

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 students graduating in 2004 scored an average 998 on the SAT, up two points from 2003. Scores were up one point each on both the verbal and the math sections.
- The combined score for the U.S. is 1026, the same as the prior year. The verbal score was up one point, while the math score went down one point.
- Florida continues to have a significantly 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 Florida test takers increased 5%, up from 83,397 in 2003 to 87,290. This represents an increase in the proportion of graduates taking the exam from 60% of all graduates to 61%.
- Nationwide, the number of test takers as a percentage of the graduates increased slightly, from 47.6% to 48.0%.

Profile of the 2004 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 61% 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 2004, minority students represent 43%. (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 2004 the percentage had increased to 36%, with Asians, whose scores are typically well above average, representing 9.8% of the total, compared to 4.3% 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 SAT 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

- Similarly to 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 Florida 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.)

²*Parental 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, nearly 99% take algebra I, 97% take geometry and approximately 64% take algebra II. Small differences can be seen in higher level math courses, including pre-calculus (37% males, 34% females) and calculus (19% males, 16% 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 537, while those who have taken chemistry have a score of 508. 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 SAT 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 27 years covered in this report. During that time the percentage of Florida SAT white non-Hispanic test takers decreased from 86% to 57%, while the percentage who were African Americans increased from 9% to 15% and the percentage who were Hispanic increased from 4% to 19%. (See page 20.)⁴
- The number of test takers increased significantly among all racial-ethnic groups, with the largest increases among Hispanics, where the numbers jumped nearly 20%.
- The combined score for Florida African-American students jumped by nine points in 2004, from 847 to 856, while the score for Hispanics increased by two points, from 951 to 953. Scores for white non-Hispanics and Asians dropped.
- Approximately one-sixth of the test takers declined to indicate their race-ethnicity in 2004, down slightly from 2004, when nearly one quarter did not supply this information. The proportions of non-respondents

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.

are slightly larger nationwide. (The SAT Questionnaire does not include a multi-racial category, but it does include a category *other*.) For the past four years those who did not provide this information had higher average scores than those who did. The combined score for the non-respondents increased sharply in 2004 to 1033, up from 1005 the prior year. (See page 21.) The combined score for respondents was 990. The spread of scores between respondents and non-respondents makes any changes in scores by race problematic and may help to explain why Florida scores for white non-Hispanics and Asians, who comprise 62% of the test takers, went down (whites by 5 points, Asians by 8 points) while overall scores went up. At the same time scores for African-American test takers increased by 9 points and Hispanics by 2 points.

- Test takers are asked on the SAT Questionnaire to indicate their first language learned. The choices are: English, English and Another Language, or Another Language. Not surprisingly, there is a close relationship between scores and the first language learned. Among Hispanic Florida SAT test takers the percentage of those who indicated Another Language peaked in 1999 at 47%. This category jumped from 41% in 2003 to 45% in 2004. (See page 22.)
- Average scores ranged from 993 for Hispanics for whom English was their first language, 953 for those whose first language was English and another language, and 934 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 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 54.6 to 45.4 ratio for Florida, compared to a 53.5 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.
- After decreasing four points in 2002, verbal scores for males increased three points in 2003, from 497 to 500, and one more point in 2004, to 501. Verbal scores for females increased by one point each the last two years, from 495 in 2002 to 497 in 2004. Florida verbal scores for females historically have trailed verbal scores for males.

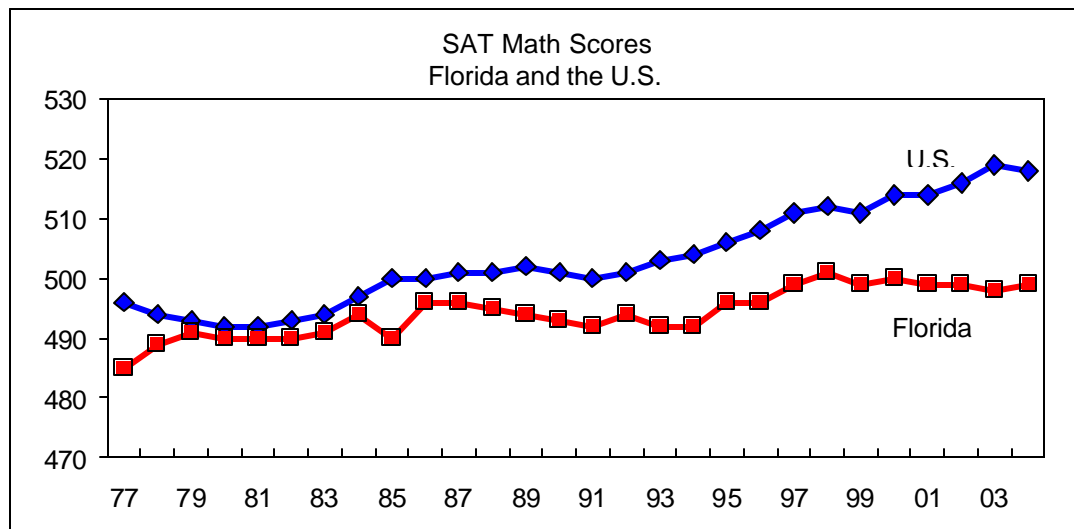
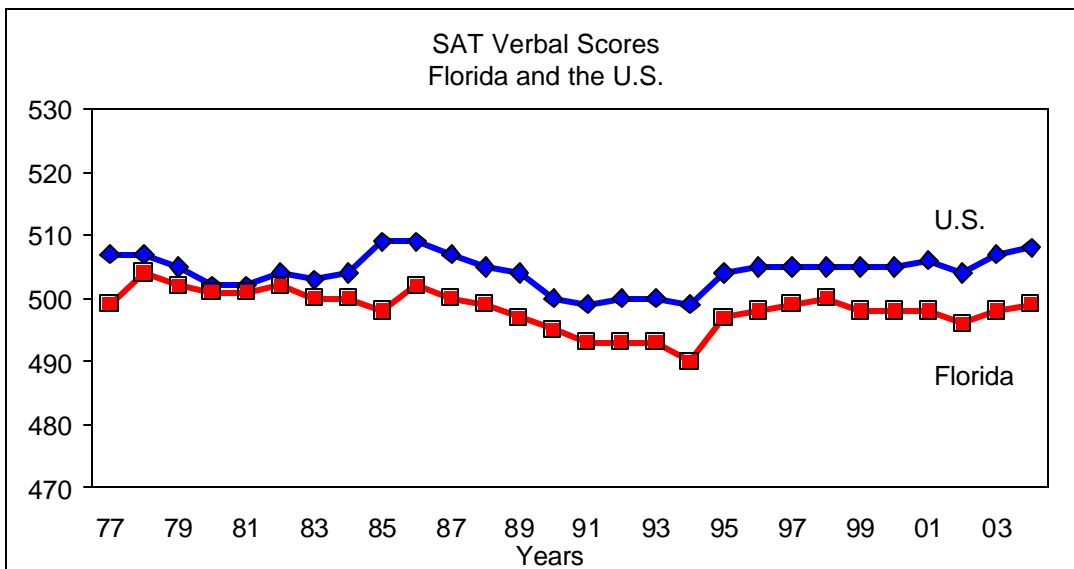
- Math scores for males have consistently been from 30-39 points higher than those for females. Nationwide, the scores for males are also higher than those for females on both sections. Like Florida, the gap is much wider in math. (See pages 26 and 27.)
- Among various racial-ethnic groups, 50% of the Asian test takers, 54% of white non-Hispanic test takers, 57% of the Hispanic test takers, and 58% 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 13 points higher than females in math but 12 points lower than females in verbal. African-American females scored 126 points lower on the combined score than the state average for females while African-American males scored about 162 points lower than the state average for males. However, the gaps for both genders have narrowed the last two years.
- The largest score increases in 2004 were made by African-American males (up 11 points) and African-American females (up 7 points).

SUMMARY OF RESULTS ON THE SAT
FLORIDA COLLEGE-BOUND SENIORS

	2002			2003			2004		
	Verbal	Math	Total	Verbal	Math	Total	Verbal	Math	Total
Florida	496	499	995	498	498	996	499	499	998
Nation	504	516	1020	507	519	1026	508	518	1026

Florida: Total score up two points; verbal and math scores went up one point each. 61% of the graduates took the exam; 39% of the test takers were from minority groups which historically have had below average means.

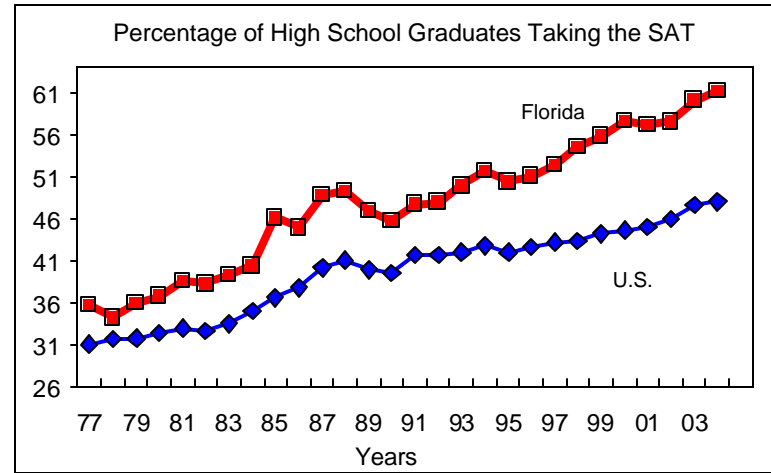
Nation: Total score stayed the same; verbal score when up one point and math score went down one point. graduates took the exam; 28% of the testtakers were from minority which historically have had below average means.



SAT Trends - Florida

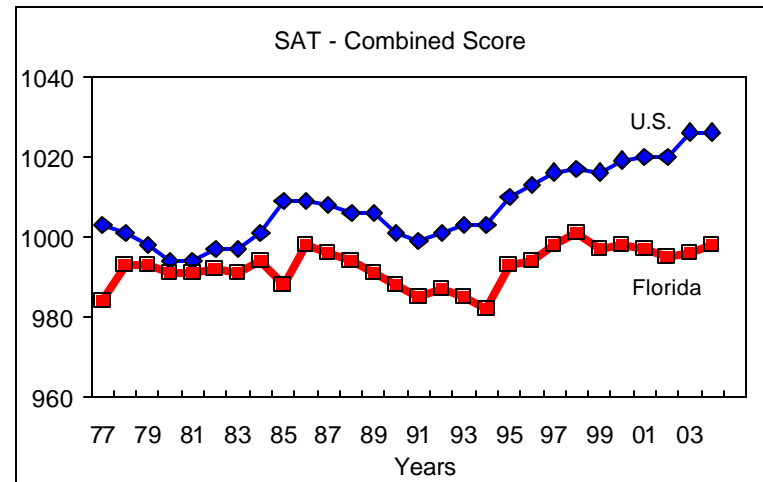
Grad Year	Number of Test Takers	High School Graduates*	Percentage of Graduates	Verbal Score	Math Score	Combined Score
1977	35,619	99,950	35.6	499	485	984
1980	35,824	97,600	36.7	501	490	991
1983	37,304	95,000	39.3	500	491	991
1986	40,624	90,550	44.9	502	496	998
1989	47,274	100,850	46.9	497	494	991
1992	48,570	101,350	47.9	493	494	987
1995	50,470	100,200	50.4	497	496	993
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	138,900	60.0	498	498	996
2004	87,290	142,725	61.2	499	499	998

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



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	2,487,139	41.8	500	501	1001
1995	1,067,993	2,546,985	41.9	504	506	1010
1998	1,172,779	2,708,760	43.3	505	512	1017
1999	1,220,130	2,766,025	44.1	505	511	1016
2000	1,260,278	2,828,999	44.5	505	514	1019
2001	1,276,320	2,840,786	44.9	506	514	1020
2002	1,327,831	2,894,429	45.9	504	516	1020
2003	1,406,324	2,952,536	47.6	507	519	1026
2004	1,419,007	2,958,908	48.0	508	518	1026



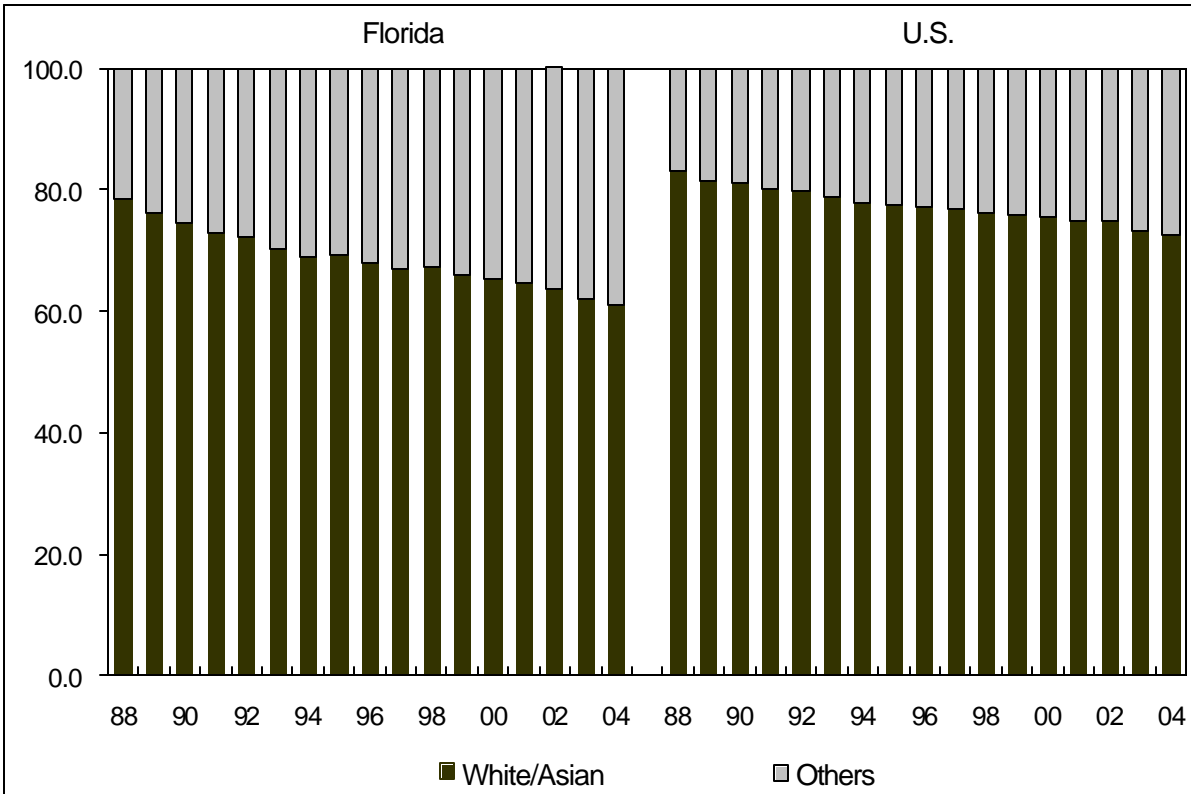
Profile of SAT Test Takers - Florida and the Nation

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

	Florida								U.S.							
	1988	1991	1994	1997	2000	2002	2003	2004	1988	1991	1994	1997	2000	2002	2003	2004
White	75.7	68.6	64.4	62.4	60.7	58.9	57.7	56.7	77.0	72.0	69.4	67.9	66.4	65.1	63.8	62.7
Asian	2.9	4.2	4.6	4.7	4.7	4.7	4.4	4.3	6.1	8.0	8.5	8.8	9.0	9.7	9.6	9.8
Total	78.6	72.8	69.0	67.1	65.4	63.6	62.1	61.0	83.1	80.0	77.9	76.7	75.4	74.8	73.4	72.5

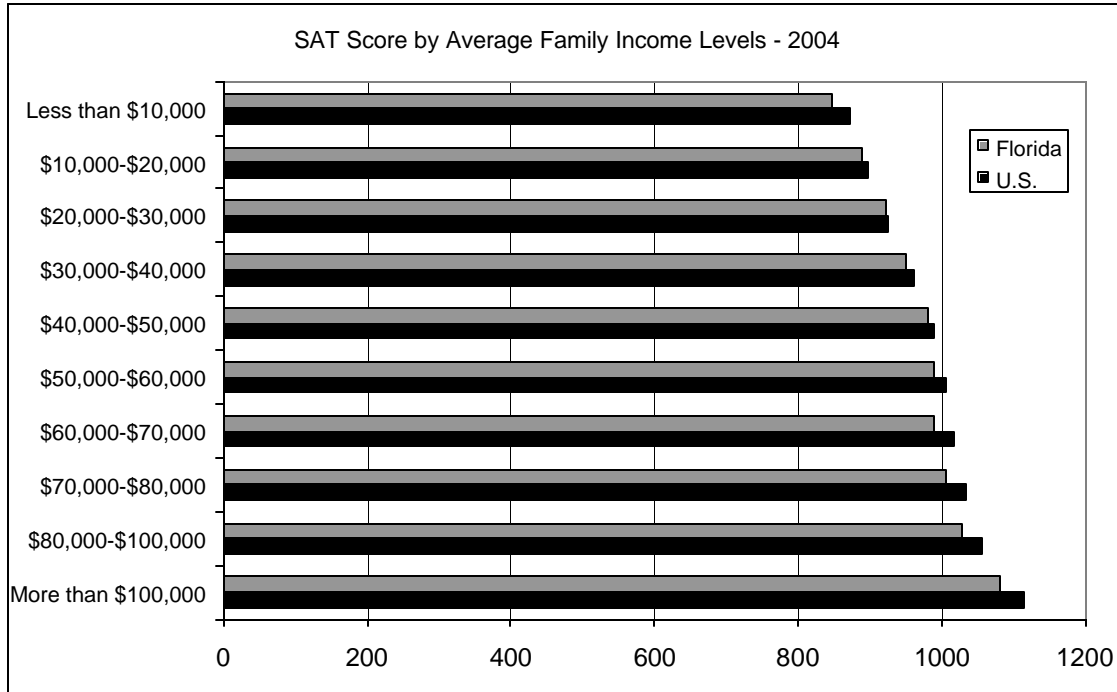
Percentage of Test Takers from Groups
Which Historically Have Below-Average Means

	Florida								U.S.							
	1988	1991	1994	1997	2000	2002	2003	2004	1988	1991	1994	1997	2000	2002	2003	2004
Afr.-Amer.	9.7	12.7	13.3	13.5	14.4	14.6	15.3	15.1	9.2	10.5	10.8	10.8	11.2	11.5	12.0	12.0
Hispanic	9.4	12.3	15.1	15.9	16.3	17.4	17.9	18.9	5.1	6.9	8.2	8.4	9.1	9.4	10.2	10.7
Other	2.3	2.2	2.6	3.5	3.9	4.4	4.7	5.0	2.5	2.5	3.1	4.1	4.3	4.3	4.4	4.8
Total	25.6	27.2	31.0	33.1	34.6	36.4	37.9	39.0	19.0	20.0	22.1	23.3	24.6	25.2	26.6	27.5



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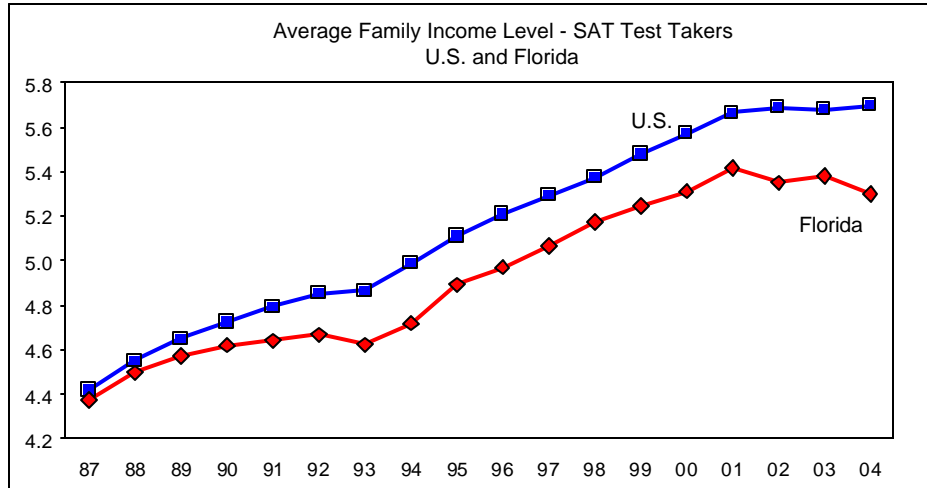
SAT Scores
By Income Level
And Level of Family Education



SAT Scores by Income Levels - 2004

	<u>Florida</u>			<u>The Nation</u>		
	Verbal	Math	Total	Verbal	Math	Total
Less than \$10,000	422	424	846	422	450	872
\$10,000-\$20,000	445	445	890	440	457	897
\$20,000-\$30,000	463	458	921	459	467	926
\$30,000-\$40,000	477	472	949	478	482	960
\$40,000-\$50,000	493	487	980	493	496	989
\$50,000-\$60,000	496	493	989	501	504	1005
\$60,000-\$70,000	497	493	990	507	510	1017
\$70,000-\$80,000	505	500	1005	515	518	1033
\$80,000-\$100,000	515	513	1028	527	530	1057
More than \$100,000	538	542	1080	553	562	1115

*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	2003	2004
1 Less than \$10,000	4.6	4.2	5.6	4.9	Less than \$10,000	4.6	4.2	3.6	4.6	4.8
2 \$10,000-\$20,000	15.3	13.4	14.0	12.2	\$10,000-\$20,000	11.2	10.5	9.4	10.2	10.3
3 \$20,000-\$30,000	19.7	17.7	16.6	15.1	\$20,000-\$30,000	14.0	13.3	12.6	12.2	12.4
4 \$30,000-\$40,000	19.5	18.5	17.2	16.2	\$30,000-\$40,000	15.1	14.8	13.3	12.7	13.3
5 \$40,000-\$50,000	12.7	13.0	12.1	11.7	\$40,000-\$50,000	11.6	11.5	10.6	9.9	10.3
6 \$50,000-\$60,000	9.3	10.2	9.9	10.2	\$50,000-\$60,000	10.7	10.7	10.1	9.4	9.6
7 \$60,000-\$70,000	5.1	6.4	6.8	7.6	\$60,000-\$70,000	7.9	8.1	8.3	7.9	8.4
8 \$70,000 or more	13.8	16.6	17.8	22.1	\$70,000-\$80,000	6.7	7.0	7.9	7.4	7.7
Total Responded	100.0	100.0	100.0	100.0	\$80,000-\$100,000	7.4	7.9	9.4	9.7	10.7
					More Than \$100,000	10.9	11.8	14.8	16.0	12.4
					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	5.38	5.30

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

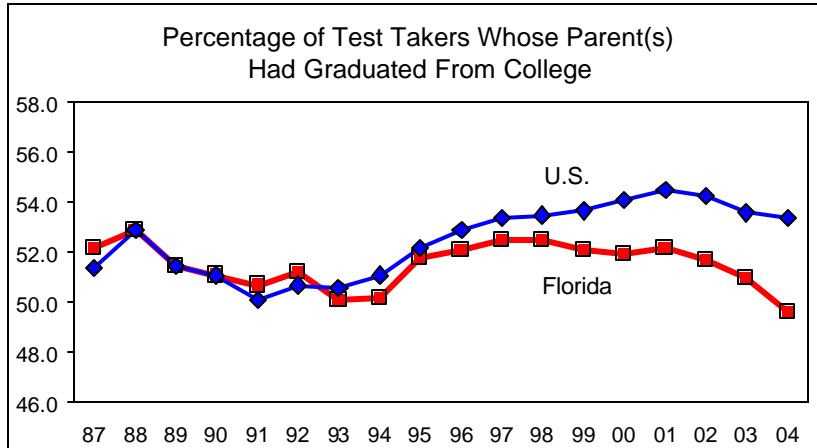
Percentage of Test Takers by Average Family Income Level - Nation

Less than \$10,000	5.3	4.8	5.7	5.3	Less than \$10,000	4.9	4.5	4.0	4.6	4.9
\$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	9.6	9.6
\$30,000-\$40,000	20.5	18.6	16.8	15.1	\$30,000-\$40,000	13.9	12.8	11.7	10.9	10.9
\$40,000-\$50,000	13.7	13.9	12.9	12.3	\$40,000-\$50,000	11.8	10.9	10.0	9.0	9.0
\$50,000-\$60,000	9.7	10.9	10.9	11.2	\$50,000-\$60,000	11.5	11.0	10.3	9.3	9.3
\$60,000-\$70,000	5.6	7.1	7.7	8.6	\$60,000-\$70,000	8.7	9.1	8.9	8.2	8.4
\$70,000 or more	13.3	17.3	20.6	24.8	\$70,000-\$80,000	7.4	8.0	8.3	10.5	8.3
Total Responded	100.0	100.0	100.0	100.0	\$80,000-\$100,000	8.8	10.0	11.0	11.1	11.8
					More Than \$100,000	12.1	14.4	17.6	18.6	19.6
					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	5.68	5.70

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

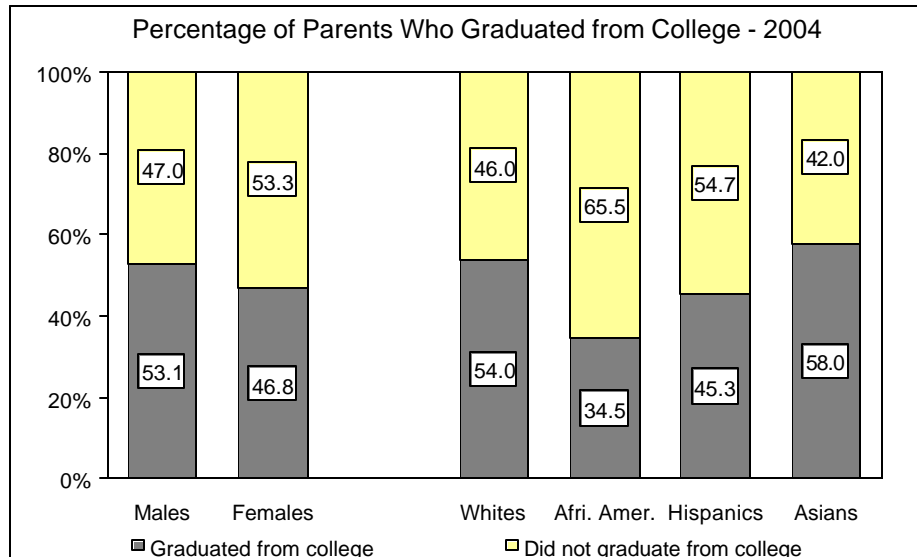
Percentage of Test Takers Whose Parent(s)
Had Graduated from College

	1987	1990	1993	1996	1999	2001	2002	2003	2004
Florida	52.2	51.1	50.1	52.1	52.1	52.2	51.7	51.0	49.6
U.S.	51.4	51.1	50.6	52.9	49.6	54.5	54.3	53.6	53.4



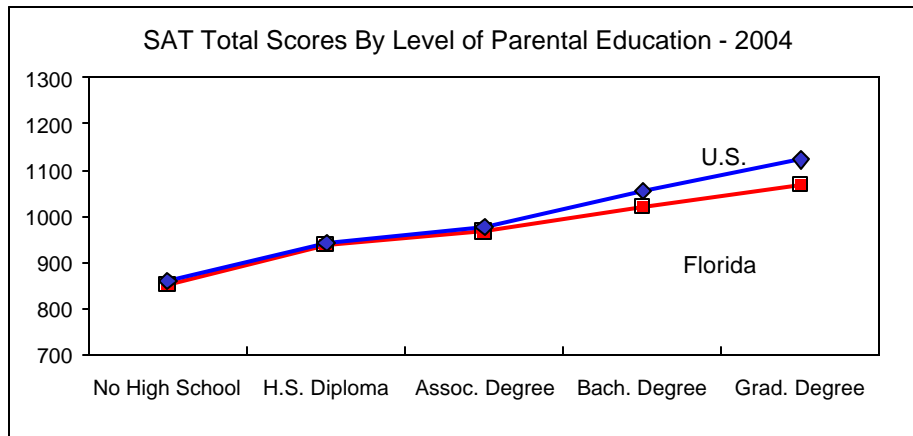
Parental Education
Percentage of Florida Students Whose Parent(s) Graduated from College

	1987	1990	1993	1996	1999	2001	2002	2003	2004
All Test Takers	52.2	51.1	50.1	52.1	52.1	52.2	51.7	51.0	49.6
Males	54.4	53.2	53.3	55.2	55.0	55.5	55.3	54.7	53.1
Females	50.8	49.3	47.5	49.6	49.9	49.6	48.9	48.2	46.8
Whites	55.8	55.0	54.6	56.7	56.7	57.2	56.8	56.5	54.0
Afri. Amer.	34.5	34.0	34.2	36.2	35.9	35.6	34.7	33.4	34.5
Hispanics	44.0	45.0	43.4	46.8	47.4	47.2	46.8	45.9	45.3
Asians	53.6	53.3	52.9	55.4	56.8	57.4	57.1	59.1	58.0



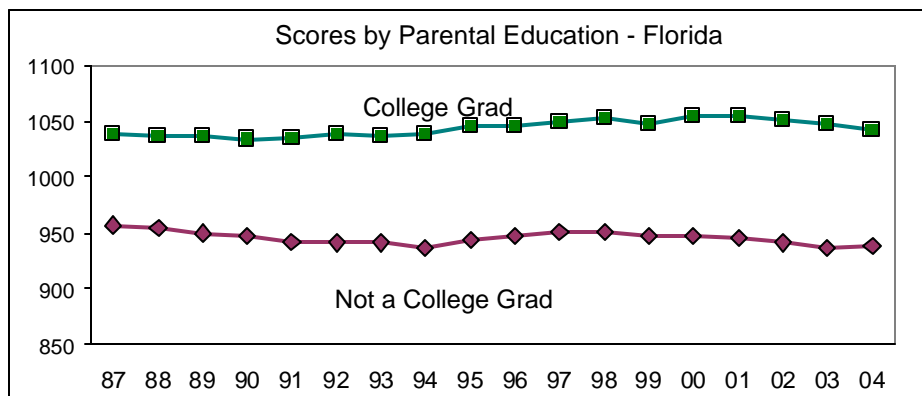
SAT Scores By Level of Parental Education - 2004

	Florida			U.S.		
	Verbal	Math	Total	Verbal	Math	Total
No High School	422	429	851	415	445	860
H.S. Diploma	471	468	939	469	474	943
Assoc. Degree	485	481	966	486	490	976
Bach. Degree	511	509	1020	523	531	1054
Grad. Degree	535	534	1069	558	564	1122



Scores by Parental Education

	1989	1991	1993	1995	1997	1999	2001	2003	2004
Did Not Graduate									
From College	950	942	941	944	951	951	945	936	938
Graduated From College	1036	1035	1037	1046	1049	1049	1054	1047	1042



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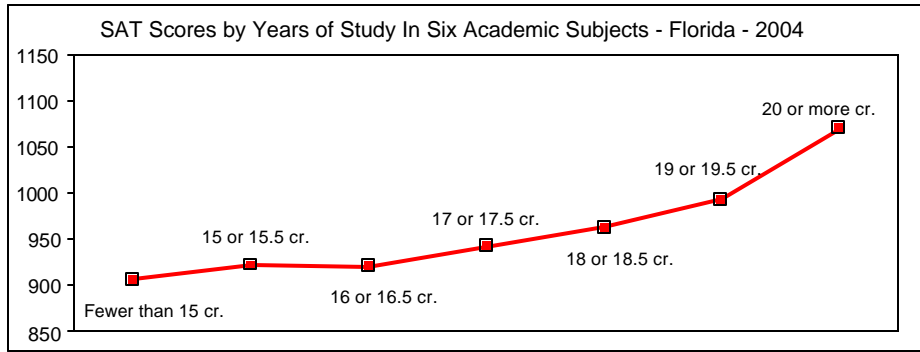
Course-taking Patterns

SAT Test Takers

Florida SAT Scores by Total Year Credits of Study in Six Academic Subjects - 2004*

	Number	%age	Verbal	Math	Combined Score
20 or more credits	26,067	42.0	537	533	1070
19 or 19.5 credits	7,900	12.7	497	496	993
18 or 18.5 credits	8,006	12.9	481	481	962
17 or 17.5 credits	6,307	10.2	471	471	942
16 or 16.5 credits	4,617	7.4	460	460	920
15 or 15.5 credits	3,446	5.5	461	461	922
Fewer than 15 credits	5,773	9.3	453	453	906

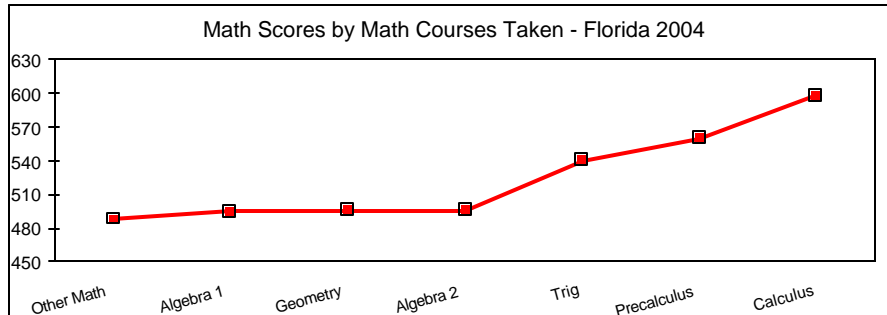
*English, math, natural sciences, social studies/history, foreign languages, arts/music. Information based on test takers who supplied information on the courses they had taken.



Number of Florida Test Takers Who Have Taken Specific Math Courses - 2004

	Number	%age	Average Math Score
Other Math Courses*	22,892	33.5	488
Algebra 1	67,469	98.6	495
Geometry	66,519	97.2	496
Algebra 2	42,645	62.3	496
Trigonometry	19,969	29.2	540
Precalculus	24,315	35.5	560
Calculus	11,880	17.7	598

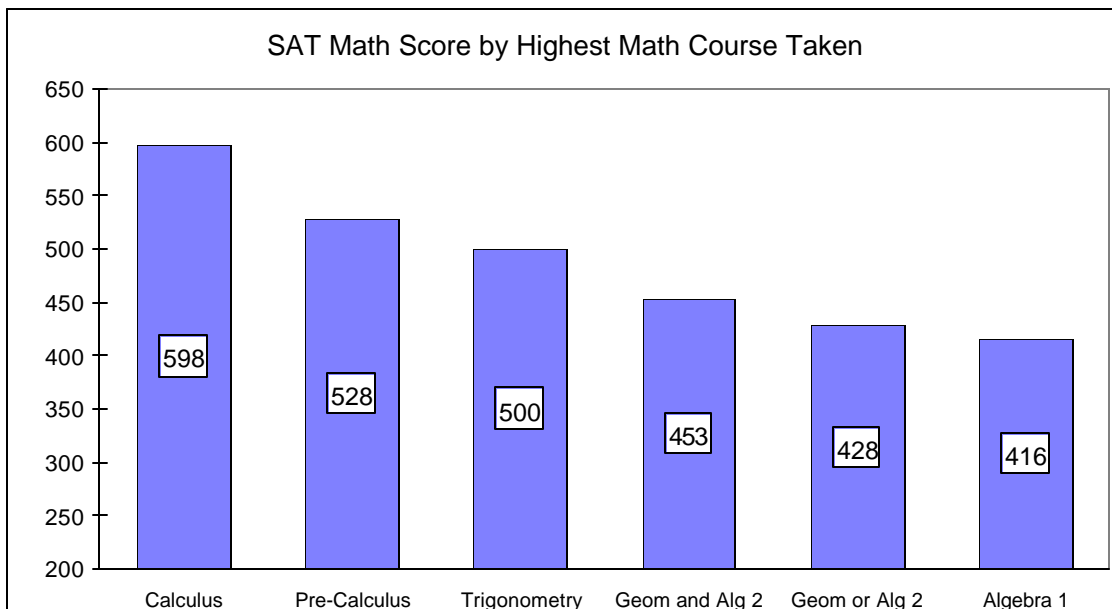
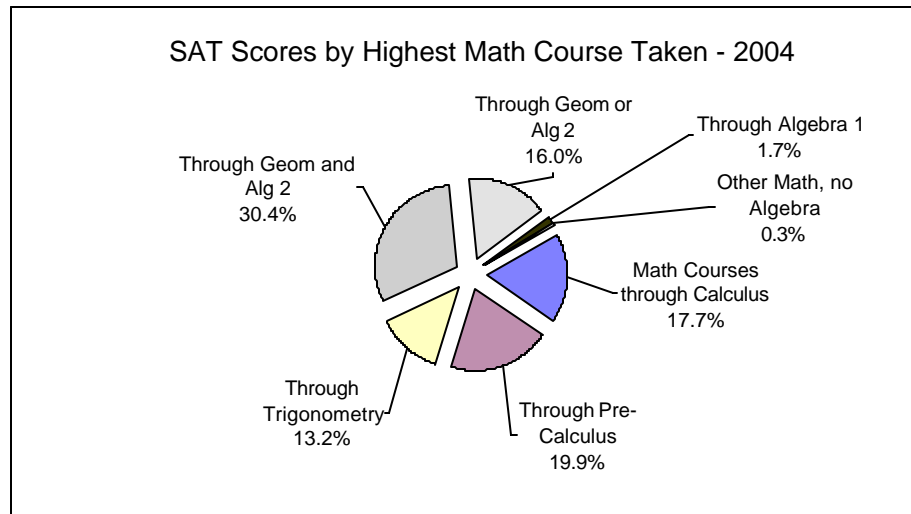
*Such as general math, business math, statistics, etc.



Florida SAT Test Takers - 2004
SAT Math Score by Highest Math Course Taken

	Males			Females			Total*		
	#	%	Score	#	%	Score	#	%	Score
Calculus	5,765	19.3	617	6,115	16.1	579	11,880	17.7	598
Pre-Calculus	6,262	20.9	547	7,942	20.9	514	14,204	19.9	528
Trigonometry	3,936	13.2	518	5,022	13.2	487	8,958	13.2	500
Geom and Alg 2	8,841	29.5	465	11,762	31.0	444	20,603	30.4	453
Geom or Alg 2	4,585	15.3	441	6,267	16.5	419	10,852	16.0	428
Algebra 1	452	1.5	437	673	1.8	403	1,125	1.7	416
Other Math, no Algebra	85	0.3	424	139	0.4	408	224	0.3	414
Total Responding*	29,926	100.0	514	37,920	100.0	481	67,846	100.0	496

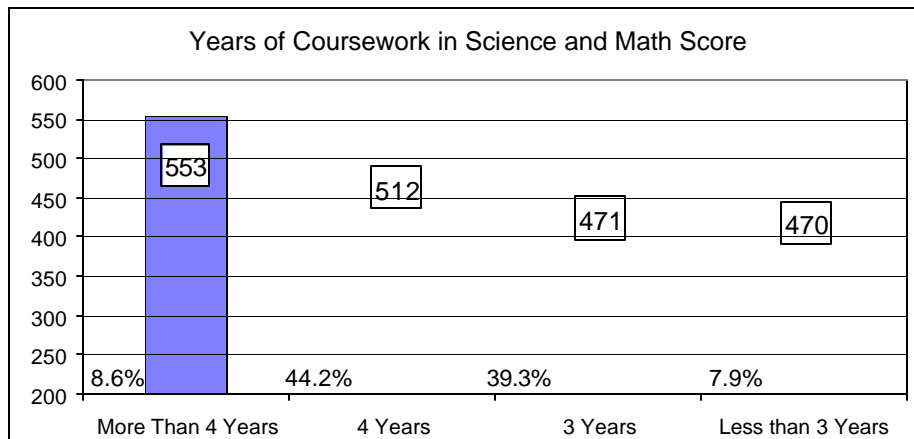
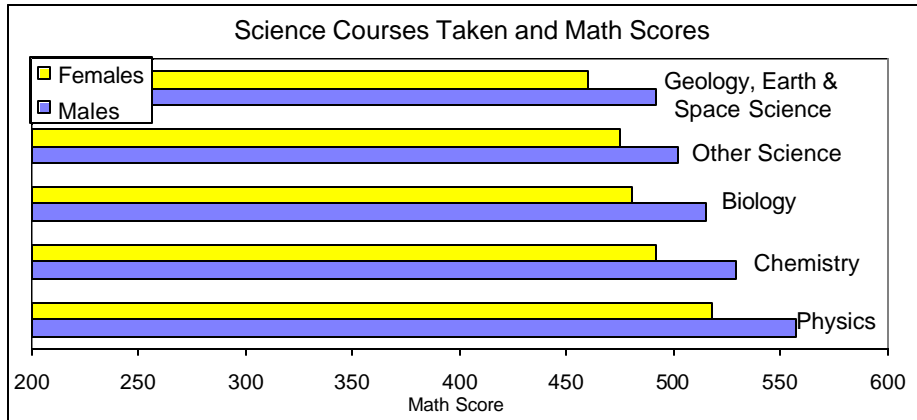
*Total test takers supplying information on the number of courses taken.



2004 Florida SAT Test Takers*

	Males				Females				Total			
	Total Number	%	Aver. SAT Math	Aver. Years Sci.	Total Number	%	Aver. SAT Math	Aver. Years Sci.	Total Number	%	Aver. SAT Math	Aver. Years Sci.
Physics	13,298	44.3	557	4.4	13,751	36.0	518	4.3	27,049	39.7	537	4.4
Chemistry	24,475	81.6	529	3.9	31,624	82.9	492	3.8	56,099	82.3	508	3.9
Biology	29,209	97.3	515	3.7	37,364	97.9	481	3.7	66,573	97.7	496	3.7
Other Science	12,903	43.0	502	4.2	20,021	52.5	475	4.0	32,924	48.3	485	4.0
Geology, Earth Science and Space Science	14,780	49.3	492	4.0	18,567	48.7	460	3.9	33,347	48.9	474	3.9
Total Responded*	30,009	100.0	518	3.7	38,163	100.0	485	3.6	68,172	100.0	498	3.7

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



Selected Math Courses Taken
2004 Florida SAT Test Takers - SAT By Race

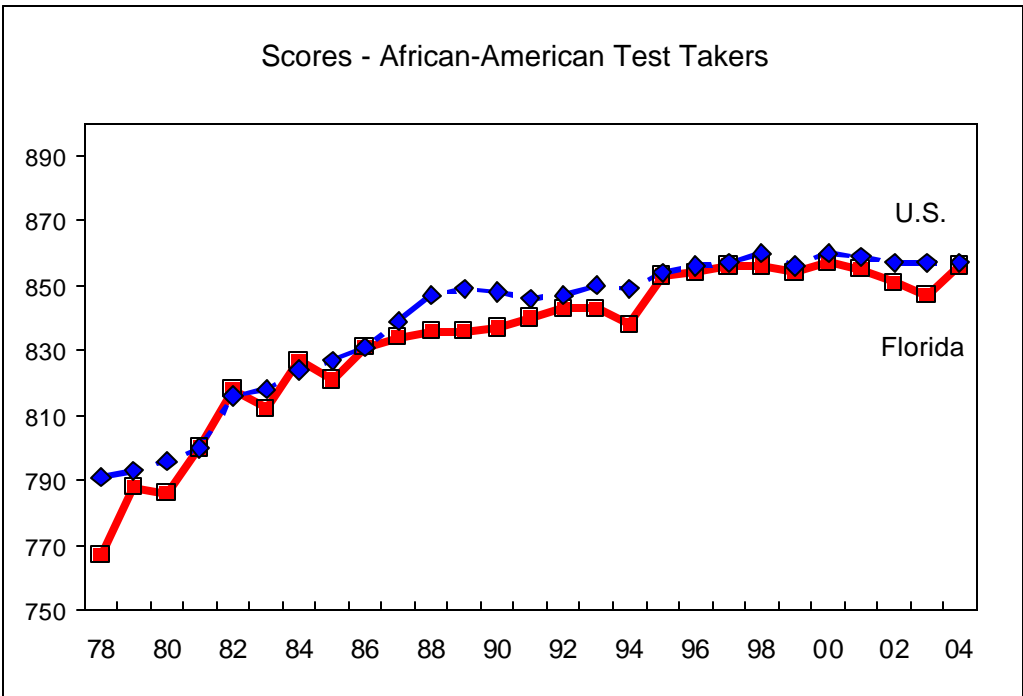
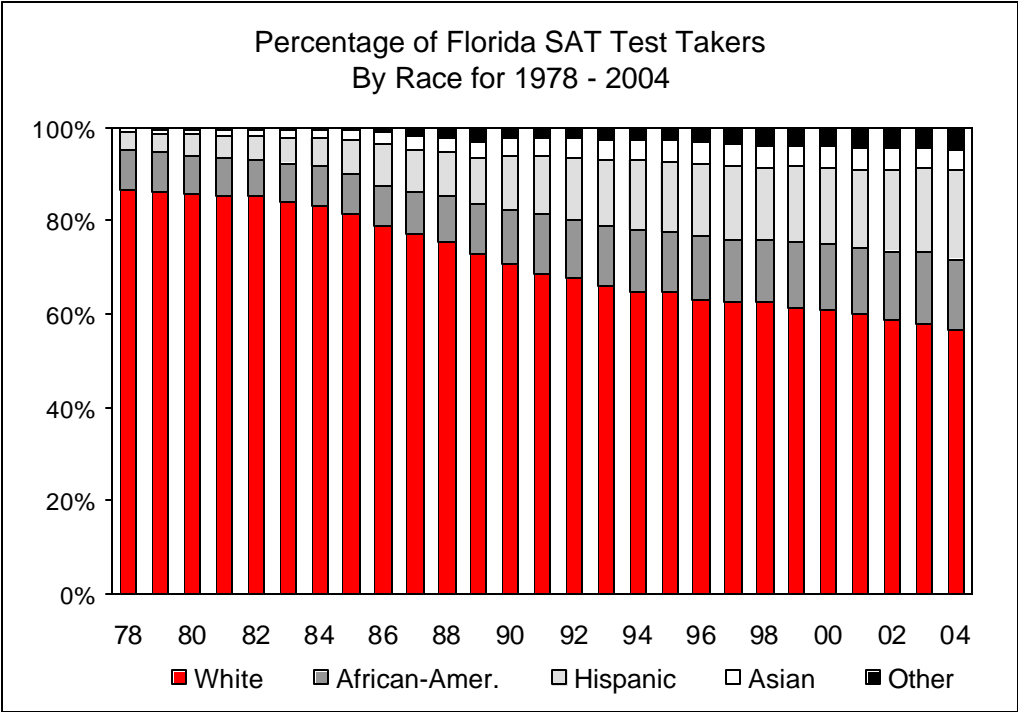
Subject	WHITE				AFRICAN-AMERICAN				HISPANIC				ASIAN				TOTAL*				
	Math Mean		Number	%	Math Mean		Number	%	Math Mean		Number	%	Math Mean		Number	%	Math Mean		Number	%	
	Course Takers	Non Course Takers			Course Takers	Non Course Takers			Course Takers	Non Course Takers			Course Takers	Non Course Takers			Course Takers	Non Course Takers			Course Takers
Algebra I																					
Men	537	582	15,816	98.6	434	430	4,020	98.5	495	519	5,107	98.4	553	627	1,314	97.6	513	542	29,703	98.5	
Women	502	509	19,509	98.9	421	429	5,637	98.2	459	463	6,860	98.8	525	553	1,359	97.8	480	484	37,766	98.7	
All	518	545	35,325	98.8	427	430	9,657	98.3	475	492	11,967	98.6	539	591	2,673	97.7	495	512	67,469	98.6	
Geometry																					
Men	538	493	15,862	97.3	436	385	3,998	95.8	496	769	5,118	97.3	555	528	1,326	96.4	515	469	29,235	97.0	
Women	503	447	19,532	97.5	422	387	5,751	97.1	460	443	6,894	97.6	525	523	1,385	97.5	481	439	37,284	97.4	
All	519	469	35,394	97.4	428	386	9,749	96.6	475	467	12,012	97.5	540	526	2,711	97.0	496	454	66,519	97.2	
Algebra II																					
Men	534	544	10,681	66.6	436	432	2,480	63.1	493	500	3,168	61.0	545	566	715	53.1	513	515	18,850	62.5	
Women	502	502	13,153	66.7	425	416	3,455	60.6	462	456	4,164	60.0	518	534	746	53.7	483	476	23,795	62.2	
All	517	521	23,834	66.6	430	422	5,935	61.7	475	474	7,332	60.4	531	550	1,461	53.4	496	493	42,645	62.3	
Trigonometry																					
Men	576	517	5,485	33.6	485	421	861	20.6	535	479	1,560	29.7	590	533	507	36.8	560	493	9,309	30.9	
Women	539	486	5,972	29.8	461	409	1,356	22.9	498	446	1,758	24.9	554	508	515	36.3	522	464	10,660	27.9	
All	557	499	11,457	31.5	470	414	2,217	22.0	515	460	3,318	26.9	572	520	1,022	36.6	540	477	19,969	29.2	
Pre-Calculus																					
Men	595	499	6,385	39.2	503	415	908	21.8	557	456	2,053	39.0	605	498	719	52.3	580	474	11,166	37.0	
Women	560	470	7,066	35.3	478	401	1,524	25.7	517	428	2,495	35.3	577	464	766	53.9	542	448	13,149	34.4	
All	577	482	13,451	37.0	487	407	2,432	24.1	535	440	4,548	36.9	591	481	1,485	53.1	560	459	24,315	35.5	
Calculus																					
Men	629	513	3,396	20.8	530	424	387	9.3	597	474	928	17.6	636	513	455	33.1	617	489	5,765	19.1	
Women	593	482	3,520	17.6	508	412	541	9.1	557	444	975	13.8	605	485	471	33.2	579	461	6,115	16.0	
All	610	496	6,916	19.0	517	417	928	9.2	576	456	1,903	15.4	620	499	926	33.1	598	473	11,880	17.4	
Other Math - One Year Only																					
Men	529	540	3,682	23.5	434	436	999	25.0	493	498	1,293	25.3	560	555	274	20.9	509	517	8,035	26.6	
Women	495	505	4,926	25.9	424	419	1,538	27.7	455	461	1,798	26.6	532	525	338	25.0	476	483	11,444	29.9	
All	510	521	8,608	24.8	428	426	2,537	26.5	471	477	3,091	26.0	545	541	612	23.0	489	499	19,479	28.5	
Other Math - Two Years																					
Men	516	538	747	4.8	412	436	255	6.4	476	497	242	4.7	534	556	61	4.7	490	515	1,460	4.8	
Women	484	503	972	5.1	419	421	356	6.4	450	459	338	5.0	523	527	85	6.3	466	481	1,953	5.1	
All	498	518	1,719	4.9	416	427	611	6.4	461	475	580	4.9	527	542	146	5.5	477	496	3,413	5.0	
Total Number Test Takers**	Math Mean	N			Math Mean	N			Math Mean	N			Math Mean	N			Math Mean	N			
Men	536	18,687			434	4,589			494	5,888			553	1,542			517	39,653			
Women	501	22,175			421	6,301			459	7,716			525	1,560			484	47,637			
All	517	40,862			427	10,890			474	13,604			539	3,102			499	87,290			

*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

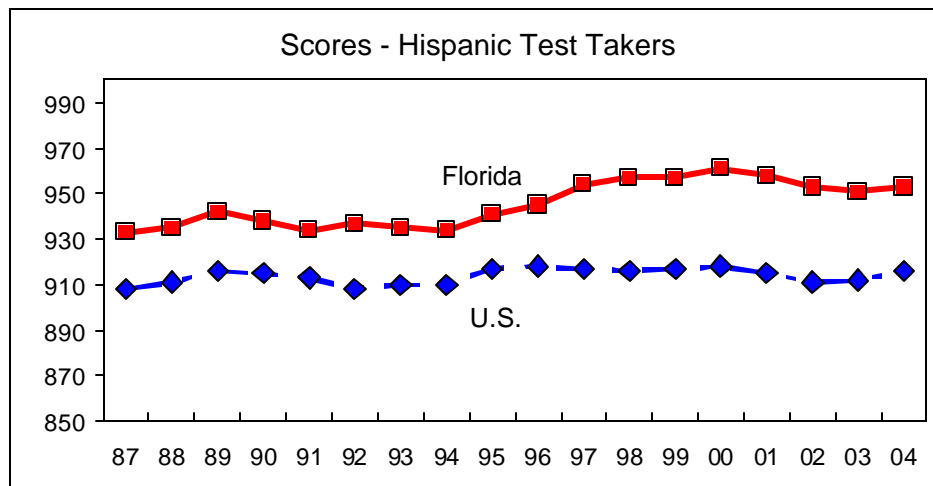
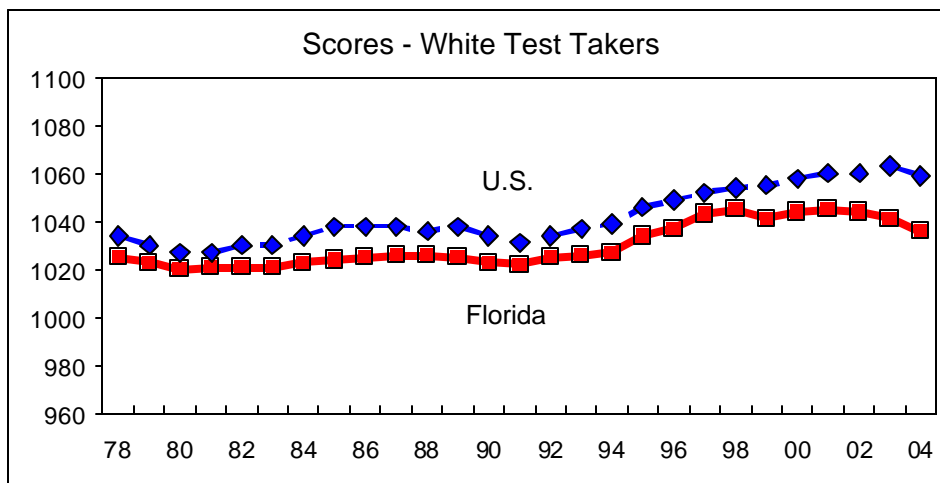


2004 SAT Composite Scores by Racial-Ethnic Groups Florida and the Nation

Racial-Ethnic Groups	Florida		U.S.		Difference*	
	%	Total Score	%	Total Score	%	Total Score
White	56.7	1036	62.7	1059	6.0	23
African American	15.1	856	12.0	857	-3.1	1
Hispanic	18.9	953	10.7	916	-8.2	-37
Asian	4.3	1041	9.8	1084	5.5	43
Other	5.0	970	4.8	997	-0.2	27
Total Responded**	100.0	990	100.0	1017	-	27
Non Respondents	17.4	1033	19.1	1057	1.7	24

*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
1980-2004

NUMBER	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	2000	2001	2002	2003	2004
White	27,538	28,680	27,604	29,100	34,955	29,945	31,089	30,374	30,102	33,158	34,693	35,013	36,315	36,553	40,862
African-American	2,585	2,603	2,797	3,125	4,489	5,024	5,596	6,270	6,459	7,141	8,234	8,425	9,018	9,686	10,890
Hispanic	1,449	1,731	2,007	3,210	4,372	4,886	6,099	7,130	7,428	8,103	9,308	9,707	10,700	11,349	13,604
Asian	368	510	640	989	1,362	1,669	1,972	2,144	2,189	2,417	2,699	2,765	2,902	2,806	3,102
Other	118	148	145	396	1,070	950	1,053	1,218	1,464	2,122	2,239	2,547	2,692	2,940	3,625
Total Responded*	32,058	33,672	33,193	36,820	46,248	42,474	45,808	47,136	47,642	52,941	57,173	58,457	61,627	63,334	72,083
No Response	3,766	4,202	4,712	3,804	2,506	2,510	2,762	3,477	3,337	5,099	10,093	10,906	14,037	20,063	15,207
Total	35,824	37,874	37,905	40,624	48,754	44,984	48,510	50,613	50,979	58,040	67,266	69,363	75,664	83,397	87,290
PERCENTAGE															
White	85.9	85.2	83.2	79.0	75.6	70.5	67.9	64.4	63.2	62.6	60.7	59.9	58.9	57.7	56.7
African-American	8.1	7.7	8.4	8.5	9.7	11.8	12.2	13.3	13.6	13.5	14.4	14.4	14.6	15.3	15.1
Hispanic	4.5	5.1	6.0	8.7	9.5	11.5	13.3	15.1	15.6	15.3	16.3	16.6	17.4	17.9	18.9
Asian	1.1	1.5	1.9	2.7	2.9	3.9	4.3	4.5	4.6	4.6	4.7	4.7	4.7	4.4	4.3
Other	0.4	0.4	0.4	1.1	2.3	2.2	2.3	2.6	3.1	4.0	3.9	4.4	4.4	4.6	5.0
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	15.0	15.7	18.6	24.1	17.4
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

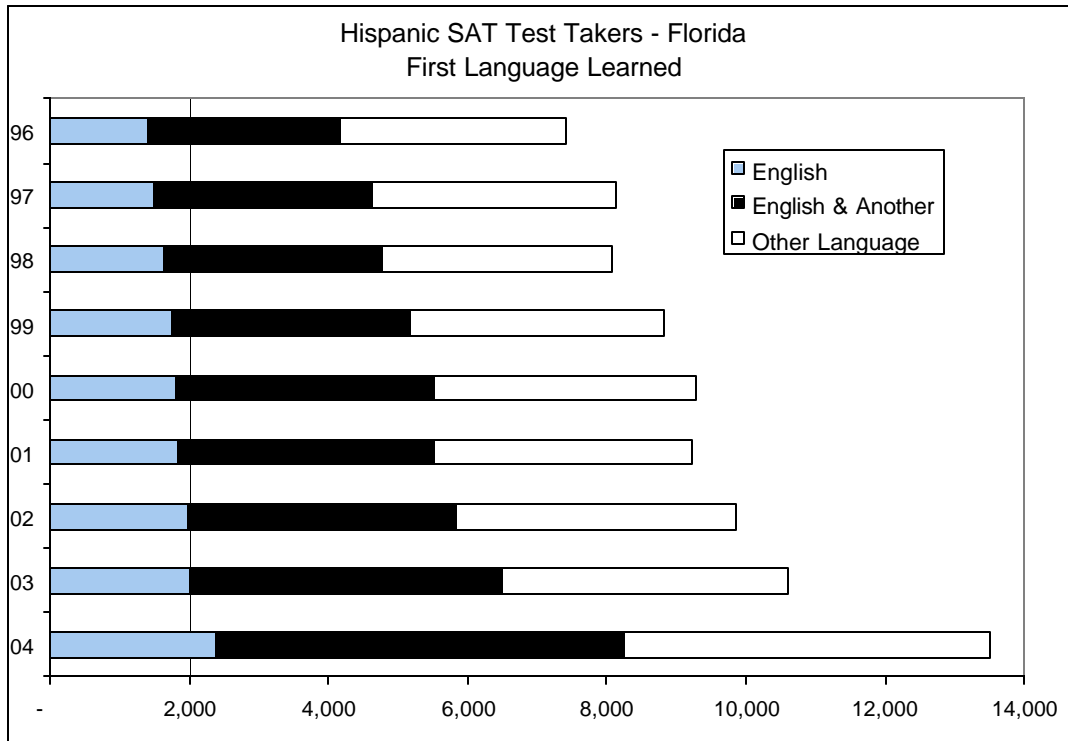
*Total number of students who responded to the questionnaire item asking them to categorize themselves as to race/ethnicity.

**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

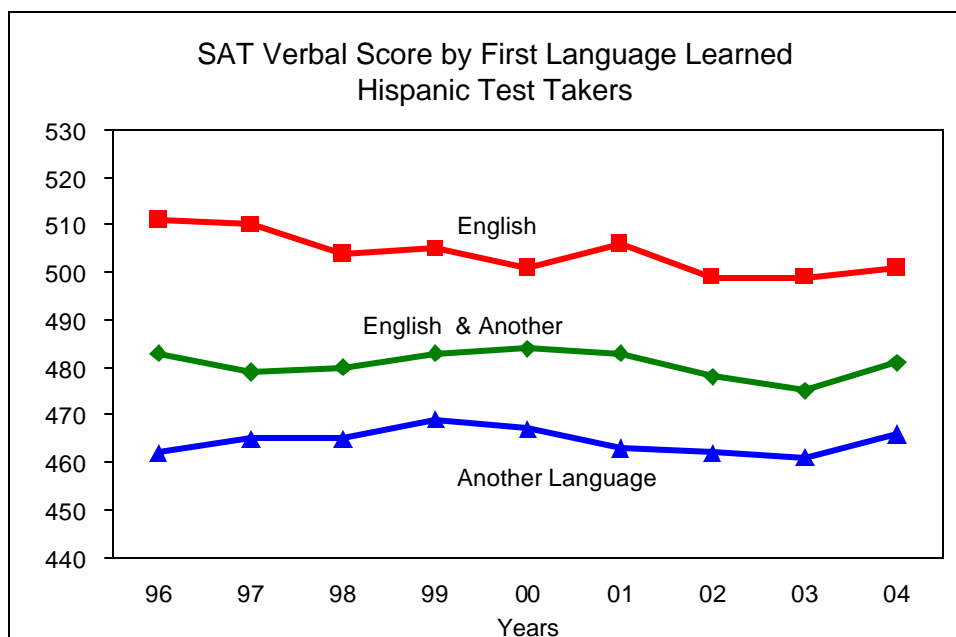
	1980	1982	1984	1986	1988	1990	1992	1994	1996	1998	2000	2001	2002	2003	2004
VERBAL															
White	516	518	516	517	517	514	513	514	521	523	522	523	521	521	519
African-American	394	413	413	417	417	420	421	418	429	429	431	430	426	426	429
Hispanic	484	474	474	472	472	474	474	470	479	479	480	479	476	476	479
Asian	479	482	484	489	491	489	495	484	502	504	501	502	502	504	502
Other	471	476	472	466	475	469	473	482	489	495	495	487	487	487	488
Total Responded*	504	507	504	503	501	496	495	492	500	501	500	500	497	496	495
No Response	474	463	472	490	457	473	462	458	472	482	487	491	493	503	516
Total	501	502	500	502	499	495	493	490	498	500	498	498	496	498	499
MATHEMATICS															
White	504	503	507	508	509	509	512	513	516	522	522	522	523	520	517
African-American	392	405	414	414	419	417	422	420	425	427	426	425	425	421	427
Hispanic	475	464	472	472	471	473	475	473	475	478	481	479	477	475	474
Asian	522	525	543	531	526	528	531	530	541	546	547	543	544	545	539
Other	468	474	474	462	465	467	477	471	482	490	491	482	488	488	482
Total Responded*	494	494	498	497	496	494	496	494	498	502	502	500	500	496	495
No Response	458	461	469	486	472	479	459	459	471	485	493	494	495	502	517
Total	490	490	494	496	495	493	494	492	496	501	500	499	499	498	499
TOTAL SCORE															
White	1020	1021	1023	1025	1026	1023	1025	1027	1037	1045	1044	1045	1044	1041	1036
African-American	786	818	827	831	836	837	843	838	854	856	857	855	851	847	856
Hispanic	959	938	946	944	943	947	949	943	954	957	961	958	953	951	953
Asian	1001	1007	1027	1020	1017	1017	1026	1014	1043	1050	1048	1045	1046	1049	1041
Other	939	950	946	928	940	936	950	954	971	985	986	969	975	975	970
Total Responded*	998	1001	1002	1000	997	990	991	986	998	1003	1002	1000	997	992	990
No Response	933	924	941	976	929	952	921	916	943	967	980	985	988	1005	1033
Total	991	992	994	998	994	988	987	982	994	1001	998	997	995	996	998

*Test takers who indicated their race-ethnicity.



Hispanic SAT Test Takers - Florida*
By First Language Learned

	1996	1997	1998	1999	2000	2001	2002	2003	2004
English	1,407	1,496	1,618	1,746	1,793	1,826	1,982	2,018	2,379
English & Another	2,767	3,134	3,145	3,416	3,704	3,694	3,850	4,475	5,867
Other Language	3,227	3,510	3,312	3,655	3,767	3,707	4,008	4,108	5,260
Total	7,401	8,140	8,075	8,817	9,264	9,227	9,840	10,601	13,506
P E R C E N T A G E S									
English	10.4	11.8	12.3	13.5	13.9	15.5	19.8	19.4	15.3
English & Another	54.1	54.1	44.1	39.6	40.2	38.6	38.7	40.0	40.0
Other Language	35.4	34.1	43.5	47.0	45.7	45.9	41.5	40.7	44.6
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

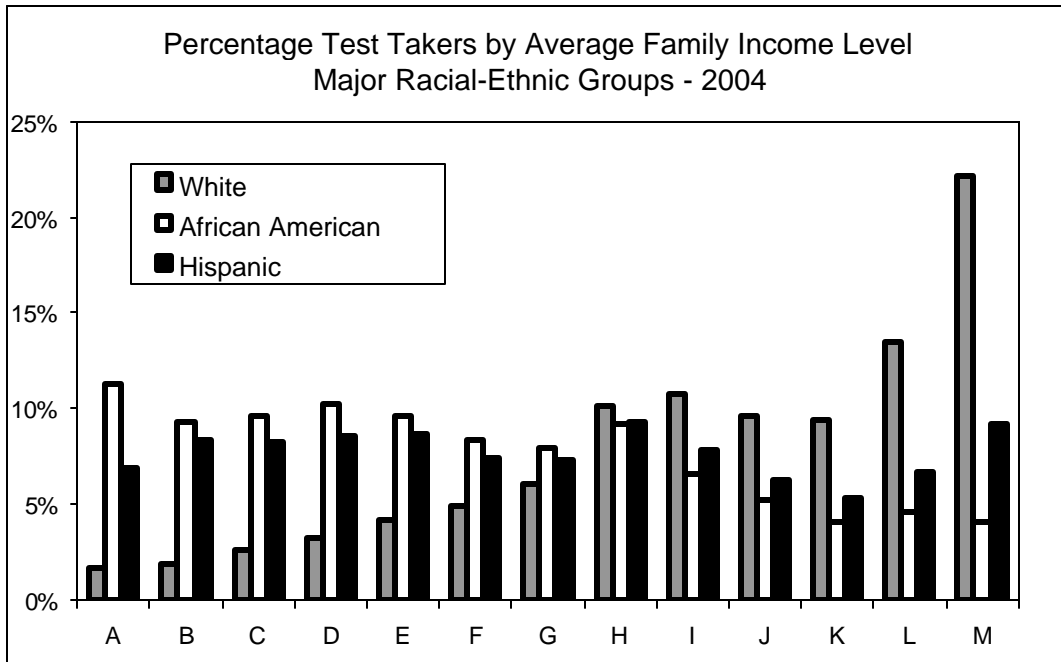


SAT Scores - Hispanic Test Takers - Florida By First Language Learned

	1996	1997	1998	1999	2000	2001	2002	2003	2004
VERBAL SCORE									
English	511	510	504	505	501	506	499	499	501
English & Another	483	479	480	483	484	483	478	475	481
Another Language	462	465	465	469	467	463	462	461	466
Total	479	479	479	481	480	479	476	476	479
MATH SCORE									
English	501	505	498	498	497	500	494	492	492
English & Another	469	469	472	469	477	474	470	465	472
Another Language	470	472	475	472	477	474	474	471	468
Total	475	477	478	476	481	479	477	475	474
TOTAL SCORE									
English	1012	1015	1002	1003	998	1006	993	991	993
English & Another	952	948	952	952	961	957	948	940	953
Another Language	932	937	940	941	944	937	936	932	934
Total	954	956	957	957	961	958	953	951	953

Test Takers by Average Family Income Level
Major Racial-Ethnic Groups - 2004

	Number			Percentage		
	White	Afri. Amer	Hispanic	White	Afri. Amer	Hispanic
A Less than \$10,000	449	961	650	1.7%	11.3%	6.9%
B \$10,000-\$15,000	508	785	791	1.9%	9.3%	8.3%
C \$15,000-\$20,000	700	810	782	2.6%	9.6%	8.3%
D \$20,000-\$25,000	878	864	810	3.3%	10.2%	8.5%
E \$25,000-\$30,000	1,139	812	823	4.2%	9.6%	8.7%
F \$30,000-\$35,000	1,313	709	705	4.9%	8.4%	7.4%
G \$35,000-\$40,000	1,625	671	692	6.0%	7.9%	7.3%
H \$40,000-\$50,000	2,729	784	878	10.1%	9.3%	9.3%
I \$50,000-\$60,000	2,897	554	739	10.7%	6.5%	7.8%
J \$60,000-\$70,000	2,593	447	591	9.6%	5.3%	6.2%
K \$70,000-\$80,000	2,523	349	506	9.4%	4.1%	5.3%
L \$80,000-\$100,000	3,625	388	639	13.4%	4.6%	6.7%
M More than \$100,000	5,973	341	872	22.2%	4.0%	9.2%
Total Responding	26,952	8,475	9,478	100.0%	100.0%	100.0%



SAT Scores by Gender

SAT Scores by Gender
1980 - 2004

FLORIDA	1980	1983	1986	1989	1992	1995	1998	2002	2003	2004
Female										
# of Students	18,362	19,331	21,355	25,185	25,945	27,361	31,702	41,655	45,625	47,637
Percentage	51.2	51.8	52.6	53.3	53.4	54.2	54.6	55.1	54.7	54.6
Verbal	499	497	498	494	491	497	499	495	496	497
Math	474	474	478	478	479	481	487	486	483	484
Total Score	973	971	976	972	970	978	986	981	979	981
Male										
# of Students	17,467	17,976	19,269	22,089	22,625	23,109	26,338	34,009	37,772	39,653
Percentage	48.8	48.2	47.4	46.7	46.6	45.8	45.4	44.9	45.3	45.4
Verbal	500	502	508	501	495	496	501	497	500	501
Math	509	510	517	512	512	513	517	516	515	517
Total Score	1009	1012	1025	1013	1007	1009	1018	1013	1015	1018

Differences between females and males (Positive values: Males are higher than females)

Verbal	1	5	10	7	4	(1)	2	2	4	4
Math	35	36	39	34	33	32	30	30	32	33
Total Score	36	41	49	41	37	31	32	32	36	37

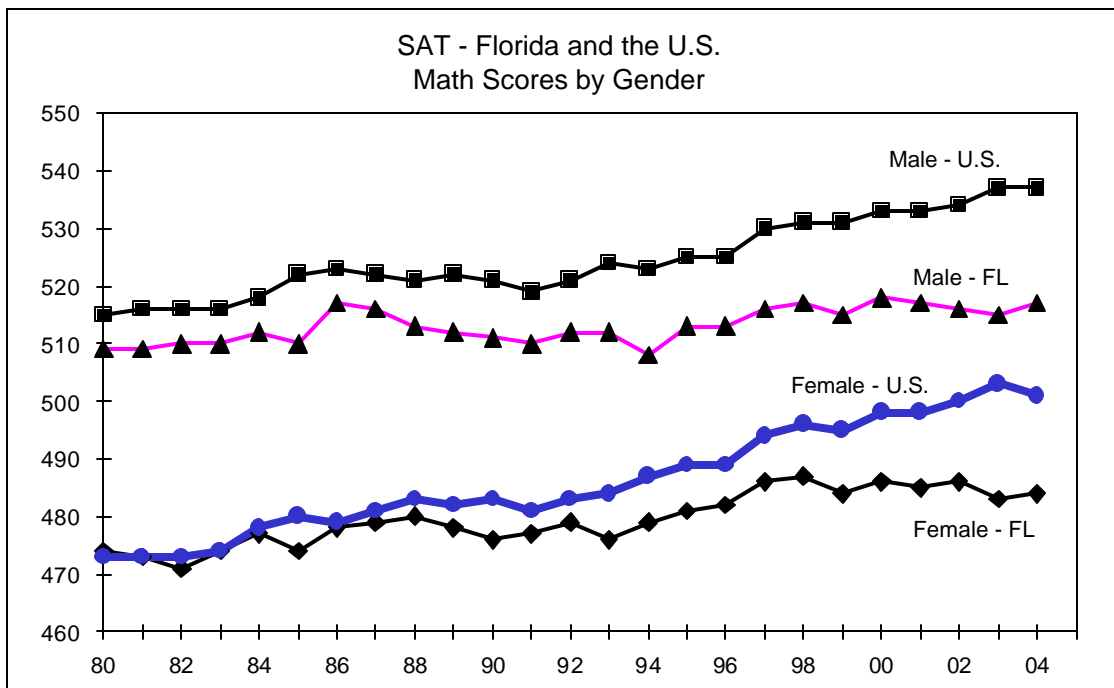
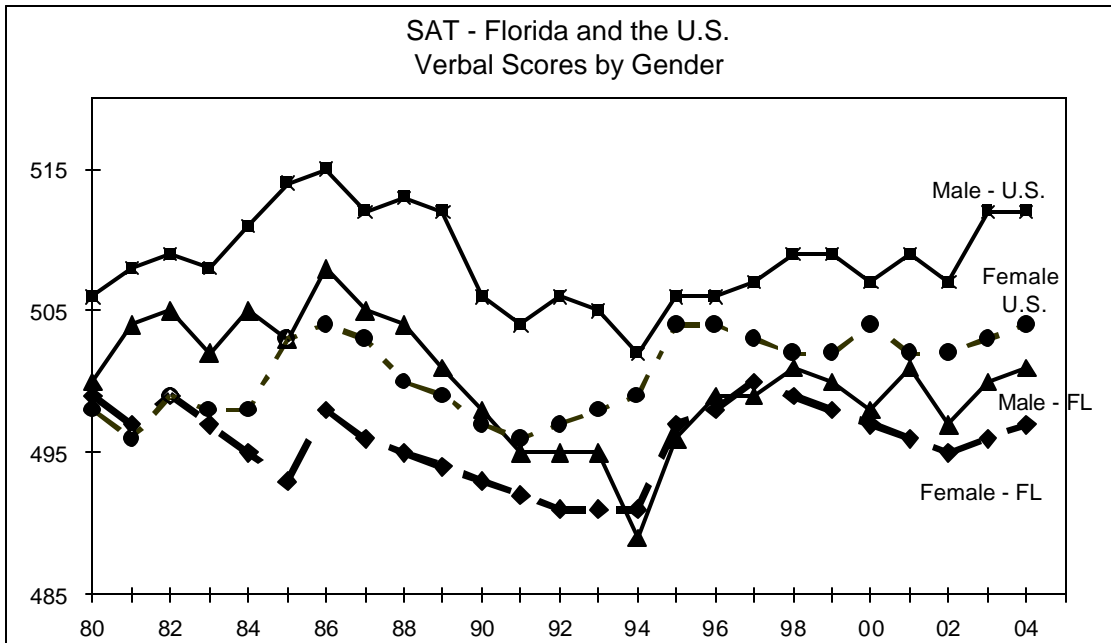
U.S.	1980	1983	1986	1989	1992	1995	1998	2002	2003	2004
Female										
Percentage	51.7	51.7	51.9	52.1	52.4	53.7	53.8	54	53.6	53.5
Verbal	498	498	504	499	497	504	502	502	503	504.0
Math	473	474	479	482	483	489	496	500	503.0	501.0
Total Score	971	972	983	981	980	993	998	1002	1006	1005
Male										
Percentage	48.3	48.3	48.3	47.9	47.6	46.3	46.2	46	46	47
Verbal	506	508	515	512	506	506	509	507	507	512
Math	515	516	523	522	521	525	531	534	534	537
Total Score	1021	1024	1038	1034	1027	1031	1040	1041	1041	1049

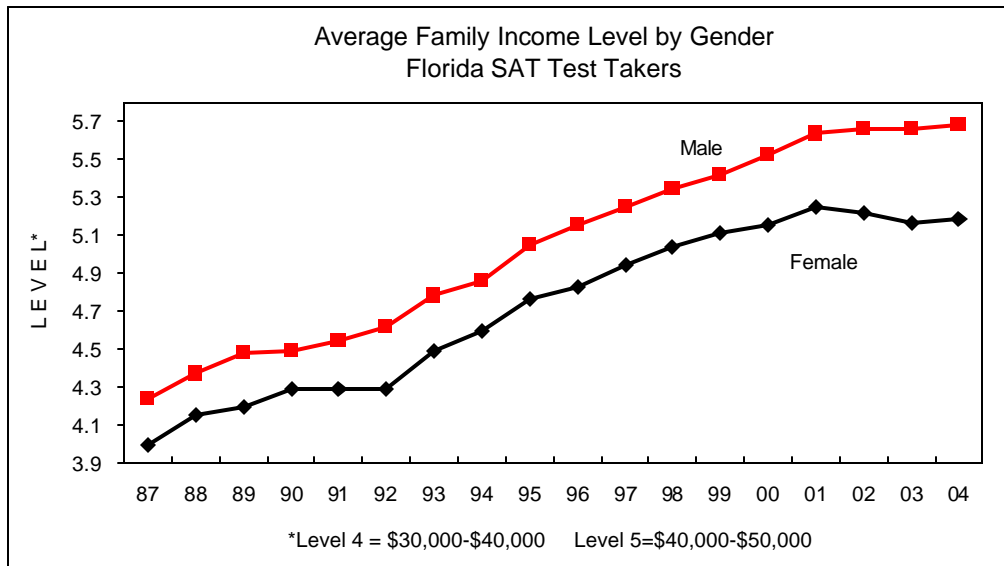
Difference between females and males (Positive value: Males are higher than females)

Verbal	8	10	11	13	9	2	7	5	4	8
Math	42	42	44	40	38	36	35	34	31	36
Total Score	50	52	55	53	47	38	42	39	35	44

SCORE DIFFERENCE BETWEEN U.S. AND FLORIDA (Positive values: U.S. is higher than Florida)

	1980	1983	1986	1989	1992	1995	1998	2002	2003	2004
Female										
Verbal	-1	1	6	5	6	7	3	7	7	7
Math	-1	0	1	4	4	8	9	14	20	17
Total Score	-2	1	7	9	10	15	12	21	27	24
Male										
Verbal	6	6	7	11	11	10	8	10	7	11
Math	6	6	6	10	9	12	14	18	19	20
Total Score	12	12	13	21	20	22	22	28	26	31





Average Family Income Level
Florida SAT Test Takers
By Gender - 2004

	Male		Female	
	Number	%age	Number	%age
Less than \$10,000	797	3.5	1,557	5.6
\$10,000-\$20,000	1,771	7.7	3,255	11.7
\$20,000-\$30,000	2,514	10.9	3,556	12.8
\$30,000-\$40,000	2,810	12.2	3,703	13.4
\$40,000-\$50,000	2,376	10.3	2,625	9.5
\$50,000-\$60,000	2,209	9.6	2,492	9.0
\$60,000-\$70,000	1,904	8.2	2,183	7.9
More than \$70,000	8,701	37.7	8,334	30.1

Average Family Income by Gender
Florida SAT Test Takers

	1989	1991	1993	1995	1997	1999	2001	2002	2003	2004
Males	4.48	4.54	4.78	5.05	5.25	5.42	5.63	5.66	5.66	5.68
Females	4.20	4.29	4.49	4.76	4.94	5.11	5.25	5.22	5.17	5.18
Difference	0.28	0.25	0.29	0.29	0.31	0.31	0.39	0.44	0.49	0.50

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
1992										
White	14,284	516	532 1048	16,805	509	495 1004	53.1	7	37	44
African-American	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
1996										
White	13,575	524	535 1059	16,527	519	501 1020	54.9	5	34	39
African-American	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
2000										
White	15,374	524	542 1066	19,346	520	507 1027	55.7	4	35	39
African-American	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
2002										
White	16,054	523	541 1064	20,261	519	508 1027	55.8	4	33	37
African-American	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
2003										
White	16,209	523	539 1062	20,344	519	505 1024	55.7	4	34	38
African-American	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
2004										
White	18,687	522	536 1058	22,175	517	501 1018	54.3	5	35	40
African-American	4,589	422	434 856	6,301	434	421 855	57.9	-12	13	1
Hispanic	5,888	484	494 978	7,716	475	459 934	56.7	9	35	44
Asian	1,542	502	553 1055	1,560	501	525 1026	50.3	1	28	29
Total*	39,653	501	517 1018	47,637	497	484 981	54.6	4	33	37

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

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