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#### ABSTRACT

In 1989, North Carolina's average Scholastic Aptitude Test (SAT) score dropped to the lowest in the nation, triggering an intensive effort to improve average SAT scores. In 1993, North Carolina achieved its highest average SAT score ever, as well as the highest percentage of graduating seniors taking the SAT. Scores improved for the 4th consecutive year, but remained below the Southeast average and the national average. Continued improvement will be necessary to meet the targets set by the state for 1995 and 2000. Data in this report come from SAT profiles and figures issued by the Coliege Board. The report is divided into four sections. Section 1 presents 1993 and historical data for the nation, concentrating on the 24 states in which at least 40 percent of the seniors take the SAT. Section 2 emphasizes North Carolina's performance on the SAT, and Section 3 presents the performance of certain groups of students compared with the same categories in other states. Individual school system results are presented in Section 4. Section 4 also introduces the yield index, an index that permits state and school comparisons. Nineteen tables and 22 figures present SAT results for North Carolina students. (SLD)



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# Scholastic Aptitude Test Report

Reporting on the Nation, the State, the 120 Public School Systems and 2 Special Public Schools

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States with at Least 40 Percent Participation on the SAT

The North Carolina 1993 Scholastic Aptitude Test Report

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Accountability Services
North Carolina Department of Public Instruction

Raleigh, NC 27601

Bob Etheridge State Superintendent of Public Instruction

Published August 1993

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This year marks the fourth year of our efforts to move North Carolina's average Scholastic Aptitude Test (SAT) score from the very bottom of the national SAT ranking. Although we still have a long way to go to achieve our goals, the steps we have taken during the last few years to improve SAT scores are paying off. For the fourth year in a row, the average SAT score for our students exceeded the state's average for the previous year. This year, for the first time, the percentage of North Carolina students taking the SAT increased to sixty percent. This means that more of our students feel that they are sufficiently prepared to pursue college.

I believe our efforts to improve SAT scores are paying off for three primary reasons: (1) We have become firmly focused on clearly stated goals; (2) we have set high expectations for our schools and our students; and (3) we have committed ourselves and our resources to achieving agreed-upon goals. If we are careful to maintain the same focus, expectations, and commitment that have been demonstrated during the past four years, there is every reason to believe that *all* of our targets and goals are achievable.

Before you study the results outlined in the content and tables of this report, I recommend that you review the Introduction for a brief summary of where we have been, where we want to go, and for highlights about this year's report of 1993 results.

Four years of successful efforts are behind us and there are many individuals and groups to thank and commend for their help: state and local educational policy makers and leaders, the media, school superintendents, principals, and especially those who most significantly influence our state's students - parents and teachers.

With significantly more of our graduating seniors taking the SAT and with continuing improvement in our scores, it is clear to me that our students and their teachers have accepted the challenge of meeting the goals we have set for 1995 and 2000.

Bob Etheridge

State Superintendent of Public Instruction



## Acknowledgments

The development of a comprehensive report on student and school system performance on the Scholastic Aptitude Test requires the effort of many individuals. Special thanks go to Kevin Kirby for his work on several earlier SAT reports. We would also like to thank Joy Gussman for reworking the structure of this report and graphical presentation of the data, Denise Hamm de Estrada for proofreading and insuring the accuracy of the data, and Faye Atkinson and Karen Davis for report production.



# Highlights of the 1993 report

- This 1993 report is the fourth annual report of North Carolina SAT results since special state reporting began in 1990.
- This is the second year that all SAT-takers previously had the opportunity to take the PSAT at state expense, when the special North Carolina administration of the PSAT began in 1989-90.

# Highlights of 1993 test results

- In 1993, North Carolina students made a 4-point gain from the previous year.
- The North Carolina participation rate on the SAT increased 3 percentage points.
- Since 1989, North Carolina is the only SAT state to have four consecutive years of improvement.
- Nationally the total SAT score has improved for the second consecutive year.



#### Introduction

# **SAT '93**

## Past performance and future goals

In 1989, North Carolina's average SAT score dropped to the lowest in the nation. Beginning in 1989, teachers, principals, superintendents, educational policy makers and parents have focused on improving the quality of education in North Carolina schools. As a result, gains in the state's average SAT scores have occurred every year since 1989.

This year North Carolina achieved its highest average SAT score ever, as well as its highest ever percentage of graduating seniors taking the SAT. For the fourth consecutive year, North Carolina has improved its SAT score. However, the score remains below the southeast average and the national average. Likewise, almost all subgroups of North Carolina students continue to have lower scores than their national counterparts.

Continued improvement will be necessary to meet the following SAT targets, set by the state for 1995 and 2000:

- By 1995, the average score of North Carolina students taking the SAT will exceed the southeast regional average.
- By 2000, the average score of North Carolina students taking the SAT will exceed the national average.
- Each year between 1990 and 2000, the percentage of North Carolina students taking the SAT will remain at least at the 1989 level.

Clearly, continued improvements in North Carctina will be necessary if these goals are to be met.

## Steps taken toward improved SAT scores

Since taking office, State Superintendent Bob Etheridge has supported a comprehensive program to strengthen the state's secondary education program. This program is aimed toward improving overall student achievement, which includes raising SAT scores. A number of ongoing school improvement efforts such as the Basic Education Program and significant changes in the state's Standard Course of Study have created an environment for improved student performance. Features of the program are outlined below.

- North Carolina special reporting of SAT results. Special state reporting of SAT results was begun to provide a thorough analysis of student performance on the SAT and to provide more information to local school systems to assist them in improving SAT scores in their schools. (This 1993 report is the fourth annual report of North Carolina SAT results since special state reporting began.)
- Programs to encourage more rigorous courses of study. Revisions to the state's Standard Course of Study were initiated to strengthen the curriculum. The revised curriculum is in line with national standards, and has an increased emphasis on higher level thinking skills.
- Expansion of the End-of-Grade and Endof-Course Testing Programs. Revisions to the state curriculum impacted the state's testing program, which is specifically designed to assess that curriculum. These changes have resulted in comprehensive end-of-grade tests in grades 3 through 8 as

well as more challenging high school endof-course tests.

- Expanded participation in the Preliminary
  Scholastic Aptitude Test (PSAT). The state
  began offering the PSAT to all public school
  students who have completed Algebra I, so
  that more students could become comfortable
  with the format and content of the SAT
  before taking it.
- Expansion in data analysis and reporting capabilities. Through work begun with the PSAT Program, Data Analyst software has been developed for each of the testing programs. This user-friendly software allows easy access to individual student data as well as custom summary reporting for subgroups of students.
- Performance-Based Accountability Program.
   Initiated by legislation (the School Improvement and Accountability Act), this program combines added flexibility in the local use of state educational funds with increased local accountability for student performance.
- State and school system Report Cards. Tied
  to the Performance-Based Accountability
  Program, these reports allow parents and
  other citizens to look at strong and weak
  points of a school system or the state.
- State support for Advanced Placement (AP) courses. For the first time in 1993-94, the state will support student participation in AP courses in every school system. AP courses are rigorous courses which provide an opportunity for high school students to study college-level material and potentially earn college course credit.

All of these efforts are helping North Carolina move closer to the goals and targets set by the state's policy makers and leaders. Commitment to these

efforts continues to be a strong factor not only in promoting improved performance on the SAT but in promoting higher achievement on every measure currently used to assess student performance.

#### Sources of data for the report

The data in this report are from three primary sources: (1) National College-Bound Seniors: 1993 SAT Profile, and profiles from earlier years (The College Board), (2) North Carolina College-Bound Seniors: 1993 SAT Profile, as well as the profiles for other selected states (The College Board), and (3) a data tape of individual student scores for the state's 120 public school systems and two special public schools, prepared by Educational Testing Service in cooperation with The College Board. SAT scores are reported each year for students who were scheduled to graduate. The most recent scores of these students are reported, regardless of when they last took the test.

Data from the College Board vary somewhat from data reported to the Department of Public Instruction, since the Department of Public Instruction data were restricted to the 120 public school systems and two special public schools, while the College Board profiles included students from all non-public schools as well. In the several instances where the Department of Public Instruction data were aggregated for the state and differ from the College Board data, care has been taken to identify the data source in order to avoid confusion.

# How the report is presented

This report is broken into four sections with most containing a mix of tables, figures and observations or comments. Section I presents 1993 and historical data for the fifty states and the District of Columbia. Other tables in Section I concentrate on the 24 states where at least 40 percent of seniors take the SAT. These 24 states are known as the SAT

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states and are identified on the inside front cover. Section II emphasizes North Carolina's performance on the SAT compared to the nation's performance. Section III presents the 1993 performance of certain categories of students in North Carolina compared to the performance of the same categories of students in Florida, Georgia, New York, South Carolina, Texas and Virginia. These states were selected either because they are southeastern states or states whose general population characteristics are similar to North Carolina's. Individual school system results for 1993 are presented in Section IV.

#### The Yield Index

The yield index is introduced in Section IV. Yield is based on both the average percent correct on the test (or a section of the test), and how many students out of the total group take the test (participation rate). First, the participation rate is calculated by dividing the number of twelfth-grade students who took the SAT by the seventh-month average daily membership. Percent correct on each section is the percent of total possible section score that was achieved. For example, a score of 400 on the verbal section is 200 on a 600 point scale, since the lowest possible score for each section is 200 and the highest score is 800. The participation rate is then ...ultiplied by the verbal percentage to arrive at the verbal yield score. For example, a school system with an average verbal score of 528 and a participation rate of 50 percent has a verbal yield score of 27 =  $[((528 - 200)/600) \times 50]$ . The index theoretically ranges from zero to 100.

This yield index permits the state, a school system or a school to compare its performance from year to year on a scale adjusted for varying participation rates. Using data from all of the public schools, the state's 1993 verbal yield was 20.6, up from the 1992 verbal yield of 18.2, and the mathematics yield was 25.3, also up from the 1992 mathematics yield of 22.4.

# **School and School System Profiles**

Individual school and school system profiles, similar in format to the state profile presented as Tables 10 and 11, were provided to each of the school systems or schools. A compilation of the school system profiles is available from the Department of Public Instruction. Graphical presentations of school system trends in performance (from 1989 to 1993), and school system frequency distributions were also provided to school systems.

Note that earlier reports in North Carolina's SAT performance were released and are available through the Department of Public Instruction. They are as follows:

North Carolina Scholastic Aptitude Test Results: State and 126 School System Reports, 1990, (in two volumes).

The North Carolina 1991 Scholastic Aptitude Test Report: State, 129 Public School System and 2 Special School Reports, 1991.

The North Carolina 1992 Scholastic Aptitude Test Report: State, the 129 Public School Systems and 2 Special Schools, 1992.



Comparing the Performance of

# The Fifty States

1993 and Historically

This section presents 1993 and historical data for the fifty states and the District of Columbia. Some tables only compare the 24 SAT states, where at least 40 percent of seniors take the SAT. In those states where very small percentages of students take the test, the students are typically applicants to the nation's most selective colleges, so that average scores for these states are generally higher than the national average. In the SAT states where greater proportions of students take the test, the scores are closer to the national average. For this reason, caution must be used when comparing states. Since ranking states on the basis of SAT scores alone fails to take into account a number of important factors, including participation, a method for 'correcting' a state's SAT score for percent tested has been used. A regression of average score against a function of percent tested determined the coefficients used to adjust scores and ranks for participation (by estimating the number of score points a state generally decreases for one point increase in percent tested.)



Table 1. 1993 SAT Verbal, Mathematics, and Total Scores Ranked by State

State	Percent Tested	Verbal Mean	Verbal Rank	Math Mean	Math Rank	Total Mean	Total Rank
Alabama	9	480	13	526	15	1006	14
Alaska	42	438	29	477	34	915	31
Arizona	28	444	25	497	25	941	25
Arkansas	6	478	15	519	19	997	18
California	<del>4</del> 7	415	44	484	31	899	35
Colorado	28	454	23	509	21	963	23
Connecticut	88	430	33	474	36	• 904	33
Delaware	68	429	34	465	43	894	36
District of Columbia	76	405	48	441	51	846	49
Florida	52	416	42	466	42	882	44
Georgia	65	399	50	445	49	844	50
Hawaii	56	401	49	478	32	879	45
Idaho	18	465	20	507	22	972	21
Illinois	15	475	18	541	9	1016	10
Indiana	61	409	46	460	46	869	47
Iowa	5	520	1	583	1	1103	i
Kansas	り	494	5	548	7	1042	6
Kentucky	11	476	17	522	17	998	17
Louisiana	9	481	10	527	14	1008	13
Maine	69	422	38	463	45	885	41
Maryland	<b>6</b> 6	431	32	478	32	909	32
Massachusetts	81	427	35	476	35	903	34
Michigan	11	468	19	528	13	996	19
Minnesota	10	489	6	556	4	1045	5
Mississippi	4	481	10	521	18	1002	16
Missouri	11	481	10	532	10	1013	11
Montana	24	459	22	516	20	975	20
Nebraska	10	479	14	544	8	1023	8 30
Nevada	28	432	31	488	27	920 929	30 27
New Hampshire	78	442	26	487	28	929 892	39
New Jersey	76	419	39	473 525	37	1003	15
New Mexico	11	478	15	525 471	16 39	887	40
New York	74	416	42 47	471	48	859	48
North Carolina	60	406		583	40 1	1101	2
North Dakota	6	518	2 23	505	24	959	24
Ohio	22	454 482	2.5 9	530	12	1012	12
Oklahoma	9	462 441	27	492	26	933	26
Oregon	56	418	41	460	46	878	46
Pennsylvania	70 71	419	39	464	44	883	43
Rhode Island	61	396		142	50	838	51
South Carolina	6	502		558	3	1060	3
South Dakota	13	486		531	11	1017	9
Tennessee	45	413		472		885	41
Texas	43	500		549		1049	4
Utah	68	426		467		893	38
Vermont	63	425		469		894	36
Virginia	52	435		486		921	29
Washington	17	439		485		924	28
West Virginia	10	485		551		1036	7
Wisconsin Wyoming	13	463		507		970	22

# **Observations for Table 1:**

- North Carolina scored 859 on the Total SAT in 1993: 406 on the verbal section and 453 on the mathematics section.
- An estimated 60 percent of North Carolina seniors took the SAT in 1993, which is 3 percent more than took the test in 1992.
- North Carolina ranked 48th on total SAT score, ranking above Georgia, South Carolina and the
  District of Colombia; ranked 47th on verbal score, ranking above the District of Columbia,
  Georgia, South Carolina and Hawaii; and ranked 48th on mathematics, ranking above
  Georgia, South Carolina and the District of Columbia.

### Observations for Table 2:

- North Carolina improved its total SAT score by four points over the previous year, improving its mathematics score by three points and its verbal score by one point.
- North Carolina's highest rank since 1988 was the 1991, 1992 and 1993 rank of 48.
- North Carolina's total score remained 48th for the 3rd consecutive year but moved closer to the 47th position.



Table 2. 1988-1993 Total SAT Scores Ranked by State

State	1988 Total	Rank	1989 Total	Rank	1990 Total	Rank	1991 Total	Rank	1992 Total	Rank	1993 Total	Rank	1993 Percent Tested
Alabama	1000	14	1002	11	984	18	991	18	996	14	1006	14	9
Alaska	916	31	923	31	914	31	920	29	908	31	915	31	42
Arizona	955	24	952	24	942	25	932	25	933	25	941	25	28
Arkansas	995	16	986	17	981	19	1005	11	990	17	997	18	6
California	908	33	906	34	903	33	897	33	900	34	899	3 <b>5</b>	47
Colorado	971	21	966	22	96 <b>9</b>	21	959	23	960	23	963	23	28
Connecticut	908	33	908	33	901	35	897	33	900	34	904	33	88
Delaware	89 <del>9</del>	39	903	37	903		892		895	37	894	36	68
District of Columbia	839	50	846	49	850		840		842	<b>49</b> 40	846 882	49 44	<b>76</b> 52
Florida	890	42	887	44	884		882		884 842	40	844	50	65
Georgia	848	48	847	48	844		844		842 878	49 44	879		56
Hawaii	888	.14	888	43	885		883		963	22	972		18
Idaho	968	23	965	23	968		968 1006		1010		1016		15
Illinois	984	20	982	19	994				868		869		61
Indiana	870		871	47	867		86 <b>5</b> 1093		1096		1103		5
Iowa	1090		1084		1088 1040		1093		1033		1042		9
Kansas	1035		1040		994		993		988		998	_	11
Kentucky	990		996		993		994		991		1008		9
Louisiana	989		986		886		879		882		885		69
Maine	896		897 914		908		904		907		909		66
Maryland	908		905		900		896		902		903		81
Massachusetts	906		. 972		968		980		987		996		11
Michigan	970 1001		1006		1019		1023		1053	-	1045		10
Minnesota	1001		988	•	996	•	997	-	1004		1002	2 16	4
Mississippi	990		989		99		1002		1004		1013	3 11	11
Missouri	1000		992		98		982		988		975	5 20	24
Montana Nebraska	1032		1030	- "	1030		1024		1018	3 8	1023	3 8	10
Nevada	926		920		92		919	9 30	92:	2 29	920	30	
New Hampshire	933		932	-	92		92	1 28	92:	3 28	929		
New Je sey	893		894		89		88	6 39	89	1 39	897		
New Mexico	1002		101		100	7 10	99	6 15	99	6 14			
New York	889			3 42	88	2 45	88	1 42					
North Carolina	84				84	1 50	84	4 48					
North Dakota	105	3 3	106				107						
Ohio	95	1 25	94	8 25									
Oklahoma	100	5 9											
Oregon	92	3 30											
Pennsylvania	88												-
Rhode Island	90												
South Carolina	83												
South Dakota	107												3 6 9 13
Tennessee	100												
Texas	87										4 104		4 4
Utah	103		5 103										
Vermont	90					97 31		90 37 90 37					
Virginia	90					95 38 23 28		13 3					
Washington	94					23 20 <b>3</b> 3 <b>2</b> 0		15 5 26 20				24 2	
West Virginia	94						7 10		7 102		7 103		7 10
Wisconsin	100		§ 10: 1 9:			19 77 21		23 80 20		78 2			2. 13
Wyoming	100	)1 1	1 9	10 21	<i>,</i> 9	., 2	, <u>,</u>	J. 2.	,		- /		



Table 3. 1993 SAT Verbal, Mathematics, and Total Scores for States with 40 Percent or More of Seniors Taking the Test

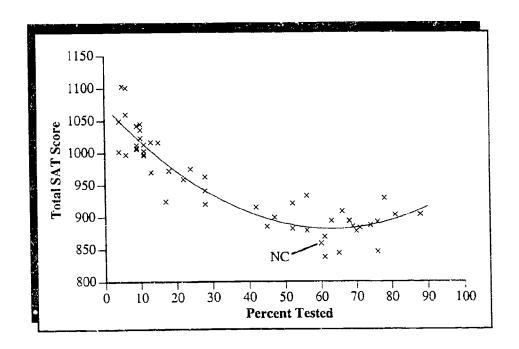
Child	Percent Tested	Verbal Mean	Verbal Rank	Math Mean	Math Rank	Total Mean	Total Rank
State	42	438	3	477	7	915	4
Alaska	47	415	17	484	4	899	8
California	88	430	6	474	9	904	6
Connecticut	68	429	7	465	16	894	9
Delaware	76	405	21	441	24	846	22
District of Columbia	52	416	15	466	15	882	17
Florida	65	399	23	445	22	844	23
Georgia	56	401	22	478	5	879	18
Hawaii	61	409	19	460	19	86 <del>9</del>	20
Indiana	69	422	11	463	18	885	14
Maine	66	431	5	478	5	909	5
Maryland	81	427	8	476	8	903	7
Massachusetts	78	442	1	487	2	929	2
New Hampshire	76 76	419	12	473	10	892	12
New Jersey	76 74	416	15	471	12	887	13
New York		406	20	453	21	859	21
North Carolina	60	441	2	492	1	933	1
Oregon	56 50	418	14	460	19	878	19
Pennsylvania	70	419	12	464	17	883	16
Rhode Island	71	396	24	442	23	838	24
South Carolina	61		18	472	11	885	14
Texas	45	413	9	467	14	893	11
Vermont	68	426	10	469	13	894	9
Virginia	63	425	4	486	3	921	3
Washington	52	435	4	+00	J	721	_

# **Observations for Table 3:**

- Twenty-four states administered the SAT to 40 percent or more of seniors in 1993 (see inside front cover.) The percentage of students taking the SAT ranged from 42 percent in Alaska to 88 percent in Connecticut. Sixty percent of North Carolina seniors were tested, an increase of 3 percentage points from 1992.
- Sixteen states had higher percentages of students tested than North Carolina.



Figure 1. Scatterplot of Total SAT Score by Percent of Students Tested for all States



# Observations for Figure 1 and Table 4:

- Generally, as states increase their SAT participation rate, their average score decreases.
- With an adjustment for percent tested, North Carolina's rank improves to 44.

Note: The line in Figure 1 represents a states expected score, a statistic that is based only on percent tested and does not account for other variations in student populations. States above this line are scoring better than expected while states below this line are scoring lower than expected. A state's residual is the difference between their actual and expected scores.

Table 4. 1993 Percent Tested, SAT Scores, and Adjusted Total SAT Scores and Ranks Adjusted for Percent Tested

State	Percent Tested	Total Mean	Total Rank	Expected Score	Residual	Residual Rank
Alabama	9	1006	14	1023	-17.2	42
Alaska	42	915	31	903	12.1	16
Arizona	28	941	25	941	0.0	26
Arkansas	6	997	18	1039 <sup>.</sup>	-42.3	47
California	47	899	35	894	5.2	20
Colorado	28	963	23	941	22.0	9
Connecticut	88	904	33	911	<b>-7</b> .1	33
Delaware	68	894	36	882	11.7	17
District of Columbia	76	846	49	889	-43.2	48
Florida	52	882	44	887	-5.2	31
Georgia	65	844	50	881	-37.4	46
Hawaii	56	879	45	884	-4.7	30
Idaho	18	972	21	980	-7.9	34
Illinois	15	1016	10	993	22.6	8
Indiana	61	869	47	881	-12.4	38
Iowa	5	1103	1	1045	58.1	2
Kansas	9	1042	6	1023	18.8	12
Kentucky	11	9 <b>98</b>	17	1013	-14.9	39
Louisiana	9	1008	13	1023	-15.2	40
Maine	69	885	41	883	2.1	23
Maryland	66	909	32	882	27.4	6
Massachusetts	81	903	34	897	6.4	19
Michigan	11	996	19	1013	-16.9	41
Minnesota	10	1045	5	1018	27.0	7 <b>50</b>
Mississippi	4	1002	16	1051	-48.6	24
Missouri	11	1013	11	1013 955	0.1 19.6	11
Montana	24	975	20	1018	5.0	21
Nebraska	10	1023	8 30	941	-21.0	43
Nevada	28	920	27	892	37.1	4
New Hampshire	78 26	929 <b>892</b>	39	- 889	2.8	22
New Jersey	76		15	1013	-9.9	35
New Mexico	11	1003 887	40	887	0.1	24
New York	74	859	48	882	-22.7	44
North Carolina	60 6	1101	2	1039	61.7	i
North Dakota	22	959	24	963	-4.2	<b>2</b> 9
Ohio <b>Oklahoma</b>	9	1012	12	1023	-11.2	36
	56	933	26	884	49.3	3
Oregon	70	878	46	883	-5.5	32
Pennsylvania Rhode Island	71	883	43	884	-1.2	27
South Carolina	61	838	51	881	-43.4	49
South Dakota	6	1060	3	103 <del>9</del>	20.7	10
Tennessee	13	1017	9	1003	14.0	14
Texas	45	885	41	897	-12.2	37
Utah	4	1049	4	1051	-1.6	28
Vermont	68	893	38	882	10.7	18
Virginia	63	894	36	881	12.8	15
Washington	52	921	29	887	33.8	5
West Virginia	17	924	28	984	-60.3	51
Wisconsin	10 .	1036	<i>.</i> 7	1018	18.0	13
Wyoming	13	970	22	1003	-33.0	45



Table 5. Yearly Changes and Overall Change in Total SAT Score from 1989 to 1993 for States with 40 Percent or More Seniors Taking the Test

State	1993 Total	Change from 1992 to 1993	Change from 1991 to 1992	Change from 1990 to 1991	Change from 1989 to1990	Change from 1989 to 1993
Alaska	915	7	-12	6	-9	-8
California	899	-1	3	-6	-3	-7
Connecticut	904	4	3	-4	-7	-4
Delaware	894	-1	3	-11	0	-9
District of Columbia	846	4	2	-10	4	0
Florida	882	-2	2	-2	-3	-5
Georgia	844	2	2 -2 -5	0	-3	-3
Hawaii	879	1	-5	-2	-3	-9
Indiana	869	1	3	-2	-4	-2
Maine	885	3	3	-7	-11	-12
Maryland	909	2	3	-4	-6	-5
Massachusetts	903	1	6	-4	-5	-2
New Hampshire	929	6	2	-7	-4	-3
New Jersey	892	1	5	-5	-3	-2 -3
New York	887	5	1	-1	-8	
North Carolina	859	4	11	3	5	23
Oregon	933	8	3	-1	-4	6
Pennsylvania	878	1	1	-7	-3	-8
Rhode Island	883	2	1	-3	-12	-12
South Carolina	838	7	-1	-2	-4	0
Texas	885	9	2	0	-3	8
Vermont	893	-4	7	-7	-8	-12
Virginia	894	1	3	-5	-7	-8
Washington	921	5	3	-10	-16	-18

# Observations for Table 5:

- North Carolina improved its total SAT score by 4 points in 1993. This is the 8th highest gain among the SAT states.
- North Carolina had a two year improvement of 15 points, which is the highest among the SAT states and a three year improvement of 18 points, the highest among the SAT states.
- North Carolina is the only SAT state with four consecutive years of improvement in total SAT score. The four year increase of 23 far exceeds that of any other SAT state.



Comparing the Performance of

# North Carolina and the Nation

1993 and Historically

This section contains four smaller sections: North Carolina and the United State's SAT scores since 1972; a frequency distribution of North Carolina's student scores; a graphical representation of the distribution of scores; and a comparison of student performance with scores disaggregated for selected categories of students (trend data is shown for the past six years.)



Table 6. Average Total SAT Scores for North Carolina and the United States: 1972-1993\*

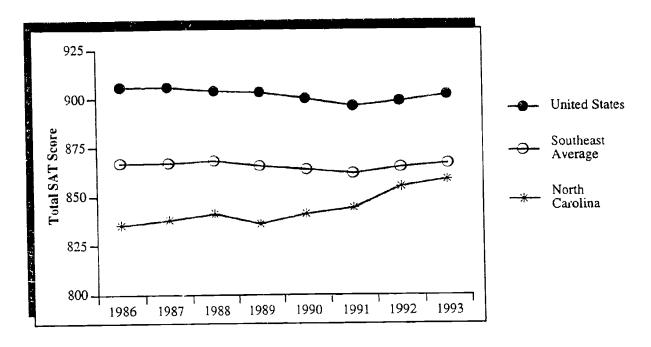
	Na	tional Average	e	North	Carolina Average		
Year	Verbal	Math	Total	Verbal	Math	Total	
1972	453	484	937	411	438	849	
1973	445	481	926	408	439	847	
1974	444	480	924	409	437	<b>846</b> .	
1975	434	472	906	399	428	827	
1976	431	472	903	<b>39</b> 6	423	819	
1977	429	470	899	394	425	819	
1978	429	468	897	390	424	814	
1979	427	467	894	393	426	819	
1980	424	466	890	393	429	822	
1981	424	466	890	391	427	818	
1982	426	467	8 <b>9</b> 3	396	431	827	
1983	425	468	893	394	431	825	
1984	426	471	897	395	432	827	
	431	475	906	398	435	833	
1985	431	475	906	399	436	835	
1986	430	476	906	400	438	838	
1987		476	904	401	440	841	
1988	428 427	476	903	397	439	836	
1989	427	476	900	401	440	841	
1990	424	474	896	400	444	844	
1991	422	474 476	899	405	450	855	
1992	423	478	902	406	453	859	
1993	424	770	70 <b>2</b>				

<sup>\*1972</sup> was the first year that the College Board began reporting the most recent SAT scores of seniors, regardless of when the student last took the test. Data prior to that time are not comparable.

#### Observations for Table 6:

- The national average improved for the second consecutive year with the verbal and mathematics scores increasing to 424 and 478 respectively.
- In 1993 North Carolina's average total and mathematics scores were the highest achieved since 1972 (which was the first year the College Board reported the most recent scores of seniors), and the verbal score was the highest since 1974.
- In the last ten years North Carolina has slowly been closing the gap between their average and the national average in both the verbal and mathematics sections.
- Currently, the United States average is 18 points above the North Carolina average for verbal and 25 points higher than the North Carolina average for mathematics.

Figure 2. Average Total SAT Scores for the United States, the Southeast Region and North Carolina: 1986–1993



#### **Observations:**

- In 1993 North Carolina's average total scores were the highest achieved since 1972 (which was the first year the College Board reported the most recent scores of seniors.)
- The trend line for the United States from 1985 to 1993 shows that the United States was on a downward trend from 1986 to 1991, and slightly up in 1992 and 1993. The trend line for North Carolina has generally been up since 1986. North Carolina has improved upon their score from the previous year in nine of the last ten years, while gaining an average of a little more than 3 points per year over this period.

Data Source: Tables 2 and 6.

25



Table 7. Frequency Distributions of North Carolina 1993 SAT Verbal and Mathematics Scores

Verbal	(Mean = 406, Yield			Mathematics (M	lean = 453. Yield	
Number	Percent	N. C. Percentile	Score	Number	Percent	N. C. Percentile
1	0.00	99	800	20	0.06	99
	0.00	99	790	39	0.12	99
<b>0</b> 7 0	0.02	99	780	31	0.09	99
0	0.00	99	770	39	0.12	99
12	0.04	99	760	73	0.22	99
10	0.03	99	750	62	0.18	99 <b>99</b>
21	0.06	99	740	123	0.36	99 99
46	0.14	99	730	103 100	0.30 0.30	99
40	0.12	99	720 710	127	0.38	98
61	0.18	99 <b>9</b> 9	700	159	0.47	98
39	0.12 0.28	99	690	184	0.54	97
94	0.29	99	680	222	0.66	<b>9</b> 7
99 82	0.24	99	670	104	0.31	96
85	0.25	98	660	272	0.81	96
120	0.36	98	650	303	0.90	95
140	0.41	98	640	311	0.92	94
210	0.62	97	630	360	1. <b>07</b>	93
149	0.44	97	620	393	1.16	92
189	0.56	96	61Û	461	1.36	90
315	0.93	95	600	463	1.37	89
214	0.63	95	590	509	1.51	88
237	0.70	94	580	549	1.63	86
405	1.20	93	570	628	1.86	84 82
282	0.83	92	560	668	1.98 2.31	80 80
477	1.41	91	550 540	781 747	2.21	78
396	1.17	90 88	530	805	2.38	76
587	1.74	86	520	873	2.58	73
711	2.10 1.66	84	510	1435	4.25	70
560 <b>82</b> 7	2.45	82	500	1013	3.00	66
625	1.85	80	490	1022	3.03	63
990	2.93	78	480	1075	3.18	60
1163	3,44	75	470	1106	3.27	57
837	2.48	72	460	1000	2.96	54
1176	3.40	69	450	1033	3.06	51
935	2.77	65	440	1016	3.01	48
1323	3.92	62	430	1156	3.42	44
1149	3.40	58	420	1037	3.07	41 38
1370	4.06	55	410	1045 1029	3.09 3.05	35 35
1566	4.64	50	400 390	1029	3.25	32
941	2.79	47 43	380	1022	3.03	29
1434	4.24 3.60	39	370	935	2.77	29 26
1216	4.04	35	360	889	2.63	23
1366 1124	3.33	32	350	875	2.59	20
937	2.77	29	340	815	2.41	18
1443	4.27	25	330	834	2.47	16
711	2.10	22	320	719	2.13	13
1258	3.72	19	310	998	2.95	11 8 7
803	2.38	16	300	580	1.72	8
673	1.99	14	290	549	1.63	7
912	2.70	11	280	429	1.27	5
554	1.64	9	270	418	1.24	4
553	1.64	8	260	351	1.04 0.77	3 2 1
561	1,66	6	250 240	260 199	0.77	1
407	1.20	9 8 6 5 4 3	230	133	0.39	i
256	0.76	4 7	230 220	70	0.39	i
320	0.95 0.62	2	210	61	0.18	ī
208 <b>554</b>	1. <b>64</b>	ĩ	200	69	0.20	1
334	1,04	•				

Note: Data are from the 120 Public School Systems and 2 Special Schools.



Figure 3. Distribution of North Carolina 1993 Individual SAT Verbal Scores

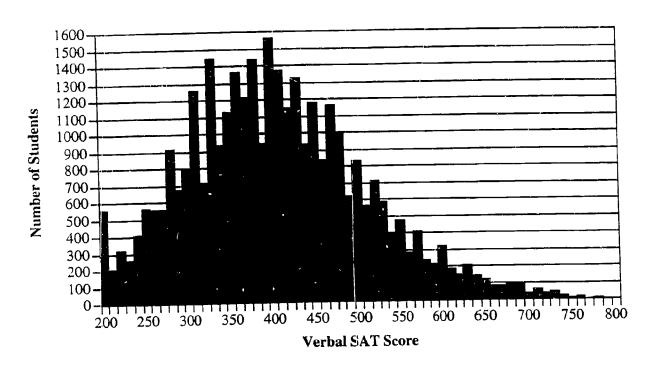
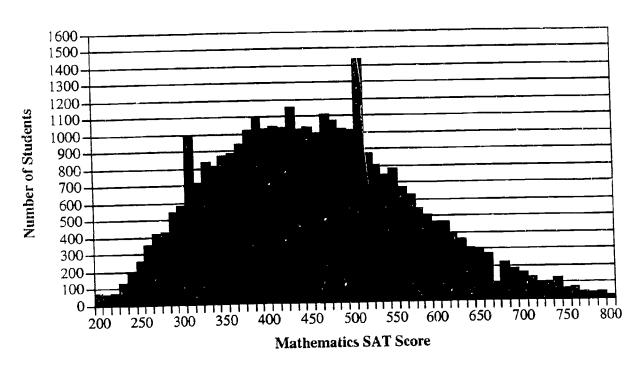


Figure 4. Distribution of North Carolina 1993 Individual SAT Mathematics Scores



Note: Data are from the 120 Public School Systems and 2 special schools.

Table 8. Total Score Breakdown: North Carolina and the United States

	No	rth Carolina		United S		Difference	
	<u></u>	Average		Average		from U.S.	
All Students	37.155	859	100	902	100	-43	
Sex						10	
Male	16,784	882	45	930	47	<del>-4</del> 8	
Female	20.371	8 <b>3</b> 9	55	877	53	-38	
Race/Ethnicity							
American Indian	505	775	1	847	1	-72	
Asian American	836	920	2	950	.8	-30	
Black	7,489	722	22	<b>741</b> 9 <b>3</b> 8	11 70	-19 -34	
White	25,267	904	73 <b>2</b>	823	10	46	
Other	578 2,480	869	2	023	10	40	
No response	400ء						
Parent Education Level		wa.c.	•	746	~	-17	
No High School Diploma	1,058	7 <b>29</b>	3	7 <b>46</b> 840	5 37	-32	
High School Diploma	15,220	808 <b>832</b>	44 10	865	8	-33	
Associate Degree	3 <b>.374</b> 9.018	909	26	947	27	-38	
Bachelor's Degree Graduate Degree	5,903	9 <b>7</b> 7	17	1012	24	- <b>3</b> 5	
Graduate Degree	2,705	,,,					
Family Income	. 707	7700	5	768	6	-39	
Less than \$10,000	1,705	729 780	13	813	1!	-33	
\$10,000 - \$20,000	4.248 5,325	82 <b>5</b>	16	857	14	-32	
\$20,000 - <b>\$30,000</b> \$30,000 - <b>\$</b> 40,000	6.113	853	ĩ9	887	17	-34	
\$40 <b>.</b> 000 - \$50,000	4,410	875	14	914	13	-39	
\$50,000 - \$60,000	3,536	900	11	933	11	-33	
\$60,000 - \$70,000	2,248	923	7	953	8	-30 -35	
More than \$70,000	4,840	970	15	1005	21	-33	
No response	4,730						
Total Credits in Six							
Academic Subjects				000	40	41	
20 or more	9.710	958	33	999 923	42 13	-41 -25	
19 to 19.5	3.904	898 <b>861</b>	13 14	883	12	-23	
18 to 18.5	<b>3,946</b> 3,184	824	11	846	iõ	-22	
17 to 17.5 16 to 16/5	2,371	787	8	817	8	-30	
15 to 15.5	1.913	7 <b>7</b> 9	7	802	6	-23	
Fewer than 15	4,189	767	14	776	11	-9	
No response	7.938						
III-b Cabaal Crade							
High School Grade Point Average							
A+ (97-100)	1,837	1126	5	1170	.5	-44	
A (93-96)	5.102	1014	i 5	1070	13	-56	
A- (90-92)	5,063	933	15	1004	<b>1</b> 4 51	-71 -49	
B (80-89)	16.867	817	49 16	866 748	17	-34	
C (70- <b>7</b> 9)	5,468	7 <b>14</b> 674	16 0	717	0	-43	
D or below	148 2,670	074	U	, . ,	ū		
No Responce	2,070						
High School Class Rank	- 100	1054	7.1	1099	21	<b>-4</b> 5	
Top Tenth	6.493	1054	21 22	962	22	-43	
Second Tenth	6.780 8 <b>,793</b>	919 <b>834</b>	28	878	27	-44	
Second Fifth	7,789	747	25	<b>78</b> 6	24	-39	
Third Fifth Fourth Fifth	1,194	688	4	730	4	-42	
Bottom Fifth	277	664	1	699	1	-35	
No response	5,829						
•							



Table 9. Verbal Score Breakdown: North Carolina and the United States

	North Carolina			United St		Difference	
	N	Average	-%	Average 424	100	from U.S. -18	
All Students	37,155	406	100	424	100	-10	
Sex Male Female	16,784 20.371	4 <b>09</b> 403	<b>45</b> 55	4 <b>28</b> 420	<b>47</b> 53	-19 -17	
Race/Ethnicity American Indian Asian American Black White Other No response	505 836 7,489 25,267 578 2,480	363 404 342 428 413	1 2 22 73 2	400 415 353 444 386	1 8 11 70 10	-37 -11 -11 -16 27	
Parent Education Level No High Schoo' Diploma High School Diploma Associate Degree Bachelor's Degree Graduate Degree	1,058 15,220 3,374 9,018 5,903	339 381 394 430 465	3 44 10 26 17	338 395 408 445 478	5 37 8 27 24	1 -14 -14 -15 -13	
Family Income Less than \$10,000 \$10,000 - \$20,000 \$20,000 - \$30,000 \$30,000 - \$40,000 \$40,000 - \$50,000 \$50,000 - \$60,000 \$60,000 - \$70,000 More than \$70,000 No response	1,705 4,248 5,325 6,113 4,410 3,536 2,248 4,840 4,730	342 368 390 404 415 425 437 456	5 13 16 19 14 11 7	352 379 404 418 431 440 449 472	6 11 14 17 13 11 8 21	-10 -11 -14 -16 -15 -12 -16 0	
Total Credits in Six Academic Subjects 20 or more 19 to 19.5 18 to 18.5 17 to 17.5 16 to 16/5 15 to 15.5 Fewer than 15 No response	9,710 3,904 3,946 3,184 2,371 1,913 4,189 7,938	456 424 406 387 370 367 360	33 13 14 1! 8 7	471 434 415 397 384 377 361	42 13 12 10 8 6 11	-15 -10 -9 -10 -14 -10	
High School Grade Point Average A+ (97-100) A (93-96) A- (90-92) B (80-89) C (70-79) D or below No Responce	1,837 5,102 5,063 16,867 5,468 148 2,670	529 478 439 387 340 324	5 15 15 49 16 0	547 500 469 408 355 339	5 13 14 51 17 0	-18 -22 -30 -21 -15 -15	
High School Class Rank Top Tenth Second Tenth Second Fifth Third Fifth Fourth Fifth Bottom Fifth No response	6,493 6,780 8,793 7,789 1,194 277 5,829	496 432 394 355 328 320	21 22 28 25 4	513 449 412 373 350 336	21 22 27 24 4	-17 -17 -18 -18 -22 -16	



Table 10. Mathematics Score Breakdown: North Carolina and the United States

	North Carolina			United States		Difference	
		Average	%	Average	%	from U.S.	
All Students	37,155	453	100	478	100	-25	
Sex	14 804	1770	AE	<b>500</b>	47	-29	
Male	16,784	473	<b>45</b> 55	502 457	47 53	-29 -21	
Female	20,371	436	33	457	23	*21	
Race/Ethnicity	505	412	i	447	1	-35	
American Indian	836	516	2	535	8	-19	
Asian American	7,489	380	22	388	11	-8	
Black	25,267	476	73	494	<del>7</del> 0	-18	
White	578	456	2	437	íŏ	19	
Other No response	2,480	450	-				
Parent Education Level							
No High School Diploma	1,058	390	3	408	5	-18	
High School Diploma	15.220	427	44	445	37	-18	
Associate Degree	3,374	438	10	457	8	-19	
Bachelor's Degree	9,018	479	26	502	27	-23	
Graduate Degree	5,903	512	17	534	24	-22	
Family Income			_	44.0	,	an.	
Less than \$10,000	1,705	387	5	416	6	-29 -22	
\$10,000 - \$20,000	4.248	412	13	434	11	-22 <b>-1</b> 8	
\$20,000 - \$30,000	5,325	435	16	<b>453</b> 469	1 <b>4</b> 17	-18 -20	
\$30,000 - \$40,000	6,113	449	19	469 483	17	-20 -23	
\$40,000 - \$50,000	4,410	460	14 11	493 493	11	-18	
\$50,000 - \$60.000	3,536	475	7	<b>5</b> 04	8	-18	
\$60,000 - \$70,000	2,248	486 514	15	533	21	-19	
More than \$70,000	4,840	314	15	555	21	17	
No response	4,730						
Total Credits in Six							
Academic Subjects	9,710	502	33	528	42	-26	
20 or more	3,904	474		489	13	-15	
19 to 19.5	3,946	455	14	468	12	-13	
18 to 18.5 17 to 17.5	3,184	437	ii	449	10	-12	
17 to 17.5 16 to 16/5	2,371	417	8	433	8	-16	
15 to 15.5	1,913	412	7	425	6	-13	
Fewer than 15	4,189	407	14	415	11	-8	
No response	7 <b>,93</b> 8						
High School Grade					•		
Point Average			_	£ 40	-	26	
A+ (97-100)	1,837	597	5	623	.5	-26	
A (93-96)	5,102	536	15	570 525	13	-34 -41	
A- (90-92)	5,063	494	15	535	14	-41 -28	
B (80-89)	16,867	430	49	458	51 <b>17</b>	-20 -19	
C (70-79)	5,468	374	16	393 378	0	-28	
D or below	148	350	0	316	U	-20	
No Responce	2,670						
High School Class Rank	6 407	558	21	586	21	-28	
Top Tenth	6,493 6,780	487	22	513	22	-26	
Second Tenth	6,780 8,793	440	28	466	27	-26	
Second Fifth	7,789	392	25	413	24	-21	
Third Fifth	1,194	360	4	380	4	-20	
Fourth Fifth	277	344	1	363	i	-19	
Bottom Fifth	5,829	5.,	•		-		
No response	ريين, د						

Table 11. United States and North Carolina Total SAT Scores for Categories of Students: 1988-1993

	i	ын. 43	<b>₹</b> %	30 27 44 46	33 33 33 35 35	2 2 2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	23 22 25 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	25 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	242252X
	5	∵688 200	833 830	775 920 722 904 <b>869</b>	729 808 832 909 977	720 780 825 853 875 900 923 970	958 898 861 824 787 779	1126 1014 933 817 714 674	1054 919 834 747 688 664
•	-	0.S. 902	930 877	847 950 741 938 823	7.46 840 865 9.47	768 813 857 887 914 933 953	949 923 883 846 817 802	1170 1070 1004 866 748	1099 962 878 786 730 699
		Diff. 44	50 38	22 22 33 47	32 35 35 32 32	36 36 37 37 33 33 34 36	36 17 27 27 17	38 52 52 44 44	45 44 44 43 27
	992	N.C. 855	877 837	764 923 719 901 <b>866</b>	733 805 828 908 974	7.38 776 826 849 879 904 919	960 905 863 817 781 768	11.33 1018 937 815 712 673	1055 913 832 741 689 674
;	-	U.S. 899	927 875	837 945 737 933 819	747 837 864 943 1006	767 812 856 885 910 932 950 1000	996 922 884 844 812 795	1171 1072 1006 867 750 717	1097 959 876 784 729 701
i	1								
		Diff. 52	58	38 <b>%</b> 34	81 04 14 13 13 13 14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	44 44 44 44 74 74	23 23 23 23 24 25 25	65 79 39 39 35	30 20 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	100	N.C. 844	865 828	764 912 710 890 860	730 799 821 897 961	722 778 818 840 867 891 909	951 899 851 816 778 760 733	1107 1005 929 807 712 684	1036 907 820 737 684 654
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		U.S. 1	928 874	825 938 737 933 818	754 842 866 941 1005	776 820 864 889 918 953 953	1001 930 892 851 815 791 755	1177 1076 1012 871 755	1097 961 875 783 732
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		All Students	Sex Male Female	Race/Ethnicity American Indian Assan American Black White Other	Parent Education Level No Diploma High School Diploma Associate Degree Bactucior's Degree Graduate Degree	Family Income Less than \$10,000 \$10,000-\$30,000 \$30,000-\$30,000 \$30,000-\$40,000 \$50,000-\$70,000 \$60,000-\$70,000 \$70,000 or more	20 or more 20 or more 19 or 19 5 18 or 18.5 17 or 17 5 16 or 16.5 15 or 15.5 Fewer than 15	± 1 5	High School Rank Top Tenth Second Tenth Second Fifth Thard Fifth Fourth Fifth Bottom Fifth
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Table 12. United States and North Carolina Verbal SAT Scores for Categories of Students: 1988-1993

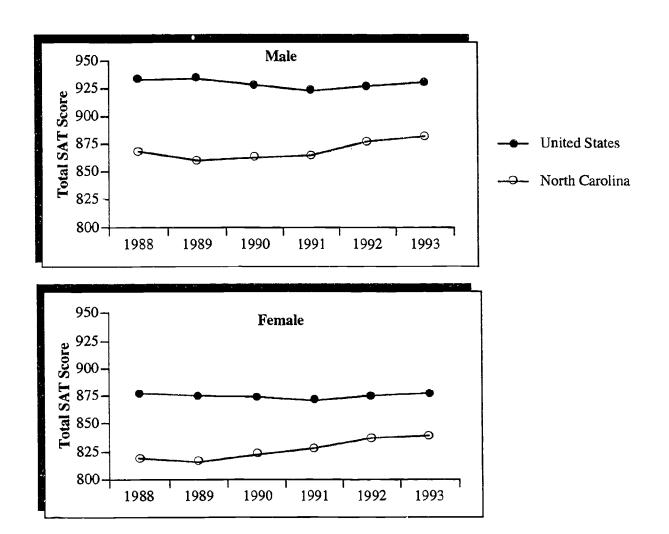
		All Students	Sex Male Female	Race/Ethnicity American Indian Asian American Black White	Parent Education Level No Diploma High School Diploma Associate Degree Bachelor's Degree Graduate Degree	Family Income Less than \$10,000 \$10,000-\$20,000 \$30,000-\$30,000 \$30,000-\$50,000 \$50,000-\$50,000 \$60,000-\$70,000	Total Credits in Six Subjects 20 or more 19 or 19.5 18 or 18.5 17 or 17.5 16 or 16.5 15 or 15.5 Fewer than 15	High School GPA  A+ (97-100)  A (93-96)  A- (90-92)  B (80-89)  C (70-79)  D or below	High School Rank Top Tenth Second Tenth Second Fith Third Fith Fourth Fifth Bottom Fifth	
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Table 13. United States and North Carolina Mathematics SAT Scores for Categories of Students: 1988-1993

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	All Students	Sex Male Female	Race/Ethnicity American Indian Asian American Black White	Parent Education Level No Diploma High School Diploma Associate Degree Bachelor's Degree Graduate Degree	Family Income Less than \$ 10,000 \$10,000-\$20,000 \$20,000-\$30,000 \$40,000-\$30,000 \$50,000-\$70,000 \$50,000-\$70,000	Total Credits in Six Subjects 20 or more 19 or 19.5 18 or 18.5 17 or 17.5 16 or 16.5 15 or 15.5 Fewer than 15	High School GPA A+ (97-100) A (93-96) A- (90-92) B (80-89) C (70-79) D or below	High School Rank Top Tenth Second Tenth Second Fifth Third Fifth Fourth Fifth Bottom Fifth
					22			35

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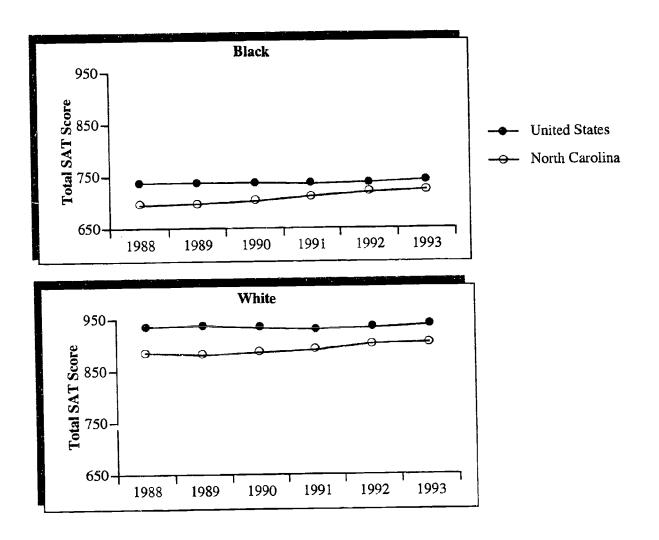
Figure 5. United States and North Carolina Total SAT Scores for Male and Female Students: 1988-1993



#### **Observations:**

- From 1988 to 1992, national total SAT scores for males and females were generally on a downward trend. North Carolina scores for both groups generally have been on an upward trend since 1990, closing the gap between North Carolina and the nation for both males and females.
- Both nationally and in North Carolina males outperform females by about 50 points.

Figure 6. United States and North Carolina Total SAT Scores for Black and White Students: 1988-1993



#### **Observations:**

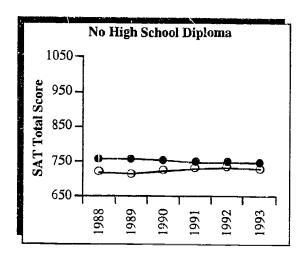
- The gap between total SAT scores for national and North Carolina black and white students has narrowed between 1988 and 1993.
- The largest difference since 1988 between scores of black students nationally and in North Carolina was a 42 point difference in 1988. The smallest difference was an 18 point difference occurring in 1992 (the 1993 difference was 19.)
- The largest difference since 1988 between scores of white students nationally and in North Carolina was a 56 point difference in 1989. The smallest difference was a 32 point difference occurring in 1992 (the 1993 difference was 34.)

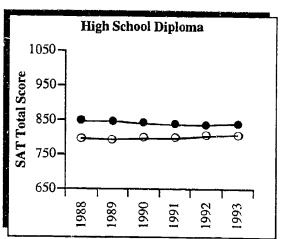


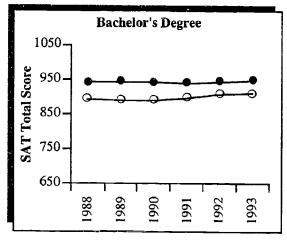
Figure 7. United States and North Carolina Total SAT Scores for Students by Parent Education Level: 1988-1993

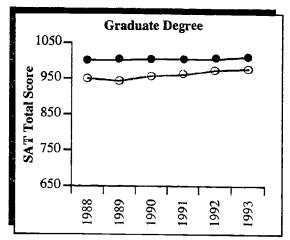
United States

North Carolina









### Observations:

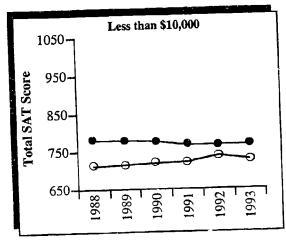
- The gap between total SAT scores for national and North Carolina students in all parent education levels has narrowed between 1988 and 1993.
- Student scores increased as parent education level increased.

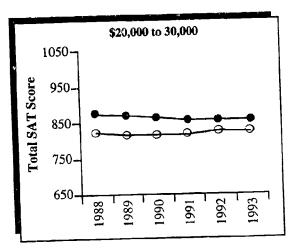


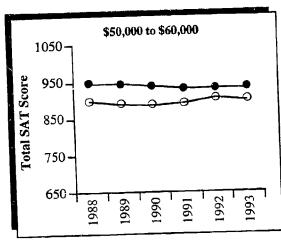
Figure 8. United States and North Carolina Total SAT Scores for Students by Family Income: 1988-1993

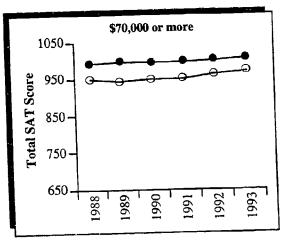
United States

North Carolina





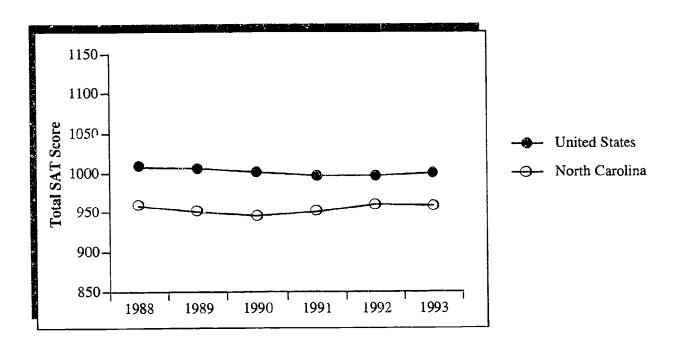




# Observations:

- The gap between total SAT scores for national and North Carolina students in various family income groups has narrowed between 1988 and 1993. The narrowing of the gap has occurred across all income groups, with the largest gains occurring in the lower income groups.
- Student scores increased as family income increased.

Figure 9. United States and North Carolina Total SAT Scores for Students with 20 or More Credits in Six Academic Subjects: 1988-1993



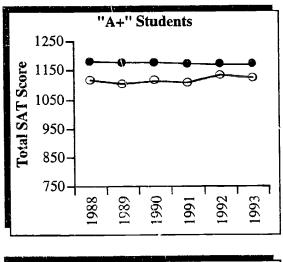
 The gap between total SAT scores for national and North Carolina students who have twenty or more credits in six academic subjects has narrowed since 1988. The largest gap in that time period was 56 in 1990. The lowest difference was 36 in 1992 (the 1993 difference was 41.)

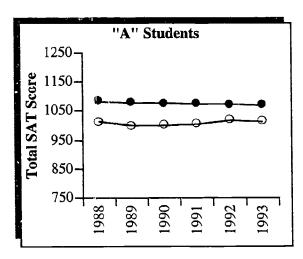
Note: The six academic subject areas are: Arts and Music, Foreign and Classical Languages, Social Sciences and History, Mathematics, English, and Natural Sciences.

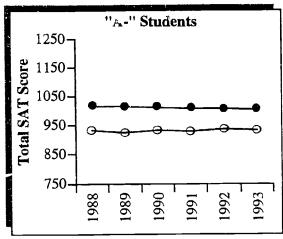
Figure 10. United States and North Carolina Total SAT Scores for A+, A, A-, and B Students: 1988-1993

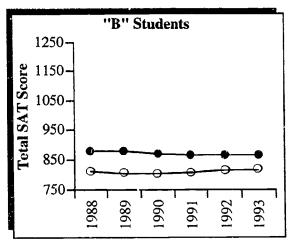
United States

-O- North Carolina









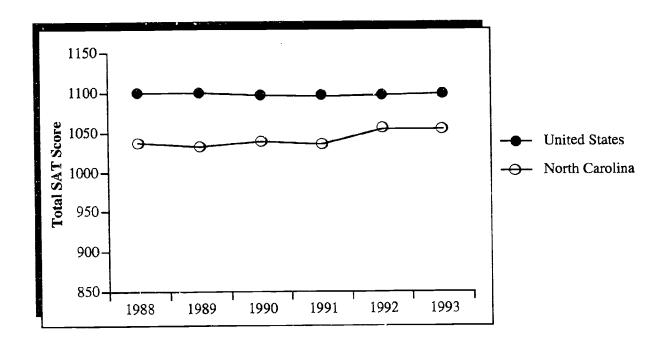
#### **Observations:**

- The gap between total SAT scores for national and North Carolina students with grades of A+, A, A- and B has narrowed since 1988. The gap between national and North Carolina A+ students reached a high of 75 in 1989. The lowest difference of 38 occurred in 1992 (the 1993 difference was 44.)
- North Carolina's top students are not doing as well as the top students in the United States.

Note: Students who reported having a grade point average of B+, B or B- are included as "B" students.



Figure 11. United States and North Carolina Total SAT Scores for Students in the Top Ten Percent of their High School Class: 1988-1993



- The gap between total SAT scores for national and North Carolina students in the top tenth of their class has narrowed since 1988. The greatest difference since 1988 was 68 points in 1989. The lowest difference of 42 was in 1992 (the 1993 difference was 45.)
- As the results for grade point average revealed, results for the top ten percent show that North Carolina's top students perform at a much lower level than top students nationally.

Comparing the Performance of

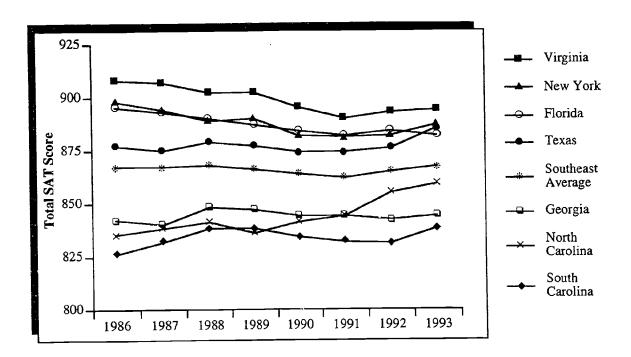
# North Carolina and Six Selected States

1993 and Historically

This section presents the 1993 performance of certain categories of students in North Carolina compared to the performance of the same categories of students in selected other states. Four of the selected states, Florida, Georgia, South Carolina and Virginia, were chosen because of their proximity to North Carolina. The other two states, New York and Texas, were chosen because their general population characteristics are similar to North Carolina's.



Figure 12. Average Total SAT Scores for North Carolina and Selected States: 1986-1993



- Virginia, Florida, New York and Texas consistently outscore North Carolina by a wide margin.
- North Carolina performance had been somewhat below Georgia's until the 1991 tie. North Carolina's 1992 and 1993 scores surpassed Georgia's.
- North Carolina fell below South Carolina in 1989 but regained the loss in 1990.
- North Carolina's performance has always been somewhat below the Southeast average; however, since 1989 the difference has dramatically decreased.

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Table 14. Demographic Characteristics and 1993 SAT Scores for Categories of Students

	United	North			New	South		
		Carolina	Florida	Georgia	York	Carolina	Texas	Virginia
State and Local Per Capita Expenditures for Public Schools	\$812	\$743	\$775	\$787	\$1,097	\$753	\$821	\$838
Pupils per Teacher 2	17.2	17.1	17.0	18.3	14.7	17.0	16.7	15.9
Percent of Children in Poverty 3		16.9	18.3	19.8	18.8	20.8	24.0	13.0
Percent Minority of those Persons age 5-17	25	31	26	36	32	39	30	27
Percent of Adults with 5 Four years of High School	N/A	71.4	79.7	73.9	78.2	70.2	76.6	76.6
Percent of 19-20 year olds with High School Credentials <sup>6</sup>	N/A	85	79	08	98	84	80	86
Percent of Students Admitted to any 4-year College 7	35	37	25	39	38	34	31	39
Percent of High School Students Taking Key Math Courses 8								
Algebra I	A/Z	<i>L</i> 9	78	N/A	69	69	83	81
Algebra II	Α/Z	51	42	N/A	46	55	54	55
Calculus	N/A	;∞	6	N/A	12	7	5	11
SAT Participation Rate <sup>9</sup>	43	09	52	65	74	19	45	63
Average Total SAT Score	902	859	882	844	887	838	885	894
Average Mathematics SAT Score	478	453	466	445	471	442	472	469
Average Verbal SAT Score	424	406	416	399	416	396	413	425

1 "Per Capita Amounts of Selected Financial Items for State and Local Governments by State: 1989-90," Government Finances in 1990-91, p.99

2 The World Almanac Book of Facts 1992, New York: An Imprint of Pharos Books.

3 U.S. Bureau of the Census. Poverty Division. Poverty Statistics for Related Children. 1990 Census of Population.

4 "Income and Poverty Status in 1989 (Table 3)", 1990 Census of Population and Housing, STF3.

5 U.S. Bureau of the Census, Current Population Reports, Educational Attainment of the U.S.: March 1991 and 1990. Washington, D.C.: GPO, 1992.

6 National Education Goals Panel, National Education Goals Report 1992: Building a Nation of Learners. Washington, D.C.: GPO, 1992.

7 Digest of Education Statistics 1991. (calculated based on data from tables 96 and 193).

8 Council of Chief State School Officers. State Policies on Science and Mathematics Education 1992. Washington, D.C., 1992.

9 The College Board, 1993 Profile of SAT and Achievement Test Takers.

Table 55, 1993 Total SAT Scores for the U.S., N.C. and Other Selected States

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	<u>د 8</u>	53	5 11 62 21	77. 7.7. 2.18	7 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	22 11 11 11 12 11	7 17 18 50 8 0	22 29 22 4 4
	Texas average 885	910	877 960 735 934 808	747 831 853 929 986	751 802 850 881 900 918 938	1004 938 905 905 861 820 793 764	1136 1016 943 819 730 710	1063 926 854 854 775 720 682
	£8	45 55	1 2 29 67 1	46 46 11 23 16	7 16 113 10 6 12	29 12 13 10 7	3 10 12 52 23 23	20 21 27 26 5 5
	South Carolina average 838	867 815	806 929 713 894 853	724 787 824 805 958	702 764 810 836 870 893 914 959	949 881 845 845 776 776 736	1131 1024 951 818 720 684	1031 890 819 7.36 680 651
וויווי	<sub>%</sub> 3	47 53	12 12 11	7 40 10 22 21	7 13 13 13 18	56 00 00 00 00 00 00 00 00 00 00 00 00 00	2 10 13 55 19	17 28 28 28 5
na vanci si	New York average 887	913	821 963 750 931 800	759 838 873 943 1019	755 811 845 845 881 908 929 952 1021	980 852 <b>821</b> 820 791 763 730	1239 1123 1038 866 736 685	1119 977 888 793 728 695
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o I ve Ielel	Florida average 882	907	843 934 733 925 837	748 839 858 916	768 813 853 883 908 913 927	969 890 849 815 800 794 791	1144 1036 974 849 738 714	1081 943 <b>856</b> 775 715 683
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Table 15.	North Carolina average 859	882 839	775 920 722 904 869	729 808 832 919 977	729 780 825 853 875 900 970	958 898 861 824 787 779	1126 1014 933 817 714 674	1054 919 834 747 688 664
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	United States average 902	930 877	847 950 741 938 823	746 840 865 947 1012	768 813 857 887 914 933 953	999 923 883 846 847 817	1170 1070 1004 866 748	1099 962 878 786 730 699
	All Students	Sev Male Female	Ethnicity American Indian Asian American Black White	Parent Education Level No Diploma High School Diploma Associate Degree Bachelor's Degree Graduate Degree	Family Income Less than \$10,000 \$10,000-\$20,000 \$20,000-\$30,000 \$30,000-\$40,000 \$50,000-\$70,000 \$60,000-\$70,000 \$60,000-\$70,000	Total Credits in Six Subjects 20 or more 19 or 19.5 18 or 18.5 17 or 17.5 16 or 16.5 15 or 15.5 Fewer than 15	High School GPA A+ (97-100) A+ (93-96) A- (90-92) B+ (80-89) C+ (70-79) D+ or below	High School Rank Top Tenth Second Tenth Second Fifth Third Fifth Fourth Fifth

# REGIENTY AVAILABLE

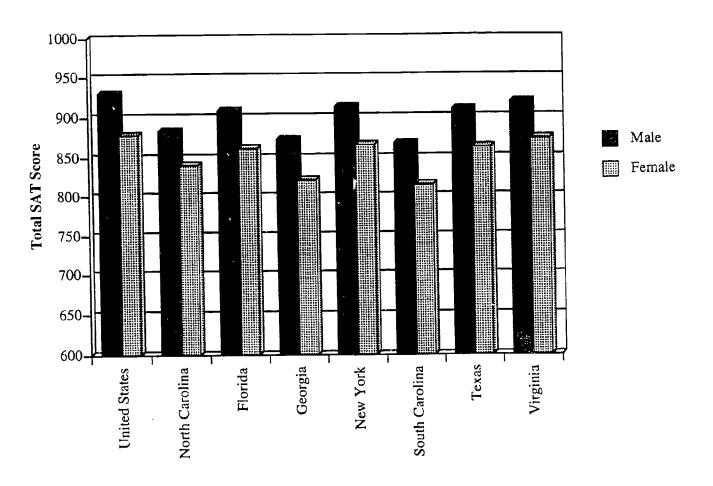
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	Virginia average 425	<b>428</b> 423	397 411 353 447 417	341 391 403 446 483	350 372 399 413 429 440 440 475	471 426 404 390 382 373 355	556 510 477 420 362 338	519 458 419 377 357 347
	%00	53	1 5 11 62 21	37 7 7 28 21.	~ E Z C Z O C E	27 117 117 117 117	7 17 18 50 8 0	22823 
	Texas average 413	<b>417</b> 409	411 421 344 374	338 387 399 435 463	343 371 397 412 422 431 440 458	471 438 421 401 370 370	529 473 438 383 343 138	494 430 399 364 339 321
	%00	<b>45</b> 55	22 29 67	44 46 11 23 16	7 2 2 2 2 3 3 3 4 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	29 12 14 13 10 15	3 12 13 13 13 13	20 21 27 26 5
States	South Carolina average 396	<b>403</b>	388 417 334 424 407	335 371 390 423 456	328 360 384 395 413 421 430 453	450 400 581 366 357 345	535 483 449 386 341	486 419 386 349 324 312
selected	% 100	53	- 229 = 1	7 40 10 22 21	7555557 X	80 00 00 00 00 00 00 00 00 00 00 00 00 0	2011 1012 102 103 103 103 103 103 103 103 103 103 103	17 28 28 5
erbal SAT Scores for the U.S., N.C. and Other Selected States	New York average 416	<b>42</b> 0 413	385 417 361 438 380	346 394 410 443 481	377 376 398 415 427 438 448	460 402 388 377 373 353 339	587 525 485 406 348 378	524 455 415 375 378 338 338
, N.C.	% 100	46 54	22 55 3 = 2	44 7 19	722 722 721 721 721	26 11 13 13 11 18	4 1 1 2 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2	17 21 29 29 5
for the U.S	Georgia average 399	404 394	376 400 336 426 403	323 374 389 428 456	326 336 383 397 413 428 428	456 432 409 389 375 369 352	539 482 446 384 341	493 429 393 357 336 321
Scores	% 001	46 54	1 13 66 16	36 10 22 22	8477750 8	43 114 10 7 8	7 12 12 51 81 81	21 28 26 4 4
	Florida average 416	419	394 418 346 438 395	345 395 405 432 456	358 382 403 418 429 431 431	458 399 385 377 373	535 486 457 401 351	505 442 403 369 344 328
1993 V	% E00	45 55	1 22 73 22	3 44 10 26 17	51 19 11 17 11 12	33 8 7 11 8 7	\$ 15 15 49 0	22 28 25 4
<b>Table 16. 1993</b>	North Carolina average 406	409	363 404 342 428 413	339 381 394 430 465	342 368 390 404 415 425 437	456 424 406 406 330 370 367 367	529 478 439 387 340	496 432 394 355 328 328
	% 90	47 53	1 8 11 70 9	5 37 8 27 24	9 <u> </u>	25. 20. 8 8 9. 1. 5 8 9. 1.	≈ 2 4 2 C c	21 22 27 24 4 4
	United States average 424	428 420	400 415 353 444 386	338 395 408 445 478	352 379 404 418 431 440 440 449	471 434 415 397 377 361	547 500 469 408 355 355	513 449 412 373 350 330
	All Students	Sex Male Female	Ethnicity American Indian Asian American Black White	Parent Education Level No Diploma High School Diploma Associate Degree Bachelor's Degree Graduate Degree	Family Income Less than \$10,000 \$10,000-\$20,000 \$20,000-\$30,000 \$30,000-\$50,000 \$50,000-\$50,000 \$50,000-\$60,000 \$50,000-\$60,000 \$50,000-\$60,000	Total Credits in Six Subjects 20 or more 19 or 19 5 18 or 18.5 17 or 17.5 16 or 16.5 15 or 15.5 1 ever than 15	High School (PA A+ (97-100) A- (93-96) A- (90-92) B- (80-89) C- (70-79) D- or below	High School Rank Top Tenth Second Tenth Second Fifth Third Fifth Fourth Fifth Hestonn Lifth
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	All Students	Sex Malc Female	Ethnicity American Indian Asian American Black White Other	Parent Education Level No Diploma High School Diploma Associate Degree Bachelor's Degree Graduate Degree	Family Income Less than \$10,000 \$10,000-\$30,000 \$20,000-\$30,000 \$30,000-\$30,000 \$50,000-\$50,000 \$60,000-\$70,000 \$70,000 or more	Total Credits in Six Subjects 20 or more 19 or 19.5 18 or 18.5 17 or 17.5 16 or 16.5 15 or 15.5 Fewer than 15	High School GPA A+ (97-100) A (93-96) A- (90-92) B (80-89) C (70-79) D or below	High School Rank Top Tenth Second Tenth Scond Fifth Third Fifth Fourth Fifth Bottom Fifth
	United States average 478	502 457	447 535 388 494 494	408 445 457 502 534	416 453 469 469 493 504 533	5 528 489 4468 443 425 415	623 570 535 458 393 378	586 513 466 413 380 363
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Table 17. 195	North Carolina average 453	473	412 516 380 476 456	390 427 438 473 512	387 412 449 449 460 475 475 486	502 474 455 437 417 412	597 536 494 434 374 350	558 487 440 392 360 344
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manes 37	Florida average 466	488	449 516 387 487 442	403 444 453 484 508	410 450 465 479 482 488 512	511 471 450 430 423 421	609 550 517 448 387	576 501 453 406 371
a scores to	½ 9 <u>0</u>	46 54	1 13 66 16	4 36 10 28 22	° 7 11 12 8 10 11 12 8 1	43 113 113 8 8	7 12 12 51 51 0	21 28 26 4
S 101 1116	Georgia average 445	467	419 511 380 471 447	378 420 433 474 504	376 403 428 440 457 465 477	502 480 459 441 420 411 398	602 541 503 428 376 359	556 4485 3942 3455 349
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41111	New York average 471	493 452	436 546 389 493 420	413 444 463 500 538	408 435 447 447 481 491 504	520 450 433 423 418 405 391	652 598 553 460 388 357	595 522 473 418 380 360
73136 13	tr 00	47 53	1 7 12 69	7 40 10 22 21	۲525557 83 84 85 85 85 85 85 85 85 85 85 85 85 85 85	56 10 10 10 10 10 10 10 10 10 10 10 10 10	2 10 13 55 19	17 28 28 5 1
e and the last	South Carolina average 442	464	418 512 379 470 446	389 416 434 472 502	374 404 426 441 457 472 484 506	499 465 445 428 400 400 391	596 <b>561</b> <b>579</b> 379 356	545 431 433 387 356 339
	00 ا	45 55	1 2 29 67 1	46 46 11 23 16	7 113 12 6 12	20 113 113 114 127 128 138 138 138 138 138 138 138 138 138 13	3 10 12 52 23 1	20 21 27 26 5 5
	Texas average 472	493 453	466 539 391 495 434	409 444 454 494 523	408 431 453 469 478 487 498 523	533 500 4884 460 437 423	607 543 505 436 387 372	569 4 455 4 111 381 361
	5 001	53	1 5 11 62 21	7 7 7 28 21	7 11 12 10 10 10	27 13 14 17 17	7 17 18 8 8 0 0	22 23 24 25 27 27
	Virginia average 469	491 450	436 520 384 487 460	395 429 441 493 527	395 4 4 14 4 4 3 9 4 6 9 4 8 0 4 9 9 5 2 6	517 470 447 430 421 396	617 567 534 462 392 361	577 510 5463 410 381 364
	<u> 6</u>	53	1 15 12 4	38.48÷	+54555¢8	56 88 10 10 10 10 10	11 12 23 1	228 27 27 1



Figure 13. 1993 Total SAT Scores for Males and Females for Selected States and the Nation



- Males score higher than females in all selected states.
- The largest difference between males and females occurs in South Carolina (52 points).
- The smallest difference between males and females occurs in North Carolina (43 points).
- Both males and females are outperformed by their national counterparts, as well as their counterparts in the selected other states, with the exception of Georgia and South Carolina.

Data Source: Table 15.

54



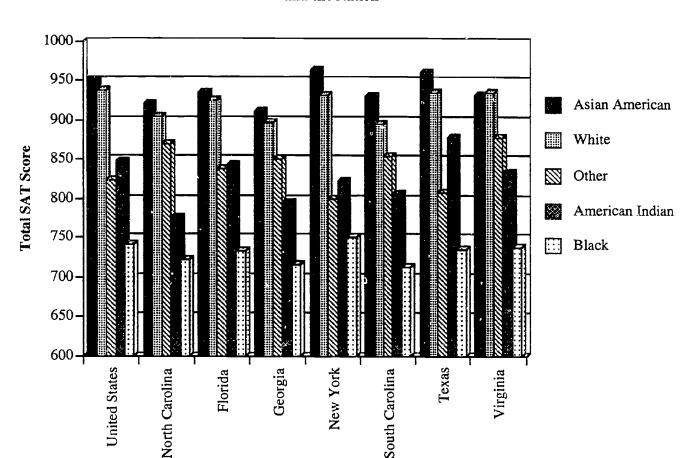
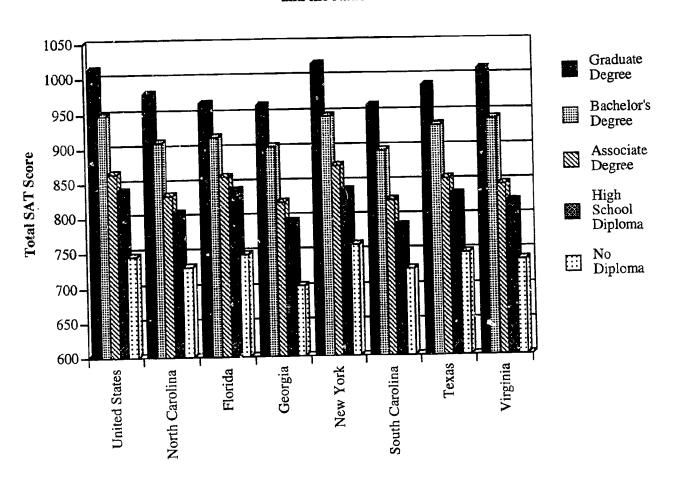


Figure 14. 1993 Total SAT Scores by Race/Ethnicity for Selected States and the Nation

- In all of the selected states, except Virginia, Asian American students outscore all other race/ethnic group followed by White students.
- American Indian students in North Carolina score lower than their national counterparts and lower than American Indian students in the SAT states shown. However, the gap in scores for these students is not as large as that for black students.

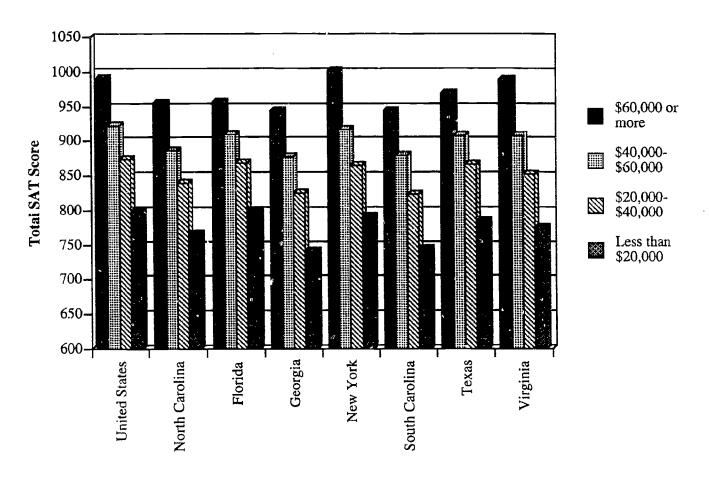


Figure 15. 1993 Total SAT Scores by Parent Education Levels for Selected States and the Nation



- In the nation and each of the selected states, as the level of parent education increases, scores increase.
- At every parent education level, North Carolina students scored lower than their counterparts
  nationally. Generally, North Carolina students in these categories scored lower than their counterparts
  in the selected states as well, with the exception of Georgia and South Carolina.

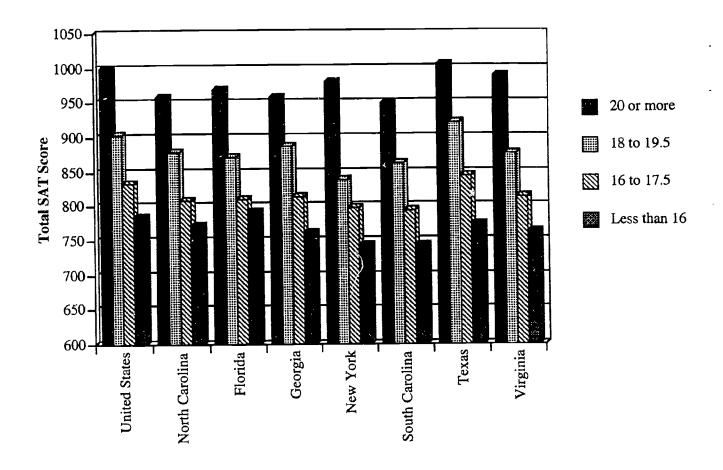
Figure 16. 1993 Total SAT Scores by Family Income Level for Selected States and the Nation



- Nationally and in the selected states, students with higher family income levels have higher scores.
- At each income level North Carolina students do not score as well as their national counterparts.
- North Carolina students in each family income level are outscored nationally and in the selected states with the exception of Georgia and South Carolina.

Figure 17. 1993 Total SAT Scores by Total Years of Study in Six Academic Subjects for Selected States and the Nation

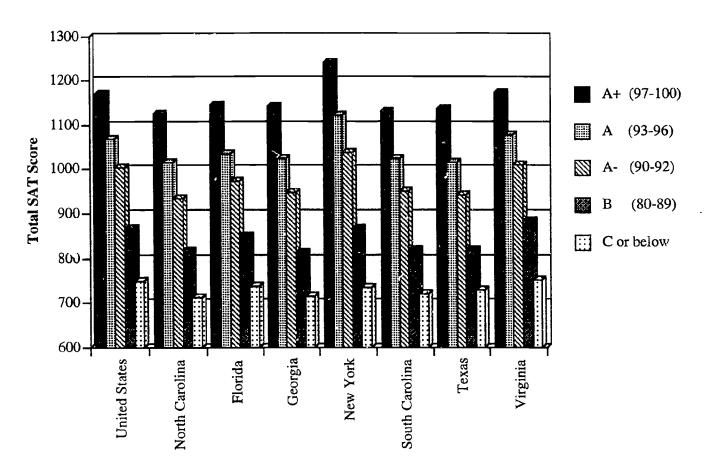
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#### **Observations:**

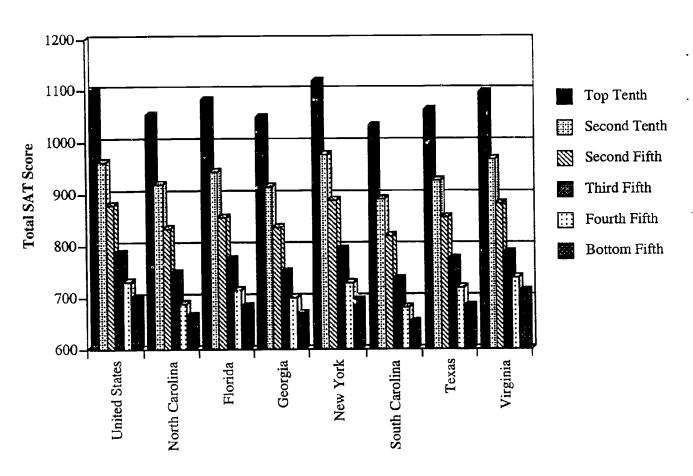
- As can be seen in Table 15, compared to SAT takers nationally, North Carolina students were less likely to have taken 20 or more academic courses (42 percent nationally compared to 33 percent in North Carolina). North Carolina test-takers do not compare favorably to students in Florida (43 percent), New York (56 percent) or Virginia (49 percent.)
- Even so North Carolina students who do take 20 or more academic courses are outscored by their counterparts nationally and in the selected states, with the exception of Georgia and South Carolina.
- · North Carolina students are also outscored nationally and in about half of the selected states for students with fewer than 20 academic courses.

Figure 18. 1993 Total SAT Scores by High School Grade Point Average for Selected States and the Nation



- North Carolina test takers with self-reported high school grades of A+, A and A- scored lower than students nationally and in the states selected for comparison with the exception of South Carolina. This is generally true for North Carolina students with grades of B and C as well.
- Note from Table 15 that North Carolina test-takers are awarded grades in the A range more often than students nationally (35 percent compared to 32 percent nationally), and more often than each of the selected states with the exception of Texas, which awards 42 percent As.

Figure 19. 1993 Total SAT Scores by High School Rank for Selected States and the Nation



• North Carolina students taking the SAT report their relative high school ranks in the same proportions as students nationally, as seen in Table 15. However, North Carolina students in the top tenth of their class score 45 points lower than their counterparts nationally, and below their counterparts in the comparison states except those in Georgia and South Carolina. Texas students in the top tenth of their class score just a few points above North Carolina, while the other three score well above North Carolina (New York students' average score is 65 points higher than North Carolina's.)



Comparing the Performance of

# Individual School Systems

For the 120 Public Schools Systems and Two Special Public Schools

This section gives frequency distributions of system average scores, highlights successful school systems, and shows individual system results including number and percent tested, math and verbal scores and math and verbal yields. Caution must be exercised in interpreting scores for local systems, which vary considerably in percentage and types of students taking the SAT. For example, The College Board states, "Other factors variously related to performance on the SAT include academic courses studied in high school, family background, and education of parents. These factors and others of a less tangible nature could very well have a significant influence on average scores." (The College Board, Press Release, 1993.) The College Board strongly discourages the use of SAT scores to compare school systems or states. However, with some stability in participation rates, the review of scores over a number of years can reveal changes in the performance of specified groups of students who take the SAT.



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Figure 20. Counties with Total SAT Scores above the State and National Averages (City Systems and Special Schools Listed Below)

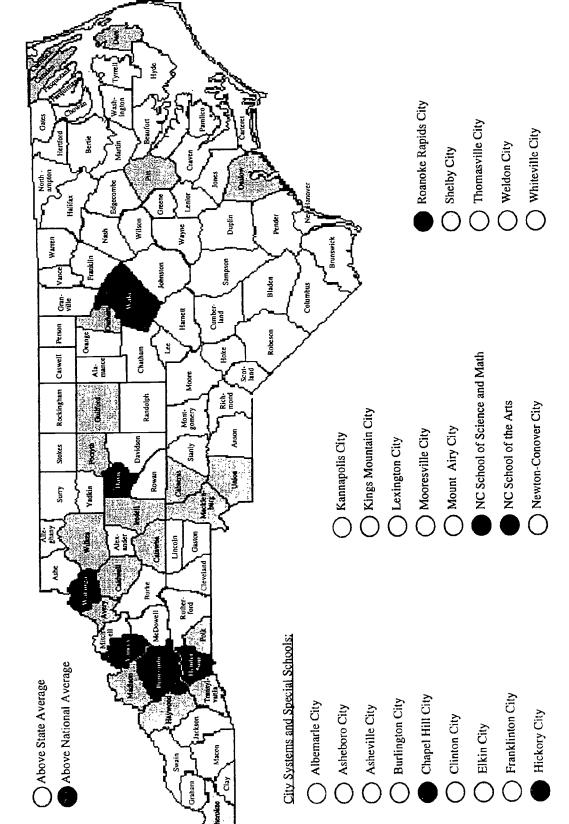


Figure 21. Distribution of North Carolina 1993 School System Average SAT Verbal Scores

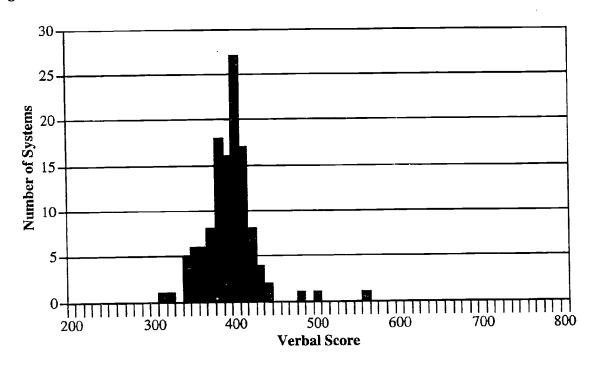
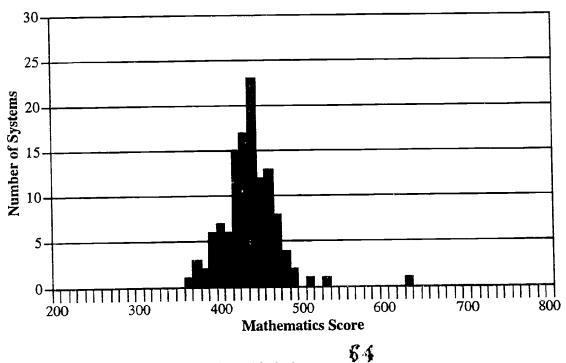


Figure 22. Distribution of North Carolina 1993 School System Average SAT Mathematics Scores



Note: Data are from the 120 Public School Systems and 2 special schools.

# Table 18. Outstanding School Systems

## School Systems with the Highest 1993 SAT Scores

	Verbal		Mathematics		Total
1	Chapel Hill City	1	Chapel Hill City	1	Chapel Hill City
2	Watauga County	2	Wake County	2	Watauga County
3	Yancey County	3	Watauga County	3	Wake County
4	Hickory City	4	Roanoke Rapids City	4	Yancey County
5	Wake County	5	Yancey County	5	Hickory City
6	Buncombe County	6	Buncombe County	6	Buncombe County
7	Davie County	7	Henderson County	7	Roanoke Rapids City
8	Henderson County	8	Polk County	8	Henderson County
9	Asheville City	9	Hickory City	9	Davie County
10	Avery County	10	Davie County	10	Burlington City

## School Systems with the Highest SAT Score Gains from 1992 to 1993

	Verbal		Mathematics		Total
1	Granville County	1	Asheboro City	1	Asheboro City
2	Lexington City	2	Cherokee County	2	Granville County
3	Hyde County	3	Hoke County	3	Polk County
4	Caswell County	4	Iredell County	4	Cherokee County
4	Polk County	5	Polk County	5	Lexington City
6	Pender County	6	Avery County	6	Iredell County
7	Alexander County	7	Granville County	7	Hoke County
7	Madison County	8	Madison County	8	Madison County
9	Pamlico County	8	Richmond County	9	Avery County
10	Currituck County	10	Northampton County	10	Richmond County
10	Harnett County	10	Sampson County		
10	Yancey County		-		

# School Systems with the Highest 1993 SAT Participation Rates

- 1 Chapel Hill City
- 2 Wake County
- 3 Elkin City
- 4 Durham County
- 5 Asheboro City
- 6 Albemarle City
- 7 Mooresville City
- 8 Hickory City
- 9 Jackson County
- 10 Dare County



# Table 18. (continued)

# School Systems with the Highest 1993 SAT Yields

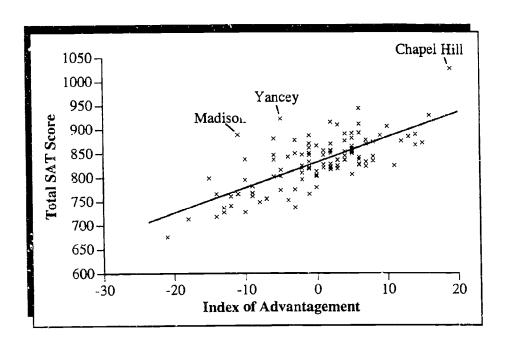
Verbal	Mathematics	Total
1 Chapel Hill City	1 Chapel Hill City	<ol> <li>Chapel Hill City</li> </ol>
2 Wake County	2 Wake County	2 Wake County
3 Elkin City	3 Elkin City	3 Elkin City
4 Watauga County	4 Asheboro City	4 Watauga County
5 Hickory City	5 Watauga County	5 Asheboro City
6 Durham County	6 Durham County	6 Durham County
7 Mooresville City	7 Hickory City	7 Hickory City
8 Asheboro City	8 Mooresville City	8 Mooresville City
9 Asheville City	9 Burlington City	9 Burlington City
10 Burlington City	10 Mecklenburg County	10 Mecklenburg County

# School Systems with 4 consecutive years of improvement

Verbal  • Watauga County	Mathematics  • Alamance County  • Cabarrus County  • Duplin County  • Edgecombe County  • Onslow County	Participation  Cumberland County Gates County Lee County Orange County Perquimans County
	<ul><li>Polk County</li><li>Wake County</li><li>Watauga County</li></ul>	Rutherford County



Figure 23. A Scatterplot of Index of Advantagement by Total SAT Score for 120 School Systems



- The more advantaged systems had, on average, higher SAT scores.
- Based only on Index of Advantagement, three systems, Chapel Hill City, Yancey County and Madison County are scoring much higher than expected.

Note: Index of Advantagement is a measurement used in the annual North Carolina Report Card. The higher the index, the more advantaged the school system.

Data Source: not in text.

Table 19. 1993 SAT Verbal and Mathematics Scores and Yields for School Systems and Special Schools

			Number	Percent	Verbal	Math	Verbal	Math
7 YZ A	TAC	School System	Tested	Tested	Score	Score	Yield	Yield
LEA 10	TAC 6	Alamance County	358	57.8	391	444	18.4	23.5
11	6	Burlington City	232	64.8	418	475	23.5	29.7
20	2	Alexander County	138	48.1	3 <b>9</b> 4	430	15.6	18.4
30	2	Alleghany County	38	38 <b>.4</b>	404	417	13.1	13.9
40	3	Anson County	146	45.1	340	387	10.6	14.0
50	2	Ashe County	109	50.9	401	449	17.0	21.1
60	2	Avery County	52	40.9	428	453	15.6	17.3
70	4	Beaufort County	208	44.3	379	424	13.2	16.5
80	4	Bertie County	86	38.6	370	396	10.9	12.6
90	5	Bladen County	147	50.3	360	393	13.4	16.2
100	5	Brunswick County	223	43.3	385	421	13.3	15.9
110	1	Buncombe County	752	56.2	432	480	21.7	26.2
111	i	Asheville City	132	63.8	428	460	24.2	27.7
120	2	Burke County	315	43.2	412	443	15.3	17.5
130	3	Cabarrus County	459	60.1	415	470	21.5	27.0
132	3	Kannapolis City	115	52.3	362	404	14.1	17.8
140	2	Caldwell County	227	43.4	414	457	15.5	18.6
150		Camden County	38	48.1	402	468	16.2	21.5 <b>24.1</b>
160		Carteret County	256	58.7	408	446	20.3	13.3
170		Caswell County	<del>9</del> 6	39.2	372	403	11.2	21.6
180		Catawba County	390	48.8	408	466	16.9	31.4
181		Hickory City	170	68 ^	439	477	27.1	23.2
182		Newton-Conover City	94	53.1	402.	463	17.9	19.1
190		Chatham County	153	48.7	407	435	16.8	22.0
200		Cherokee County	107	49.3	410	468	17.3 17.2	20.1
210		Chowan County	82	52.6	396	429	14.1	17.0
220		Clay County	32	42.7	398	439 434	16.3	19.6
230		Cleveland County	251	50.4	394	434 449	13.8	, 18.1
231		Kings Mountain City	105	43.8	389	454	21.3	26.1
232		Shelby City	118	61.5	408	404	9.4	12.3
240		Columbus County	160	36.0	357	414	18.1	21.2
241			90	59.6	382	414 446	18.8	22.0
250		Craven County	384	53.6	41 <b>0</b> 384	429	18.4	22.8
260	) 5		1539	59.8	404	467	16.0	21.0
279	0 4		59	47.2	404	464	22.3	28.8
28	0 4		108	65.5	404	442	17.0	20.4
29	0 2	Davidson County	484	50.5	406	431	17.8	20.0
29	1 2		77	52.0 59.8	375	420	17.5	21.9
29			64	39.6 48.5	430	476	18.6	22.3
30	Ю 2		132	46.3 50.0	374	429	14.5	19.0
31	0 5	Duplin County	218		414	458	26.6	32.1
32	20 (	5 Durham County	1006		382	420	11.3	13.6
33		4 Edgecombe County	165		418	460	22.7	27.1
34		2 Forsyth County	1563		401	432	15.5	17.9
		6 Franklin County	125		354	402	10.7	14.0
35		6 Franklinton City	33		391	446	16.2	20.8
		3 Gaston County	821 59		3.9	430	13.2	20.4
	, ,	4 Gates County	51		389	436		24.8
3	80	1 Graham County	21	0.60	507	.5.0	<del>_</del>	



Table 19. (continued)

· <del>-</del>		0.115	Number Tested	Percent Tested	Verbal Score	Math Score	Verbal Yield	Math Yield
LEA	TAC	School System	141	38.8	405	442	13.3	15.7
390	6	Granville County	56	30.1	341	408	7.1	10.4
400	5	Greene County	2010	50.1 64.9	409	456	22.6	27.7
410	6	Guilford County	113	34.2	314	362	6.5	9.2
420	4	Halifax County	64	41.3	422	488	15.3	19.8
421	4	Roanoke Rapids City	23	33.3	343	370	7.9	9.4
422	4	Weldon City Harnett County	270	43.8	405	446	15.0	18.0
430	6	Haywood County	225	49.9	407	454	17.2	21.1
440	1	Henderson County	321	53.7	428	480	20.4	25.0
450	1 4	Hertford County	115	45.6	350	377	11.4	13.4
460		Hoke County	94	34.7	372	427	9.9	13.1
470	3	Hyde County	21	33.9	391	445	10.8	13.8
480	4	Iredell County	342	47.2	414	462	16.8	20.6
490	2 2	Mooresville City	106	69.7	423	469	25.9	31.3
491		Jackson County	133	65.8	397	453	21.6	27.7
500	1 6	Johnston County	451	49.0	390	446	15.5	20.1
510		Jones County	26	29.5	364	404	8.1	10.0
520	5 <b>6</b>	Lee County	216	58.9	396	423	19.2	21.9
530 540	5	Lenoir County	297	48.5	379	431	14.5	18.6
550	3	Lincoln County	211	43.7	402	449	14.7	18.1
560	1	Macon County	126	63.3	410	437	22.2	25.0
570	1	Madison County	66	43.1	425	464	15.2	19.0
580	4	Martin County	161	56.1	360	377	15.0	16.6
590	1	McDowell County	140	42.0	392	426	13,4	15.8
600	3	Mecklenburg County	2648	64.1	416	472	23.0	29.1
610	l	Mitchell County	54	45.4	422	426	16.8	17.1
620	3	Montgomery County	95	42.2	382	434	12.8	16.5
630		Moore County	234	43.7	402	443	14.7	17.7
640		Nash County	458	49.2	391	436	15.7	19.4
040	•	NC School of Science and Math	335		569	630		
		NC School of the Arts	75		502	513		
650	5	New Hanover County	726	63.5	403	450	21.5	26.5
660		Northampton County	99	55.0	326	392	11.6	17.6
670		Onslow County	414	44.9	402	458	15.2	19.3
680		Orange County	168	60.2	401	432	20.1	23.2
681		Chapel Hill City	341	87.7	489	539	42.3	49.5
690		Pamlico County	58	48.7	3 <b>99</b>	426	16.2	18.3
700		Pasquotank County	157	58.8	38 <del>9</del>	432	18.6	22.7
710		Pender County	121	45.7	384	419	14.0	16.7
720		Perquimans County	51	<b>5</b> 0.0	383	419	15.2	18.2
730		Person County	157	52.9	380	443	15.9	21.4
740		Pitt County	542	55.9	<b>40</b> 7	463	19.3	24.5
750		Polk County	48	52.2	413	478	18.6	24.2
760		Randolph County	265	35.7	410	447	12.5	14.7
761		Asheboro City	125	73.5	410	472	25.7	33.3
770		Richmond County	180	40.7	399	444	13.5	16.5
780		Robeson County	575	51.2	344	393	12.3	16.5
790	) 6	Rockingham County	345	<b>42.</b> 5	387	445	13.2	17.4
800	) 3	Rowan County	513	<b>53.</b> 8	385	441	16.6	21.6

Table 19. (continued)

			Number	Percent	Verbal	Math	Verbal	Math
LEA	TAC	School System	Tested	Tested	Score	Score	Yield	Yield
810	1	Rutherford County	234	42.5	393	427	13.6	16.1
820	5	Sampson County	213	47.1	364	410	12.9	16.4
821	5	Clinton City	58	3 <b>9.</b> 7	385	432	12.2	15.4
830	3	Scotland County	1 <b>9</b> 8	52.0	355	411	13.4	18.2
840	3	Stanly County	171	49.9	389	436	15.7	19.6
841	3	Albemarle City	104	69.8	387	434	21.7	27.3
850	2	Stokes County	141	39.4	387	441	12.3	15.8
860	2	Surry County	199	47.2	408	447	16.4	19.4
861	2	Elkin City	47	75.8	420	470	27.8	34.2
862	2	Mount Airy City	78	63.4	401	456	21.2	27.1
870	1	Swain County	55	50.0	413	425	1 <b>7.8</b>	18.8
880	î	Transylvania County	152	64.1	413	463	22.8	28.1
890	4	Tyrrell County	27	57.4	373	409	16.5	20.0
900	3	Union County	481	55.4	408	452	19.2	23.3
910	6	Vance County	223	60.9	368	393	17.1	19.6
920	6	Wake County	2819	75.8	432	498	29.3	37.7
930	6	Warren County	87	47.5	357	384	12.4	14.6
940	4	Washington County	90	50.6	<b>35</b> 5	398	13.1	16.7
950	2	Watauga County	142	65.4	449	496	27.2	32.3
960	5	Wayne County	480	46.8	381	426	14.1	17.6
970	2	Wilkes County	234	42.4	419	447	15.5	17.5
980	6	Wilson County	282	47.9	<b>39</b> 7	450	15.8	20.0
990	2	Yadkin County	124	37.8	408	446	13.1	15.5
995	ī	Yancey County	63	36.8	440	483	14.7	17.4