										
English	10.4	11.8	12.3	13.5	13.9	15.5	15.5	14.8	15.3	12.8
English & Another	54.1	54.1	44.1	39.6	40.2	38.6	39.9	41.3	40.0	44.0
Other Language	35.4	34.1	43.5	47.0	45.7	45.9	44.5	43.9	44.6	43.2
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

*Does not include Mexican-Americans or Puerto Ricans.



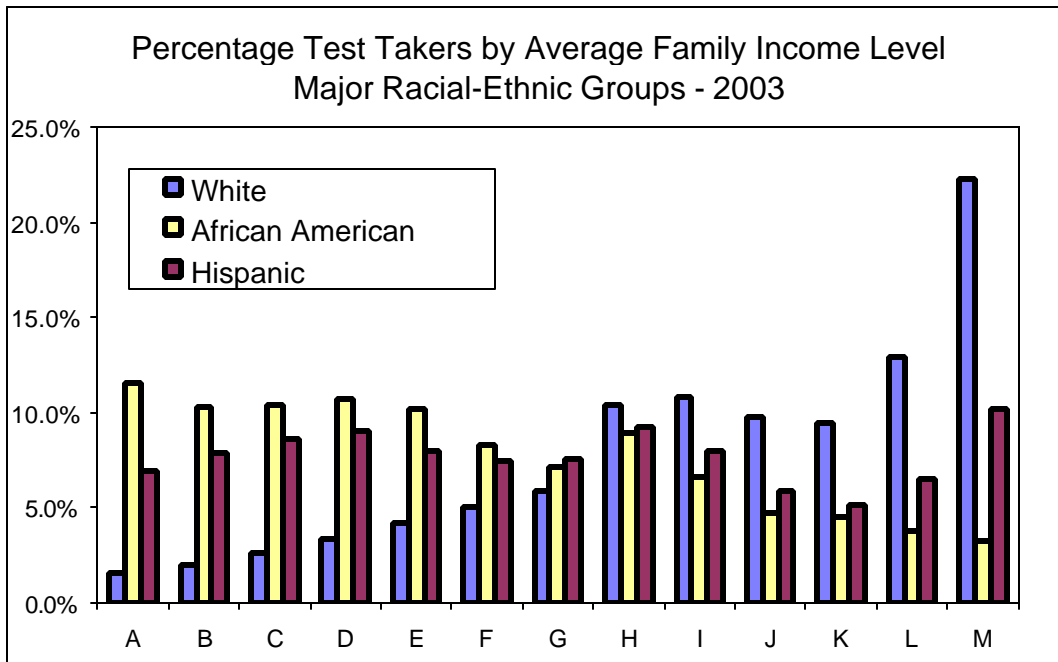
SAT Scores - Latin American Test Takers - Florida*
By First Language Learned

	1987	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
VERBAL SCORE											
English	498	514	501	507	499	519	512	506	513	509	509
English & Another	480	487	481	480	482	483	487	488	486	481	479
Another Language	454	461	465	464	465	468	473	471	465	465	464
Total	473	481	479	476	477	482	484	483	481	478	479
MATH SCORE											
English	492	503	502	499	498	511	507	503	507	503	502
English & Another	476	476	475	470	474	474	474	481	477	474	469
Another Language	473	470	476	473	476	476	476	481	478	478	478
Total	476	477	479	475	478	480	480	484	482	481	479
TOTAL SCORE											
English	990	1017	1003	1006	997	1030	1019	1009	1020	1012	1011
English & Another	956	963	956	950	956	957	961	969	963	955	948
Another Language	927	931	941	937	941	944	949	952	943	943	942
Total	949	958	958	951	955	962	964	967	963	959	958

*Does not include Mexican-Americans or Puerto Ricans.

Test Takers by Average Family Income Level
Major Racial-Ethnic Groups - 2003

		Number			Percentage		
		White	Afri. Amer	Hispanic	White	Afri. Amer	Hispanic
A	Less than \$10,000	352	850	504	1.5%	11.6%	6.9%
B	\$10,000-\$15,000	462	757	577	2.0%	10.3%	7.9%
C	\$15,000-\$20,000	589	760	633	2.6%	10.4%	8.6%
D	\$20,000-\$25,000	776	787	662	3.4%	10.7%	9.0%
E	\$25,000-\$30,000	966	746	584	4.2%	10.2%	8.0%
F	\$30,000-\$35,000	1,147	606	541	5.0%	8.3%	7.4%
G	\$35,000-\$40,000	1,339	525	553	5.8%	7.2%	7.5%
H	\$40,000-\$50,000	2,387	653	675	10.4%	8.9%	9.2%
I	\$50,000-\$60,000	2,487	480	587	10.8%	6.5%	8.0%
J	\$60,000-\$70,000	2,240	341	426	9.7%	4.6%	5.8%
K	\$70,000-\$80,000	2,157	326	372	9.4%	4.4%	5.1%
L	\$80,000-\$100,000	2,969	275	473	12.9%	3.7%	6.5%
M	More than \$100,000	5,111	232	744	22.2%	3.2%	10.1%
	Total Responding	22,982	7,338	7,331	100.0%	100.0%	100.0%



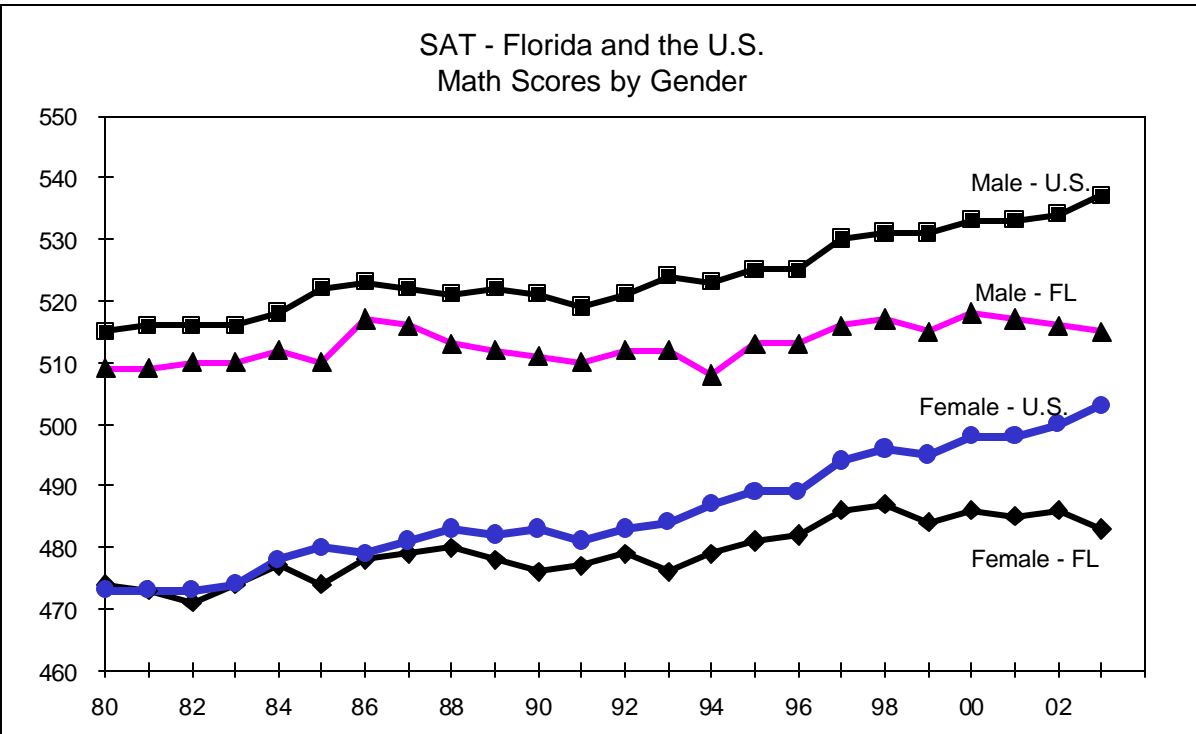
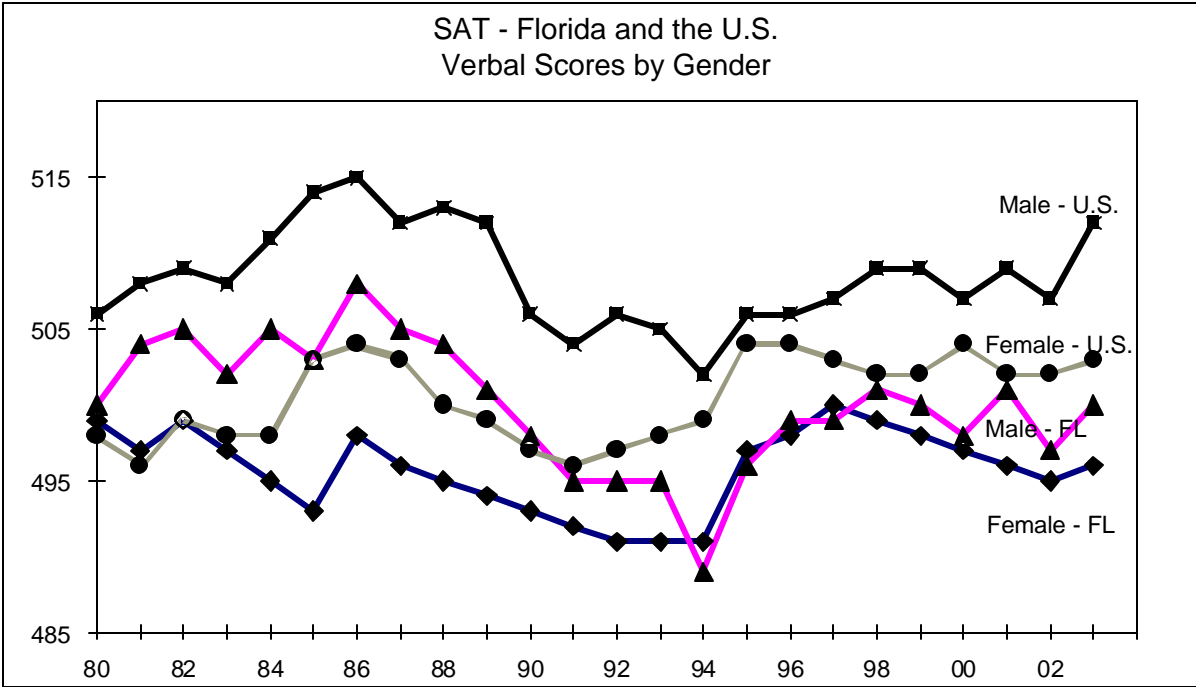
SAT Scores by Gender

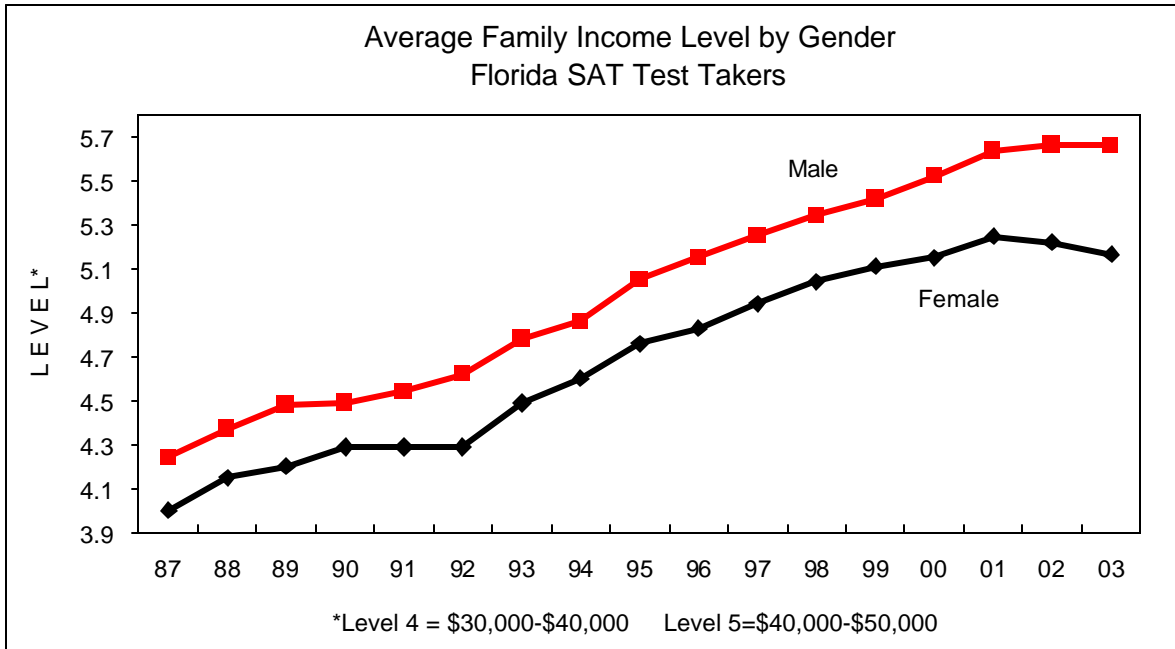
SAT Scores by Gender
1980 - 2003

FLORIDA	1980	1983	1986	1989	1992	1995	1998	2001	2002	2003
Female										
# of Students	18,362	19,331	21,355	25,185	25,945	27,361	31,702	37,631	41,655	45,625
Percentage	51.2	51.8	52.6	53.3	53.4	54.2	54.6	54.3	55.1	54.7
Verbal	499	497	498	494	491	497	499	496	495	496
Math	474	474	478	478	479	481	487	485	486	483
Total Score	973	971	976	972	970	978	986	981	981	979
Male										
# of Students	17,467	17,976	19,269	22,089	22,625	23,109	26,338	31,732	34,009	37,772
Percentage	48.8	48.2	47.4	46.7	46.6	45.8	45.4	45.7	44.9	45.3
Verbal	500	502	508	501	495	496	501	501	497	500
Math	509	510	517	512	512	513	517	517	516	515
Total Score	1009	1012	1025	1013	1007	1009	1018	1018	1013	1015
Differences between females and males (Positive values: Males are higher than females)										
Verbal	1	5	10	7	4	(1)	2	5	2	4
Math	35	36	39	34	33	32	30	32	30	32
Total Score	36	41	49	41	37	31	32	37	32	36

U.S.	1980	1983	1986	1989	1992	1995	1998	2001	2002	2003
Female										
Percentage	51.7	51.7	51.9	52.1	52.4	53.7	53.8	53.8	53.6	53.6
Verbal	498	498	504	499	497	504	502	502	502	503
Math	473	474	479	482	483	489	496	498	500	503
Total Score	971	972	983	981	980	993	998	1000	1002	1006
Male										
Percentage	48.3	48.3	48.3	47.9	47.6	46.3	46.2	46.2	46.4	46.4
Verbal	506	508	515	512	506	506	509	509	507	507
Math	515	516	523	522	521	525	531	533	534	534
Total Score	1021	1024	1038	1034	1027	1031	1040	1042	1041	1041
Difference between females and males (Positive value: Males are higher than females)										
Verbal	8	10	11	13	9	2	7	7	5	4
Math	42	42	44	40	38	36	35	35	34	31
Total Score	50	52	55	53	47	38	42	42	39	35

SCORE DIFFERENCE BETWEEN U.S. AND FLORIDA (Positive values: U.S. is higher than Florida)	1980	1983	1986	1989	1992	1995	1998	2001	2002	2003
Female										
Verbal	-1	1	6	5	6	7	3	6	7	7
Math	-1	0	1	4	4	8	9	13	14	20
Total Score	-2	1	7	9	10	15	12	19	21	27
Male										
Verbal	6	6	7	11	11	10	8	8	10	7
Math	6	6	6	10	9	12	14	16	18	19
Total Score	12	12	13	21	20	22	22	24	28	26





Average Family Income Level Florida SAT Test Takers By Gender - 2003

	Male		Female	
	Number	%age	Number	%age
Less than \$10,000	670	3.6	1,281	5.4
\$10,000-\$20,000	1,588	8.5	2,750	11.6
\$20,000-\$30,000	2,027	10.8	3,148	13.3
\$30,000-\$40,000	2,200	11.7	3,180	13.4
\$40,000-\$50,000	1,852	9.9	2,331	9.9
\$50,000-\$60,000	1,811	9.7	2,165	9.2
\$60,000-\$70,000	1,558	8.3	1,786	7.6
More than \$70,000	7,038	37.5	7,005	29.6

Average Family Income by Gender Florida SAT Test Takers

	1989	1991	1993	1995	1997	1999	2000	2001	2002	2003
Males	4.48	4.54	4.78	5.05	5.25	5.42	5.52	5.63	5.66	5.66
Females	<u>4.20</u>	<u>4.29</u>	<u>4.49</u>	<u>4.76</u>	<u>4.94</u>	<u>5.11</u>	<u>5.15</u>	<u>5.25</u>	<u>5.22</u>	<u>5.17</u>
Difference	0.28	0.25	0.29	0.29	0.31	0.31	0.37	0.39	0.44	0.49

Average income level
(Level 4 = \$30,000-\$40,000; Level 5 = \$40,000-\$50,000)

Florida SAT Scores by Gender and Racial-Ethnic Groups
By Gender and Racial-Ethnic Groups

	Male				Female				% Female	Score Difference (Male - Female)		
	Number	Verbal	Math	Total	Number	Verbal	Math	Total		Verbal	Math	Total
<u>1992</u>												
White	14,284	516	532	1048	16,805	509	495	1004	53.1	7	37	44
African-Amer.	2,442	414	426	841	3,154	426	418	844	56.4	-12	8	-3
Hispanic	2,771	480	496	977	3,328	468	457	925	54.6	12	39	51
Asian	951	498	551	1049	1,021	493	512	1005	51.8	5	39	44
Total*	22,625	495	512	1007	25,945	491	479	970	53.4	4	33	37
<u>1996</u>												
White	13,575	524	535	1059	16,527	519	501	1020	54.9	5	34	39
African-Amer.	2,727	419	430	849	3,732	436	421	857	57.8	-17	9	-8
Hispanic	3,244	482	493	975	4,184	477	461	938	56.3	5	32	37
Asian	1,051	504	561	1065	1,138	499	524	1023	52.0	5	37	42
Total*	23,234	499	513	1012	27,745	498	482	980	54.4	1	31	32
<u>2000</u>												
White	15,374	524	542	1066	19,346	520	507	1027	55.7	4	35	39
African-Amer.	3,324	424	432	856	4,910	437	423	860	59.6	-13	9	-4
Hispanic	3,891	484	501	985	5,417	478	466	944	58.2	6	35	41
Asian	1,218	502	564	1066	1,481	500	532	1032	54.9	2	32	34
Total*	30,412	499	518	1017	36,854	497	486	983	54.8	2	32	34
<u>2001</u>												
White	15,702	527	542	1069	19,311	520	506	1026	55.2	7	36	43
African-Amer.	3,523	427	433	860	4,902	432	420	852	58.2	-5	13	8
Hispanic	4,201	482	498	980	5,506	477	465	942	56.7	5	33	38
Asian	1,283	508	565	1073	1,482	497	526	1023	53.6	11	39	50
Total*	31,732	501	517	1018	37,631	496	485	981	54.3	5	32	37
<u>2002</u>												
White	16,054	523	541	1064	20,261	519	508	1027	55.8	4	33	37
African-Amer.	3,710	417	431	848	5,308	432	421	853	58.9	-15	10	-5
Hispanic	4,495	478	496	974	6,205	474	463	937	58.0	4	33	37
Asian	1,324	503	563	1066	1,578	500	529	1029	54.4	3	34	37
Total*	34,009	497	516	1013	41,655	495	486	981	55.1	2	30	32
<u>2003</u>												
White	16,209	523	539	1062	20,344	519	505	1024	55.7	4	34	38
African-Amer.	3,987	419	426	845	5,699	431	417	848	58.8	-12	9	-3
Hispanic	4,839	481	495	976	6,510	472	460	932	57.4	9	35	44
Asian	1,373	506	567	1073	1,433	501	524	1025	51.1	5	43	48
Total*	37,772	500	515	1015	45,625	496	483	979	54.7	4	32	36

*Total includes other racial-ethnic groups and students who did not declare a race.

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