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ABSTRACT

In 1989, North Carolina's scores on the Scholastic Aptitude Test (SAT) were the lowest in the nation, with a total score of 836 for North Carolina compared to 903 for the nation. The State Superintendent of Public Instruction developed a five-point plan to address this situation. The SAT results for 1990 show an increase for North Carolina to an average total score of 841, while the national SAT scores dropped to 900. For 1990, North Carolina ranked above South Carolina and the District of Columbia and is now tied with Georgia. The trend continued in 1991, with a score increase as the national score dropped, and greater participation by North Carolina students (57%). This report contains the 1991 SAT scores of 129 school districts and 2 special schools. Sixteen tables contain scores for North Carolina and the nation. Districts with best performance are highlighted. Fourteen graphs illustrate SAT performance. (SLD)

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The North Carolina 1991 Scholastic Aptitude Test Report

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State, 129 School System and 2 Special School Reports, 1991

Bob Etheridge
State Superintendent of Public Instruction

Division of Accountability Services
North Carolina Department of Public Instruction
Raleigh, NC 27603-1712

Published August, 1991

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**The North Carolina 1991 Scholastic Aptitude Test Report:
State, 129 School Systems and Two Special School Results**

Prepared by Martha S. Ward, Ph.D., and Kevin Kirby, B.S.

**Division of Accountability Services
North Carolina Department of Public Instruction**

Raleigh, NC 27603-1712

Bob Etheridge

State Superintendent of Public Instruction

Published August 1991

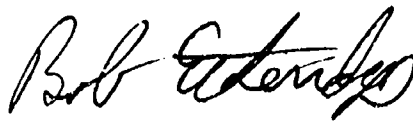
FOREWORD

Two years ago, North Carolina's ranking on the Scholastic Aptitude Test dropped to dead last in the nation. For almost twenty years we have played tag with South Carolina, Georgia, and the District of Columbia. During all of those years, North Carolinians accepted various excuses for such poor performance and the annual release of scores went, for all practical purposes, unnoticed. However, when we dropped to fifty-first behind all states and the District of Columbia, the state's citizens, our leaders and our educators said "enough." As State Superintendent, I declared an emergency, promised to learn as much as possible about the problem and guaranteed the students and parents of this state that educators would fix the problem.

The 1991 SAT results presented in this report show that North Carolina is making progress. We gained three points over 1990. This gain has come at a time when the national trend is down. During this same period, the national SAT score has declined seven points. We have moved out of the cellar ahead of South Carolina and the District of Columbia and are now tied with Georgia. I am proud of this achievement and want to commend every teacher who made the commitment to improve student performance in his or her classroom. I am proud of our students who tried harder than ever before and am pleased for those students who can compete a little better for admission to the college of their choice.

In looking at the results, there are some areas where we should be especially pleased. For example, almost 500 more black students took the SAT in 1991 than in 1990, and the average score for black test-takers has improved by fourteen points since 1989. But there continues to be concern with the lack of progress with some subgroups of students. The top ten percent of our students, for example, gained only four points during that same period. All of our students need to improve their performance for us to meet our goal of the national average by the year 2000.

I want to acknowledge the support of the local superintendents in this important challenge. They have made improvement of SAT scores a priority, and it is at the local level where change takes place. This year, 129 superintendents made their local data available for analysis and inclusion in this report. I want to thank them for their help.



Bob Etheridge
State Superintendent of Public Instruction

Abstract

- **In 1989, North Carolina's scores on the Scholastic Aptitude Test (SAT) were the lowest in the nation, with a total score of 836 compared to 903 for the nation. Bob Etheridge, State Superintendent of Public Instruction, developed a five-point plan to address this situation.**
- **In 1990, national SAT scores dropped 2 points to an average total score of 900, while North Carolina's scores improved by 5 points to 841. Verbal scores improved by 4 points and mathematics scores improved by 1 point. This brought North Carolina's rank above that of South Carolina.**
- **In 1991, national SAT scores again dropped while North Carolina's scores improved. The nation's total score dropped to 896, and North Carolina's score improved to 844, with a four point improvement in mathematics for a score of 444, and a one point loss in verbal with a score of 400.**
- **North Carolina participation on the SAT was up two points in 1991 to 57 percent, which was tied for 15th highest in the country.**
- **Comparisons were made of the 1991 performance of subgroups of students in North Carolina to the same subgroups in states which are demographically similar to North Carolina and have similar proportions of students taking the SAT. These comparisons show deficits for almost every subgroup.**
- **The SAT performance of 129 local school systems and two special schools which released their scores to the Department of Public Instruction varies greatly. The performance of successful school systems is highlighted.**

Acknowledgements

The development of a comprehensive report on student and school system performance on the Scholastic Aptitude Test requires the effort of many individuals. We would especially like to thank David Mintz and Stephanie Dowd for chart preparation, and Anne Cavendar, Karen Davis and Faye Atkinson for report preparation.

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Introduction

North Carolina dropped to last in the nation on Scholastic Aptitude Test (SAT) scores in 1989. North Carolina's average score fell while other states maintained their scores. In September 1989 in response to these scores, State Superintendent Bob Etheridge proposed a five-point program to address the situation. The program included:

- (1) establishment of a Task Force on Excellence in Secondary Education,
- (2) thorough and careful analysis of the performance of schools and school systems on the SAT,
- (3) provision of the Preliminary Scholastic Aptitude Test (PSAT) to algebra I students,
- (4) programs to encourage all students to take more rigorous courses of study which include higher level thinking skills,
- (5) implementation of a program of more flexibility for local school systems while holding systems accountable for student outcomes (Senate Bill 2).

In 1990 North Carolina regained the five points it lost in 1989 to achieve a total score of 841, during a year when the nation's score dropped by three points to 903. This moved the state's rank up one position to 50th, past South Carolina. [The District of Columbia is reported with the 50 states in SAT rankings].

In 1991 North Carolina again improved its score on the SAT while the nation's score fell. The North Carolina total score was 844, a three-point improvement over 1990, while the average score for the nation was 896, which was a four-point loss from 1990. This moved the state's ranking to a tie with Georgia for 48th, and past South Carolina and the District of Columbia. North Carolina improved its mathematics score by four points, achieving a score of 444, while the verbal score dropped one point to 400.

Task Force on Excellence in Secondary Education

The first component of the State Superintendent's program, the Task Force on Excellence in Secondary Education chaired by Judge L. Richardson Preyer, a former U.S. Congressman and federal court judge, was initiated at an Urgency Meeting convened in Raleigh on October 30, 1989. The Task Force, made up of some of the state's leading citizens, businesses leaders and educators, examined our performance on the SAT and established two goals. They were:

- By 2000, the average score of North Carolina students taking the Scholastic Aptitude Test will exceed the national average with the southeastern regional average being exceeded by 1995.
- The percentage of North Carolina students taking the Scholastic Aptitude Test each year between 1990 and 2000 will remain at least at the 1989 level.

The State Superintendent believes these are realistic goals for North Carolina and has adopted them as a priority of the Department of Public Instruction and for achievement by the state education system.

North Carolina Administration of the Preliminary Scholastic Aptitude Test

Prior to 1990, fewer than half of North Carolina's students took the Preliminary Scholastic Aptitude Test (PSAT) before taking the SAT. The SAT is very different from other tests generally administered in North Carolina. Without exposure to the format and types of questions, the SAT can be very confusing. The PSAT provides students with experience and practice on the SAT. Studies have shown that such practice can improve individual student scores on the SAT.

The North Carolina General Assembly made funds available to provide a released version of the PSAT to students taking at least algebra I. Since the program was first implemented in February 1990, over 40,000 students have taken the exam each year through the special administration. [Note: The Department of Public Instruction recommends that students who take the test have some geometry because of the amount of geometry content on the test.] The purposes of the special administration were to (1) improve student preparation for the SAT by increasing familiarity with the problem-solving and higher-level thinking skills measured by the SAT, (2) to provide students with diagnostic information about their performance on these skills, and (3) to provide information for teachers, schools and school systems on relative strengths and weaknesses of their students on thinking skills.

Detailed information, including their own test booklets and the answers to the items, was returned to each student taking the PSAT, and comprehensive student, school, and school system profiles were provided. A computerized software package with the capability of disaggregating data for groups of students and of producing detailed diagnostic information on individual students was made available to each school system for use by counselors and teachers. [Note: The national PSAT is administered annually in the fall: over 20,000 North Carolina students participated in fall 1990.]

Analysis of School System Performance on the SAT

The third component of the Superintendent Etheridge's program, analysis of school system performance on the SAT, is the subject of this report. The State Superintendent and the State Board of Education requested that local superintendents sign release forms so that SAT results could be examined. The purposes of this analysis are to provide information to schools and school systems on relative strengths and weaknesses of their students on skills measured by the SAT and to identify systems that have demonstrated improved performance on those skills so that effective practices can be identified and disseminated across the state.

This Report

One-hundred and twenty-six of 134 systems released their scores in 1989 and 1990, and 129 of 133 school systems released their 1991 scores. Additionally, the North Carolina School of the Arts and the North Carolina School of Mathematics and Science released their 1991 SAT scores.

Caution must be exercised in interpreting these scores for local systems, which vary considerably in percentage and types of students taking the SAT. "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, 1991.) 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.

The data in this report are from three primary sources: (1) *National College-Bound Seniors: 1991 SAT Profile*, and profiles from earlier years (The College Board), (2) *North Carolina College Bound Seniors: 1991 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 129 school systems and two special schools which released scores to the Department of Public Instruction, prepared by Educational Testing Service in cooperation with the College Board. In all cases, the most recent scores of seniors are reported, regardless of when they were last tested.

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 129 school systems and two special schools which released their data, while the College Board profiles included students from all public schools as well as all nonpublic schools. 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.

The report is presented in a basically tabular and chart format with specific observations but little descriptive narrative. Section 1 presents an introduction and description of data used in the report. Section 2, which describes national and North Carolina performance on the SAT in 1991 and historically, is presented in two parts. First, North Carolina's total scores are presented relative to national scores (50 states and the District of Columbia) and to scores of the 24 states where at least 40 percent of graduating seniors take the SAT (the so called "SAT states".) 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 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.

The next part of section 2 presents a 1991 profile of North Carolina performance, with scores disaggregated for selected categories of students. Then, the 1991 performance of some categories of students in North Carolina is compared to performance of the same categories of students in selected other states. The selected states are those where at least 40 percent of the students take the SAT, and whose general population characteristics are similar to North Carolina's.

Section 3 presents 1991 SAT results based on the data tape for the 129 school systems and two special schools which released their scores to the Department of Public Instruction. The section is in three parts: (1) a frequency distribution of student scores, (2) graphic representations of the distributions of scores, and (3) distributions of SAT Verbal and Mathematics yield scores (see below).

Section 4 contains individual school system results for 1991 including successful school systems and system results presented by Technical Assistance Center. The individual school system results are presented in both tabular and graphic forms, with the box and whiskers graphics providing information on the entire distribution of scores for each school system.

Yield Index. In sections 3 and 4 a statistic-- yield--is presented. The yield index uses both the average percent correct on a test and the participation rate. For this report, participation rate is computed by dividing the number of SAT takers by the 7th month average daily membership. The mathematics and verbal percentages are based on the percent of the total subtest score achieved (e.g., a score of 400 is 200 out of a 600 point scale since the lowest possible score for each subtest is 200 and the highest score is 800.)

The participation rate is multiplied by the verbal (and mathematics) percentage to arrive at the yield score for the subtest. For example, a school system with an average verbal score of 528

and a participation rate of 50 percent has a yield score $[(528 - 200) / 600] \times 50$ of 27. The index theoretically ranges from zero to 100.

The yield index permits the state or a school system to compare its performance from year to year on a scale adjusted for varying participation rates. North Carolina's participation rate for 1991 was 53.1 percent. [Remember that this analysis is based on 129 school systems and 2 special schools and will vary from the College Board reports. The participation rate for the total state, based on projected enrollments and including private schools, was 57 percent.] The state's 1991 verbal yield was 17.8, and the mathematics yield was 21.8, compared to the 1990 mathematics yield of 21 and verbal yield of 17.

School System and School Profiles. Individual school and school system profiles, similar in format to the state profile presented as Tables 5 and 6, were provided to each of the school systems which released their scores to the Department of Public Instruction. A compilation of the school system profiles is available from the Department of Public Instruction.

Note that a report on North Carolina's 1989 and 1990 SAT performance was released by the Department of Public Instruction in 1990 (*North Carolina Scholastic Aptitude Test Results: State and 126 School System Reports, 1990*, in two volumes.)

SECTION 2

**NATIONAL AND NORTH CAROLINA PERFORMANCE ON THE SAT:
1991 AND HISTORICALLY**

North Carolina Performance on the SAT: 1991 and Historically

Tables and Figures

Table 1. 1991 SAT Verbal, Mathematics, and Total Scores Ranked by State

Observations

- North Carolina scored 844 on the Total SAT in 1991: 400 on the verbal subtest and 444 on the mathematics subtest.
- An estimated 57 percent of North Carolina graduating seniors took the SAT in 1991.
- North Carolina ranked 48th on total SAT score, tied with Georgia and ranking above South Carolina and the District of Columbia; ranked 49th on verbal score, tied with Georgia and ranking above South Carolina; and ranked 48th on mathematics, tied with Georgia and ranking above South Carolina and the District of Columbia. [Note: The District of Columbia is included in addition to the 50 states in College Board reports.]

Table 2. 1986-1991 SAT Total Scores Ranked by State

Observations

- North Carolina improved its total SAT score by three points over the previous year, improving its mathematics score by four points and dropping one point on the verbal section.
- North Carolina's highest rank since 1986 was the 1991 rank of 48 (tied with Georgia).

Table 3. 1991 SAT Verbal, Mathematics, and Total Scores for States with 40 Percent or More of Seniors Taking the Test.

Observations

- Twenty-four states administered the SAT to 40 percent or more of seniors in 1991. The percentage of students taking the SAT ranged from 41 percent in Alaska to 81 percent in Connecticut. Fifty-seven percent of North Carolina seniors were tested. [Note: this is an increase of two percent compared to 1990.]
- Fifteen states had higher percentages of students tested than North Carolina, and one state tied. Thirteen of sixteen states with the highest participation scored higher than North Carolina on the verbal and mathematics sections and on total score. North Carolina outperformed the District of Columbia and South Carolina, and was tied with Georgia on all three scores.

Table 4. National and North Carolina Average SAT Scores: 1972 --1991

Figure 1. Average Total SAT Scores for North Carolina and the Nation: 1982-1991

Observations

- While North Carolina's average verbal score dropped one point in 1991, the highest mathematics score was achieved, and the total score was the highest since 1974. This occurred in a year when the national verbal score was the lowest, the mathematics score was the lowest since 1984, and the total score was the lowest since 1983.
- The trend lines for the United States and North Carolina from 1982 to 1991 show that the United States has been on a downward trend since 1985, while North Carolina has generally had an upward trend since 1983.

Figure 2 SAT Total Scores for North Carolina, Virginia, Georgia, and South Carolina: 1985-1991

Observations

- North Carolina performance had been somewhat below Georgia's until the 1991 tie.
- North Carolina fell below South Carolina in 1989 but regained the loss in 1990 and 1991, while South Carolina's score decreased.
- The trend lines for Virginia, Georgia, and South Carolina had been up but have now turned down.
- The trend line for North Carolina, while flatter than those for the other states, has been up. The dip in performance in 1989 broke the trend line while the 1990 and 1991 performances continue the upward trend.

Table 5 1991 SAT Verbal Score Breakdowns: N.C. and U.S.

Table 6 1991 SAT Mathematics Score Breakdowns: N.C. and U.S.

Observations

- North Carolina scores are lower for almost every subgroup of student compared to the averages for their national counterparts. Deficits are greatest for students with the most credits in academic subjects, males, whites as compared to blacks, and students with reported grade point averages of A+, A and A-. Students from families with higher levels of income and parent education do not outperform their less advantaged classmates, relative to national performance.

NOTE: Comparison of North Carolina SAT total score performance with the United States and other selected states are presented in both tabular and graphic form. Verbal and mathematics comparisons are presented in tabular form.

Table 7 North Carolina Performance on the 1991 SAT Total, Compared to the U.S. and Other Selected States

Observations

- In 1991, North Carolina's participation rate on the SAT was 57 percent, higher than the national participation rate of 42 percent. Of the states selected for comparison, five of six had higher participation rates than North Carolina.
- North Carolina had a smaller proportion of five to seventeen-year-olds living in poverty in 1991 than the national average (17.5 percent compared to 20.7 percent), a proportion lower than three of the six states selected for comparison. Similarly, in 1991 North Carolina had a smaller proportion of public aid recipients than the national average, and a rate smaller than five of the six states selected for comparison.
- North Carolina had a higher percentage of minority five to 17-year olds than the national average, (29.3 percent compared to 22.6 percent), a proportion smaller than for four of the six states selected for comparison.
- The North Carolina per capita expenditure for elementary and secondary education is considerably lower than the average for the United States, and is lower than the averages for five of the six comparison states.

Figure 3 1991 SAT Total Scores for Students with 20 or More Credits in Academic Subjects for Selected States

Observations

- Compared to SAT takers nationally, North Carolina students are less likely to have taken 20 or more academic courses (40 percent nationally compared to 31 percent in North Carolina). North Carolina test-takers do not compare favorably to students in Maryland (49 percent), New York (56 percent), or Virginia (45 percent). Comparisons for students with 18 or more courses are similarly unfavorable. Note also the higher percentage of New York and Virginia's seniors which took the SAT, compared to 57 percent of North Carolina's seniors.
- North Carolina had slightly higher proportions of students who took the test and had fewer than 15 academic courses.

Figure 4 1991 SAT Total Scores for Males and Females for Selected States

Figure 5 1991 SAT Total Scores by Student Ethnicity for Selected States

Figure 6 1991 SAT Total Scores by Family Income Level for Selected States

Figure 7 1991 SAT Total Scores by Parent Education Level for Selected States

Observations

- **At every income and 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 students in Georgia and South Carolina.**

Figure 8 1991 SAT Total Scores by Self-Reported High School Grade Point Average for Selected States

Observations

- **North Carolina test takers with self-reported high school grades of A+, A and A- scored lower than students nationally and in each of the states selected for comparison. (This is true for North Carolina students with grades of B and C as well.) Note also that North Carolina test-takers are awarded grades in the A range more often than students nationally (33 percent compared to 28 percent nationally), and more often than each of the selected states with the exception of Texas, which awards 39 percent As.**

Table 8 North Carolina Performance on the 1991 SAT Verbal, Compared to the U.S. and Other Selected States

Table 9 North Carolina Performance on the 1991 SAT Mathematics, Compared to the U.S. and Other Selected States

Table 1. 1991 Scholastic Aptitude Test Verbal, Mathematics, and Total Scores Ranked by State

State	Percent Tested	Verbal Mean	Verbal Rank	Math Mean	Math Rank	Total Mean	Total Rank
Alabama	8	476	12	433	20	907	18
Alaska	41	439	28	481	10	920	29
Arizona	26	442	25	490	23	932	25
Arkansas	6	482	7	523	12	1005	11
California	47	415	43	482	29	897	33
Colorado	29	453	23	506	22	959	23
Connecticut	81	429	32	468	37	897	33
Delaware	61	428	34	464	42	892	36
District of Columbia	71	405	47	433	51	840	50
Florida	48	416	42	466	39	882	41
Georgia	62	400	49	444	48	844	48
Hawaii	55	405	47	478	33	883	40
Idaho	18	463	21	505	23	968	22
Illinois	16	471	18	533	9	1006	10
Indiana	37	408	46	457	47	865	47
Iowa	5	515	1	578	1	1093	1
Kansas	10	493	5	546	4	1039	4
Kentucky	11	473	17	520	15	993	17
Louisiana	9	476	12	518	18	994	16
Maine	64	421	38	458	46	879	44
Maryland	64	429	32	475	34	904	32
Massachusetts	79	426	35	470	35	896	35
Michigan	11	461	22	519	17	980	20
Minnesota	12	480	10	543	5	1023	7
Mississippi	4	477	11	520	15	997	13
Missouri	12	476	12	526	11	1002	12
Montana	22	464	20	518	18	982	19
Nebraska	10	481	8	543	5	1024	6
Nevada	25	435	30	484	27	919	30
New Hampshire	75	440	27	481	30	921	28
New Jersey	74	417	40	469	36	886	39
New Mexico	12	474	16	522	13	996	15
New York	75	413	44	468	37	881	42
North Carolina	57	400	49	444	48	844	48
North Dakota	6	502	2	571	2	1073	2
Ohio	22	450	24	496	24	946	24
Oklahoma	9	476	12	521	14	997	13
Oregon	54	439	28	483	28	922	27
Pennsylvania	67	417	40	459	44	876	45
Rhode Island	67	421	38	459	44	880	43
South Carolina	58	395	51	437	50	832	51
South Dakota	5	496	3	551	3	1047	3
Tennessee	12	487	6	528	10	1015	9
Texas	44	431	45	463	43	874	46
Utah	5	494	4	537	8	1031	5
Vermont	68	424	36	466	39	890	37
Virginia	60	424	36	466	39	890	37
Washington	49	433	31	480	32	913	31
West Virginia	17	441	26	483	26	925	26
Wisconsin	11	481	8	542	7	1023	7
Wyoming	13	466	19	514	21	980	20

Data Source: The College Board

Table 2. 1986-1991 Scholastic Aptitude Test Total Scores Ranked by State

State	'86		'87		'88		'89		'90		'91		Percent Tested
	Total	Rank	Total	Rank	Total	Rank	Total	Rank	Total	Rank	Total	Rank	
Alabama	990	18	993	17	1000	14	1002	11	984	18	991	18	8
Alaska	924	31	924	30	916	31	923	31	914	31	920	29	41
Arizona	975	24	968	24	955	24	952	24	942	25	932	25	26
Arkansas	1001	15	1001	15	995	16	986	17	981	19	1005	11	6
California	904	38	906	38	908	33	906	34	903	33	897	33	47
Colorado	980	22	980	21	971	21	966	22	969	21	959	23	29
Connecticut	914	34	912	34	908	33	908	33	901	34	897	35	81
Delaware	917	32	910	35	899	39	903	37	903	33	892	36	61
District of Columbia	852	48	842	48	839	50	845	49	850	48	840	50	71
Florida	895	42	893	42	890	42	887	44	884	42	882	41	48
Georgia	842	49	840	49	848	48	847	48	844	49	844	48	62
Hawaii	880	45	881	45	888	44	888	43	885	41	883	40	55
Idaho	987	19	975	22	968	23	963	23	968	22	968	22	18
Illinois	985	20	984	19	984	20	982	19	994	14	1006	10	16
Indiana	874	47	874	47	870	47	871	47	867	47	865	47	57
Iowa	1095	2	1089	1	1090	1	1084	1	1088	1	1093	1	5
Kansas	1042	5	1045	4	1035	4	1040	4	1040	4	1039	4	10
Kentucky	1002	14	998	16	990	17	996	13	994	14	993	17	11
Louisiana	981	21	982	20	989	19	986	17	993	16	994	16	9
Maine	900	39	899	39	896	40	897	39	886	40	879	44	64
Maryland	911	35	914	32	908	33	914	32	908	32	906	32	64
Massachusetts	909	36	909	36	906	36	905	35	900	36	896	35	79
Michigan	976	23	972	23	970	22	972	21	968	22	980	20	11
Minnesota	1022	8	1003	14	1001	11	1006	10	1019	7	1023	7	12
Mississippi	1001	15	1008	12	1001	11	998	16	996	12	997	13	4
Missouri	993	17	992	18	990	17	989	18	995	13	1002	12	12
Montana	1026	7	1009	9	1000	14	992	14	987	17	982	19	22
Nebraska	1042	5	1033	6	1032	6	1030	6	1030	6	1024	6	10
Nevada	930	29	923	31	926	29	926	30	921	30	919	30	25
New Hampshire	935	28	938	28	933	28	932	28	928	27	921	28	75
New Jersey	889	44	892	43	893	41	894	41	891	39	886	39	74
New Mexico	1016	10	1009	9	1002	10	1015	7	1007	10	996	15	12
New York	898	40	894	41	889	43	890	42	882	45	883	42	73
North Carolina	835	50	838	50	841	49	836	51	841	50	844	48	57
North Dakota	1064	3	1067	3	1053	3	1067	2	1069	2	1073	2	6
Ohio	963	26	954	25	951	25	948	25	949	24	946	24	22
Oklahoma	1008	12	1006	13	1005	9	1001	12	1001	11	997	13	9
Oregon	930	29	928	29	923	30	927	29	923	28	922	27	54
Pennsylvania	894	43	891	44	886	45	886	45	883	43	876	45	67
Rhode Island	898	40	898	40	900	38	895	40	883	43	880	43	67
South Carolina	826	51	832	51	838	51	838	50	834	51	832	51	58
South Dakota	1098	1	1076	2	1070	2	1041	3	1061	3	1047	3	5
Tennessee	1007	13	1011	8	1009	7	1009	9	1006	9	1015	9	12
Texas	877	46	875	46	879	46	877	46	874	46	874	46	44
Utah	1047	4	1043	5	1034	5	1036	5	1031	5	1031	5	5
Vermont	916	33	914	32	909	32	905	35	897	37	890	37	68
Virginia	908	37	907	37	902	37	902	38	895	38	890	37	60
Washington	963	26	951	27	942	27	939	26	923	28	913	31	49
West Virginia	964	25	954	25	947	26	939	26	933	26	926	26	17
Wisconsin	1014	11	1009	9	1007	8	1013	8	1019	7	1025	7	11
Wyoming	1018	9	1016	7	1001	11	978	20	977	20	980	20	13

Data Source: The College Board

Table 3. 1991 Scholastic Aptitude Test Verbal, Mathematics, and Total Scores for States With 40 Percent or More of Seniors Taking the Test

State	Percent Tested	Verbal Mean	Verbal Rank	Math Mean	Math Rank	Total Mean	Total Rank
Alaska	41	439	2	481	3	920	1
California	47	435	16	482	2	897	6
Connecticut	41	429	5	458	10	897	6
Delaware	61	428	7	464	15	892	9
District of Columbia	71	405	20	435	24	840	23
Florida	48	416	15	466	12	882	14
Georgia	62	400	22	444	21	844	21
Hawaii	59	405	20	478	6	883	13
Indiana	57	408	19	457	20	865	20
Maine	64	421	11	458	19	879	17
Maryland	64	429	5	475	7	904	5
Massachusetts	79	426	8	470	8	896	8
New Hampshire	75	440	1	481	3	921	2
New Jersey	74	417	13	469	9	886	12
New York	75	413	17	468	10	881	15
North Carolina	57	400	22	444	21	844	21
Oregon	54	439	2	483	1	922	1
Pennsylvania	67	417	13	459	17	876	18
Rhode Island	67	421	11	459	17	880	16
South Carolina	58	395	24	437	23	832	24
Texas	44	411	18	463	16	874	19
Vermont	68	424	9	466	12	890	10
Virginia	60	424	9	466	12	890	10
Washington	49	433	4	480	5	913	4

N=24

Data Source: The College Board

**Table 4. Average Total Scholastic Aptitude Test Score
for North Carolina and the Nation: 1972-1991***

Year	National Average			North Carolina Average		
	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	846
1975	434	472	906	399	428	827
1976	431	472	903	396	421	819
1977	429	470	899	394	421	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	893	396	431	827
1983	425	468	893	394	431	825
1984	426	471	897	395	431	827
1985	431	475	906	398	435	833
1986	431	475	906	399	436	835
1987	430	476	906	400	438	838
1988	428	476	904	401	440	841
1989	427	476	903	397	439	836
1990	424	476	900	401	440	841
1991	422	474	896	400	444	844

* 1972 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.

Figure 1. United States and North Carolina Average Scholastic Aptitude Test (SAT) Total Scores: 1982 - 1991

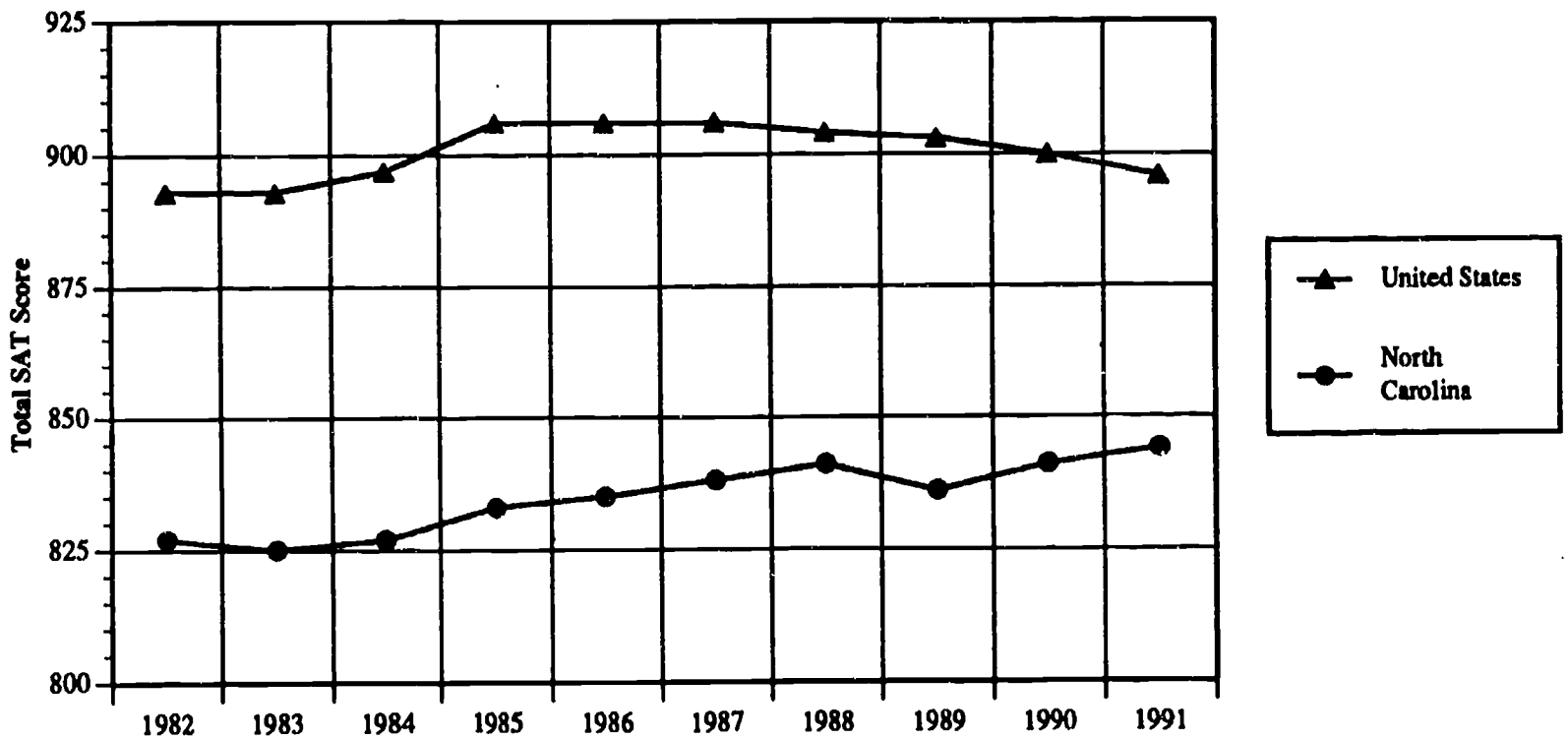
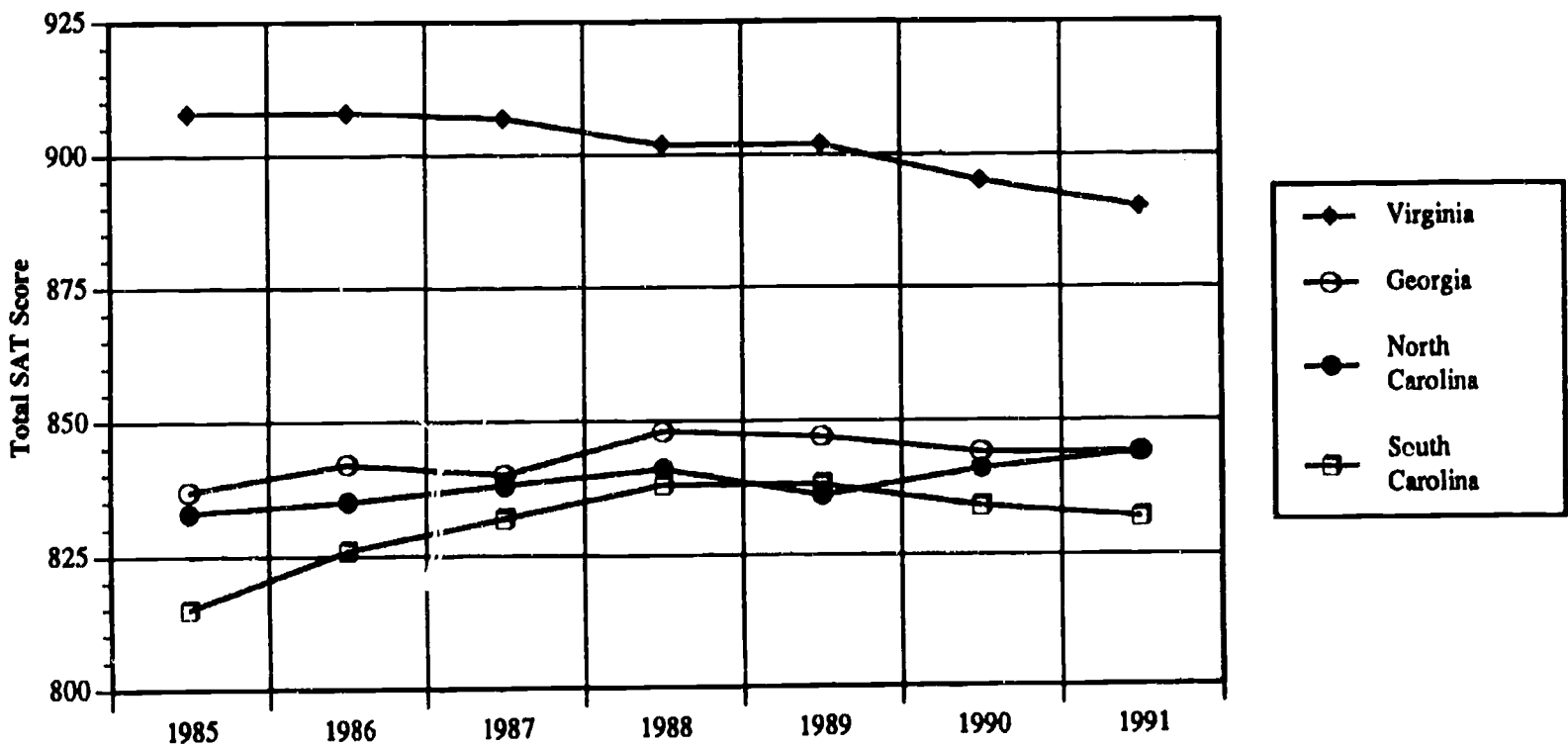


Figure 2. North Carolina, Georgia, South Carolina, and Virginia Average Scholastic Aptitude Test (SAT) Total Scores: 1985 - 1991



**Table 5. 1991 Scholastic Aptitude Test (SAT)
Verbal Score Breakdown: N.C. and U.S.**

	<u>N.C.</u>		<u>U.S.</u>		<u>DIFFERENCE FROM U.S.</u>
	<u>N</u>	<u>Average %</u>	<u>Average %</u>		
All Students	37,188	400 (100)	422 (100)		-22
Total Credits in Six Academic Subjects					
20 or More	9,218	453 (31)	478 (48)		17
19 or 19.5	4,059	426 (14)	435 (13)		-9
18 or 18.5	4,157	403 (14)	416 (13)		13
17 or 17.5	3,445	385 (12)	398 (10)		-13
16 or 16.5	2,688	367 (9)	382 (8)		-15
15 or 15.5	2,060	359 (7)	372 (6)		-13
Fewer Than 15	4,857	346 (14)	353 (18)		7
No Response	7,512				
Sex					
Male	16,764	463 (45)	426 (48)		-23
Female	20,424	398 (55)	418 (52)		-20
Ethnicity					
American Indian	438	357 (1)	393 (1)		-36
Black	7,530	336 (22)	351 (10)		-15
White	25,687	423 (74)	441 (72)		-18
Other	1,206	407 (3)	396 (17)		11
No Response	2,387				
Family Income					
Less than \$10,000	1,358	342 (5)	353 (5)		-11
\$10,000 - \$20,000	4,415	368 (14)	379 (11)		-11
\$20,000 - \$30,000	5,838	388 (18)	404 (15)		-16
\$30,000 - \$40,000	6,530	399 (20)	418 (18)		-19
\$40,000 - \$50,000	4,682	410 (16)	430 (13)		-20
\$50,000 - \$60,000	3,312	422 (10)	440 (11)		-18
\$60,000 - \$70,000	2,063	433 (6)	449 (7)		-17
More than \$70,000	4,221	449 (13)	469 (19)		-20
No Response	4,589				
Parent Education Level					
No High School Diploma	1,208	342 (3)	339 (5)		3
High School Diploma	15,817	378 (46)	395 (38)		-17
Associate Degree	3,279	389 (9)	407 (8)		-18
Bachelor's Degree	8,594	425 (25)	442 (27)		-17
Graduate Degree	3,743	488 (17)	476 (23)		-18
No Response	2,545				
High School Grade Point Average					
A+	1,377	323 (9)	348 (4)		-26
A	4,780	474 (14)	503 (11)		-29
A-	5,015	438 (14)	471 (13)		-33
B	17,439	383 (50)	409 (52)		-26
C	5,697	341 (16)	357 (18)		-16
D	141	324 (0)	338 (0)		-14
No Response	2,539				

Data Source: The College Board

**Table 6. 1991 Scholastic Aptitude Test (SAT)
Mathematics Score Breakdown: N.C. and U.S.**

	<u>N.C.</u>		<u>U.S.</u>		<u>DIFFERENCE FROM U.S.</u>
	<u>N</u>	<u>Average %</u>	<u>Average %</u>		
All Students	37,188	444 (100)	474 (100)		-30
Total Credits in Six Academic Subjects					
20 or More	2,218	498 (23)	526 (24)		-28
19 or 19.5	4,059	473 (14)	488 (13)		-15
18 or 18.5	4,187	487 (16)	500 (13)		-19
17 or 17.5	3,445	431 (12)	446 (10)		-15
16 or 16.5	2,688	411 (15)	430 (16)		-19
15 or 15.5	2,060	401 (7)	417 (6)		-16
Fewer than 15	1,887	387 (16)	403 (18)		-15
No Response	7,512				
Sex					
Male	16,764	462 (28)	487 (29)		-25
Female	20,424	430 (21)	453 (22)		-23
Ethnicity					
American Indian	458	487 (11)	437 (11)		-30
Black	7,530	374 (5)	385 (5)		-11
White	25,687	467 (18)	489 (18)		-22
Other	1,206	485 (4)	480 (4)		5
No Response	2,387				
Family Income					
Less than \$10,000	1,358	388 (3)	418 (3)		-35
\$10,000 - \$20,000	4,415	410 (9)	434 (10)		-24
\$20,000 - \$30,000	5,838	408 (7)	452 (8)		-22
\$30,000 - \$40,000	6,530	441 (7)	466 (7)		-25
\$40,000 - \$50,000	4,543	457 (10)	486 (11)		-23
\$50,000 - \$60,000	3,312	469 (14)	491 (15)		-22
\$60,000 - \$70,000	2,863	477 (16)	500 (17)		-23
More than \$70,000	4,221	501 (12)	528 (12)		-27
No Response	4,589				
Parent Education Level					
No High School Diploma	1,300	388 (3)	400 (3)		-12
High School Diploma	15,817	421 (27)	443 (28)		-22
Associate's Degree	3,275	432 (13)	454 (14)		-22
Bachelor's Degree	8,594	472 (55)	497 (57)		-25
Graduate Degree	3,748	503 (13)	528 (14)		-25
No Response	2,545				
High School Grade Point Average					
A+	1,377	464 (3)	423 (3)		-39
A	4,780	531 (11)	571 (12)		-40
A-	5,018	491 (10)	537 (11)		-46
B	17,439	424 (24)	457 (26)		-33
C	6,697	371 (55)	395 (58)		-23
D	141	360 (0)	381 (0)		-21
No Response	2,339				

Data Source: The College Board

Table 7. North Carolina Performance on the 1991 SAT Total, Compared to the U.S. and Other Selected States

	United States average	%	North Carolina average	%	Georgia average	%	Maryland average	%	New York average	%	South Carolina average	%	Texas average	%	Virginia average	%
<i>% Persons Age 5-17 yrs. in households below poverty line*</i>	20.7		17.5		20.1		11.6		12.2		20.3		18.1		14.1	
<i>% Public Aid Recipients**</i>	6.2		5.0		6.4		5.1		8.0		6.3		4.5		4.0	
<i>% Minority of Those Persons Age 5-17 yrs.*</i>	22.6		29.3		33.4		29.6		27.9		38.4		36.2		24.2	
<i>% Participation***</i>	42		57		62		64		75		58		44		60	
<i>State and Local Per Capita Expenditures for Public Schools****</i>	\$745.94		\$671.18		\$725.56		\$744.92		\$1030.29		\$648.07		\$736.53		\$763.30	

SAT TOTAL SCALED SCORES

All Students*****	896	100	844	100	844	100	904	100	881	100	832	100	874	100	890	100
Total full-year credits for study in six academic subjects																
20 or more	996	40	951	31	932	25	1006	49	979	56	936	27	1002	23	991	45
19 or 19.5	923	13	899	14	907	11	899	14	850	10	879	13	943	13	911	13
18 or 18.5	884	13	851	14	878	14	851	11	809	9	846	14	909	15	856	12
17 or 17.5	844	10	816	12	836	14	811	8	780	7	813	14	863	15	813	9
16 or 16.5	810	8	778	9	796	12	792	6	771	6	784	11	815	12	784	6
15 or 15.5	789	6	760	7	778	9	764	5	735	4	758	8	782	8	769	5
Fewer than 15	755	10	733	14	740	16	735	7	705	7	716	13	741	15	727	9

* From Chief State School Officers Council's "State Education Indicators 1989", with data from the U.S. Bureau of the Census, "United States Summary: General Population Characteristics: 1980," series PC80-1-B1, Table 67.

** From "The World Almanac and Book of Facts 1990," New York: An Imprint of Pharos Books, November 1989, p. 563.

*** % Participation was taken from The College Board's release of SAT scores, and is based on a press release for Tuesday, August 27, 1991 entitled "Average SAT Scores by State, 1981, 1986-1991."

**** From Bureau of the Census, "Government Finances in 1988-89".

***** SAT data are from The College Board's "1991 Profile of SAT and Achievement Test Takers" for the selected states.

Table 7, cont'd.

	United States average	%	North Carolina average	%	Georgia average	%	Maryland average	%	New York average	%	South Carolina average	%	Texas average	%	Virginia average	%
Sex																
Male	923	48	863	45	868	46	930	47	908	47	845	46	901	47	914	47
Female	871	52	828	55	823	54	881	53	858	53	813	54	850	53	870	53
Ethnicity																
American Indian	138	1	764	1	801	1	803	1	832	1	808	1	828	1	799	1
Asian American	941	8	912	2	918	3	973	7	954	6	920	2	933	5	924	6
Black	796	10	718	22	717	24	783	22	743	12	709	27	729	11	727	18
White	930	72	890	74	891	71	957	67	924	71	883	69	919	64	929	74
Other	816	9	868	1	863	2	883	3	781	10	864	1	808	19	861	3
Family Income																
Less than \$10,000	788	8	723	5	713	5	718	3	746	7	718	7	749	6	736	4
\$10,000-\$20,000	813	11	778	14	769	13	785	8	801	13	763	16	805	14	786	9
\$20,000-\$30,000	854	13	818	18	807	16	834	13	843	16	801	17	843	18	830	14
\$30,000-\$40,000	884	18	840	20	840	18	868	16	880	18	838	19	868	17	865	17
\$40,000-\$50,000	908	13	867	14	859	13	907	14	889	13	881	13	889	13	897	13
\$50,000-\$60,000	931	11	891	10	886	11	925	13	928	10	881	10	907	10	927	12
\$60,000-\$70,000	948	7	909	6	894	7	931	9	917	7	904	6	924	7	930	9
\$70,000 or more	997	19	950	13	949	16	1006	25	1016	16	944	11	968	17	996	21
Parent Educational Level																
No Diploma	748	3	730	3	717	4	746	3	769	7	724	5	745	4	734	4
High School Diploma	838	38	799	46	796	45	824	36	835	42	788	46	822	38	818	36
Associate Degree	861	8	821	9	818	7	854	7	871	9	818	9	839	7	838	7
Bachelor's Degree	939	27	897	25	896	25	932	27	935	22	882	23	919	28	929	28
Graduate Degree	1004	23	961	17	953	19	1020	28	1012	20	946	17	972	21	1003	26
High School GPA																
A+ (97-100)	1172	4	1107	5	1141	3	1213	3	1241	2	1123	3	1130	6	1178	4
A (93-96)	1074	11	1005	14	1024	11	1106	9	1137	9	1017	9	1014	16	1082	10
A- (90-92)	1008	13	929	14	954	13	1046	10	1044	12	947	11	939	17	1013	12
B (80-89)	866	52	807	50	817	54	894	54	866	56	817	54	812	52	879	49
C (70-79)	731	18	712	16	723	19	772	24	737	21	725	23	724	9	733	24
D or below	719	0	684	0	712	0	746	1	680	1	683	1	700	0	708	1

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Figure 3. 1991 Scholastic Aptitude Test (SAT) Total Scores for Students in Six Academic Subjects for Selected States

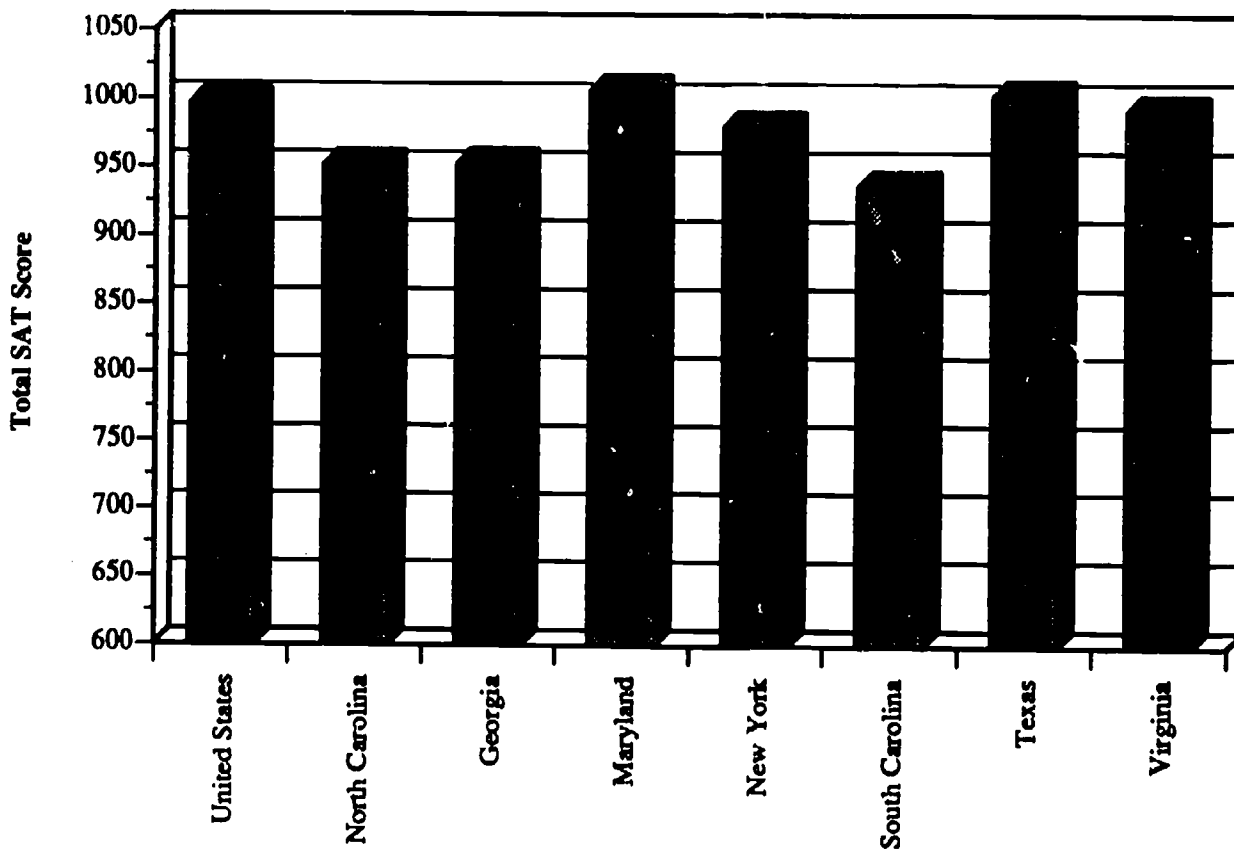


Figure 4. 1991 Scholastic Aptitude Test (SAT) Total Scores for Males and Females for Selected States

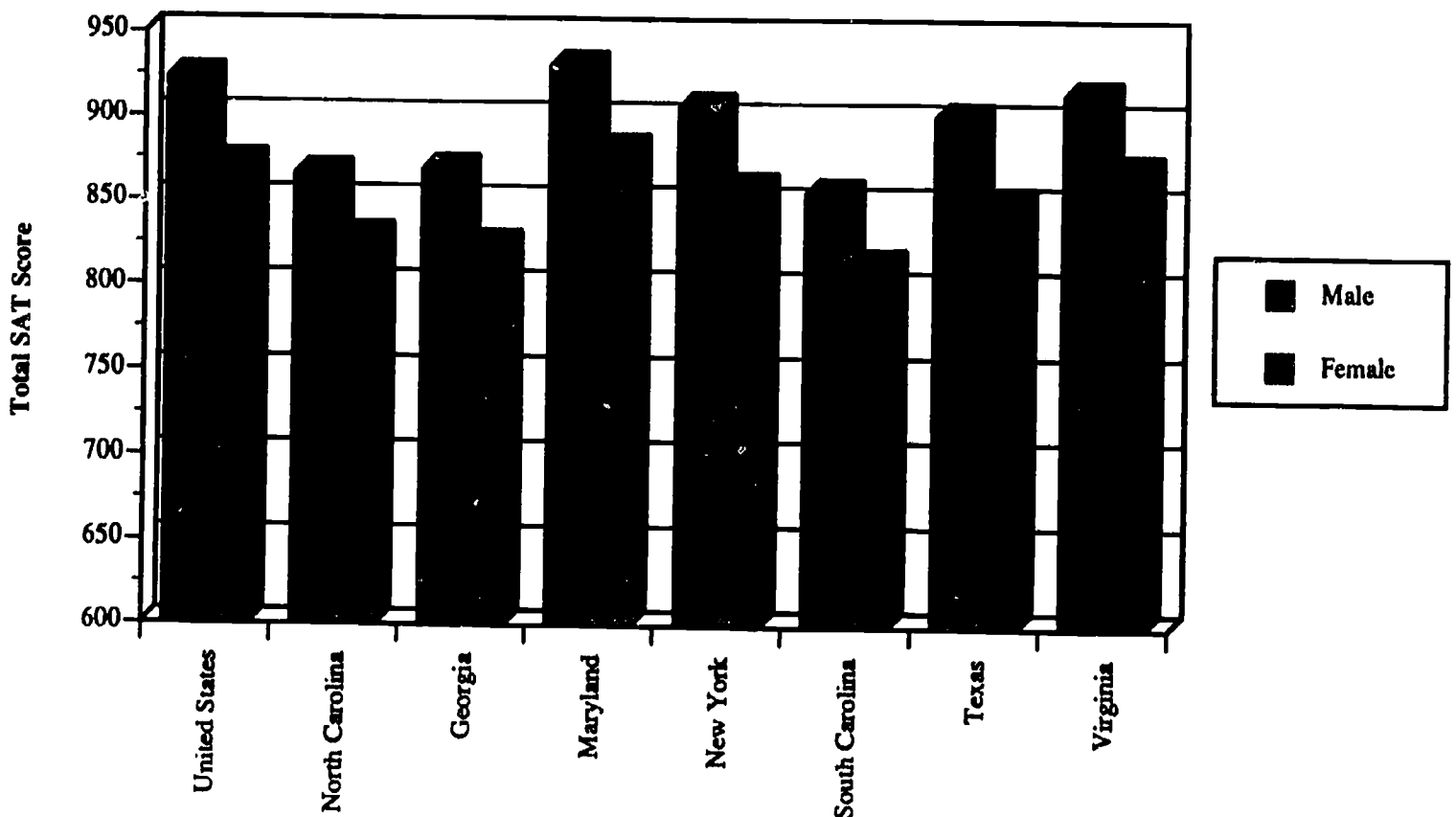


Figure 5. 1991 Scholastic Aptitude Test (SAT) Total Scores by Student Ethnicity for Selected States

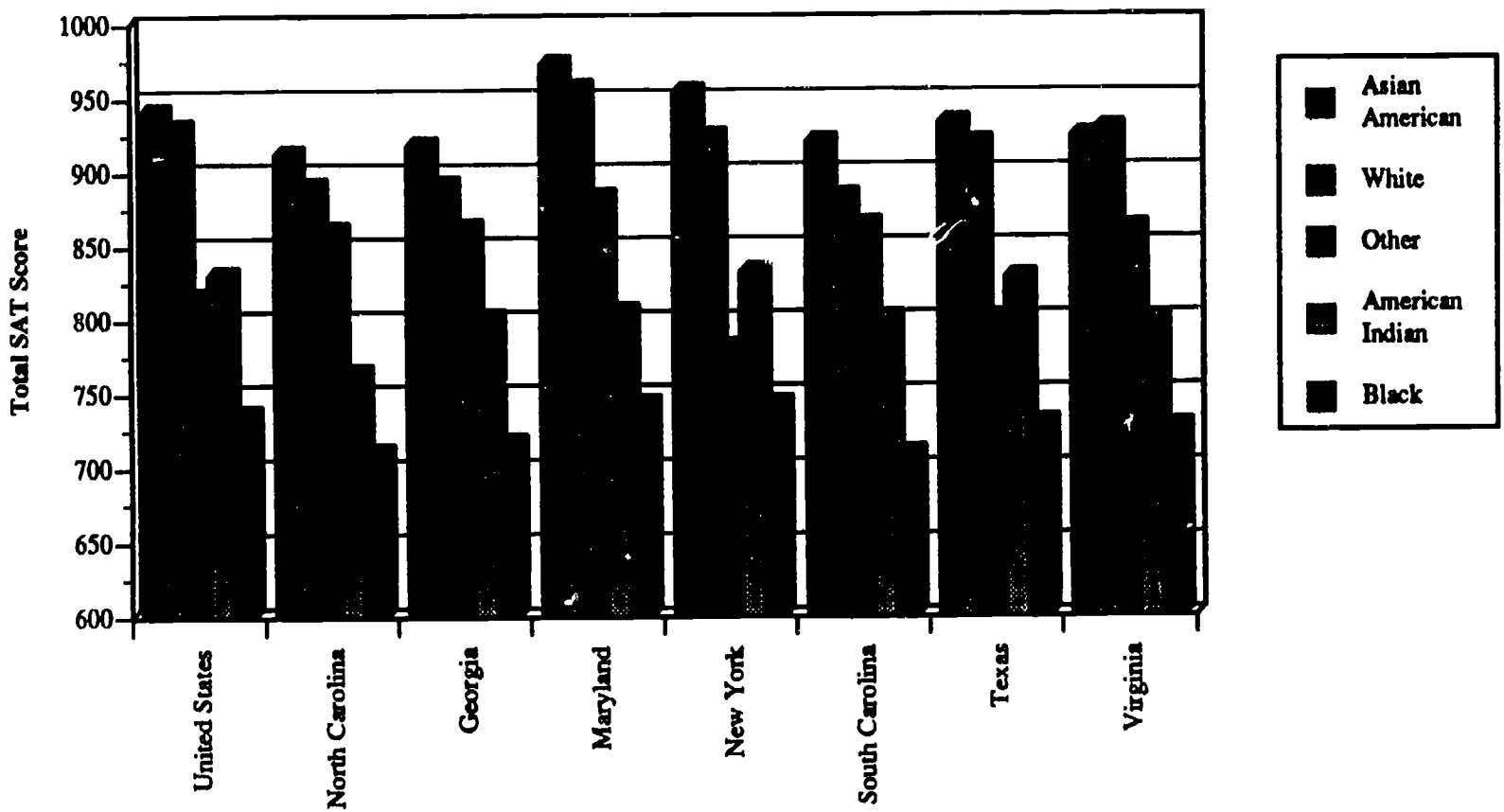


Figure 6. 1991 Scholastic Aptitude Test (SAT) Total Scores by Family Income Level for Selected States

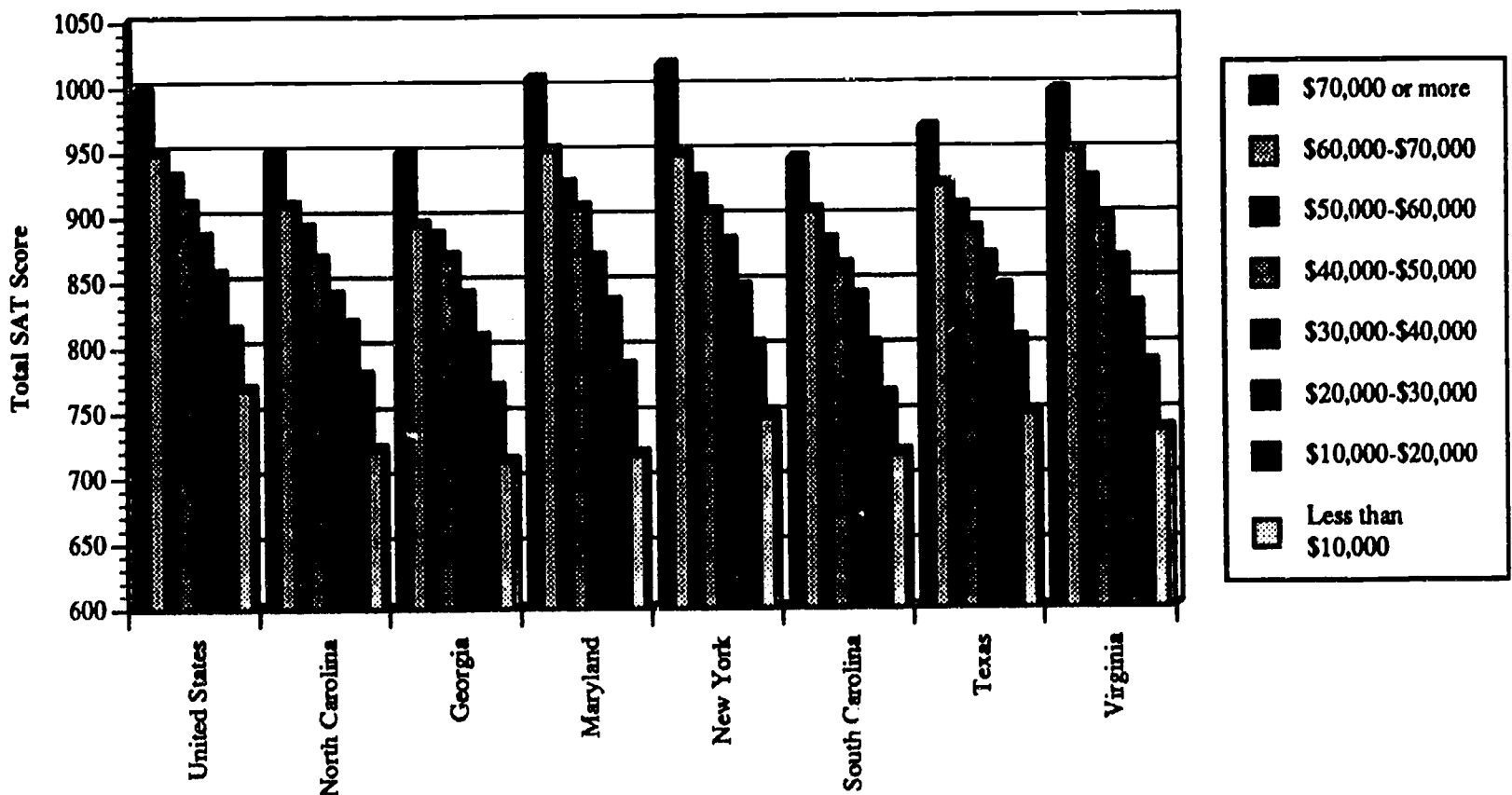


Figure 7. Scholastic Aptitude Test (SAT) Total Scores by Parent Education Level for Selected States

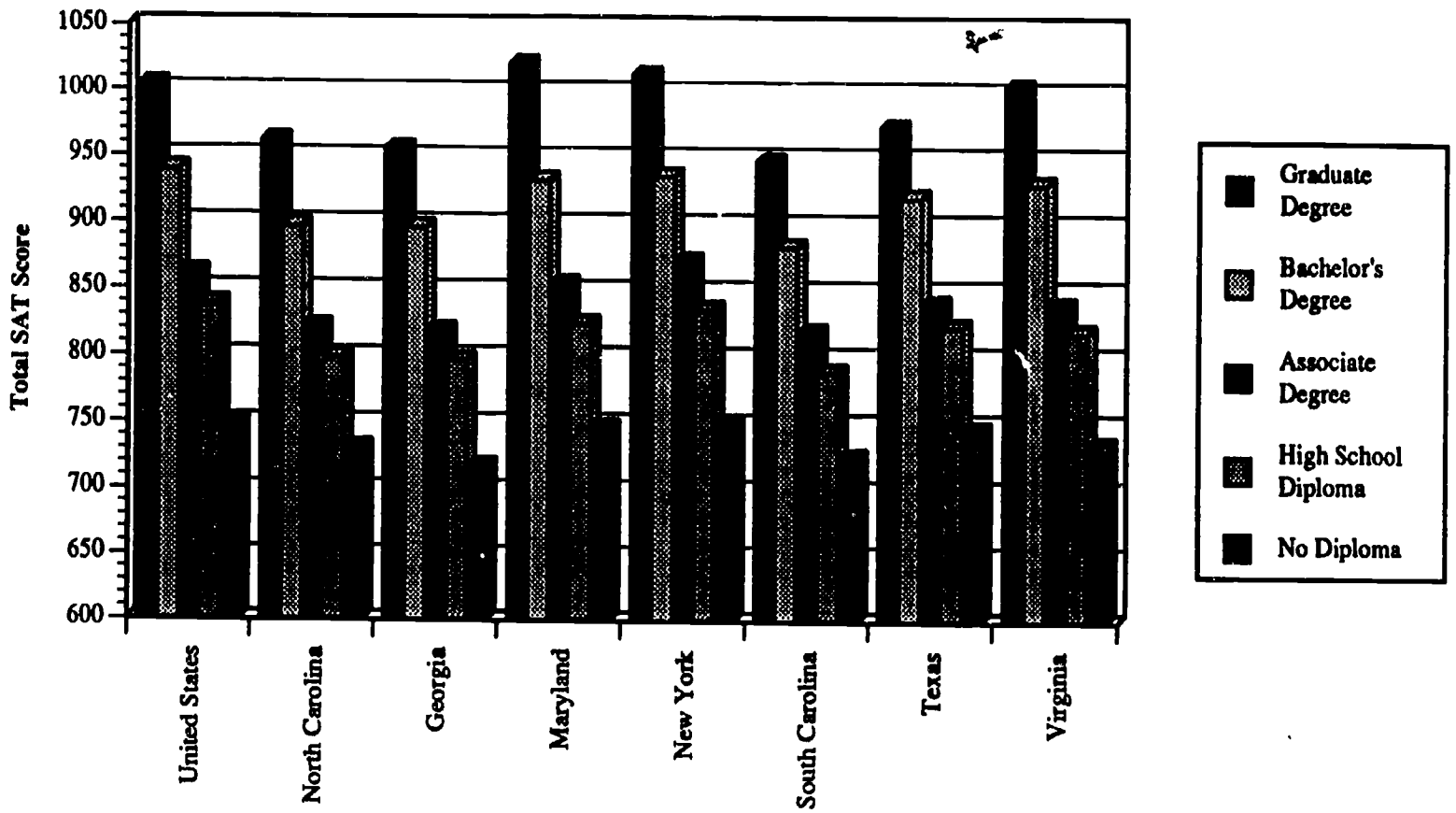


Figure 8. Scholastic Aptitude Test (SAT) Total Scores by Self-Reported High School Grade Point Average for Selected States

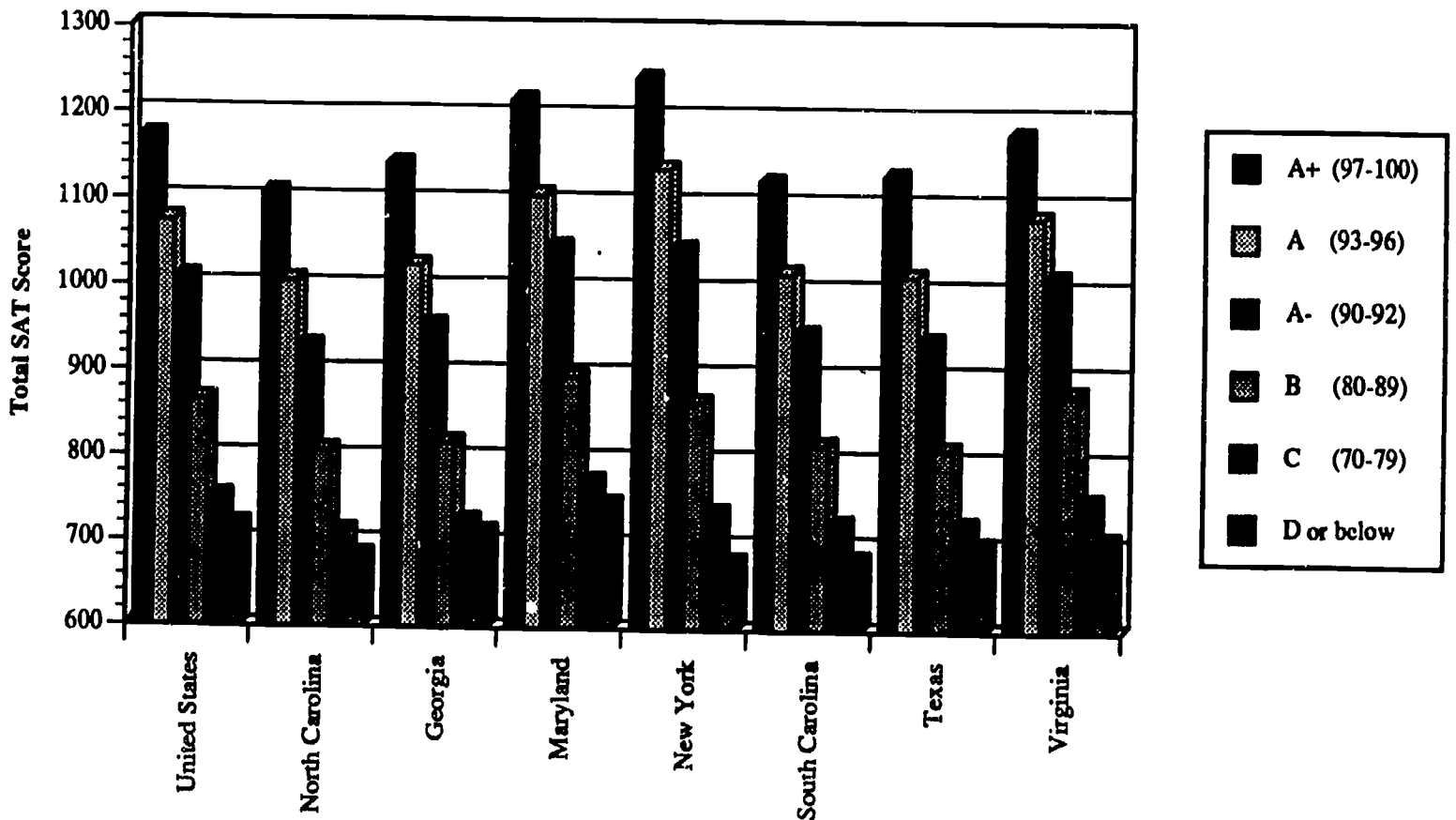


Table 8. North Carolina Performance on the 1991 SAT Verbal, Compared to the U.S. and Other Selected States

	United States average	%	North Carolina average	%	Georgia average	%	Maryland average	%	New York average	%	South Carolina average	%	Texas average	%	Virginia average	%
% Persons Age 5-17 yrs. in households below poverty line*	20.7		17.5		20.1		11.6		12.2		20.3		18.1		14.1	
% Public Aid Recipients**	6.2		5.0		6.4		5.1		8.0		6.3		4.5		4.0	
% Minority of Those Persons Age 5-17*	22.6		29.3		33.4		29.6		27.9		38.4		36.2		24.2	
% Participation***	42		57		62		64		75		58		44		60	
State and Local Per Capita Expenditures for Public Schools****	\$745.94		\$671.18		\$725.56		\$744.92		\$1030.29		\$648.07		\$736.53		\$763.30	

SAT VERBAL SCALED SCORES

All Students*****	422	100	400	100	400	100	429	100	413	100	395	100	411	100	424	100
Total full-year credits for study in six academic subjects																
20 or more	470	40	453	31	453	25	478	49	459	56	446	27	472	33	477	45
19 or 19.5	435	13	426	14	430	11	426	14	400	10	418	13	443	13	433	13
18 or 18.5	416	13	402	14	414	14	403	11	382	9	401	14	426	13	405	12
17 or 17.5	398	10	385	12	395	14	385	8	369	7	385	14	405	15	388	9
16 or 16.5	381	8	367	9	376	12	374	6	363	6	374	11	384	12	375	6
15 or 15.5	372	6	359	7	368	9	362	5	344	4	359	8	369	8	366	5
Fewer than 15	353	10	346	14	349	16	346	7	327	7	337	13	346	15	346	9

* From Chief State School Officers Council's "State Education Indicators 1989", with data from the U.S. Bureau of the Census, "United States Summary: General Population Characteristics: 19 series PC80-1-B1, Table 67.

** From "The World Almanac and Book of Facts 1990," New York: An Imprint of Pharos Books, November 1989, p. 563.

*** % Participation was taken from The College Board's release of SAT scores, and is based on a press release for Tuesday, August 27, 1991 entitled "Average SAT Scores by State, 1981, 1986-1991."

**** From Bureau of the Census, "Government Finances in 1988-89".

***** SAT data are from The College Board's "1991 Profile of SAT and Achievement Test Takers" for the selected states.

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Table 8, cont'd.

	United States average	%	North Carolina average	%	Georgia average	%	Maryland average	%	New York average	%	South Carolina average	%	Texas average	%	Virginia average	%
Sex																
Male	426	48	403	45	404	46	433	47	417	47	399	46	416	47	427	47
Female	418	52	398	55	396	54	425	53	409	53	392	54	407	53	422	53
Ethnicity																
American Indian	393	1	337	1	376	1	380	1	393	1	376	1	393	1	383	1
Asian American	411	8	405	2	402	3	432	7	412	6	420	2	411	5	411	6
Black	351	10	375	22	338	24	355	22	356	12	334	27	344	11	347	16
White	441	72	423	74	424	71	456	67	435	71	421	69	435	64	445	74
Other	383	9	410	1	413	2	422	3	371	10	417	1	374	19	410	3
Family Income																
Less than \$10,000	353	5	342	5	334	5	333	3	343	7	337	7	345	6	344	4
\$10,000-\$20,000	379	11	368	14	363	13	366	8	370	13	361	16	376	14	372	9
\$20,000-\$30,000	404	15	388	18	382	16	394	13	397	16	381	17	397	16	385	14
\$30,000-\$40,000	418	18	399	20	399	18	413	16	415	18	400	19	409	17	414	17
\$40,000-\$50,000	430	15	418	14	414	13	432	14	425	13	408	13	420	13	429	13
\$50,000-\$60,000	440	11	422	10	420	11	440	13	436	10	420	10	427	10	442	12
\$60,000-\$70,000	449	7	432	6	424	7	435	9	447	7	430	6	436	7	435	9
\$70,000 or more	469	19	449	13	448	16	477	25	477	16	448	11	455	17	473	21
Parent Educational Level																
No Diploma	339	5	342	3	332	4	339	3	341	7	338	5	339	6	339	4
High School Diploma	395	38	378	46	376	45	390	36	392	42	373	46	386	38	390	36
Associate Degree	407	8	389	9	389	7	406	7	410	9	388	9	396	7	401	7
Bachelor's Degree	442	27	425	25	425	25	442	27	439	22	421	23	433	28	442	28
Graduate Degree	476	23	458	17	455	19	486	28	478	20	452	17	460	21	480	26
High School GPA																
A+ (97-100)	549	4	523	5	536	3	571	3	587	2	533	3	527	6	558	4
A (93-96)	503	11	474	14	482	11	521	9	533	9	480	9	474	16	513	10
A- (90-92)	471	13	438	14	449	13	491	10	483	12	447	11	440	17	478	12
B (80-89)	409	52	383	50	388	54	424	54	406	56	388	54	383	52	419	49
C (70-79)	337	18	341	16	346	19	370	24	349	21	346	23	344	9	362	24
D or below	338	0	324	0	346	0	359	1	324	1	335	1	328	0	343	1

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Table 9. North Carolina Performance on the 1991 SAT Mathematics, Compared to the U.S. and Other Selected States

	United States average	%	North Carolina average	%	Georgia average	%	Maryland average	%	New York average	%	South Carolina average	%	Texas average	%	Virginia average	%
% Persons Age 5-17 yrs. in households below poverty line*		20.7		17.5		20.1		11.6		12.2		20.3		18.1		14.1
% Public Aid Recipients**		6.2		5.0		6.4		5.1		8.0		6.3		4.5		4.0
% Minority of Those Persons Age 5-17 yrs.*		22.6		29.3		33.4		29.6		27.9		38.4		36.2		24.2
% Participation***		42		57		62		64		75		58		44		60
State and Local Per Capita Expenditures for Public Schools****	\$745.94		\$671.18		\$725.56		\$744.92		\$1030.29		\$648.07		\$736.53		\$763.30	

SAT MATH SCALED SCORES

All Students*****	474	100	444	100	444	100	475	100	468	100	437	100	463	100	466	100
Total full-year credits for study in six academic subjects																
20 or more	526	40	498	31	494	25	528	49	520	56	490	27	500	23	518	43
19 or 19.5	488	13	473	14	477	11	473	14	450	10	461	13	500	13	478	13
18 or 18.5	448	13	449	14	464	14	448	11	437	9	445	14	483	13	451	12
17 or 17.5	446	10	431	12	441	14	426	8	411	7	428	14	458	15	425	9
16 or 16.5	428	8	411	9	420	12	418	6	408	6	410	11	431	12	409	8
15 or 15.5	417	6	401	7	410	9	402	5	391	4	399	8	413	8	403	5
Fewer than 15	402	10	387	14	391	16	389	7	378	7	379	13	395	15	381	9

* From Chief State School Officers Council's "State Education Indicators 1989", with data from the U.S. Bureau of the Census, "United States Summary: General Population Characteristics: 1980," series PC80-1-B1, Table 67.

** From "The World Almanac and Book of Facts 1990," New York: An Imprint of Pharos Books, November 1989, p. 563.

*** % Participation was taken from The College Board's release of SAT scores, and is based on a press release for Tuesday, August 27, 1991 entitled "Average SAT Scores by State, 1981, 1986-1991."

**** From Bureau of the Census, "Government Finances in 1988-89".

***** SAT data are from The College Board's "1991 Profile of SAT and Achievement Test Takers" for the selected states.

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Table 9, cont'd.

	United States average	%	North Carolina average	%	Georgia average	%	Maryland average	%	New York average	%	South Carolina average	%	Texas average	%	Virginia average	%
Sex																
Male	497	48	462	45	464	46	497	47	489	47	436	46	485	47	487	47
Female	453	52	430	55	427	54	456	53	449	53	421	54	443	53	448	53
Ethnicity																
American Indian	437	1	407	1	425	1	425	1	439	1	424	1	435	1	416	1
Asian American	530	8	507	2	516	3	541	7	542	6	500	2	522	5	513	6
Black	383	10	374	22	379	24	388	22	387	12	375	27	385	21	390	16
White	489	72	467	74	467	71	501	67	489	71	462	69	484	64	484	74
Other	433	9	450	1	450	2	461	3	410	10	447	1	426	19	451	3
Family Income																
Less than \$10,000	413	3	380	5	379	9	383	3	403	7	381	7	404	6	392	4
\$10,000-\$20,000	434	11	410	14	406	13	419	8	431	13	402	16	429	14	414	9
\$20,000-\$30,000	432	13	430	18	425	16	440	13	448	16	420	17	448	16	435	14
\$30,000-\$40,000	466	8	441	20	441	18	455	16	465	18	438	19	459	17	451	17
\$40,000-\$50,000	490	13	457	14	455	13	475	14	474	13	454	13	469	13	468	13
\$50,000-\$60,000	491	11	469	10	466	11	485	13	492	10	461	10	480	10	485	12
\$60,000-\$70,000	500	7	477	6	470	7	496	9	500	7	474	6	488	7	495	9
\$70,000 or more	528	19	501	13	501	16	529	25	539	16	496	11	513	17	523	21
Parent Educational Level																
No Diploma	409	3	388	3	385	4	407	3	408	7	386	5	406	6	393	4
High School Diploma	443	38	421	46	420	45	434	36	443	42	415	46	436	38	428	36
Associate Degree	454	8	432	9	429	7	448	7	461	9	430	9	443	7	437	7
Bachelor's Degree	497	27	472	25	471	25	490	27	496	22	461	23	486	28	487	28
Graduate Degree	528	23	503	17	500	19	534	28	534	20	494	17	512	21	523	26
High School GPA																
A+ (97-100)	623	4	584	5	605	3	644	3	654	2	590	3	603	6	620	4
A (93-96)	571	11	531	14	542	11	585	9	604	9	537	9	540	16	569	10
A- (90-92)	537	13	481	14	505	13	554	10	559	12	508	11	499	17	535	12
B (80-89)	457	52	424	50	429	54	470	54	460	56	429	54	429	52	460	49
C (70-79)	394	18	371	16	379	19	402	24	388	21	379	23	388	9	391	24
D or below	381	0	360	0	366	0	387	1	356	1	348	1	372	0	365	1

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SECTION 3
NORTH CAROLINA PERFORMANCE ON THE SAT FOR 129 SCHOOL
SYSTEMS AND TWO SPECIAL SCHOOLS

1991

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North Carolina Performance on the SAT for 129 School Systems and Two Special Schools: 1991

Note: The data contained in this section are for the 129 school systems and two special schools which released their SAT scores to the North Carolina Department of Public Instruction.

Table 10 **Distribution of 1991 Scholastic Aptitude Test Verbal and Mathematics Scores**

Figure 9 **Distribution of 1991 Scholastic Aptitude Test Mathematics Scores**

Figure 10 **Distribution of 1991 Scholastic Aptitude Test Mathematics Scores**

Figure 11 **Distribution of SAT Verbal Yields by School System: 1991**

Figure 12 **Distribution of SAT Mathematics Yields by School System: 1991**

Observations

- **The average scores for the school systems which released their scores to the Department of Public Instruction were very similar to those for all SAT-takers in the state. The verbal score was 399, which was one point lower than the score for the entire state, and the mathematics score was 444, the same as the score for the entire state, for a total average score of 843.**

- **A number of students had the highest possible scores but even more had the lowest possible scores on the SAT.**

**Table 10. Distribution of North Carolina
1991 Scholastic Aptitude Test (SAT) Verbal and Mathematics Scores**

Verbal			Mathematics			
(Mean = 399, Yield = 17.8)			(Mean = 444, Yield = 21.8)			
Number	Percent	N. C. Percentile	Score	Number	Percent	N. C. Percentile
3	0.01	99	800	14	0.04	99
0	0.00	99	790	7	0.02	99
3	0.01	99	780	24	0.07	99
0	0.00	99	770	15	0.05	99
4	0.01	99	760	28	0.09	99
5	0.02	99	750	66	0.21	99
14	0.04	99	740	31	0.10	99
10	0.03	99	730	53	0.17	99
26	0.08	99	720	89	0.27	99
23	0.07	99	710	91	0.28	98
48	0.15	99	700	146	0.46	98
38	0.12	99	690	151	0.47	98
42	0.13	98	680	169	0.51	97
76	0.24	98	670	148	0.45	96
88	0.27	98	660	181	0.54	96
111	0.35	98	650	252	0.79	95
136	0.42	98	640	272	0.85	94
110	0.34	97	630	312	0.97	93
140	0.44	97	620	322	1.00	93
140	0.44	97	610	383	1.19	91
204	0.64	96	600	437	1.36	90
230	0.72	95	590	438	1.37	89
261	0.81	95	580	525	1.64	87
325	1.01	94	570	678	2.11	85
291	0.91	93	560	818	2.93	83
426	1.33	92	550	700	2.31	81
634	1.87	91	540	702	2.19	79
413	1.29	89	530	714	2.23	77
656	2.05	87	520	954	2.98	74
538	1.68	85	510	961	3.00	71
786	2.43	83	500	1338	4.61	68
533	1.66	81	490	891	2.78	66
853	2.64	79	480	956	2.94	63
1096	3.42	76	470	1214	3.79	60
638	1.99	73	460	930	2.90	56
1151	3.59	70	450	999	3.12	53
967	2.98	67	440	1000	3.14	50
1510	4.59	63	430	969	3.02	47
900	2.81	60	420	1264	3.94	43
1494	4.66	56	410	930	2.90	40
879	2.74	53	400	684	2.13	38
1458	4.55	49	390	1030	3.21	35
1213	3.80	45	380	990	3.09	32
1340	4.18	41	370	1254	3.91	28
1210	3.77	37	360	891	2.78	25
1197	3.73	33	350	891	2.78	22
1139	3.55	29	340	928	2.89	19
1059	3.30	26	330	839	2.62	17
1042	3.25	23	320	852	2.66	14
893	2.79	20	310	754	2.35	11
988	3.06	17	300	743	2.32	9
667	2.08	14	290	547	1.71	7
793	2.47	12	280	465	1.45	5
701	2.19	10	270	495	1.54	4
648	1.91	8	260	421	1.31	3
599	1.80	6	250	356	0.94	1
358	1.12	4	240	185	0.58	1
389	1.21	3	230	147	0.46	1
293	0.91	2	220	85	0.27	1
232	0.72	1	210	59	0.18	1
497	1.55	1	200	44	0.14	1

Note: Data are from the 129 School Systems and 2 Special Schools which released their scores to the Department of Public Instruction

Figure 9. Distribution of North Carolina 1991 Individual Scholastic Aptitude Test (SAT) Verbal Scores

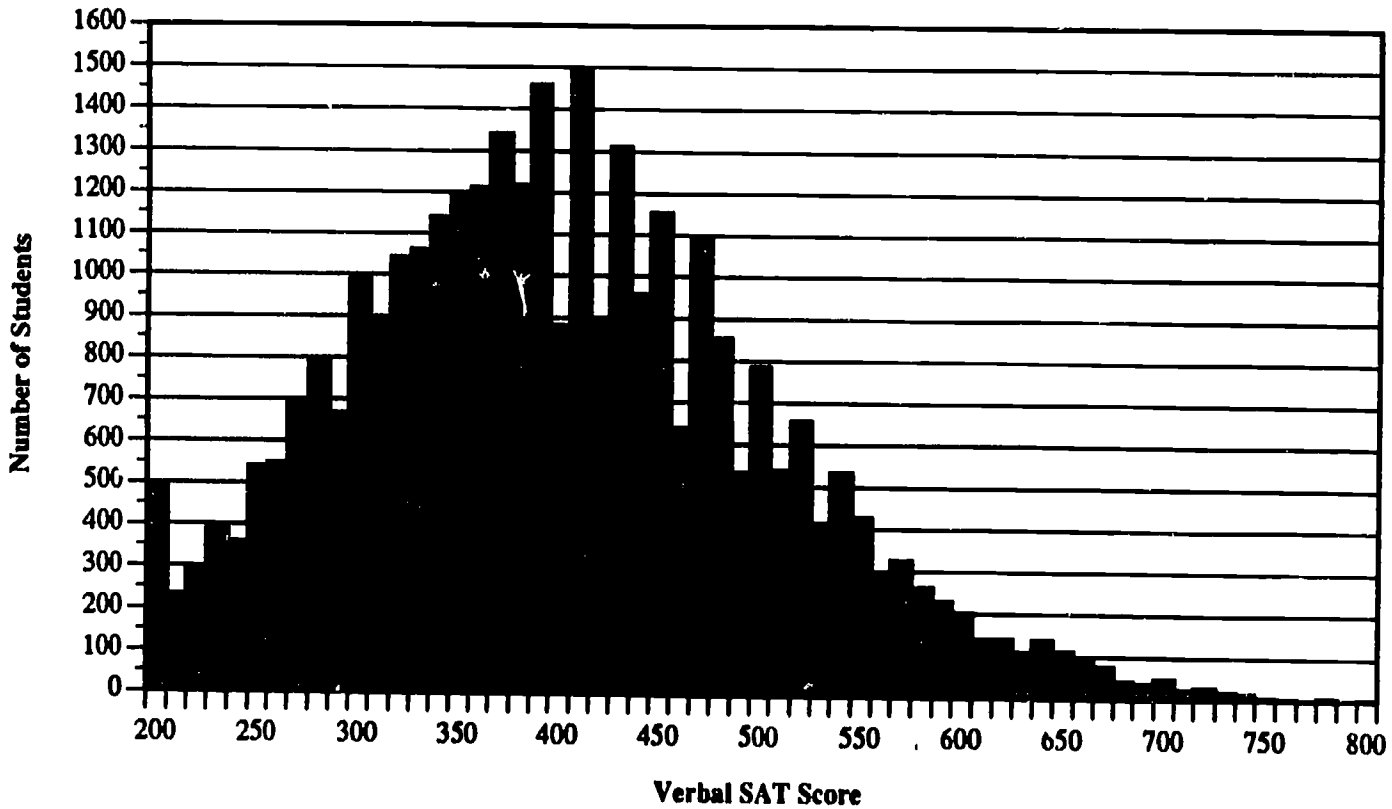
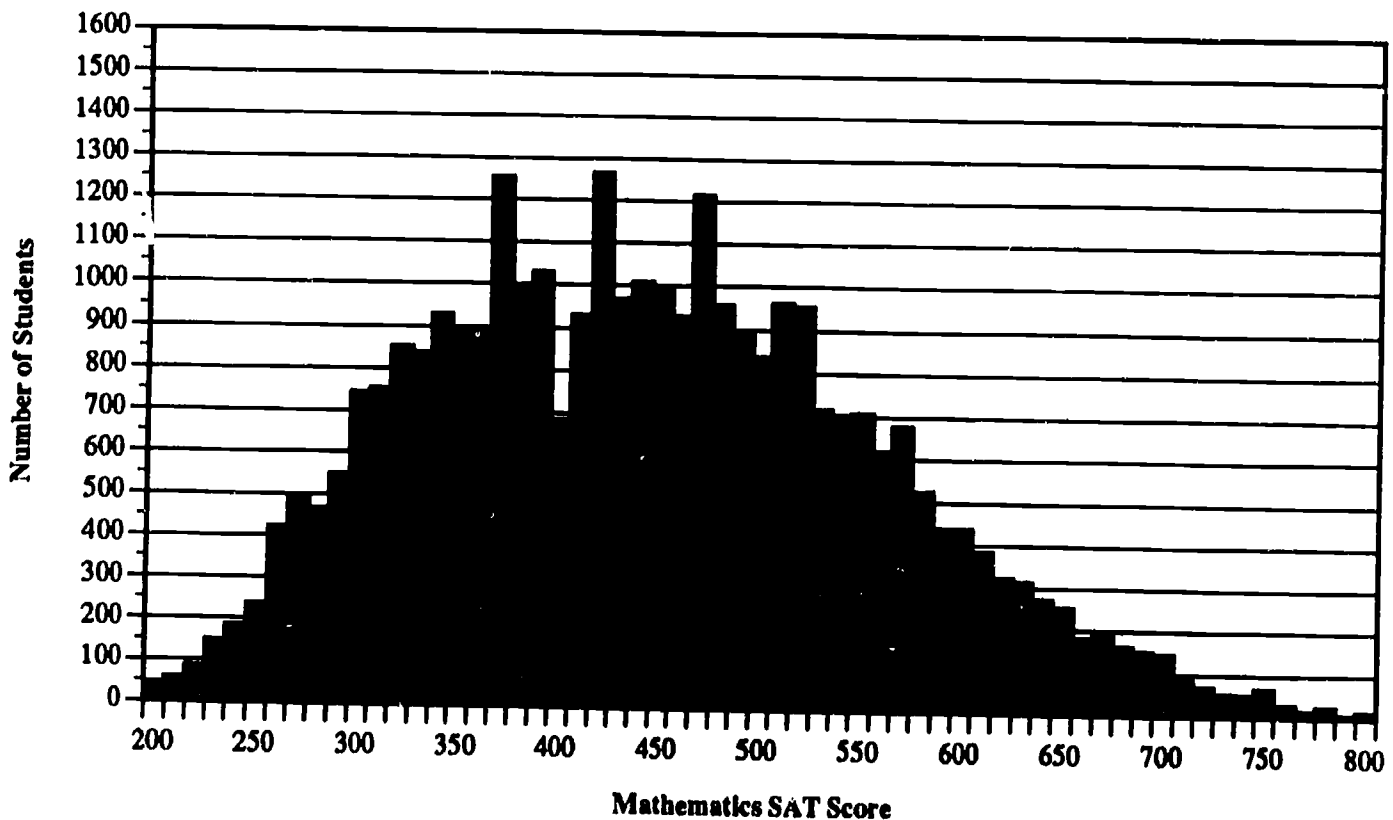


Figure 10. Distribution of North Carolina 1991 Individual Scholastic Aptitude Test (SAT) Mathematics Scores



Note: Data are from the 129 School Systems and 2 Special Schools which released their scores to the Department of Public Instruction

Figure 11. Distribution of North Carolina 1991 School System Scholastic Aptitude Test (SAT) Verbal Yields

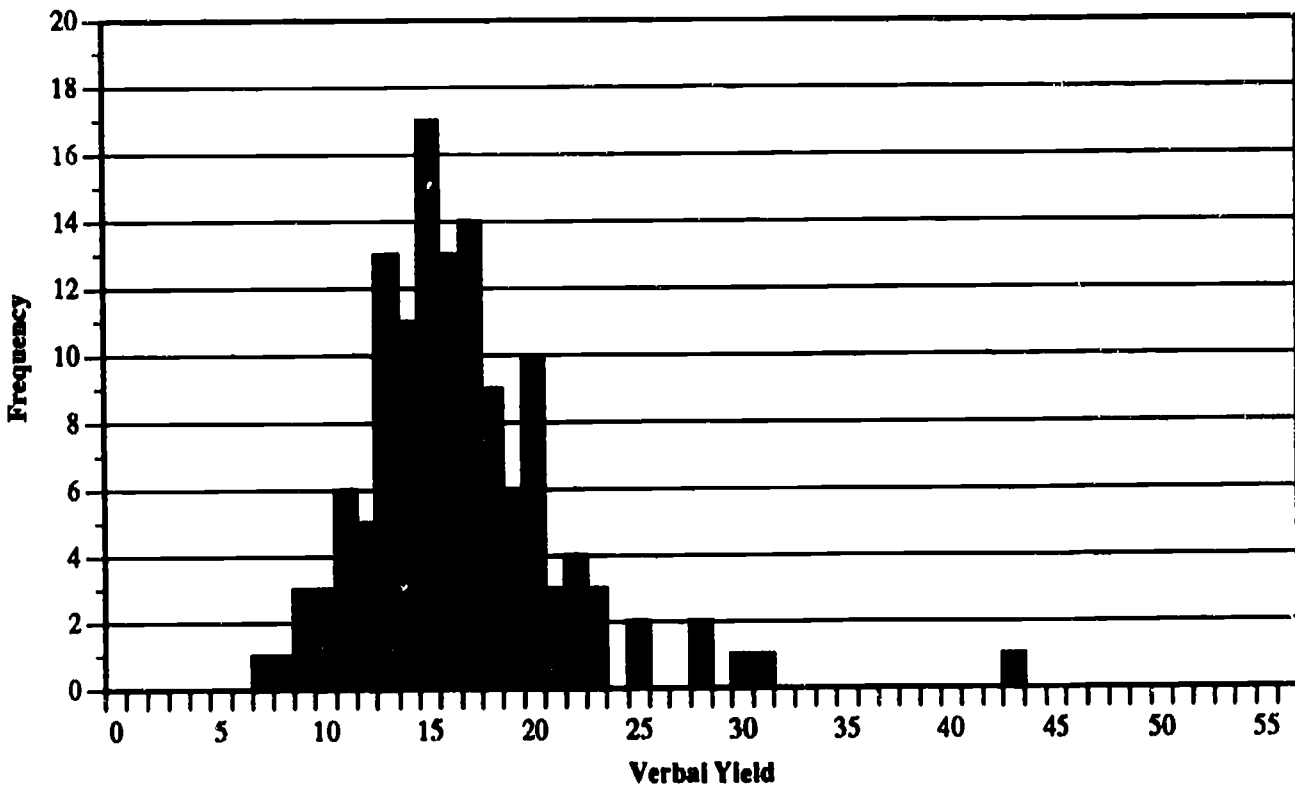
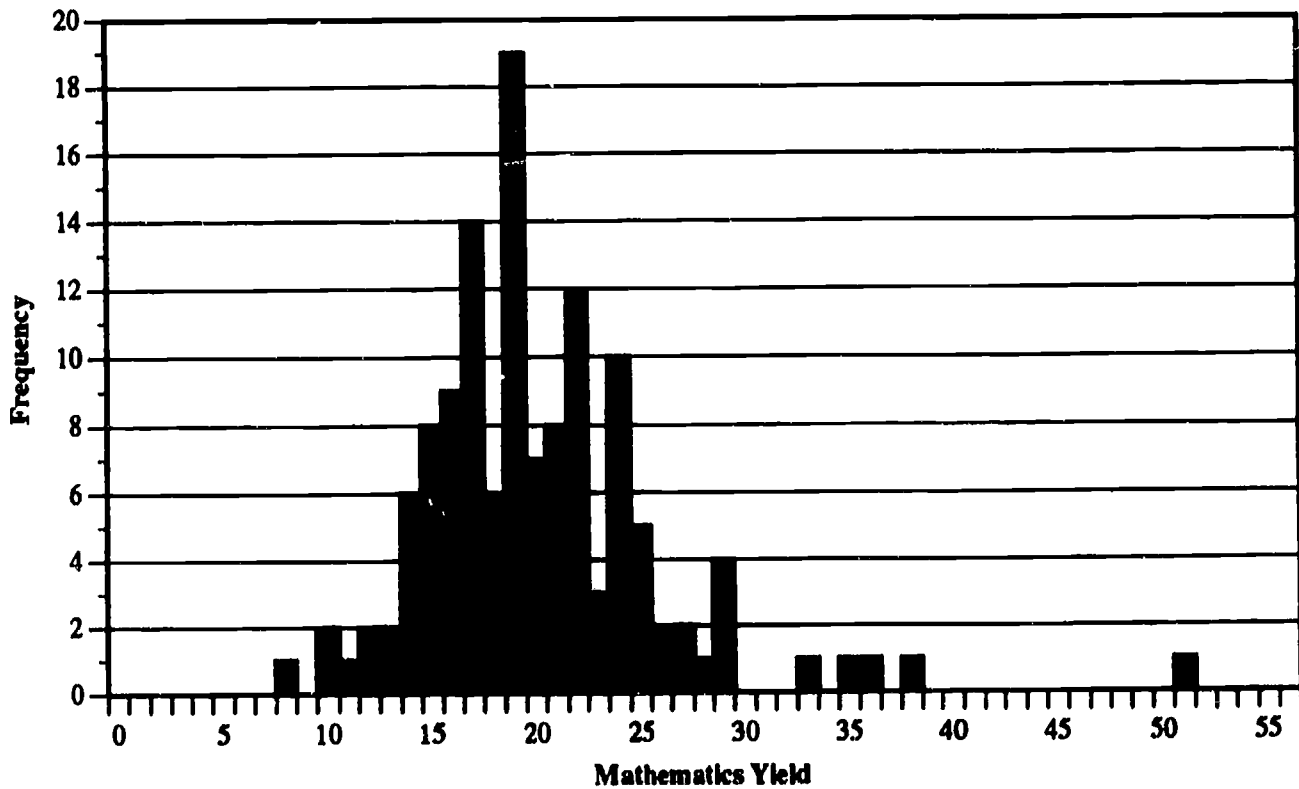


Figure 12. Distribution of North Carolina 1991 School System Scholastic Aptitude Test (SAT) Mathematics Yields



Note: Data are from the 129 School Systems and 2 Special School which released their scores to the Department of Public Instruction

SECTION 4

**INDIVIDUAL SCHOOL SYSTEM PERFORMANCE ON THE SAT FOR 129
SCHOOL SYSTEMS AND TWO SPECIAL SCHOOLS: 1991**

Individual School System Performance on the SAT for 129 School Systems and Two Special Schools: 1991

Note: The data contained in this section are for the 129 school systems and two special schools which released their SAT scores to the North Carolina Department of Public Instruction.

- Table 11** School Systems with the Highest 1991 SAT Scores
- Table 12** School Systems with the Highest SAT Score Gains from 1990 to 1991
- Table 13** School Systems with the Highest 1991 SAT Participation Rates
- Table 14** School Systems with the Highest 1991 SAT Yields
- Table 15** School Systems with the Highest Percent of Students with 20 or more Academic Courses: 1991
- Figure 13** 1991 Scholastic Aptitude Test Verbal Scores by Technical Assistance Center
- Figure 14** 1991 Scholastic Aptitude Test Mathematics Scores by Technical Assistance Center
- Table 16** Individual School System SAT Scores, Verbal and Mathematics: 1991

Table 11. School Systems with the Highest 1991 SAT Scores

<u>Verbal</u>	<u>Mathematics</u>	<u>Total</u>
1. Chapel Hill City	1. Chapel Hill City	1. Chapel Hill City
2. Watauga	2. Wake	2. Watauga
3. Mt Airy City	3. Roanoke Rapids	3. Buncombe
4. Asheville City	4. Buncombe	4. Mt Airy City
5. Buncombe	4. Watauga	4. Wake
5. Davie	6. Ashe	6. Ashe
7. Elkin City	7. Mt Airy City	7. Elkin City
8. Durham County	8. Mooresville City	8. Davie
9. Jackson	9. Dare	9. Durham County
10. Hickory City	10. Elkin City	9. Roanoke Rapids
	10. Hendersonville City	

Table 12. School Systems with the Highest SAT Score Gains from 1990 to 1991

<u>Verbal</u>	<u>Mathematics</u>	<u>Total</u>
1. Mt Airy City	1. Elkin City	1. Elkin City
1. Thomasville City	2. Mitchell	2. Mitchell
3. Mitchell	3. Rockingham	3. Rockingham
3. Rockingham	4. Kings Mountain City	4. Mt Airy City
5. Elkin City	5. Mt Airy City	5. Kings Mountain City
6. Newton-Conover City	6. Newton-Conover City	5. Thomasville City
7. Mooresville City	7. Harnett	7. Newton-Conover City
8. Kings Mountain City	8. Mooresville City	8. Mooresville City
9. Moore	8. Yadkin	9. Yadkin
10. Yadkin	10. Thomasville City	10. Moore

Table 13. School Systems with the Highest 1991 SAT Participation Rates

1. Chapel Hill City
2. Hendersonville City
3. Durham County
4. Hickory City
4. Wake
6. Clinton City
7. Burlington City
8. Durham City
9. Elkin City
9. Monroe City

Table 14. School Systems with Highest 1991 SAT Yields

<u>Verbal</u>	<u>Mathematics</u>	<u>Total</u>
1. Chapel Hill City	1. Chapel Hill City	1. Chapel Hill City
2. Hendersonville City	2. Hendersonville City	2. Hendersonville City
3. Durham County	3. Wake	3. Durham County
4. Hickory City	4. Durham County	4. Wake
4. Wake	5. Hickory City	5. Hickory City
6. Elkin City	6. Dare	6. Elkin City
7. Watauga	6. Elkin City	7. Watauga
8. Asheville City	8. Watauga	8. Dare
9. Burlington City	9. Burlington City	9. Burlington
9. Dare	10. Forsyth	10. Forsyth

Table 15. School Systems with the Highest Percent of Students with 20 or More Academic Courses of those Taking the 1991 SAT

1. Chapel Hill City
2. Asheville City
3. Durham County
4. Mooresville City
5. Weldon City
6. Hendersonville City
7. Lexington City
8. Kannapolis City
9. Lee
10. Perquimans

Figure 13. 1991 Scholastic Aptitude Test Verbal Scores by Technical Assistance Center

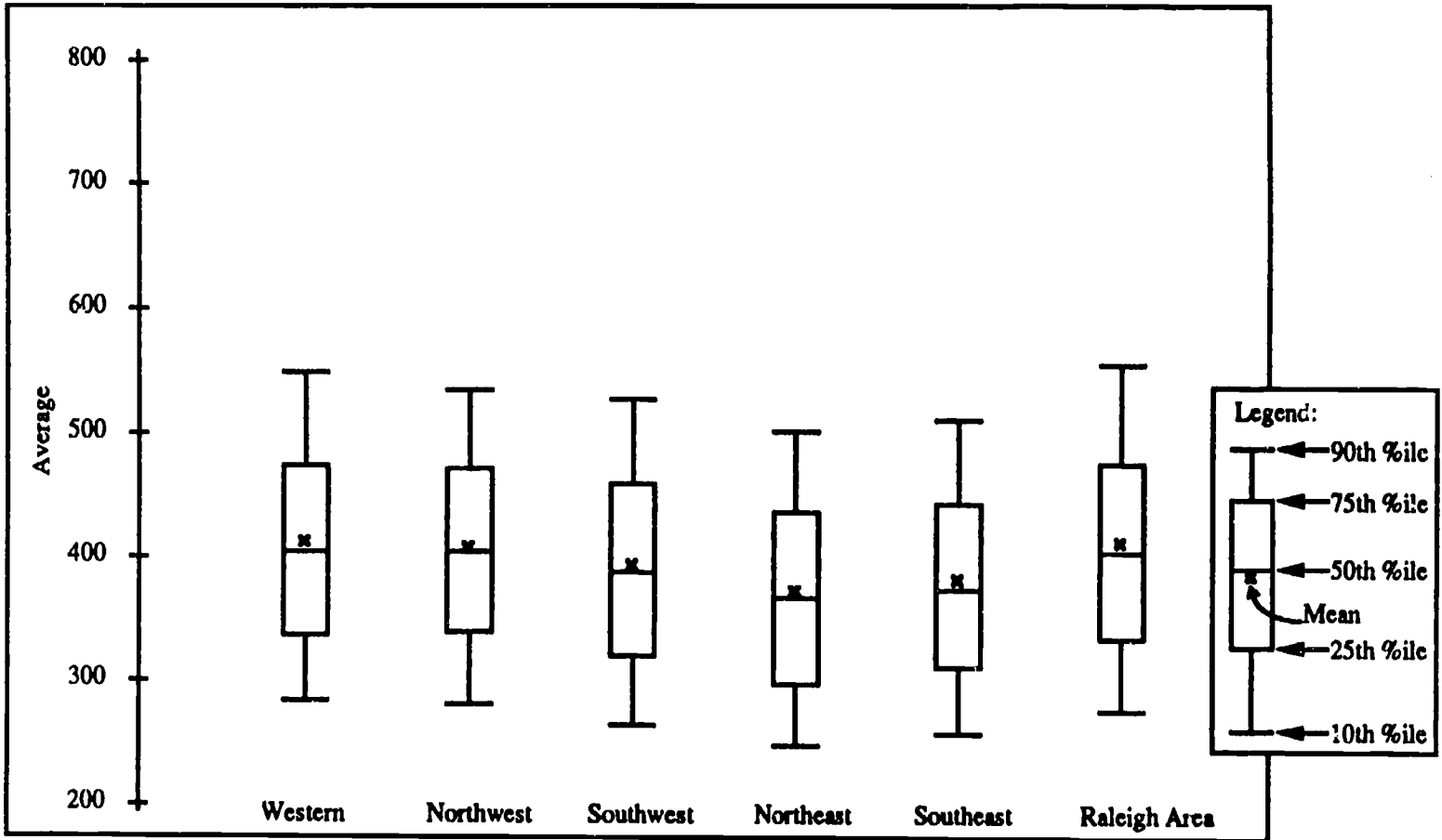


Figure 14. 1991 Scholastic Aptitude Test Mathematics Scores by Technical Assistance Center

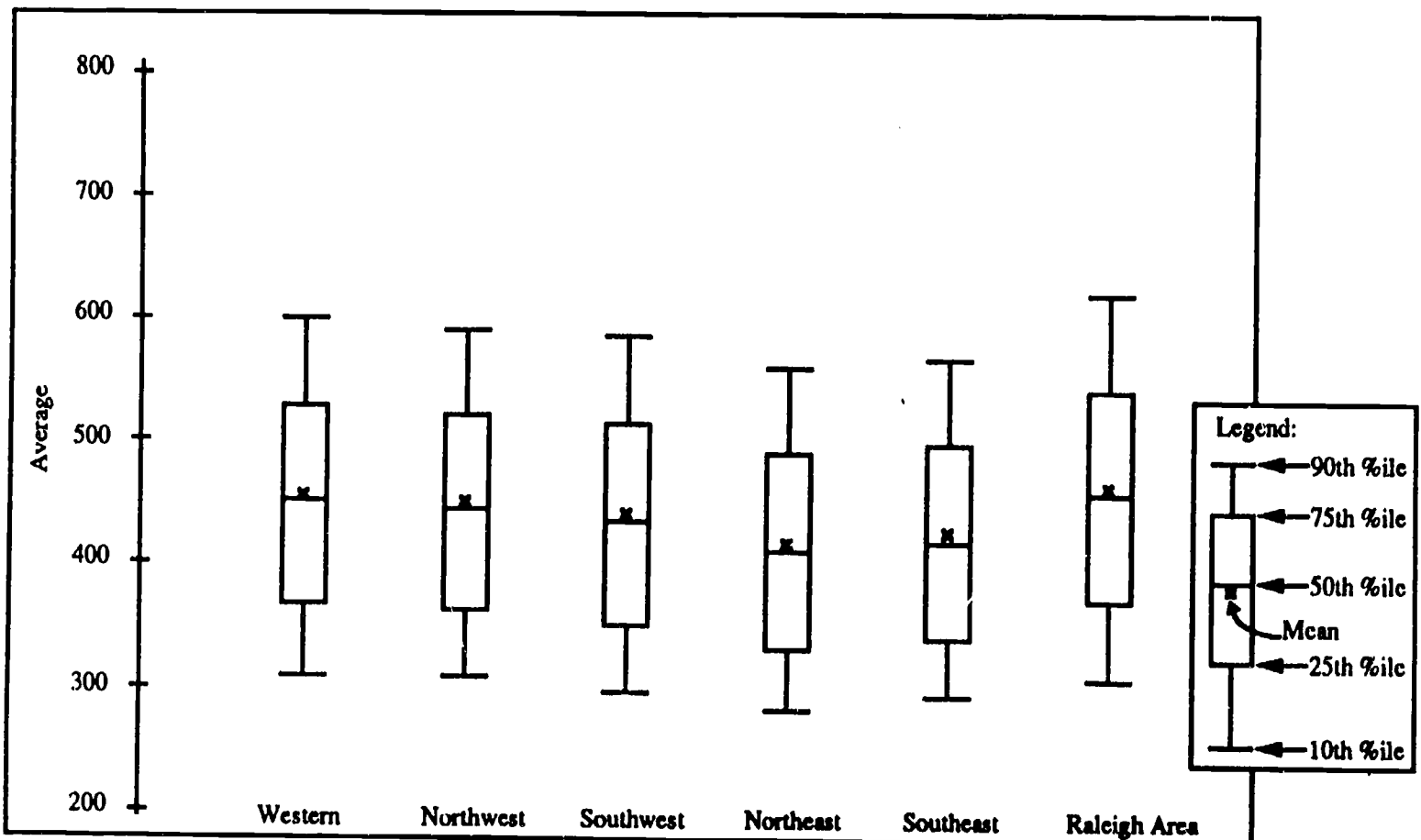


Table 16. 1991 Scholastic Aptitude Test Verbal and Mathematics Scores and Yields for Technical Assistance Centers

Western Technical Assistance Center

School System	Number Tested	Percent Tested	Verbal Yield	Math Yield	Verbal Score	Math Score
Buncombe County	646	49.3	18.2	23.1	428	478
Asheville City	136	60.2	20.0	24.1	429	460
Cherokee County	118	51.3	18.3	21.3	397	448
Clay County	57	62.6	20.0	22.5	391	415
Graham County	41	51.3	16.1	21.9	388	457
Haywood County	243	45.3	15.9	18.9	410	450
Henderson County	309	43.3	17.5	18.3	373	433
Hendersonville City	111	57.7	16.3	17.6	376	467
Jackson County	121	56.0	21.5	23.2	422	449
Macon County	117	58.2	20.0	23.9	406	446
Madison County	59	37.8	13.6	16.3	416	459
McDowell County	147	41.3	13.9	15.9	401	431
Mitchell County	86	39.4	13.0	19.3	374	397
Polk County	31	24.3	14.2	18.9	393	429
Rutherford County	231	40.7	12.3	15.1	383	422
Swain County	52	48.6	16.2	19.0	400	434
Transylvania County	143	58.6	20.6	24.5	410	451
Yancey County	56	31.3	9.9	11.9	390	428

Table 16., cont'd.

Northwest Technical Assistance Center

School System	Number Tested	Percent Tested	Verbal Yield	Math Yield	Verbal Score	Math Score
Alexander County	156	50.8	15.3	19.6	383	435
Alleghany County	51	55.7	17.4	18.5	395	408
Ashe County	110	47.3	17.4	21.9	421	475
Avery County	93	55.7	16.5	17.7	378	391
Burke County	281	39.5	14.1	16.5	414	450
Caldwell County	272	44.1	15.5	18.2	411	448
Catawba County	332	44.0	15.0	19.1	405	440
Hickory City	192	75.0	27.7	28.9	422	463
Newton-Conover City	101	54.6	19.4	23.3	414	456
Davidson County						
Lexington City	75	43.9	15.0	16.4	405	424
Thomasville City	78	57.8	20.0	23.5	408	444
Davie County	148	46.5	17.7	20.4	408	463
N.C. School of the Arts	60	69.0	23.8	24.2	404	427
Forsyth County	1483	63.9	22.0	27.2	405	455
Iredell County	372	61.0	19.7	23.4	393	430
Mooreville City	82	55.0	19.8	25.0	416	472
Stokes County	180	45.0	14.6	16.8	394	423
Surry County	204	42.6	16.1	16.1	358	427
Elkin City	41	65.1	24.4	28.0	425	467
Mt Airy City	53	49.1	18.3	22.4	430	474
Watauga County	159	61.4	24.2	28.5	436	478
Wilkes County	232	39.9	13.5	15.5	403	433
Yadkin County	133	43.8	14.8	16.7	403	428

Table 16., cont'd.

Southwest Technical Assistance Center

School System	Number Tested	Percent Tested	Verbal Yield	Math Yield	Verbal Score	Math Score
Anson County	127	41.9	9.1	12.3	330	376
Cabarrus County	468	59.5	19.9	24.7	401	449
Kannapolis City	112	44.6	13.4	16.9	380	428
Cleveland County	223	48.9	14.9	18.0	383	421
Kings Mountain City	88	39.6	12.7	16.4	392	448
Shelby City	123	63.4	21.6	24.8	405	435
Gaston County	910	50.5	15.3	18.4	362	419
Hoke County	97	37.3	10.5	14.1	370	426
Lincoln County	254	46.8	14.9	18.6	391	438
Mecklenburg County	2676	61.8	21.3	26.1	407	454
Montgomery County	141	54.9	16.7	21.8	383	438
Moore County	222	45.2	16.4	19.0	418	452
Richmond County	217	64.7	22.3	25.3	364	405
Rowan County	494	51.5	17.4	21.7	383	430
Scotland County	194	55.4	15.7	20.3	370	420
Stanly County	181	46.8	14.7	18.3	388	435
Albemarle City	74	56.1	18.6	23.1	399	447
Union County	381	50.7	17.8	21.4	411	454
Monroe City	95	65.1	17.1	20.5	358	389

Table 16., cont'd.

Northeast Technical Assistance Center

School System	Number Tested	Percent Tested	Verbal Yield	Math Yield	Verbal Score	Math Score
Beaufort County	99	41.1	11.4	14.1	367	406
Washington City	117	50.2	14.4	19.2	372	429
Bertie County	101	43.5	10.8	13.3	350	383
Camden County	28	38.4	12.5	13.2	395	406
Chowan County	51	36.7	13.4	15.9	419	460
Currituck County	54	41.9	13.7	18.6	396	466
Dare County	110	64.3	22.7	29.0	412	470
Edgecombe County	119	43.3	10.4	13.5	345	388
Tarboro City	97	59.1	16.6	21.4	369	417
Gates County	41	42.7	12.8	16.7	380	434
Halifax County	129	39.1	8.5	10.7	330	365
Roanoke Rapids City	89	44.7	15.5	21.0	408	482
Weldon City	15	25.0	6.4	7.6	354	382
Hertford County	127	56.0	12.4	15.0	338	367
Hyde County	28	45.2	13.4	18.5	378	446
Martin County	196	56.2	15.4	18.5	364	398
Northampton County	106	44.7	10.5	13.9	341	386
Pasquotank County	167	59.4	16.6	21.1	367	413
Perquimans County	49	49.0	17.6	21.5	416	463
Pitt County	516	54.5	18.1	22.2	399	444
Tyrell County	30	55.6	15.3	21.3	365	430
Washington County	82	45.6	12.0	14.7	358	393

Table 16., cont'd.

Southeast Technical Assistance Center

School System	Number Tested	Percent Tested	Verbal Yield	Math Yield	Verbal Score	Math Score
Bladen County	174	49.7	13.3	14.3	342	379
Brunswick County	231	45.9	14.7	14.7	364	419
Carteret County	251	40.3	13.3	13.3	304	437
Columbus County	160	31.9	8.7	11.2	364	410
Whiteville City	92	58.6	18.5	20.8	389	413
Craven County	382	51.8	17.4	20.8	402	441
Cumberland County	1443	54.7	17.3	11.7	387	430
Durham County	230	44.8	14.8	17.4	378	417
Greene County	81	35.7	11.4	13.6	337	436
Jones County	25	28.4	7.5	9.6	359	402
Lenoir County	167	41.4	12.2	15.5	377	425
Kinston City	157	57.7	16.9	21.4	375	422
New Hanover County	738	41.7	13.8	15.3	403	443
Onslow County	412	44.1	14.4	18.4	402	453
Pamlico County	59	48.0	15.7	18.3	397	429
Pender County	131	37.8	11.2	13.4	377	413
Robeson County	531	44.0	10.8	14.3	348	395
Sampson County	203	49.0	13.0	15.1	359	384
Clinton City	111	74.0	19.3	23.6	364	392
Wayne County	430	50.2	15.1	19.4	387	432
Goldston City	125	51.2	14.0	17.0	362	394

Table 16., cont'd.

Raleigh Area Office

School System	Number Tested	Percent Tested	Verbal Yield	Math Yield	Verbal Score	Math Score
Alamance County	325	51.5	15.0	19.3	383	424
Burlington City	267	67.9	22.7	28.2	400	450
Caswell County	96	41.0	11.3	13.5	369	397
Chatham County	182	48.7	15.2	18.7	388	431
Durham County	771	78.2	29.2	34.6	424	466
Durham City	211	65.3	14.6	18.2	334	368
N.C. School of Science and Math	333	100.0	34.0	40.8	543	619
Franklin County	142	47.2	17.0	18.2	416	431
Farmington City	25	31.6	8.3	9.8	357	387
Granville County	164	40.3	12.1	15.0	381	423
Guilford County	1001	61.1	21.1	26.0	407	455
Greensboro City						
High Point City						
Harnett County	265	39.2	12.7	13.5	364	437
Johnston County	356	41.8	13.9	17.9	400	457
Lee County	178	51.1	16.3	19.6	391	430
Nash County	359	52.0	16.6	20.8	392	440
Rocky Mount City	132	45.8	12.6	17.2	365	425
Orange County	168	37.1	19.0	23.1	410	443
Chapel Hill City	328	87.5	42.1	50.6	489	547
Person County	153	49.3	15.3	17.9	389	418
Randolph County						
Asheboro City	132	60.3	19.5	24.3	394	442
Rockingham County	72	37.3	13.7	16.3	420	462
Eden City	125	51.4	16.7	21.4	395	430
W. Rockingham City	91	40.4	13.0	16.8	363	437
Reidsville City	108	51.7	14.4	18.1	367	410
Vance County	170	40.2	12.3	14.4	383	414
Wake County	2740	75.0	27.7	35.4	421	483
Warren County	71	41.5	9.2	12.5	333	380
Wilson County	310	47.0	14.7	19.0	381	443