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ABSTRACT

This report presents the findings from South Carolina's seventh statewide computer survey. The survey solicited information on computer equipment and software, and dealt with such issues as the instructional and administrative uses of computers and the availability and use of Software Evaluation Exchange Dissemination (SEED) software reviews and a BSAP-correlated listing of recommended software. A seven-question school form and a five-question district form, as well as computer equipment forms, were distributed to all South Carolina public school principals and district superintendents. Major findings of the survey include: (1) all school district offices had computers, of which 38% were IBM computers; (2) 61% of school faculty members were rated as being computer literate by their principals; and (3) the rate of growth in the total number of computers has slowed down slightly over the past 2 years. All results are presented in narrative and tabular formats. An addendum to the survey provides information on integrated learning systems and other major instructional computing projects in the state. (DB)

REPORT ON 1989-90

STATEWIDE COMPUTER SURVEY

Office of Instructional Technology
South Carolina Department of Education
South Carolina ETV

SOUTH CAROLINA ETV NETWORK

1989-90 STATEWIDE COMPUTER SURVEY REPORT

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INTRODUCTION

The 1989-90 Computer Survey is the seventh statewide survey conducted by the Office of Instructional Technology, State Department of Education. This survey was conducted in April 1990.

Tables, charts, and graphs are provided to illustrate results of the 1989-90 survey. Trends and other descriptive statistics are provided to assist educators with decision-making in the use of technology.

SURVEY DESIGN

The questionnaire inventoried computer equipment and software, and dealt with such issues as the instructional and administrative uses of computers and the availability and use of SEED (Software Evaluation Exchange Dissemination) software reviews, and a BSAP-correlated listing of recommended software. A seven-question school form and a five-question district form, as well as computer equipment forms, were distributed to all South Carolina public school principals and district superintendents.

RESPONSE RATE

A total of 1,094 school and 94* district forms were received, for response rates of 99 percent and 100 percent, respectively.

SURVEY HIGHLIGHTS

Major findings of the survey include the following.

Districts

- All school district offices had computers.
- 38 percent of the total computers used at the district level were IBM computers.
- The total rate of change in the number of computers at the district level was 180 percent in 1985, 83 percent in 1986, 61 percent in 1987, 28 percent in 1988, and -.24 percent in 1989.
- The largest percentage (31 percent) change in the number of computers used belonged to NCR.
- 15 percent of all printers were laser printers.
- The percent of responding school district offices (86) using BSAP software correlation books was 92 percent.

Schools

- Over 98 percent of public schools had computers for either instructional or administrative use.
- Over 98 percent of the schools having at least one computer (1,085) had at least one printer (1,078).
- 61 percent of school faculty members were rated as being computer-literate by their principals.
- The computer-student ratio for all computers dropped by 12 percent, from 1:17 to 1:15, from 1988 to 1989.
- The rate of growth in the total number of computers has slowed down slightly over the past two years (from 23 percent in 1988 to 18 percent in 1989).
- IBM continued to be the second-largest computer supplier to schools. The largest rate of change in the number of computers belonged to NCR (more than 57 percent over last year).
- The percent of responding schools (706) using BSAP software correlation books was 72 percent.
- Schools indicated that the rate of computer-literate certified faculty increased 45 percent, 51 percent, 57 percent, and 61 percent during 1986, 1987, 1988, and 1989, respectively.

**Includes S.C. Department of Youth Services, S.C. School for the Deaf and Blind, and S.C. Opportunity School.*

SURVEY RESULTS

I. April 1990 Computer Equipment Inventory

A. District Office Survey of Computers and Printers

1. Computers

A total of 2,468 computers, comprising over 37 brands, and 1,501 printers were located in school district offices. The number of computers reported by the districts is provided in the table below.

Year	Number of Computers	Number of Districts
1989-90	2,468	94*
1988-89	2,474	93*
1987-88	1,931	92
1986-87	1,199	92
1985-86	656	92
1984-85	234	88
1983-84	323	73

The top-four computer brands in school district offices, their quantities, and percentage change over the last year are listed below.

1989 Computer Survey of School District Offices

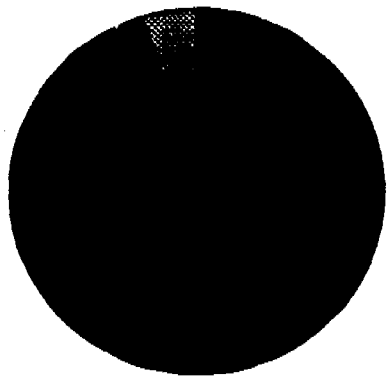
Brand of Computer				Percent of All Computers			Percent Change		
	1989	1988	1987	1989	1988	1987	1989	1988	1987
Apple	756	1,072	743	31	43.3	38.5	-29	44	41
IBM	949	772	559	38	31.2	29.0	23	38	63
Radio Shack	52	81	77	2	3.3	4.0	-36	5	-3
NCR	318	242	170	13	9.8	8.8	31	42	73
Other	393	307	382	16	12.4	19.7	28	-20	150
Total	2,468	2,474	1,931	100	100	100	-.24	28	61

The IBM computer had the highest percentage (38) of school district inventory.

** Includes S.C. Department of Youth Services, S.C. School for the Deaf and Blind, and S.C. Opportunity School.*

2. Printers

The breakdown of printers is illustrated by the following chart and table.



Type of Printer	Total	Percentage of Total
Dot Matrix	855	57
Letter Quality	360	24
Laser	219	15
Other	67	4
Total	1,501	100

Fifty-seven percent of the printers were dot matrix. Table 4 on page 12 illustrates that over 55 percent of the districts had 10 or more printers.

B. School Survey of Computers and Printers

1. Computers

The number of schools having computers has increased substantially over the past five years. Over the past two years, the total number of computers in schools increased from 36,599 to 43,092, a 17.74-percent increase.

Number of Schools with Computers and Total Computers

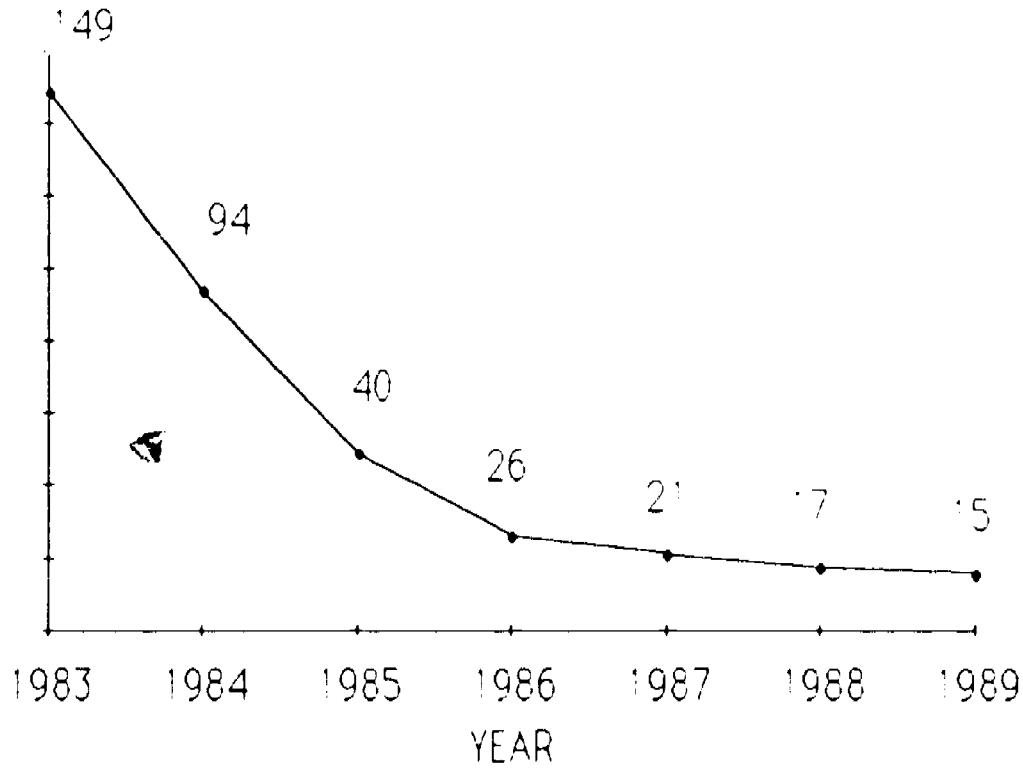
Years	Number of Schools with Computers	Percent Change Over Last Year	Total Number of Computers	Percent Change Over Last Year
1989-90	1,085	-.40	43,092	17.74
1988-89	1,089	1.40	36,599	22.95
1987-88	1,074	1.26	29,766	23.81
1986-87	1,061	- 0.09	24,041	60.71
1985-86	1,062	17.09	14,959	133.73
1984-85	907	21.10	6,400	57.87
1983-84	749	--	4,054	--

The ratio of computers to students as reported by the schools, is illustrated in the following table. The ratio of computers used in grades K-12 for instruction improved to 1:17, compared to the past year's ratio of 1:21. This ratio has been decreasing steadily over the past five years. See the following table and graph.

Ratio of Computers to Students

	1989-90	1988-89	1987-88
Total Computers*			
Grades K-12	1:15	1:17	1:21
Grades K-7	1:17	1:20	1:25
Grades 8-12	1:12	1:14	1:17
Instructionally Used Computers			
Grades K-12	1:18	1:21	1:25
Grades K-7	1:21	1:24	1:29
Grades 8-12	1:14	1:17	1:20
180-Day Student Enrollment			
Grades K-12	633,662	633,345	632,044
Grades K-7	412,865	406,453	398,489
Grades 8-12	220,797	226,892	236,555

1983-1989 Computer-To-Student Ratio
(Grades K-12 for Total Computers)



* *Total computers includes those used for administration and instruction.*

The number of computers used in the schools by major brand, percent of all computers, and percent change over last year are given in the table below.

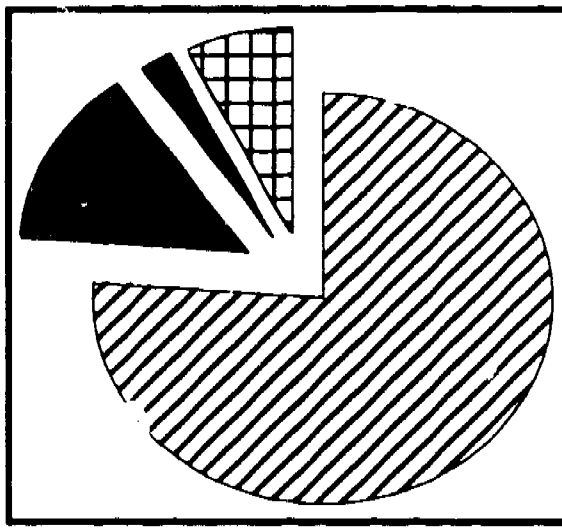
Top-Five Computer Brands Used in Schools

Brands of Computers				Percent of All Computers			Percent Change		
	1989	1988	1987	1989	1988	1987	1989	1988	1987
Apple	23,379	20,833	17,386	54.2	57.0	58.4	12	20	18
IBM	8,916	6,726	4,933	21.0	18.0	16.5	33	36	38
Radio Shack	2,446	2,371	2,381	5.6	7.0	8.0	-3	-4	15
Atari	1,702	1,422	984	3.9	4.0	3.3	20	45	99
NCR	1,545	982	563	3.5	2.6	2.0	57	74	52
Other	5,104	4,265	3,519	11.8	[illegible]	11.8	20	23	37
Total	43,092	36,599	29,766	100.0	100.0	100.0	18	23	24

Fifty-four percent of the computer equipment in the schools was by Apple. NCR had the largest increase from last year (57 percent). The overall rate of increase in computers has slowed down somewhat in comparison to last year (18 percent, down from 23 percent). Table 5 on page 13 shows the number of computers, brand/model, and their designated use in schools. Table 6 on page 14 shows that .28 percent of the schools had one computer. Furthermore, 72 percent of the schools with computers had 21 or more computers.

2. Printers

Printers are subdivided into four broad categories, distributed as follows.



Printer Type	Quantity 1989	Quantity 1988	Percent of Total 1989	Percent of Total 1988
Dot Matrix	10,581	8,866	76.6	76.8
Letter Quality	1,887	1,714	13.7	14.8
Laser	308	136	2.2	1.2
Other	1,033	837	7.5	7.2
Total	13,809	11,553	100.0	100.0

Seventy-seven percent of all printers were dot matrix. Table 8 on page 15 shows the distribution and use of printers in the schools. Table 9 on page 15 illustrates the frequency distribution of the schools' printers. Only .93 percent of the schools had one printer, and 46 percent of the schools had10 or more.

II. Instructional and Administrative Uses, Hardware, Software, and Funding

A. District Office Computer Survey

Ninety-three school districts reported having at least one computer. Other technologies, such as videodisc and data communication were used by 15 percent and 69 percent of the districts, respectively. At the district office level, over 74 percent of all computers and over 80 percent of all printers were allocated to administrative use.

1. Technologies Used in Education

District Computer Survey

(Total Districts Responding: 94*)
Total Yes (Percent)

Technology Use	1989	1987
Microcomputers	93 (100%)	91 (98%)
Videodiscs	14 (15%)	6 (11%)
Data Communications	64 (69%)	23 (53%)

2. Reference Sources for Instructional Software Purchased by School District Office

Computer consultants and other school district administrative office staff purchased software frequently, using as references the BSAP-correlated software listings and SEED reviews distributed by the Office of Instructional Technology. A majority of school districts used the BSAP software reference source and the SEED reviews in software purchase decisions, as indicated by the following two tables.

Table i-1

Number of School Districts Acquiring Software Using the Software/BSAP Correlation Books (86 Districts Responding)

Subject	Total Percent (A & B)	A To a Large Extent	B To Some Extent	C Not At All
Language Arts	68	7	57	22
Mathematics	70	7	59	20
Science	66	4	57	23
Other Reference	52	6	42	28

**Includes S.C. Department of Youth Services, S.C. School for the Deaf and Blind, and S.C. Opportunity School.*

Table i-2

Use of SEED Software Reviews by School Districts

Questions	Total Yes	Total No	Percent Yes
Did your district receive copies of the SEED software reviews?	88	5	95%
Do you have access to a copy of the SEED software reviews?	89	4	96%
Has anyone used the SEED software reviews in selecting software?	54	39	58%

B. School Computer Survey

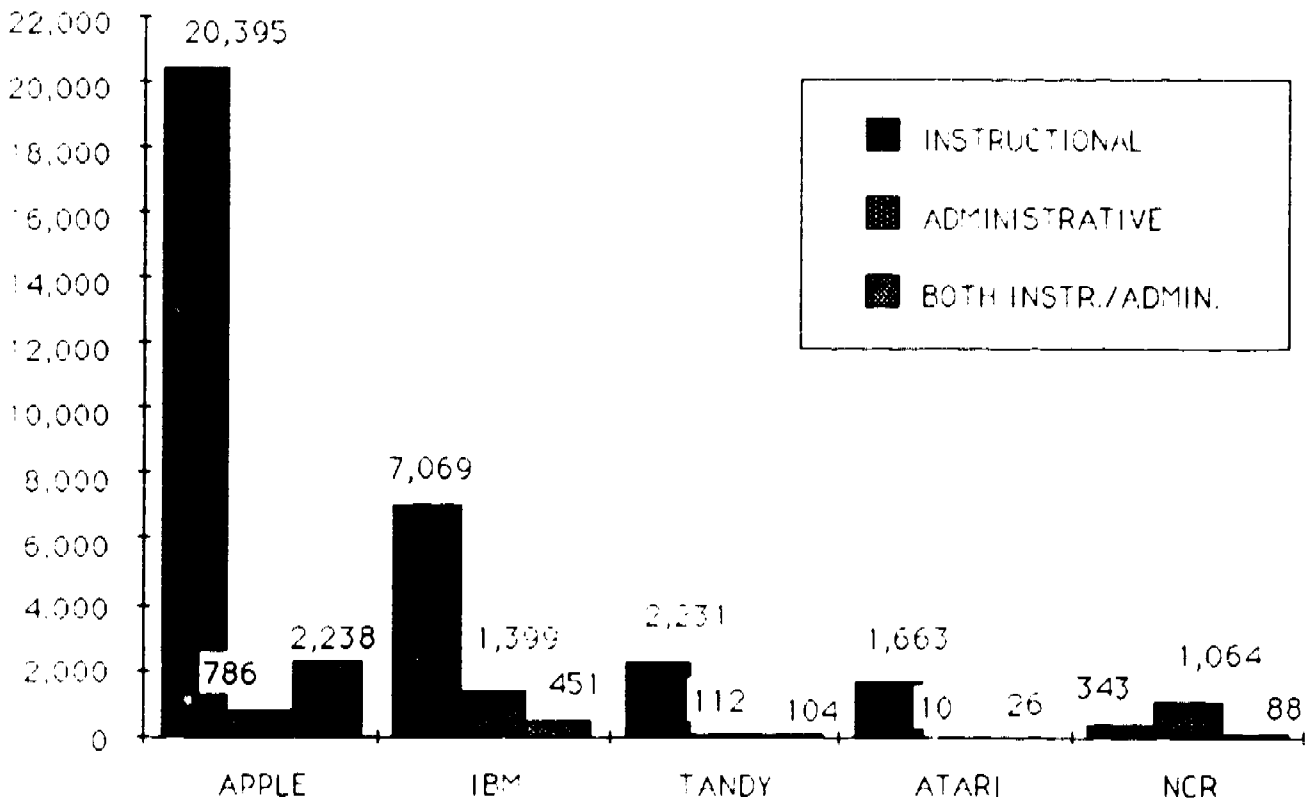
Almost all schools (97 percent) had at least one microcomputer. The vast majority were used for instructional purposes (83 percent). Other technologies such as data communications were used in 20 percent of schools, videodiscs in 8 percent, and robotics in 5 percent.

1. Technologies Used in Education

School Computer Survey
(Total Schools Responding: 1,094)

	Number of Schools Responding Yes			
Technology Use	1989-90	Percent Yes	1988-89	Percent Yes
Microcomputers	1,058	(97%)	1,077	(98%)
Robotics	60	(5%)	44	(4%)
Videodiscs	87	(8%)	87	(8%)
Data Communications	223	(20%)	154	(14%)

Number of Computers by Type Used By Schools During 1989-90



2. Staff Development

The number of school faculty considered to be computer literate has risen substantially, from 45 percent three years ago to 61 percent this year. Forty-two percent of school faculty members used microcomputers for instruction.

	1989	1988	1987	1986
1. Number of computer-literate certified faculty *(From total of 38,642 in Fall 1989 Reference: Selected Facts by MIS, SDE.)*	23,537 (61%)	21,860 (57%)	19,369 (51%)	17,743 (45%)
2. Number of faculty members who use computers for instruction *(From total of 38,642 in Fall 1989 Reference: Selected Facts by MIS, SDE.)*	16,103 (42%)	14,837 (39%)	13,104 (35%)	11,278 (29%)

References for Acquiring Software

1. Use of BSAP Software Correlation Books

Microcomputer software/BSAP correlation books have been published by the Office of Instructional Technology since May 1984. They serve as a reference on available software programs that address specific objectives for students in grades 1-8 in three BSAP curriculum area--language arts, mathematics, and science. The software/BSAP correlation books provide a consolidated, yearly updated listing of recommended microcomputer software programs available in the software market. For further information, contact: ITEC, S.C. Department of Education, Columbia, South Carolina 29201.

The data in Table i-4 is derived from Table i-3. Table i-4 indicates that the largest use of the software/BSAP correlation books was in acquiring mathematics software (71.7 percent of the respondents). The use of this publication in science software selection increased from 61.3 last year to 61.4 percent. The number of schools using BSAP correlation books in science increased from 578 to 580.

Table i-3

Number of Schools Acquiring Software Using the Software/BSAP Correlation Books

Subject	Total	To a Large Extent	To Some Extent	Not At All
Language Arts	985 (100%)	140 (14.2%)	548 (55.6%)	297 (30.2%)
Mathematics	985 (100%)	151 (15.3%)	555 (56.4%)	279 (28.3%)
Science	945 (100%)	86 (9.1%)	494 (52.3%)	365 (38.6%)

Note that only a maximum of 985 (89.3%) schools answered this item in the questionnaire.

Table i-4

Summary Data on Number of Schools Using BSAP Book in Acquiring Software

Subject	From Some to a Large Extent 1989-90	1988-89	1987-88
Language Arts	688 (69.8%)	713 (71.7%)	700 (71.7%)
Mathematics	706 (71.7%)	734 (73.3%)	706 (72.3%)
Science	580 (61.4%)	578 (61.3%)	505 (55.7%)

2. Use of SEED Project Reviews as a Software Reference

The Software Evaluation Exchange Dissemination (SEED) Project is a collaborative effort coordinated by the Southeastern Educational Improvement Laboratory (SEIL) and the state departments of education in Alabama, Florida, Georgia, Mississippi, New Jersey, North Carolina, and South Carolina. The SEED software evaluation process has been designed and implemented by staff members of participating state education agencies.

Beginning in September 1985, each state selected and trained educators as software reviewers for the evaluation of K-12 instructional software using a standard SEED evaluation form and process. Each title is evaluated by three persons from which a single review or annotation is compiled. A total of 809 SEED Software Annotations had been provided by May 1990 to superintendents, computer coordinators, principals, and media specialists.

Of the 1,094 schools responding to the current survey, 1,002 indicated that they received the SEED project software reviews (PSR) and 1,009 schools revealed that they had access to a copy. Another 676 (62 percent) of those who had access to SEED-PSR actually used it in selecting software.

Use of SEED Software Reviews by Schools

Questions	Total Yes	Total No	Percent Yes
Did your school receive copies of the SEED software reviews?	1,002	92	92%
Do you have access to a copy of the SEED software reviews?	1,009	85	92%
Has anyone used the SEED software reviews in selecting software?	676	418	62%

Table 1

Report on the Use of Computers in Districts by Use andBrand/Model

Computer Brand/Model	Instructional Quantity	Administrative Quantity	Instr./Admin. Quantity	Total Quantity
Apple IIgs	24	47	34	105
Apple (II/II+/IIc/IIe)	281	131	30	443
AST	5	170	33	208
Atari	0	7	0	7
Atari (800/1200)	0	5	1	6
CCC (SLS-1)	0	4	0	4
Commodore 64	11	0	0	11
Campaq	0	9	1	10
Digital (Decmate II/Rain)	0	1	0	1
Epson	0	2	0	2
Hayes	0	3	0	3
IBM (34/ 36/38)	0	1	0	1
IBM (34/36/38)	0	22	2	24
IBM Displaywriter	1	14	0	15
IBM PC	21	245	7	273
IBM PCjr	10	4	8	22
IBM PS/2 25	40	287	10	337
IBM PS/2 30	5	147	2	154
IBM PS/2 (50/70/80)	1	118	4	123
Kaypro	1	0	0	1
Lanier	0	7	0	7
Leading Edge	0	17	4	21
Monroe	0	4	0	4
NCR	1	288	33	318
NEC	0	2	0	2
Northgate	0	1	0	1
Softek	1	28	0	29
Sperry	0	5	3	8
Tandy1000 (SX/TX/SL/TL)	14	10	0	24
Tandy (3000/4000/5000)	0	11	0	11
Texas Instructments	0	1	0	1
TRS-80 (I-IV)	0	16	0	16
TRS-89 Color	0	1	0	1
WICAT	1	0	0	1
Xerox	0	3	0	3
Zenith	0	20	0	20
Other IBM Compatibles	25	209	17	251
Totals	442*	1,840*	189*	2,468*

**Note: A few schools entered the same equipment items in more than one column.*

Table 2

Frequency of Computers in Districts

No. of Computers in Districts	Districts with Computers 1989-90 Number	Percent	1988-89 Number	Percent
1	0	0	3	3.23
2	6	6.45	7	7.53
3	3	3.23	4	4.30
4	6	6.45	5	5.38
5	6	6.45	9	9.68
6	4	4.30		4.30
7	6	6.45	7	7.53
8	2	2.15	1	1.08
9	3	3.23	5	5.38
10	4	4.30	4	4.30
11	1	.08	2	2.15
12	3	323	2	2.15
13	3	3.23	2	2.15
14	2	2.15	3	3.23
15	2	2.15	3	3.2
16	3	3.23	2	2.15
17	2	2.15	1	1.08
18	1	1.08	1	1.08
19	1	1.08	1	1.08
20	1	1.08	1	1.08
21+	35	36.56	26	27.96
Total Districts	94 *	100.00	93	100.00
Districts with 10 or more computers:	57	61.29	48	51.61

**Includes S.C. Department of Youth Services, S.C. School for the Deaf and Blind, and S.C. Opportunity School.*

Table 3

Report on the Use of Printers in Districts by Use andBrand/Model

Printer Brand/Model	Instructional Quantity	Administrative Quantity	Instr./Admin. Quantity	Total Quantity
Apple IIgs	24	47	34	105
Dot Matrix Printer	126	641	118	855
Laser Printer	3	188	28	219
Letter Quality Printer	6	326	28	360
Other Pinters	10	57	0	67
Totals	145	1,212	174	1,501

Table 4

Frequency of Printers in Districts

No. of Printers in Districts	Districts with Printers 1989-90 Number	1989-90 Percent	1988-89 Number	1988-89 Percent
1	1	1.07	3	3.23
2	7	7.53	8	8.60
3	5	5.38	4	4.30
4	6	6.45	6	6.45
5	4	4.30	11	11.83
6	7	7.53	9	9.68
7	6	6.45	3	3.23
8	3	3.23	4	4.30
9	2	2.15	5	5.38
10	4	4.30	4	4.30
11	2	2.15	1	1.08
12	6	6.45	6	6.45
13	4	4.30	1	1.08
14	2	2.15	0	0.00
15	3	3.23	1	1.08
16	1	1.08	4	4.30
17	2	2.15	2	2.15
18	1	1.08	2	2.15
19	2	2.15	1	1.08
20	0	0.00	1	1.08
21 +	26	26.88	17	18.28
Total Districts	94*	100.00	93	100.00
Districts with 10 or more computers:	52	55.91	40	43.01

**Includes S.C. Department of Youth Services, S.C. School for the Deaf and Blind, and S.C. Opportunity School.*

Table 5

Report on the Use of Computers in Schools
by Use andBrand/Model

Computer	Total	Instructional			Administrative			Instr./Admin.		
Brand/Model	Qty.	Qty.	Dists.	Schs.	Qty.	Dists.	Schs.	Qty.	Dists.	Schs.
Apple (II/II+/IIc/IIe)	19,473	17,236	113	979	591	48	318	1,663	37	353
Apple IIgs	3,422	2,872	73	477	116	13	83	476	22	158
Apple (III/Lisa/Mac)	484	287	37	90	79	18	54	99	20	48
AST	18	6	3	3	6	4	5	6	1	1
AT&T	13	2	2	2	9	3	3	2	1	1
Atari (400/600)	192	192	12	24	0	0	0	0	0	0
Atari (800/1200)	381	360	18	27	0	0	0	18	3	4
Atari ST	1,129	1,111	26	68	10	3	8	8	2	4
Burroughs	1	1	1	1	0	0	0	0	0	0
CCC (SLS-1)	1,171	1,097	27	87	7	3	7	87	2	4
Commodore Vic 20	53	52	20	28	0	0	0	1	1	1
Commodore 64	664	636	31	93	2	2	2	34	1	7
Commodore 128	33	32	4	9	0	0	0	1	1	1
Commodore Amiga	7	7	1	2	0	0	0	0	0	0
Compaq	5	4	1	1	1	1	1	0	0	0
Digital (Dec.It/Rain)	107	75	24	29	20	13	18	12	8	10
Epson	37	34	5	5	3	3	3	0	0	0
Everex	14	7	2	2	7	2	2	0	0	0
Franklin Ace 1000	35	34	6	10	1	1	1	0	0	0
Franklin Ace 2000	1	1	1	1	0	0	0	0	0	0
IBM (34/36/38)	123	70	4	15	51	17	34	3	1	3
IBM Displaywriter	113	100	6	8	9	5	9	4	4	4
IBM PC	3,218	2,561	51	164	502	45	243	148	14	46
IBM PCjr	887	838	39	107	30	8	14	18	5	14
IBM PS/2 25	2,758	2,346	55	178	259	27	88	152	11	37
IBM PS/2 30	1,432	993	31	78	336	41	152	114	5	25
IBM PS/2 (50/70/80)	385	161	9	23	212	40	117	12	5	12
Kaypro	97	83	6	6	12	6	6	2	1	1
Lanier	181	176	10	12	4	1	2	1	1	1
Laser (128/EX)	268	243	31	48	10	6	9	15	9	11
Leading Edge	155	116	16	18	33	11	19	6	4	5
Monroe	10	2	2	2	8	2	2	0	0	0
NCR	1,545	343	11	52	1,064	92	558	88	11	28
NEC	24	6	3	3	15	8	8	3	3	3
Northgate	1	0	0	0	1	1	1	0	0	0
Scois	41	19	14	18	9	5	9	13	11	13
Softek	212	118	4	12	83	11	27	11	4	5
Sony	7	7	2	2	0	0	0	0	0	0
Sperry	17	1	1	1	16	10	13	0	0	0
Tandy 1000 (SX/TX/SL/TL)	1,101	981	40	76	66	16	27	55	8	13
Tandy (3000/4000/5000)	51	20	7	12	26	8	22	5	3	5
Texas Instruments	258	249	28	52	9	1	1	0	0	0
TRS-80 (I-IV)	1,044	988	53	122	19	10	15	37	8	12
TRS-80 Color	250	242	20	36	[illegible]	0	1	7	2	3
Wicat	397	387	8	15	6	3	6	4	3	3
Xerox	32	26	2	3	4	1	2	2	1	1
Zenith	65	51	14	18	9	4	5	5	2	2
Other IBM Compatibles	1,105	531	38	86	476	62	166	98	11	24
Other Apple Compatibles	74	61	20	26	9	5	5	4	2	2
Totals	43,092*	35,765*			4,131*			3,214*		

**Note: A few schools entered the same equipment items in more than one column.*

Table 6

Frequency of Computers in K-12 Schools

No. of Computers in Districts	Schools with Computers 1989-90 Number	1989-90 Percent	1988-89 Number	1988-89 Percent
1	3	0.28	5	0.46
2	4	0.37	4	0.37
3	7	0.65	11	1.01
4	9	0.83	12	1.10
5	6	0.55	15	1.38
6	12	1.11	3	0.28
7	12	1.11	19	1.74
8	15	1.38	21	1.93
9	13	1.20	18	1.65
10	20	1.84	15	1.38
11	21	1.94	39	3.58
12	12	1.11	19	1.74
13	16	1.47	18	1.65
14	19	1.75	24	2.20
15	17	1.57	22	2.02
16	23	2.12	31	2.85
17	18	1.66	30	2.75
18	26	2.40	37	3.40
19	22	2.03	34	3.12
20	23	2.12	25	2.30
21+	787	72.53	687	63.09
Total Schools	1,085	98.37	1,089	98.55
Schools with 10 or more computers:	1,004	92.19	981	90.08

Table 7

Numbers of Schools with Computers by School Level

School Level	Schools with Computers 1989-90 Number	1989-90 Percent	1988-89 Number	1988-89 Percent
Elementary	643	59.26	646	59.32
Middle	148	13.64	147	13.50
Secondary	247	22.76	249	22.87
Vocational	47	4.33	47	4.32
Totals	1,085	98.37	1,089	98.55

Table 8

Report on the Use of Printers in Schools by Use andBrand/Model

Printer	Total	Instructional			Administrative			Instr./Admin.		
Brand/Model	Qty.	Qty.	Dists.	Schs.	Qty.	Dists.	Schs.	Qty.	Dists.	Schs.
Dot Matrix	10,581	6,979	110	813	2,173	92	735	1,462	49	367
Laser Printer	308	116	28	65	140	42	124	53	18	43
Letter Quality	1,887	1,034	65	199	652	75	338	206	18	81
Other	1,033	653	54	155	258	43	125	125	15	41
Totals	13,809*	8,782*			3,223*			1,846*		

Table 9

Frequency of Printers in K-12 Schools

No. of Printers in Schools	Schools with Printers 1989-90 Number	1989-90 Percent	1988-89 Number	1988-89 Percent
1	10	0.93	17	1.59
2	49	4.55	71	6.63
3	78	7.24	108	10.08
4	75	6.96	102	9.52
5	80	7.42	105	9.80
6	78	7.24	85	7.94
7	77	7.14	73	6.82
8	73	6.77	52	4.86
9	54	5.01	58	5.42
10	55	5.10	51	4.76
11	52	4.82	34	3.17
12	29	2.69	31	2.89
13	28	2.60	31	2.89
14	33	3.06	28	2.61
15	30	2.78	20	1.87
16	21	1.95	10	0.93
17	26	2.41	18	1.68
18	14	1.30	11	1.03
19	16	1.48	17	1.59
20	14	1.30	12	1.12
21+	186	17.25	137	12.79
Total Schools	1,078	97.73	1,071	96.92
Schools with 10 or more printers:	504	46.75	400	37.35

Table 10

Number of Schools with Printers by School Level

School Level	Schools with Printers 1989-90 Number	1989-90 Percent	1988-89 Number	1988-89 Percent
Elementary	641	59.46	633	59.10
Middle	147	13.64	144	13.45
Secondary	244	22.63	247	23.06
Vocational	46	4.27	47	4.39
Total Schools	1,078	97.73	1,071	96.92

**Note: A few schools entered the same equipment items in more than one column.*

III. 1989-90 Statewide Computer Equipment Report by District

County	Area or District	No. of Schools	No. of Computers		No. of Printers	
			District	Schools	District	Schools
Abbeville	60	11	32	212	15	89
Aiken	01	36	43	1,877	31	403
Allendale	01	5	10	256	6	83
Anderson	00	1	-	52	-	16
	01	12	7	414	6	69
	02	7	7	230	6	48
	03	4	9	218	6	43
	04	6	4	133	4	31
	05	17	19	765	17	238
Bamberg	01	5	2	139	2	63
	02	4	3	148	9	45
Barnwell	00	1	-	8	-	8
	19	3	5	155	5	56
	29	3	5	111	2	29
	45	4	4	100	3	50
Beaufort	00	1	-	25	-	15
	01	19	50	618	39	232
Berkeley	01	36	102	1,839	48	532
Calhoun	01	5	10	198	4	111
Charleston	01	70	107	3,231	25	1,040
Cherokee	01	19	15	671	11	145
Chester	01	14	18	419	19	135
Chesterfield	01	16	31	635	31	203
Clarendon	00	1	-	73	-	25

III. 1989-90 Statewide Computer Equipment Report by District (continued)

County	Area or District	No. of Schools	No. of Computers		No. of Printers	
			District	Schools	District	Schools
Clarendon	01	3	9	114	8	7
	02	4	12	203	11	66
	03	3	3	47	4	7
Colleton	01	14	7	350	5	86
Darlington	01	26	56	974	37	344
Dillon	00	1	-	39	-	34
	01	3	2	69	2	21
	02	7	16	256	10	113
	03	3	7	113	7	185
Dorchester	00	1	-	84	-	38
	02	13	24	737	13	258
	04	6	10	150	10	72
Edgefield	01	7	5	315	7	68
Fairfield	01	9	17	190	12	31
Florence	01	19	27	898	18	291
	02	3	6	146	7	54
	03	8	16	258	12	41
	04	4	5	106	4	30
	05	3	7	138	6	64
Georgetown	01	18	49	657	37	134
Greenville	01	92	51	2,782	57	1,074
Greenwood	00	1	-	55	-	8
	50	13	66	595	47	217
	51	4	4	98	4	50

III. 1989-90 Statewide Computer Equipment Report by District (continued)

County	Area or District	No. of Schools	No. of Computers		No. of Printers	
			District	Schools	District	Schools
Greenwood	52	3	5	95	6	34
Hampton	01	7	8	252	7	65
	02	3	33	205	10	76
Horry	01	38	78	1,436	61	377
Jasper	01	3	9	163	14	35
Kershaw	01	18	44	894	30	217
Lancaster	01	22	29	567	26	251
Laurens	55	9	22	435	19	151
	56	7	11	242	8	77
Lee	01	8	13	367	12	106
Lexington	01	12	21	569	15	184
	02	16	79	545	23	214
	03	4	5	149	6	57
	04	5	16	140	5	23
	05	11	42	746	36	273
McCormick	01	3	4	204	4	45
Marion	00	1	-	51	-	27
	01	5	14	171	13	62
	02	6	12	285	12	79
	03	3	3	46	3	21
	04	2	2	43	2	15
Marlboro	01	11	14	358	14	79
Newberry	01	17	23	307	23	107
Oconee	01	23	22	782	15	245

III. 1989-90 Statewide Computer Equipment Report by District (continued)

County	Area or District	No. of Schools	No. of Computers		No. of Printers	
			District	Schools	District	Schools
Orangeburg	00	2	-	90	-	26
	01	3	2	117	2	36
	02	2	2	75	2	12
	03	9	6	281	7	66
	04	3	4	121	3	38
	05	10	44	785	32	178
	06	2	4	25	1	12
	07	2	5	71	5	10
	08	2	2	62	2	37
Pickens	01	28	29	744	26	359
Richland	01	51	162	2,194	110	878
	02	14	58	862	46	314
Saluda	01	4	6	134	3	41
Spartanburg	00	3	-	136	-	68
	01	9	6	204	3	59
	02	10	21	440	22	135
	03	7	12	244	10	139
	04	4	8	181	7	75
	05	7	13	229	9	93
	06	14	13	362	13	70
	07	15	340	834	12	195
Sumter	00	1	-	46	-	15
	02	14	41	444	43	118
	17	9	20	395	17	175

III. 1989-90 Statewide Computer Equipment Report by District (continued)

County	Area or District	No. of Schools	No. of Computers		No. of Printers	
			District	Schools	District	Schools
Union	01	12	17	379	12	110
Williamsburg	01	14	39	662	36	153
York	01	6	15	268	13	109
	02	7	37	476	31	161
	03	21	26	705	16	263
	04	4	10	234	8	68
Felton Lab	04	1	-	12	-	7
John de la Howe Schools	05	2	-	22	-	12
Wil Lou Gray Opportunity School	06	1	56	94	33	44
S.C. School for Deaf and Blind	07	5	21	32	33	14
Youth Services	08	3	7	169	2	65
Totals		1,103	2,468	43,092	1,501	13,809

PROFILE OF INSTRUCTIONAL AND ADMINISTRATIVE USES OF COMPUTERS AND FUTURE PLANS BY SCHOOL DISTRICT

This section provides an overview of the instructional uses of computers in the schools--the state's 94* school districts--by grade and brand/model of equipment. A brief description of future uses is also included. The number of computers and printers employed instructively, administratively, or both is identified by brand/model.

This information is recommended as a reference for school district administrators and other educators desiring to compare or explore the applications of computers in the state's school districts.

Explanation of Terms:

Instructional uses of computers in district schools

District/Contact: Provides the name and address of the district contact person preparing the input for the survey form.

Instructional Uses: Lists the subject areas in which computers are used. Use as a "tool" equates with uses of word processing, database management, or for spreadsheets.

Grade: Indicates the grade level or grade range in which each brand/model is employed for various instructional uses.

Brand/Model: Identifies the computers used at each grade level for each particular instructional use.

Descriptions: Provides additional information on use by broadgrade range, i.e., elementary, middle/junior, and secondary schools.

Future Plans: Provides a brief description of future applications of computers by grade level and includes remarks on projected purchases and training plans.

**Includes S.C. Department of Youth Services, S.C. School for the Deaf and Blind, and S.C. Opportunity School.*

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Abbeville Mrs. Lee R. Murphy Director of Instruction P.O. Box 520 Abbeville, SC 29620 Phone: 459-5427	Computer Literacy	K-12	Apple IIe/gs
	Computer Programming	11-12	Apple IIe
	Reading/Language	K-12	Apple IIe/gs/CCC
	Science	K-12	Apple IIe/gs
	Mathematics	K-12	Apple IIe/gs/CCC
	Social Studies	K-12	Apple IIe/gs
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	K-12	Apple IIe/gs
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe

Description of Computer Use

K-12 students have access to Apple IIe/gs computers to supplement regular classroom work. The computers are in teachers' classrooms, libraries, and high-school labs. Grades 5-8 have a computer literacy program, using LOGO as the language. Computers are used for instruction in high-school business classes, vocational classes, computer math classes, adult-education computer classes, and some remedial math classes. Gifted/talented classes in grades 3-7 use computers in their curriculum.

School and District Office Computers: Future Plans

- Install more computers and printers (especially for student use).
- Possibly expand CCC for compensatory/remedial students.
- Computerize district libraries with appropriate software.
- Install/expand Pathways OSIRIS networks.
- Network district office computers.
- Increase school participation in district office Macintosh for desktop publishing.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	212	189	22	3	89
District Office	32	18	14	0	15

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Aiken	Computer Literacy	12	Apple IIe/TRS-80 Model 4
Dalcho E. Stanley	Computer Programming	9-12	Apple IIe/TRS-80 Model 4
Director, Instructional Technology	Reading/Language	1-12	Apple IIe
P.O. Box 1137	Science	1-5	Apple IIe
Aiken, SC 29802-1137	Mathematics	1-12	Apple IIe
Phone: 648-1311	Social Studies	1-5	Apple IIe
	Tool (word processing, etc.)	1-12	Apple IIe/TRS-80 Model 4/Tandy 1000
	Business Education	9-12	Tandy 1000
	Vocational Education	6-12	TRS-80 Model 4/Tandy 1200/ IBM PS/25/PC's

Description of Computer Use

Keyboarding, word processing, spreadsheet, database, computer applications through business education are used at the secondary level. Industrial technology education uses CAD/CAMD. Elementary grades 1-5 uses CCC for computer-aided instruction and supplemental work. Computer-aided instruction for computer literacy and business education are offered at all high schools. Computers assist remedial/compensatory classes at all levels. Write to Read program used to develop reading/writing skills for beginners.

School and District Office Computers: Future Plans

- Further expansion of CCC program at all levels. Keyboarding at all levels. Require keyboarding at the high-school.
- Expansion of computerized library system for all schools.
- Expansion of networks at school level.
- Implement district-wide network to tie all schools to district office.
- Continue utilization of computers to teach keyboarding skills. Continue providing CCC instruction at all levels to better prepare students for today's demands for computer literacy.
- Expand the use of CCC for instruction in the reading and mathematics classes during the 1990-91 school year.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	1,877	1,559	167	151	403
District Office	43	0	16	27	31

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Allendale Dr. Steven Isom Director, Federal Programs and Technology P.O. Box 458 Allendale, SC 29810 Phone: 584-4603	Computer Literacy	1-12	IBM PC/PCjr/Apple IIe/NCR/CCC
	Computer Programming	9-12	IBM PC
	Reading/Language	1-12	IBM PC/PCjr/NCR/Apple IIe/ Apple IIgs/CCC-Atari
	Science	1-12	IBM PCjr/Apple IIe/gs
	Mathematics	1-12	IBM PCjr/Apple IIe/Standard/Apple IIgs/ CCC/Atari
	Social Studies	1-12	IBM PCjr/Apple IIe/Standard 286
	Foreign Language	9-12	IBM PCjr
	Tool (word processing, etc.)	Adult/1-12	IBM PCjr/NCR/CCC/Atari
	Business Education	9-12	IBM PCjr/NCR
	Vocational Education	9-12	IBM/IBM compatibles
	Other (Special Education)		IBM PC/PCjr/NCR/Standard 286

Description of Computer Use
IBM PC's and Apple [illegible] plus Ataris in the CCC lab are used in compensatory and remedial reading/math centers and in special education classrooms. IBM PC/PC jr's and Apple IIe's are available from the library for classroom use. IBM PC's are used in business/office skills instruction and staff development. Instructional computers were purchased with EIA and Chapter I funds. Atari workstations were purchased by CCC with local funds. IBM PC's, PC jr's and Compaq computers are used for district administration.

School and District Office Computers: Future Plans
- Installed CCC in all schools using Atari and IBM workstations.
- Use additional software for data improvement.
- Employ a full time Pathways director of technology for the 1990-91 school year.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	256	211	27	18	83
District Office	10	0	10	0	6

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Anderson 1 Perry M. Bullard Computer Coordinator P.O. Box 99 Williamston, SC 29697 Phone: 847-7344	Computer Literacy	9-10	Apple IIe/II+
	Computer Programming	11-12	Apple IIe
	Reading/Language	K-8	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	K-12	Apple IIe
	Tool (word processing, etc.)	K-12	Apple IIe
	Business Education	K-12	Apple IIe
	Vocational Education	K-12	Apple IIe

Description of Computer Use
Some elementary, K-4, or K-5 schools have IBM "Writing to Read" lab. All schools have Apple IIe computers and are members of MECC consortium.

School and District Office Computers: Future Plans
- Network labs in schools with computer-assisted instruction.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	414	362	47	5	69
District Office	7	0	7	0	6

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Anderson 2 John W. Eaves District Computer/Test Coordinator Route 2 Honea Path, SC 29654 Phone: 369-7364	Computer Literacy	1-12	Apple IIe/Apple IIgs
	Computer Programming	1-12	Apple IIe
	Reading/Language	1-12	Apple IIe/Apple IIgs
	Science	1-12	Apple IIe
	Mathematics	1-12	Apple IIe/Apple IIgs
	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	1-12	Apple IIe
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe

Description of Computer Use
Chapter I computers are used for math drill, practice, and tutoring in all elementary and middle schools. Computers are used in many compensatory and remedial classes for reading skills improvement. They are also used by gifted and talented in word processing, mathematics, science, problem solving, and programming. MECC software is available for use in all grades. Computers are used in middle school math labs.

School and District Office Computers: Future Plans
- Summer Computer Camp.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	230	210	15	5	48
District Office	7	1	6	0	6

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Anderson 3 Don R. Beck CMS/Pathways Coordinator P.O. Box 118 Iva, SC 29655 Phone: 348-6196	Computer Literacy	2-12	Apple IIe/IBM/PC
	Computer Programming	11-12	Apple IIe/IBM/PC
	Reading/Language	K-12	Apple IIe/IBM Compatibles
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Tool (word processing, etc.)	11-12	IBM
	Business Education	9-12	IBM
	Vocational Education	9-12	Apple IIe

Description of Computer Use
Elementary schools uses Apple IIe and MECC software They also use IBM PS/2's with "Writing to Read" program. Middle schools use Apple IIes computers with MECC software. A the secondary level, computers are used in the Governors Remediation Apple IIe lab, the IBM lab for word processing/programming/literacy, the IBM compatible lab with CSR and WICAT, and the Apple IIe lab for programming and literacy and also MECC.

School and District Office Computers: Future Plans
- Use state-adopted library software to computerize all libraries.
- Install PS/2 lab at middle school with WICAT software.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	218	109	35	49	43
District Office	9	0	9	0	6

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Anderson 4 Sarah Powell Pathways Coordinator P.O. box 545 Pendleton, SC 29670 Phone: 646-8000	Computer Literacy	1-12	Apple IIe/IIc/Commodore
	Computer Programming	9-12	IBM PC
	Reading/Language	1-12	Apple IIe/IIc/Commodore
	Science	1-12	Apple IIe/IIc
	Mathematics	1-12	Apple IIe/IIc/Commodore
	Social Studies	1-12	Apple IIe/IIc
	Tool (word processing, etc.)	1-12	Apple IIe/IIc/IBM PC
	Business Education	9-12	Apple IIe/IIc/IBM PC
	Vocational Education	9-12	Apple IIe/IIc/IBM PC

Description of Computer Use
Students and teachers use MECC software at all grades. Keyboarding, word processing, and computer science are taught at the secondary level. Special education teachers generate IEP's and related forms on computers. The EIA math lab is available for compensatory and remedial students at the secondary level. Computer-assisted instruction is provided in all Chapter I classes.

School and District Office Computers: Future Plans
- Purchase six additional computers for special education departments at each school.
- Purchase an additional computer related to instruction in EIA programs.
- Purchase a modem for each school.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	133	107	21	5	31
District Office	4	0	3	1	4

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Anderson 5 Patricia Spaid Coordinator, Mathematics/ Computers P.O. Drawer 439 Anderson, SC 29622 Phone: 260-5000	Computer Literacy	9-12	Apple IIe/IIc
	Computer Programming	11-12	Apple IIe/IIc
	Reading/Language	1-12	Apple IIe/IIgs/IBM PC
	Science	1-12	Apple IIe/IIgs/IBM PC
	Mathematics	1-12	Apple IIe/IIgs/IBM PC
	Social Studies	1-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-12	Apple IIe/IIgs/IBM PC
	Business Education	10-12	IBM PC
	Vocational Education	11-12	TRS-80
	Other (Writing to Read)	1	IBM PCjr

Description of Computer Use
Students at all levels have exposure to instructional uses of computers. Computers and software have been provided for each compensatory (EIA and Chapter I) and EIA remedial class. Networked labs are used for remediation in middle and high schools. High schools offer courses in keyboarding, word processing, and computer science. Two elementary schools have "Writing to Read" labs for first-graders.

School and District Office Computers: Future Plans
- Graduate courses in computer applications.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	765	564	86	53	238
District Office	19	0	15	4	17

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Bamberg 1	Computer Literacy	K-12	Apple IIe/IIgs
Mrs. Benny Lee Nicholson	Reading/Language	K-9	Apple IIe/IIgs
Bookkeeper/Pathways Coordinator	Science	K-12	Apple IIe/IIgs
P.O. Box 526	Mathematics	8-12	Apple IIe
Bamberg, SC 29003	Tool (word processing, etc.)	10-12	Apple IIe/IIgs
Phone: 245-3054	Business Education	10-12	IBM PC

Description of Computer Use
Students in elementary, middle, and junior high schools receive daily drill and practice in remedial/compensatory math and reading classes. Gifted and talented students receive enrichment and also drill and practice in basic skills. High-school students receive instruction in computer literacy, word processing, data, and spreadsheet instruction.

School and District Office Computers: Future Plans
- Network math labs at the junior high level using Apple IIgs and Macintosh computers.
- Network computer lab at the high school level using Macintosh/Apple IIgs computers.
- Maximize student learning in the fine arts, math, science, English, etc.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	139	131	11	7	63
District Office	2	0	2	0	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Bamberg 2	Computer Literacy	1-12	Apple IIe/IBM XT/Commodore 64
Courtney S. Woodfaulk	Computer Programming	10-12	Apple IIe/IBM XT
Coordinator, Computer Systems	Science	1-12	Apple IIe/IBM
P.O. Box 345	Mathematics	1-12	Apple IIe/IBM
Denmark, SC 29042	Social Studies	2-12	Apple IIe/IBM
Phone: 793-3346	Foreign Language	7-9	Apple IIe
	Tool (word processing, etc.)	4-12	Apple IIe/IBM
	Business Education	10-12	Apple IIe/IBM
	Vocational Education	10-12	IBM

Description of Computer Use
Prescription Learning in Chapter I/EIA remediation (grades 1-6) and EIA labs for reading and math (grades 10-12).

School and District Office Computers: Future Plans
- Network high and middle schools.
- Implement "Writing to Read" program in kindergarten and grade 1.
- Increase acquisition of MS-DOS machines for instruction (all levels).

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	287	270	20	7	45
District Office	3	0	3	0	9

District/Contact	Instructional Uses	School Computers Grade Span	Brand/Model
Barnwell 19	Computer Literacy	K-12	Apple IIe/Commodore
Anne B. Atkins	Computer Programming	9-12	Apple
Director, Special Programs	Reading/Language	K-12	Apple
P.O. Box 185	Science	4-12	Apple
Blackville, SC 29817	Mathematics	K-12	Apple
Phone: 284-2234	Social Studies	4-12	Apple
	Foreign Language	8	IBM
	Tool	10-12	IBM
	Business Education	9-12	IBM
	Other (Except Ed.)	K-12	TI/Apple

Description of Computer Use
All students are exposed to instructional computing. All classrooms in grades 1-4 have a computer, other grades have access to one. All resource rooms have computers. There are computer labs at the elementary, middle, and high schools. Spanish is being taught to eighth-grade middle-school students.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	155	145	2	8	56
District Office	5	0	5	0	5

District/Contact	Instructional Uses	School Computers Grade Span	Brand/Model
Barnwell 29	Computer Literacy	9-12	IBM PC
Brenda Aldrich	Reading/Language	3-8	Apple IIe
Instructional Supervisor	Science	9-12	Apple IIgs
P.O. Box 508	Mathematics	1-12	Apple IIe/Macintosh
Williston, SC 29853	Tool (word processing, etc.)	9-12	IBM PC
Phone: 266-3071	Business Education	9-12	IBM PC
	Other (Prevocational)	9	Apple IIe
	Adult Education		Apple IIe

Description of Computer Use
Elementary students receive instruction on math software for 30 minutes every other week. Middle-school students use computers in language arts and math classes at the teacher's discretion. High-school students receive computer literacy, word-processing, data and spreadsheet, science, and prevocation instruction. Computers are also used for the adult education program.

School and District Office Computers: Future Plans
- Purchase additional computers for elementary and middle schools.
- Apply for a grant to purchase computers for the high schools. Set up a computer study lab if funding is approved.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	111	103	7	1	29
District Office	5	0	5	0	2

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Barnwell 45 Laura Sanders Coordinator, Computers 2008 Hagood Avenue Barnwell, SC 29812 Phone: 259-7405	Computer Literacy	3-12	Commodore/Apple/IBM
	Computer Programming	11-12	IBM/Laser
	Reading/Language	1-8	Apple
	Science	6-8	Apple
	Mathematics	1-8	
	Social Studies	6-8	
	Tool (word processing, etc.)	10-12	IBM/Apple/Laser
	Business Education	9-12	IBM/Apple/Laser
	Vocational Education	11-12	Softek

Description of Computer Use
Apple IIe and Commodore computers are use in compensatory reading and math; IBM PCjr and Apple IIe computers are used in the classrooms in grades 3-8, IBM, Laser, Apple, and Softek computers are used in the classrooms in grades 9-12; IBM XT, NCR, and Sperry computers are used by administration; and Apple IIe and Epson Speech Pac are used with handicapped students. OSIRIS is used in all schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	100	71	25	4	47
District Office	4	0	4	0	3

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Beaufort Diane Brantley Administrative Computer Specialist 1300 King Street Beaufort, SC 29902 Phone: 524-2660, Ext 28	Computer Literacy	4-10	Apple IIe/IIgs
	Computer Programming	4-12	Apple IIe/IIgs/MS-DOS
	Reading/Language	K-8	Apple IIe/IIgs
	Science	1-5	Apple IIe/IIgs
	Mathematics	1-10	Apple IIe/IIgs
	Social Studies	1-5	Apple IIe/IIgs
	Business Education	9-12	Apple IIe/IIgs

Description of Computer Use
MECC software for CAI is used in grades K-5, Logo in grades 4-8. Computer literacy in grades 6-8 includes word processing and Lego Logo. Basic and Pascal are taught in high school, as well ad AP computer science.

School and District Office Computers: Future Plans
- Develop language plan.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	618	472	103	43	232
District Office	50	0	50	0	39

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Berkeley Anne B. Godbee Gifted/Talented Coordinator P.O. Box 608 Moncks Corner, SC 29461 Phone: 761-8600	Computer Literacy	5-8	Apple IIe/IBM
	Computer Programming	7-12	Apple IIe/IBM
	Reading/Language	K-12	Apple/CCC
	Science	1-12	Apple IIe
	Mathematics	1-12	Apple IIe/CCC
	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	5-12	Apple IIe/IBM
	Business Education	9-12	Apple IIe/IBM
	Vocational Education	9-12	Apple IIe/IIgs/TERAC/Macintosh/T1

Description of Computer Use
Thirty-three libraries at the elementary, middle, and high-school levels have completely automated their circulation systems. Three middle schools installed an IBM network (30 computers and one fileserver each). Twenty-five IBM PS/2 computers are used in "take-home" program. Additional units were added to CCC labs, which are in every middle and high school in the district.

School and District Office Computers: Future Plans
- Set up BBS for instructional use.
- Offer more CTN courses.
- Introduce CMS gradebook.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	1,839	1,576	173	90	413
District Office	102	64	36	2	48

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Calhoun Jimmy L. Franklin Assistant Superintendent P.O. Box 215 St. Matthews, SC 29135 Phone: 655-7222	Computer Literacy	6-8	Apple
	Computer Programming	6-8	Apple
	Reading/Language Arts	K-12	Apple/IBM
	Science	2-12	Apple
	Mathematics	2-12	Apple
	Social Studies	2-8	Apple
	Tool (word processing, etc.)	1-12	Apple
	Business Education	9-12	Leading Edge/IBM
	Vocational Education	6-12	Apple

Description of Computer Use
Uses include the following.
- Elementary: (1) Diagnostic-prescriptive techniques for BSAP mastery, remediation, and enrichment; Writing to Read (IBM).
- Middle: (1) Diagnostic-description techniques for BSAP mastery, remediation, and enrichment; Writing to Read (IBM); and (2) Computer literacy--basic understanding and appreciation for computerized instructions.
- Secondary: (1) Diagnostic-description techniques for BSAP mastery, remediation, and enrichment; Writing to Read (IBM); and (2) Business and vocational education--to motivate service area skills, to attain computing-based objectives, for GRI remediation, and SAT prerequisition.

School and District Office Computers: Future Plans
- Enhance existing programs on all levels.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	198	101	21	76	111
District Office	10	0	10	0	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Charleston Mike Stratton Supervisor, Computer Education 3 Chisolm Street Charleston, SC 29401 Phone: 722-8461	Computer Literacy	K-12	Apple IIe/IIgs/ Model 25
	Computer Programming	9-12	Model 25/IIe
	Reading/Language	K-12	Apple IIe/IIgs/Laser/IBM Model 25/ Macintosh SE
	Science	K-12	Apple IIe/IIgs/Macintosh SE
	Mathematics	K-12	Apple IIe/IIgs/Model 25
	Social Studies	6-12	Apple IIe/IIgs
	Tool (word processing, etc.)	3-12	Apple IIe/IIgs/PC Macintosh SE
	Business Education	9-12	PC/Tandy Model 30
	Vocational Education	9-12	PC/Tandy Model 30

Description of Computer Use
At the elementary level, most computer-based instruction uses software from the MECC collection. At the upper-grade level, word processing usage is increasing as a tool for teaching writing and language skills. Ten of our schools now use fileserver-based instructional computer labs and the two schools under construction are being prewired so that each classroom can connect to a fileserver.

School and District Office Computers: Future Plans
- Expand the telecommunications project using KIDSNET, which was piloted this year.
- Use "The Voyage of the the Mimi" next year in the math and science curriculums of all 14 middle schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	3,231	2,552	262	447	1,040
District Office	107	0	107	0	25

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Cherokee Olin Huffman Director, Computer Services P.O. Box 460 Gaffney, SC 29432 Phone: 489-0261	Computer Literacy	8-12	IBM PS2/Apple IIe/Commodore
	Reading/Language	7-12	Apple IIe/IIgs
	Mathematics	7-12	Rainbow Digitor/Apple IIe

Description of Computer Use
Instructional use of computers in the elementary school consists primarily of one or more computers located in the teachers' classroom, with students using them for computer-assisted instruction. This same approach is being used in the secondary schools, but computer labs are also utilized at the senior-high level for language and math instruction.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	671	558	70	43	145
District Office	15	0	15	0	11

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Chester	Computer Literacy	8	Apple IIe
James F. Poarch	Computer Programming	9-12	Apple IIe
Director, Computer Services	Reading/Language	1-12	Apple IIe
103 Foote Street	Mathematics	1-12	Apple IIe
Chester, SC 29706	Tool (word processing, etc.)	9-12	Apple IIe
Phone: 385-6122	Vocational Education	9-12	IBM PC-AT
	Other (Keyboarding)	7	Apple IIe

Description of Computer Use

Computers span the curriculum from kindergarten through grade 12. BASIC and PASCAL are taught in grades 9-12. Tool (word processing) is taught in grades 9-12, with preliminary word processing taught in grades K-12. A nine-week keyboarding course is required for all seventh graders. All eighth-graders are required to take a nine-week computer literacy course. Computers are used in grades 1-6 to supplement instruction in reading, language arts, and mathematics. Computers and software are available to all basic skills teachers to supplement the curriculum and to provide drill and practice. EIA remedial laboratories (grades 7-8) for reading and math include computer-assisted instruction of one of several instructional methods. In grades 9-12, four remedial language arts and three math labs provide computer-managed and computer-assisted instruction. Other classrooms use computers to provide remediation drill and practice on basic skills and SAT improvement.

School and District Office Computers: Future Plans

- Expand grade 9-12 programming laboratories with additional computers and printers to allow more flexibility in the curriculum.
- Train all teachers new to the district in the use of the Apple IIe; train new school administrative staff on the IBM.
- Utilizing IBM equipment and NOVELL software, network three laboratories in the vocational center as well as the district office.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	419	371	35	13	135
District Office	18	0	18	0	19

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Chesterfield John W. Wagnon Coordinator, Pathways/Director, Teacher Incentive Programs 401 West Boulevard Chesterfield, SC 29709 Phone: 623-2175	Computer Literacy	2-12	Apple IIe/gs CCC/Atari
	Computer Programming	7-12	Apple IIe/IBM Compatible
	Reading /Language Arts	1-12	Apple IIe/gs/CCC/Atari
	Science	6-12	Apple IIe/gs/CCC/Atari
	Mathematics	1-12	Apple IIe/gs/CCC/Atari
	Social Studies	6-12	Apple IIe/gs
	Tool (word processing, etc)	7-12	Tandy 1000/IBM Compatible
	Business Education	9-12	Tandy 1000/IBM Compatible
	Vocational Education	9-12	Tandy 1000/IBM Compatible

Description of Computer Use

All compensatory and remedial students receive daily drill/instructional exercises through a computer lab offering programmed instruction. Teachers at all elementary schools use course-specific software to supplement the regular curricular offerings and to provide exposure to the technology. All middle-school and secondary students have access to course offerings presenting introduction, applications, and programming. Two IBM-compatible labs (20-25 workstations networked) have been installed at two high schools. Four high schools and six elementary schools are networked for OSIRIS. Using modems, all schools have daily access to a district bulletin board for messaging, requisitioning supplies, submitting reports, downloading information, etc.

School and District Office Computers: Future Plans

- Install additional IBM-compatible networked labs at the two remaining high schools and middle schools.
- Extend laser printer use beyond the present eight schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	635	585	43	7	203
District Office	31	0	30	1	31

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Clarendon 1 Murdock White Director, AVA P.O. Box 38 Summerton, SC 29148 Phone: 485-2325	Computer Literacy	7-12	Apple IIe
	Computer Programming	8-12	IBM PS/2 25
	Reading /Language Arts	K-12	Apple II/IIe/IBM PS/2
	Mathematics	K-12	Apple II/IIe/IBM PS/2 25
	Business Education	9-12	IBM 25

Description of Computer Use

Computers are used by compensatory and remedial students at all grade levels to reinforce general math concepts and reading skills. Computer-assisted instruction is utilized in social studies and business education classes. Students also have the opportunity to learn how to write business and math processing programs.

School and District Office Computers: Future Plans

- Expand all computer labs and computer-assisted instruction in all classes, especially, social studies and science classes.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	114	109	4	1	7
District Office	9	0	8	1	8

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Clarendon 2 Star H. Martin Coordinator, Computers/ Pathways P.O. Box 1252 Manning, SC 29102 Phone: 435-4435	Computer Literacy	10-12	TRS-80/Apple IIgs
	Computer Programming	10-12-GTR	TRS-80/Apple IIe/IIgs
	Reading/Language Arts	1-12	Apple IIe/IIgs/IBM Compatible w/TRBS
	Science	9-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe/IIgs
	Social Studies	1-12	Apple IIe/IIgs
	Foreign Language	9-12	Atari
	Tool (word processing, etc.)	9-12	TRS-80/IBM Compatible
	Business Education	9-12	TRS-80/IBM Compatible
	Vocational Education	9-12	TRS-80
	Other (Material Center)	K-12	Apple IIe
	Other (Journalism)	10-12	Macintosh

Description of Computer Use

Computers are used in compensatory, remedial, and Chapter I classes at the appropriate grade levels. Computers support reading and math in grades 1-12. TABS has been implemented for grades 1-12. Computers are used as instructional aids in science, foreign language, and vocational courses, and are used with gifted students. A new computer lab consisting of Apple IIgs computers is in place for Advanced Placement classes. The journalism department is circulating a newspaper and other publications from a new Macintosh system with a laser printer. The review of software for the total curriculum is done through the Material Center. MECC software is distributed and available throughout the district. Computer projectors are used as teaching aids in the classroom. OSIRIS is fully operational in each school and they are participating in all aspects of OSIRIS-supported modules.

School and District Office Computers: Future Plans

- Automate libraries, lunch management program, and bus routing with state-supported software.
- Install a computer lab for all students in grades K-3.
- Offer classes, workshops, and in-services for teachers and aides in all areas of classroom computing.
- Offer PASCAL programming to high-school students.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	203	165	14	24	66
District Office	12	0	12	0	11

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Clarendon 3 Kim Coker Computer Specialist P.O. Drawer 270 Turbeville, SC 29162 Phone: 659-2188	Computer Literacy	9-12	Apple IIe/gs
	Computer Programming	3-8/Gifted	Kaypro
	Reading/Language Arts	2-5/6-8	Apple IIe/Kaypro
	Mathematics	2-5/6-8	Apple IIe/Kaypro
	Tool (word processing, etc.)	3-8/Gifted	Kaypro
	Business Education	10-12	Kaypro

Description of Computer Use

Multimedia labs are used in compensatory reading and math classes in grades 2-5. Compensatory and remedial students in grades 6-8 have access to computers for supplementary remedial help. Gifted summer school students use computers for many academic areas for enrichment and exploration. Vocational students received three computers this year under a grant.

School and District Office Computers: Future Plans

- Expand computer literacy and vocational education computer use at all grade levels.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	47	40	3	4	7
District Office	3	3	0	0	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Colleton	Computer Literacy	9-12	Apple IIe
Charles Gale	Computer Programming	9-12	Apple IIe/Laser/Softek
Coordinator, Pathways	Reading/Language Arts	1-12	Apple IIe/TRS-80/TI
P.O. Box 290	Science	1-12	Apple IIe
Walterboro, SC 29488	Mathematics	1-12	Apple IIe/TRS-80
Phone: 538-5538	Social Studies	1-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	11-12	Softek
	Business Education	11-12	Softek
	Vocational Education	11-12	Softek/Club/NIDA

Description of Computer Use
Computers and software are being integrated into the existing curriculum for all grade levels.

School and District Office Computers: Future Plans
- Install, through the OSIRIS system, modems in all schools to further enable growth of the communication networks, however, lack of funds is a problem.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	350	293	47	10	86
District Office	7	0	7	0	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Darlington Diane B. Sigmon Coordinator, Computers 102 Park Street Darlington, SC 29532 Phone: 393-2586	Computer Literacy	K-12	Apple IIe/IIgs/IIc/Macintosh
	Computer Programming	7-12	Apple IIe/IIgs/ IIc/Tandy/Macintosh
	Reading/Language Arts	K-12	Apple IIe/IIgs/IIc/Macintosh
	Science	K-12	Apple IIe/IIgs/IIc/Macintosh
	Mathematics	K-12	Apple IIe/IIgs/Tandy/PCjr
	Social Studies	K-12	Apple IIe/IIgs/IIc/Macintosh
	Foreign Language	K-12	Apple IIc/Ie/IIgs/Macintosh
	Tool (word processing, etc.)	K-12	IBM PS/2/PC/Macintosh/Apple IIgs
	Business Education	7-12	IBM PS/2
	Vocational Education	7-12	IBM PS/2
	Other (Writing)	K-12	Macintosh SE, IBM PCjr.

Description of Computer Use

Many schools in Darlington County have taken new steps toward the integration of technology into the classroom. Staff development activities in this area have drastically increased. The district co-sponsors the Darlington County Educational Computing Conference each fall. A closer look at individual school goals has created computer labs from individual classrooms and vice versa. The average student, not just the remedial or the gifted, has been afforded more opportunities for computer access. Integrated learning systems have been utilized in Chapter-1 classes at some elementary schools and in reading, language arts, and math classrooms at the junior-high level. A Macintosh writing lab was also implemented at one junior high school.

School and District Office Computers: Future Plans

- Complete construction of a wide-area network, scheduled to be fully operational by July 1, 1990. All district-level staff and school-level administration will have access to certain applications, i.e., electronic mail and purchase requisition system. Connectivity is achieved via asynchronous communication, direct connections, and laser. Macintosh and IBM compatibles will co-exist on the Novell network to take advantage of existing hardware and software, as well as to provide needed potential for growth.
- Install in several school the integrated learning systems that operate in the Macintosh environment. (The primary hardware platform planned for is the Macintosh, due to its proven success in the district.) Multimedia also has a definite place in the plans.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	974	867	70	37	344
District Office	56	0	23	33	37

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dillon 1 Stephen Laird Assistant Superintendent P.O. Box 644 Lake View, SC 29563 Phone: 759-2882	Reading/Language Arts	1-12	Apple IIe/IBM
	Science	9-12	Apple IIe
	Mathematics	5-12	Apple IIe
	Social Studies	9-12	Apple IIe
	Business Education	10-12	TRS-80
	Other (Gifted and Talented)	3-10	Apple IIe

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	69	67	2	0	21
District Office	2	0	2	0	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dillon 2 Donna Traylor Consultant, Chapter I/EIA 401 Washington Street Dillon, SC 29536 Phone: 774-1204	Computer Literacy	K-12	Apple IIe/IBM
	Computer Programming	10-12	Apple IIe/IBM
	Reading/Language Arts	K-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe
	Tool (word processing, etc.)	1-12	IBM/Apple IIe/IIgs
	Business Education	10-12	IBM
	Other (Gifted and Talented)	3-10	Apple IIe
	Chapter I Parent Center	4-8	Apple IIe
	Programs for the Handicapped	K-12	Apple IIe/IIgs

Description of Computer Use
Computers are used for remediation, drill, practice, and enrichment. Some "game" formats are used for challenge and/or rewards. Computer science is offered as a unit course in high school. Computer-management programs are used in Chapter-I classes in grades 4-6. All schools participate in the Pathways Project. A take-home computer program is available for Chapter-I parents and students.

School and District Office Computers: Future Plans
- Employ a part-time or full-time computer coordinator.
- Continue to purchase computers at all grade levels to increase availability to teachers and students.
- Provide additional in-service training to teachers, administrators, and clerical staff.
- Offer the take-home computer program to other students and parents.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	256	235	19	7	113
District Office	16	1	15	0	10

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dillon 3 C. O. Epps Assistant Superintendent/ Coordinator, Pathways P.O. Box 458 Latta, SC 29565 Phone: 752-7101	Other (OSIRIS)	Staff	NCR PC8

Description of Computer Use
OSIRIS is used throughout the district. Also, ECS - financial program is used. In-service is provided for school secretaries in the use of OSIRIS.

School and District Office Computers: Future Plans
- Provide a class for secretaries on Q&A.
- Provide a class for the expansion in the use of OSIRIS.
- Provide small-group instruction as requested by users.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	113	110	3	0	17
District Office	7	0	7	0	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dorchester 2 Karl Naugle Coordinator, Computer 102 Greenwave Boulevard Summerville, SC 29483 Phone: 873-2901	Computer Literacy	K-12	Apple IIe/IIgs/IBM PS/2-25
	Computer Programming	6-12	Apple IIe/IIgs/IBM PS/2
	Reading/Language Arts	K-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Science	K-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Mathematics	K-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Social Studies	K-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Foreign Language	6-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Tool (word processing, etc.)	K-12	Apple IIe/IIgs/IBM PC/PS/2-25
	Business Education	9-12	IBM PC/PS/2-25
	Vocational Education	9-12	IBM PC/PS/2-25

Description of Computer Use

Computer use guidelines are being revised to provide building-level curriculum programs which will be organized and monitored by building-level committees. These committees will ensure that students are exposed to a broad-based curriculum approach to the integration of computers into the classroom. Curriculums and computer hardware is being updated to match these challenges.

School and District Office Computers: Future Plans

- Implement the CMS grade book and other Prescription Learning software as it becomes available.
- To aid in paperwork reduction, purchase hardware and networks so that each teacher has a computer.
- Implement a professional training staff program to aid teachers in reaching a goal of 100% computer literacy.
- Complete computerization of the district office.
- Purchase networking of student instructional computers in order to offer students additional time for computers use.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	737	614	95	28	258
District Office	24	0	24	0	13

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District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Dorchester 4	Computer Literacy	9-12	Apple IIe
Frank Barnes	Computer Programming	9-12	Apple IIe
Administrative Assistant	Reading/Language Arts	K-12	CCC/Apple/Commodore/Digital
500 Ridge Street	Mathematics	K-12	CCC/Apple/Commodore
St. George, SC 29477	Business Education	9-12	Lanier
Phone: 563-4535			

Description of Computer Use

At the elementary level, computers are used in the "Writing to Read" lab and the CCC lab. At the middle-school level, computers are used in the CCC lab (reading and math). At the secondary-level, computers are used in the Governor's Remedial Lab (reading and math), elementary programming, and business applications. CAI is used at all grade levels to supplement regular instruction in math, reading, and language arts.

School and District Office Computers: Future Plans

- Enlarge present school computer labs or add more labs.
- Establish a district bulletin board service.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	150	118	12	20	72
District Office	10	0	10	0	10

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Edgefield	Computer Literacy	K-12	IBM S-36/IBM PC/Apple IIe/gs
Charles Wilkes	Computer Programming	7-12	IBM PC/AT/Apple IIe/gs
Director, Data Processing	Mathematics	K-12	Apple IIe/gs
P.O. Box 608	Tool (word processing, etc.)	9-12	IBM PC/AT/Apple IIe
Edgefield, SC 29824	Business Education	9-12	IBM PC/AT/Apple IIe
Phone: 275-4601	Vocational Education	9-12	IBM PC/AT/Apple IIe

Description of Computer Use

All students in grades (K-12) have exposure to instructional computing. Each elementary and middle school has at least one computer lab. Kindergarten through sixth-grade students attend one day per week for CAI. Students in grades 7-8 attend by the quarter semester for CAI and simple programming skills. Computers are used in some of the remedial and compensatory classes. The high-school offers programming as an elective. All schools and the vocational school offer word processing. High school special-education students use computers in the resource room. Advanced high-school math classes use computers to explore math topics and to prepare for the SAT. (Note: The high school is presently using student accounting on OSIRIS software on the PC/AT. Data communications to the State Department of Education is being utilized for both the teacher certification project and for the high school vocational SCOIS program via a PC/AT and modem. Word processing, computer concepts, and BASIC programming skills on the S/36 and the PCs are being taught in adult education night classes.

School and District Office Computers: Future Plans

- Automate the high-school library during the 1990-91 school year .

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	315	278	19	18	68
District Office	5	0	5	0	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Fairfield A. Clark Batten Director, Data Information P.O. Drawer 622 Winnsboro, SC 29180 Phone: 635-4607	Computer Literacy	K-12	Apple/IBM
	Computer Programming	9-12	IBM
	Reading/Language Arts	1-12	Apple IIe/IIgs/IBM
	Science	7-8	Apple IIgs
	Mathematics	1-12	IBM/Apple
	Tool (word processing, etc.)	9-12	IBM
	Business Education	9-12	IBM
	Vocational Education	9-12	IBM/Macintosh

Description of Computer Use

The IBM "Writing to Read" program is used in kindergarten and first-grade classes. In grades 1-6, EIA classes and Chapter I classes have four or five Apple computers. In the middle school, Apple computers are used in reading remediation. At the high-school level, Apple computers are used in Governor's Remediation Laboratory. At this level, IBMs are used to teach computer literacy, programming, and word processing.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	190	168	21	1	31
District Office	17	4	13	0	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 1 Thomas G. Pritchard Director, Student Testing and Information Management 319 South Dargan Street Florence, SC 29501 Phone: 664-4141, Ext. 302	Computer Literacy	1-12	Apple IIe/IIgs
	Computer Programming	8-12	MS-DOS
	Reading/Language Arts	1-12	Apple IIe/IIgs
	Science	1-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe/IIgs
	Social Studies	1-12	Apple IIe/IIgs
	Tool (word processing, etc.)	6-12	MS-DOS
	Business Education	9-12	MS-DOS/IBM 34
	Vocational Education	9-12	MS-DOS/IBM 34

School and District Office Computers: Future Plans

- Provide on going training of all staff members.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	898	655	74	169	291
District Office	27	4	12	11	18

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 2	Computer Literacy	5-12	Apple IIe/Franklin
E. Lancie Hyman	Computer Programming	9-12	Apple IIe/IBM Compatible
Director, Instruction	Reading/Language Arts	K-12	Apple IIe/Franklin/CCC
Route 1, Box 36B	Science	1-12	Apple IIe/Franklin
Pamplico, SC 29583	Mathematics	1-12	Apple IIe/Franklin
Phone: 493-2502	Business Education	9-12	Apple IIe/IBM Compatible

Description of Computer Use
Some middle-/high-school students receive computer-literacy training. Computer programming is offered at the high-school level. Some elementary and middle-school students receive instruction in reading and math via Apple IIe software and the CCC Microhost System. The Apple IIe's are also used in some science classes in grades K-8. Word processing and data processing are offered to students in grades 9-12 through the business education department.

School and District Office Computers: Future Plans
- No definite plans at this time.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	146	131	13	2	52
District Office	6	0	6	0	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 3	Computer Literacy	4-8	Apple
Lane N. Floyd	Computer Programming	10-12	IBM
Assistant Superintendent	Reading/Language Arts	2-8	CCC/Apple
Drawer 128	Science	2-8	Apple
Lake City, SC 29560	Mathematics	2-8	CCC/Apple
Phone: 394-8652	Social Studies	2-8	Apple
	Foreign Language	2-8	Apple
	Tool (word processing, etc.)	4-8/10-12	IBM/Apple
	Business Education	10-12	IBM
	Vocational Education	10-12	IBM

Description of Computer Use
CCC labs are used for remedial and compensatory students in grades 2-8. Gifted and Talented students have extensive computer use.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	258	235	22	1	41
District Office	16	0	16	0	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 4	Computer Literacy	10	TRS-80
Mamie A. Foole	Computer Programming	10-12	IBM PCjr
Coordinator, Computer Services	Reading/Language Arts	K-12	Apple/CCC/Digital
112 South Kershaw Street	Mathematics	K-12	Apple/CCC/Digital
Timmonsville, SC 29161	Tool (word processing, etc.)	10-12	IBM PCjr
Phone: 346-5391	Business Education	10-12	IBM PCjr
	Vocational Education	10-12	IBM PCjr/Apple IIe

Description of Computer Use
Computers are used to reinfc:ce basic skills in reading and mathematics in grades (K-12). At the secondary level, computers are used in business applications, programming (BASIC) literacy, and CAD (computer-aided design).

School and District Office Computers: Future Plans
- Offer to all district teachers additional training in computer literacy.
- Purchase several new computers for the industrial technology education classes during the 1989-90 school year.
- Use CCC/Microhost computers to expand instruction in adult education reading and mathematics classes during the 1989-90 school year.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	106	99	6	1	30
District Office	5	0	5	0	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Florence 5	Computer Literacy	1-12	Tandy 1000
Richard Silvernail	Reading/Language Arts	1-12	Tandy 1000
Coordinator, Computer	Mathematics	1-12	Tandy 1000/Model IV
P.O. Drawer 98	Social Studies	1-4	Tandy 1000
Johnsonville, SC 29555	Tool (word processing, etc.)	9-12	Tandy 1000
Phone: 386-2341	Business Education	9-12	Tandy 1000
	Vocational Education	5-12	Tandy Model IV/1000

Description of Computer Use
The elementary-school computer lab houses 17 Tandy 1000's used primarily for math, reading, and writing activities by students in grades 1-4 and in special programs. All elementary and middle Chapter-I programs and nominal programs have at least one computer. The middle school has four IBM-type computers in the library for vocational use (job skills, inventory, college information, etc.) and for use by students needing math and reading help. A dropout-prevention program has 15 Tandy 1000's for use in math, reading, and science remediation. The high school has 10 model IV's in the L. D. classroom, and 26 networked model IV's in a remedial reading and math lab. The business department has 20 Tandy 1000's for business education and word processing. Twenty more Tandy 1000's are used in typing classes.

School and District Office Computers: Future Plans
- Convert the elementary lab to "Learning to Write" (IBM) lab.
- Use computers in high-school English classes to promote writing.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	138	131	6	1	64
District Office	7	0	5	2	6

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Georgetown	Computer Literacy	K-12	Apple IIe/IBM/Laser/Atari
Richard E. Toemmes	Reading/Language Arts	K-12	Apple IIe/IBM/Atari
Director, M.I.S.	Science	K-12	Apple IIe/IBM/Atari
624 Front Street	Mathematics	K-12	Apple IIe/IBM/Atari
Georgetown, SC 29440	Social Studies	K-12	Apple IIe/IBM/Atari
Phone: 527-1338	Business Education	10-12	IBM PC/PS 2
	Vocational Education	10-12	IBM PC/PS 2

Description of Computer Use
All students in grades K-12 experience some computer usage. All middle and high schools are equipped with a CCC learning lab. Computer experiences for elementary students are integrated into other instructional programs. Secondary students use computers from word processing to computer repairs.

School and District Office Computers: Future Plans
- Install a computerized card filer and checkout in all libraries.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	657	619	24	14	134
District Office	49	28	20	1	37

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Greenville	Computer Literacy	K-12	Apple/IBM PCjr/IBM PC-PS
Horace Butler	Computer Programming	6-12	Apple IIe/IIgs
Computer Consultant	Reading/Language Arts	K-12	Apple IIe/IIgs/IBM PCjr
P.O. Box 2848	Science	K-12	Apple IIe
Greenville, SC 29602	Mathematics	K-12	Apple IIe
Phone: 242-6450	Social Studies	K-12	Apple IIe
	Foreign Language	K-12	Apple IIe
	Tool (word processing, etc.)	4-12	Apple
	Business Education	9-12	IBM PC
	Vocational Education	9-12	IBM PC

School and District Office Computers: Future Plans
- Our district is in transition again. A plan of study was begun in March 1989.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	2,782	2,326	267	231	1,074
District Office	51	0	51	0	57

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Greenwood 50 Gary West Director, Computing Services P.O. Box 248 Greenwood, SC 29648 Phone: 223-4348, Ext. 245	Computer Literacy	1-12	Apple IIe/IBM PC/PS2/NCR
	Computer Programming	10-12	Apple IIe/IBM PC
	Reading/Language Arts	1-12	Apple IIe/IBM
	Science	1-12	Apple IIe/IBM PS2
	Mathematics	1-12	Apple IIe/IBM PS2
	Social Studies	2-12	Apple IIe/ IBM PS2
	Foreign Language	7-9	Apple IIe
	Tool (word processing, etc.)	4-12	Apple IIe/IBM PC/PS2
	Business Education	10-12	IBM PC/PS2
	Vocational Education	10-12	IBM PC/PS2

Description of Computer Use
Computers are used in the WICAT lab for reading and math (grades 7-9), in "Writing to Read" labs (kindergarten and grade 1). and in EIA labs for reading and math (grades 10-12). Prescription Learning is used in Chapter I/EIA remediation (grades 1-6).

School and District Office Computers: Future Plans

- Increase acquisition of MS-DOS, OS/2 machines for instruction (all levels).
- Implement SDE Classroom Management System in six pilot schools.
- Increase number of WICAT labs in grades 7-9.
- Implement "Writing to Read" program in kindergarten and grade 1.
- Train all teachers to use word processing software.
- Implement SDE Classroom Management System in seven non-pilot schools (to include laser printers, Novell networks, and other resources).
- Network district offices (Novell) and develop a district-wide student database from OSIRIS school databases.
- Implement adult education component (MS-DOS), applications and instruction.
- Implement take-home computers (MS-DOS) for Chapter I/EIA remediation; and software for specific student needs.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	595	478	66	51	217
District Office	66	28	38	0	47

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District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Greenwood 51	Computer Literacy	9-12	Apple IIe/IBM Model 30286
C. T. Abrams	Computer Programming	9-12	Apple IIe
Assistant Principal/	Reading/Language Arts	K-12	Apple IIe
Coordinator, Pathways	Science	9-12	Apple IIe
42 Sparks Avenue	Mathematics	4-12	Apple IIe
Ware Shoals, SC 29692	Tool (word processing, etc.)	K-12	Apple IIe
Phone: 456-7923	Business Education	9-12	Apple IIe/IBM Model 30286

Description of Computer Use
Elementary students use computers for enrichment exercises on all grade levels. Secondary students use computers in business, science, EIA remedial programs, Chapter I reading, and gifted and talented classes. Computers are also used on the secondary level for SAT preparation.

School and District Office Computers: Future Plans
- Continue participation in the Pathways project at all schools.
- Expand the use of computers in business education and in special education.
- Seek a grant to establish a computer lab in the high school to be used for enhancement of CP and honors-level courses.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	98	78	13	7	50
District Office	4	0	4	0	4

District/Contact

Greenwood 52
Marilyn P. Rieger
Coordinator, Instructional
119 South Cambridge Street
Ninety Six, SC 29666
Phone: 543-3100

Description of Computer Use
Elementary students use computers in all classrooms and for publishing projects. At the middle school, computers are used for enrichment and in Chapter I classes. A networked lab has been implemented. Secondary students use computers in all subject areas and for remediation and SAT preparation. Students in the gifted program, grades 2-8, use computers extensively.

School and District Office Computers: Future Plans
- Expand use of computers in special education classes.
- Network all classrooms at the middle school with the computer lab.
- Add Macintosh computers will be added to the high school science labs.
- Convert the high school library to a computerized system.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	95	68	8	19	34
District Office	5	0	5	0	6

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Hampton 1 A. Randall Vaughn Deputy Superintendent P.O. Box 177 Hampton, SC 29924 Phone: 943-4576	Computer Literacy	K-8	Apple IIe
	Computer Programming	9-12	IBM/Apple
	Reading/Language Arts	K-12	IBM/Apple
	Science	K-12	IBM/Apple
	Mathematics	K-12	IBM/Apple
	Social Studies	K-12	IBM/Apple
	Tool (word processing, etc.)	9-12	IBM
	Business Education	9-12	IBM
	Vocational Education	9-12	IBM

Description of Computer Use
All schools in the district are running OSIRIS. The compensatory/remedial Chapter-I programs are utilizing CAI at all grade levels. Some elementary schools are successfully offering bonus time in the morning before the actual instructional day begins. This allows all students to have computer time regardless of the EIA classification. Modems have been installed at all schools to provide on-line assistance to schools. Student gains are monitored at the district office.

School and District Office Computers: Future Plans
- Expand the number of computers in the district.
- Implement a lab at the high school that can meet a wide range of needs.
- Plan access from middle schools via modem.
- Monitor classwork.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	252	205	23	4	65
District Office	8	0	8	0	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Hampton 2 Jack Diamond Director, Budget and Testing/ Coordinator, Computer P.O. Box 1028 Estill, SC 29918 Phone: 625-2875	Computer Literacy	5-12	Apple IIe/IIc
	Computer Programming	11-12	Apple IIe/IIc/IBM 30
	Reading/Language Arts	K-12	Apple IIe/IIc/IBM 25
	Science	1-12	Apple IIe/IIc
	Mathematics	1-12	Apple IIe/IIc
	Social Studies	1-12	Apple IIe/IIc
	Foreign Language	9-12	Apple IIe/IIc/IBM 25
	Tool (word processing, etc.)	K-12	Apple IIe/IIc
	Business Education	10-12	Apple IIe/IIc
	Vocational Education	10-12	Apple IIe/IIc
	Other (Special Education)		

Description of Computer Use
All first-graders and some kindergarten students use the "Writing to Read" program. Preschool four-year-olds use "Get Set for Writing to Read." Take-home computers are used at the elementary- and middle-school levels. MEAC is used in grades 2-8/ Prescription Learning labs are used in grades 5-8. GRI labs are used for math and reading in grades 9-11. Keyboarding is taught in grades 9-10. PALS is used in adult education classes. Modems are now available to all schools.

School and District Office Computers: Future Plans
- Expand administrative use of computers--networking has been done at the high school. The middle school will be networked next year.
- Expand computer use in science programs.
- Implement a second PALS lab for adult education classes.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	205	170	22	13	76
District Office	33	25	8	0	10

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Horry Richard Nadeau Coordinator, Computer Instruction/Services 1605 Horry Street, Room #3 Conway, SC 29526 Phone: 248-2206	Computer Literacy	K-12	Apple IIe/IIgs/IBM PC
	Computer Programming	8-12	Apple IIe/IIgs
	Reading/Language Arts	K-12	Apple IIe/IIgs/IBM PC
	Science	1-12	Apple IIe/IIgs/IBM PC
	Mathematics	1-12	Apple IIe/IIgs/IBM PC
	Social Studies	1-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs/IBM PC
	Tool (word processing, etc.)	1-12	Apple IIe/IIgs/IBM PC/3X
	Business Education	9-12	Apple IIe/IIgs/IBM PC/3X
	Vocational Education	9-12	Apple IIe/IIgs/IBM PC/3X

Description of Computer Use
Computer uses include: "Writing to Read" (IBM PC); Lego Logo Science Interfacing (Apple); Science Interfacing at the middle and high school (Apple II); desktop publishing (Apple, Mac, IBM PC); remediation (Atari, IBM PC); and keyboarding (Apple II, IBM 3X).

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	1,436	1,175	169	66	377
District Office	78	0	78	0	61

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Jasper Joseph Madden Computer Specialist P.O. Box 848 Ridgeland, SC 29936 Phone: 726-7200	Computer Literacy	9-12	TRS-80 III/Commodore 64/IBM
	Computer Programming	9-12	TRS-80 III//IBM
	Mathematics	K-12	CCC/Winthrop (Atari/Apple IIe)
	Tool (word processing, etc.)	9-12	Novell Network/IBM/TRS-80 III
	Business Education	9-12	Novell Network/IBM/TRS-80 III
	Vocational Education	9-12	Novell Network/IBM/TRS-80 III

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	163	154	9	0	35
District Office	9	0	9	0	14

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Kershaw J. Coke Goodwin Assistant Superintendent, Instruction DuBose Court Camden, SC 29020 Phone: 432-8416, Ext. 50	Computer Literacy	9-12	TRS-80/Apple IIe
	Computer Programming	9-12	TRS-80
	Reading/Language Arts	K-12	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	TRS-80/Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	9-12	TRS-80/Apple IIe
	Business Education	9-12	Apple IIe/IBM PC
	Vocational Education	9-12	TRS-80/IBM PC

Description of Computer Use

Secondary students have an opportunity to study computer programming. Other instructional use occurs in an integrated manner through lab scheduling in regular content classrooms. Remedial math labs are available in all of the high schools. Programs for grades K-8 are provided in compensatory and remedial classes and in some schools are integrated into the regular content classrooms. Kershaw County maintains a MECC membership and makes other software available through the district materials center. All schools are implementing OSIRIS software for administration, attendance, and reporting to parents at the middle- and secondary-levels.

School and District Office Computers: Future Plans

- Continue to offer training for staff members at no cost.
- Improve ratio of computers to students to reach state average.
- Increase computer access for students not in any special category.
- Continue OSIRIS training and networking all schools, pending funding.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	894	744	89	61	217
District Office	44	0	44	0	30

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Lancaster Bruce Harris Director, Computer Services P.O. Drawer 130 Lancaster, SC 29720 Phone: 286-7981	Computer Literacy	K-12	Apple IIe
	Computer Programming	9-12	Apple IIe/IBM
	Reading/Language Arts	K-12	Apple IIe
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	10-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Business Education	10-12	Apple IIe
	Vocational Education	Sp. Ed.	Apple IIe
	Other (specify)	2-12	Apple IIe

Description of Computer Use

Elementary students generally use the computer for enrichment, Chapter I, etc. MECC software is widely used among the elementary schools. Junior high and secondary students study programming (mostly secondary) along with CAD programs.

School and District Office Computers: Future Plans

- Distributed networks at the elementary level with emphasis on training and retaining procedures for staff members.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	567	392	108	67	251
District Office	29	0	29	0	26

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Laurens 55 Russell Burns Director, Technology P.O. Box 388 Laurens, SC 29360 Phone: 984-3568	Computer Literacy	K-12	IBM PS/2-25/Tandy 1000/ Commodore 64
	Computer Programming	11-12	IBM PS/2-25
	Reading/Language Arts	K-12	IBM PS/2-25/Tandy 1000/ Commodore 64/Apple IIe
	Science	3-12	IBM PS/2-25//Tandy 1000/ Commodore 64
	Mathematics	1-12	IBM PS/2-25/Tandy 1000/ Commodore 64/Apple IIe
	Social Studies	3-12	IBM PS/2-25/Tandy 1000/ Commodore 64
	Tool (word processing, etc.)	5-12	IBM PS/2-25/Tandy 1000/ Commodore 64
	Business Education	9-12	Lanier/Tandy III/IV

Description of Computer Use

Computer literacy is a component of all instruction that uses computers. Lower-elementary levels are concentrating on "Writing to Read" instruction, while elementary- and junior-high levels utilize Josten's (ESC) software for language arts and math instruction. Prescription Learning and PALS software serve the remediation needs of upper-elementary and secondary students. Text processing is introduced at the upper-elementary level, particularly in gifted and talented classes, and continues intermittently throughout the secondary curriculum, with concentration in business education. Math, science, and social studies programs are available in labs in upper-elementary and secondary classes.

School and District Office Computers: Future Plans

- Add two additional instructional labs at the elementary and junior-high levels in 1990-91.
- Provide teacher training in the CMS instructional/administrative program relating to paperwork reduction and effective use of instructional data.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	435	356	16	63	151
District Office	22	7	15	0	19

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Laurens 56 Lenzy Randall Assistant Superintendent P.O. Drawer 484 Clinton, SC 29325 Phone: 833-0800	Computer Literacy	1-12	Commodore 64/Apple II/ IBM PC/Columbia/Atari (CCC)
	Computer Programming	9-12	IBM PC/Columbia
	Reading/Language Arts	1-12	Atari (CCC)/Apple II/Commodore 64
	Mathematics	1-12	Atari (CCC)/Apple II/Commodore 64
	Tool (word processing, etc.)	9-12	IBM PC/Columbia
	Business Education	9-12	IBM PC/Columbia
	Vocational Education	9-12	Atari (CCC)/Apple II
	Other (Gifted [Logic])	9-12	Atari (CCC)

Description of Computer Use

All schools use Computer Curriculum Corporation (CCC) labs with Atari terminals to serve compensatory and remedial students in reading and mathematics. The CCC labs are also used to serve disadvantaged vocational education students in survival skills and gifted math students in logic, both in grades 9-12. Elementary and middle schools continue to use very limited numbers of Commodore 64's and Apples in computer literacy, reading, language arts, and mathematics. The IBM PC and Columbia labs at the high school continue to be used for computer programming/information processing in the business education department.

School and District Office Computers: Future Plans

- Expand CCC/Atari labs at all grade levels.
- Install/expand Pathways networks at two elementary schools.
- Install school lunch program software at four elementary schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	242	169	22	51	77
District Office	11	0	11	0	8

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lee Kathy Jackson Coordinator, EIA P.O. Box 507 Bishopville, SC 29010 Phone: 484-5391	Computer Literacy	K-12	Apple/TRS-80/IBM Compatible
	Reading/Language Arts	K-12	Apple/TRS-80
	Science	K-12	Appleshare Network
	Mathematics	K-12	Apple/TRS-80
	Social Studies	K-12	Appleshare Network
	Tool (word processing, etc.)	10-12	Apple/IBM Compatible
	Business Education	10-12	Apple/IBM Compatible
	Vocational Education	10-12	Apple/IBM Compatible
	Other (Gifted and Talented)	K-12	Apple IIgs/TRS-80

Description of Computer Use

Computers are used in the elementary-, middle-, and secondary-grade levels to assist students in basic skills and computer literacy. Prescription Learning labs are used in elementary, middle, and high schools for students in compensatory and Chapter I programs. Governor's Remediation Labs are also used in the high schools for remediation. Three Appleshare networked labs are used in two elementary and one middle school for basic skills. MECC software is available to all schools for the purpose of integrating computers into the curriculum. The vocational school uses Apples and IBM Compatibles for word processing and business education.

School and District Office Computers: Future Plans

- Expand computer-assisted instruction in grades K-12 with additional Apple, Macintosh, and IBM computers.
- Purchase Macintosh computers for administrative work.
- Install modems at all levels for data transmission to SDE.

	Computers	Instruction	Administration	Instruction & Administration	Printers
Schools	367	336	25	6	106
District Office	13	0	13	0	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Lexington 1	Computer Literacy	4-10	Apple IIe/IIc
Tom Cranmer	Computer Programming	8-12	Apple IIe/IIc
Coordinator, Data Processing	Reading/Language Arts	1-12	Apple IIe/IIgs
P.O. Drawer 1869	Mathematics	1-12	Apple IIe/IIgs
Lexington, SC 29072	Business Education	1-12	IBM
Phone: 359-4178	Vocational Education		IBM
	Other (Special Education)	1-12	Apple IIe/IIgs
	Other (Gifted)	3-6	Apple IIgs

Description of Computer Use

All elementary schools have Prescription Learning labs for reading and math. In addition, schools have labs to reinforce the basic skills. Computer literacy begins at the middle-school level. Secondary students are involved in computer literacy, programming, vocational, and instruction labs. High schools have Governor's Remediation Initiative labs and WICAT labs.

School and District Office Computers: Future Plans

- Update WICAT labs, update Governor's Remediation Labs.
- Continue to teach computer literacy at the middle school level.
- Implement keyboarding at the sixth grade level.
- Continue to offer computer labs.
- Implement district-wide computer instructional plan.
- Continue to offer staff development training for teachers through USC courses and teacher-taught computer workshops.
- Purchase additional computers to reinforce basic reading and math skills in grades 1-12.
- Purchase additional computers to increase computer-pupil ratio and to expand computer literacy at the elementary level.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	569	486	53	30	184
District Office	21	0	21	0	15

District/Co 'act	School Computers: Instructional Uses	Grade Span	Brand/Model
Lexington 2 Charles Studstill Director, Computer Services 715 Ninth Street West Columbia, SC 29169 Phone: 793-4013	Computer Literacy	7	WICAT
	Computer Programming	9-12	Apple II/IBM Compatible
	Reading/Language Arts	1-12	WICAT/Apple II/IBM PCjr/ IBM Compatibles
	Science	1-12	Apple II/IBM Compatible
	Mathematics	1-12	WICAT/Apple II/IBM Compatible
	Social Studies	1-12	Apple II/IBM Clones
	Tool (word processing, etc.)	9-12	Apple II/IBM Compatible
	Business Education	9-12	IBM Compatible
	Vocational Education	9-12	IBM Compatible

Description of Computer Use
WICAT labs in the middle schools provide CAI effort in the district. All business courses in the high schools take place in a Novell network environment. As computerization takes place in the high schools, those computers are moved to the middle school-level for computer literacy efforts. All schools operate in a Novell network environment with 75 users on the district network.

School and District Office Computers: Future Plans
- Automate, via modems, the backup of OSIP 'S data.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	545	433	73	39	214
District Office	79	0	79	0	23

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Lexington 3 Dorothy Stone Coordinator, Computer 121 West Columbia Avenue Batesburg, SC 29006 Phone: 532-9280	Computer Literacy	1-8	Apple IIc/IIe
	Reading/Language Arts	2-12	Atari/Apple II/IIe
	Science	2-12	Apple IIe
	Mathematics	2-12	Atari/Apple II/IIe
	Social Studies	2-12	Apple IIe
	Tool (word processing,etc.)	9-12	TRS 80/DTK/Harris/Lanier
	Business Education	9-12	TRS 80/DTK/Harris/Lanier
	Vocational Education	9-12	TRS 80/DTK/Harris/Lanier

Description of Computer Use
Atari ST computers are used in labs (CCC) to teach basic skills in grades 2-12. Apples are used in classrooms to teach a variety of skills as well as compu ter literacy in grades 2-8. Apple IIe's are used in a lab at the middle-school level for literacy and other activities. This lab is also used before school for computer clubs. Business courses which include word processing and data processing are taught on Tandy TRS-80 and DTK computers.

School and District Office Computers: Future Plans
- Add an Apple IIgs lab to teach keyboarding skills and word processing skills at the middle school (grades 6-8).
- Add an IBM lab to teach programming at the high school (grades 9-12).

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	149	152	13	4	57
District Office	5	1	4	0	6

District/Contact	School Computers Instructional Uses	Grade Span
Lexington 4	Computer Literacy	1-8
West Ives	Computer Programming	5
Coordinator, Computer	Reading/Language Arts	1-12
P.O. Box 569	Science	12
Swansea, SC 29160	Mathematics	12
Phone: 568-4158	Social Studies	5-8
	Tool (word processing, etc.)	10-12
	Business Education	1-12
	Vocational Education	10-12

Description of Computer Use

"Writing to Read" labs are used at both elementary schools. The middle-school has two remedial labs. The high-school lab is used for vocational and other activities. All schools are networked for various instructional use.

School and District Office Computers: Future Plans

- Network entire district so that every computer is attached to every resource in the district.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	140	72	48	20	23
District Office	16	0	16	0	5

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Lexington 5 Aleda R. Anderson Coordinator, Computer Education P.O. Box 938 Ballentine, SC 29002 Phone: 781-0457	Computer Literacy	K-12	*Apple IIe and IBM PC computers are used throughout the instructional program. *Note: The district has its own in-house maintenance and repair program implemented through the Computer Technology Course (Vocational Education).
	Computer Programming	2-12	
	Reading /Language Arts	K-12	
	Science	K-12	
	Mathematics	K-12	
	Social Studies	K-12	
	Foreign Language	8-12	
	Tool (word processing, etc.)	K-12	
	Business Education	10-12	
	Vocational Education	10-12	
	Other (Remedial/Enrichment)	K-12	

Description of Computer Use

Beginning in kindergarten, computer experiences for students are integrated into the existing instructional programs rather than through pull-out computer programs (i.e., all first- and second-grade students receive computer keyboarding training as part of their language arts program). Word processing begins in second grade and is introduced through LogoWriter software; in the sixth grade, students use Appleworks integrated software. Robotics is implemented in grades 3-5 through the science curriculum using LegoLogo. All fifth-grade students plot on x, y axes to create computer graphics in mathematics. At the middle- and junior-high levels, labs and individual classroom systems offer opportunities for word processing, CAI, and computer programming. All seventh-grade students create databases as part of their genetic study in science. Desktop publishing is part of language instruction. Secondary students have access to the math/science lab, journalism computers, and select courses from Introduction to Computers, Computer Science I (BASIC), Data Processing, Computer Typing/Keyboarding, Computerized Accounting and Computer Technology (maintenance and repair). CAI is used in all areas of the curriculum and for preparation in academic competition.

School and District Office Computers: Future Plans

- Elementary-Kindergarten: Add K-6 computer strands at the new school, H.E. Corley Elementary; continue teacher training at all schools and purchase additional resources.
- Secondary (Writing Lab): Implement a writing lab with word processing software for creative writing; teach eighth-grade students to work with spreadsheet software.
- Media Automation: Install network in four more schools, increasing the total to eight. Circulation is automated and catalog stations are networked to a file server as students access on-line catalog searches.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	746	587	101	57	273
District Office	42	0	39	3	36

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
McCormick	Computer Literacy	9-12	Apple IIe
Marsha DuPre	Computer Programming	9-12	Apple IIe
Guidance Counselor/	Reading/Language Arts	K-12	Apple IIe
Pathways Coordinator	Science	1-8	Apple IIe
P.O. Box 458	Mathematics	1-12	Apple IIe
801 Carolina Street	Social Studies	1-12	Apple IIe
McCormick, SC 29835	Foreign Language	9-12	Apple IIe
Phone: 465-2243	Tool (word processing, etc.)	9-12	IBM PC
	Business Education	9-12	IBM PC
	Vocational Education	9-12	Apple IIe
	Special Education	1-12	Apple IIe

Description of Computer Use

Apple IIc's are used in all schools for instruction. IBM PC's are used in the business education department at the high school level (grades 9-12). NCR's are used in the elementary, middle, and high school for administrative use, as well as by the director of special services who uses an NCR for administrative use. The district office uses an IBM and a Macintosh for administrative purposes.

School and District Office Computers: Future Plans

- Install a writing lab at the high school.
- Increase intra-district use of communications software.
- Fully implement TRIMS and PARTS.
- Continue staff development to increase computer literacy.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	226	205	21	0	57
District Office	4	0	4	0	4

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Marion 1	Computer Literacy	K-12	Apple IIe/IIgs/TRS-80 III & IV
Albert A. Blake	Computer Programming	9-12	Apple IIe/TRS-80 III & IV
Director, Operations	Reading/Language Arts	K-12	Apple IIe/IIgs/CCC
616 Northside Avenue	Science	K-12	Apple IIe
Marion, SC 29571	Mathematics	K-12	Apple IIe/IIgs/CCC/TRS-80 III & IV
Phone: 423-1811	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe

Description of Computer Use

All elementary students are given access to computers on a limited basis; Chapter I remedial and compensatory math students are receiving CAI using CCC (grades 3-12). Chapter-I students in reading also use CAI with CCC. Students in grades 9-12 may elect to take an introductory computer course and an introduction to PASCAL.

School and District Office Computers: Future Plans

- Continue to more fully utilize available technology.
- Expand the use of MECC materials and CAI through updated technology using CCC.
- Purchase additional computers and printers.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	171	161	9	1	62
District Office	14	0	14	0	13

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Marion 2	Computer Literacy	8-12	TRS-80/Apple/Tandy 1000
James H. Hall, Jr.	Computer Programming	9-12	TRS-80/Apple/Tandy 1000
Elementary Curriculum/	Reading/Language Arts	7-11	Apple IIe
Federal Programs Coordinator	Science	1-8	Apple IIe
P.O. Box 689	Mathematics	1-12	Apple IIe
Mullins, SC 29574	Social Studies	1-8	Apple IIe
Phone: 526-2181	Tool (word processing, etc.)	K-12	Apple IIe

Description of Computer Use
Computers are available at all schools for individual use, special compensatory classes, "Writing to Read", Prescription Learning, and GRI labs. Computers are available for teacher use and administrative functions.

School and District Office Computers: Future Plans
- Install computer-assisted instruction, classroom management, and other functions as time and funds permit.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	285	269	14	2	79
District Office	12	0	12	0	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Marion 3	Computer Literacy	9-12	TRS-80
Rachel J. Mason	Reading/Language Arts	1-12	Apple IIe
Coordinator, Special Services	Science	1-8	Apple IIe
P.O. Drawer 439	Mathematics	1-12	Apple IIe
Rains, SC 29589	Social Studies	1-8	Apple IIe
Phone: 423-2891	Business Education	9-12	TRS-80
	Vocational Education	9-12	Apple IIe

Description of Computer Use
Computers are available for use in (1) individual classrooms, (2) the vocational education department, (3) media centers located within libraries, and (4) remedial mathematics and reading laboratories. Computers are also available in the main office of each schools for office management and business functions.

School and District Office Computers: Future Plans
- Train additional personnel in the use of the OSIRIS Pathways System.
- Supplement the regular reading program with a computerized program.
- Purchase additional hardware and software to enhance the overall academic program.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	46	40	5	1	21
District Office	3	0	3	0	3

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Marion 4 Jean W. Pearson Route 1, Box 499 Director, Special Services Gresham, SC 29546 Phone: 362-0331	Reading /Language Arts	1-7	Commodore 64/ Atari LS 1040 ST (2-7)
	Mathematics	1-7	Commodore 64/ Atari LS 1040 ST (2-7)
	Business Education	9-12	IBM PS
	Vocational Education	11-12	Apple IIe
	Other	8-12	NCR/Apple IIe/TRS-80/ Digital (Decmate or Rainbow)

Description of Computer Use
Britton's Neck Elementary School has a Chapter-I reading and math lab that serves grades 2-7. Britton's Neck High School currently participates in the Governor's Remedial reading and math lab program.

School and District Office Computers: Future Plans
- Expand the Chapter I CCC lab.
- Add Josten's learning management system to the compensatory reading and math classes at the elementary level, and remedial at the high-school level.
- Use computers in math classrooms, language art classrooms, and libraries.
- Include computers in the instructional programs for special education and kindergarten.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	43	30	3	10	15
District Office	2	0	2	0	2

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Marlboro Herbert H. Gould Director, Elementary and Middle Schools P.O. Box 947 Bennettsville, SC 29512 Phone: 479-4016	Computer Literacy	1-12	Apple IIe
	Reading/Language Arts	1-12	Apple IIe
	Mathematics	1-12	Apple IIe
	Vocational Education	9-12	IBM PC/IBM Model 30

Description of Computer Use
Computer-awareness programs have been designed for students in grades 1-12. Instructional programs in reading and math are provided for students enrolled in remedial/compensatory programs (grades 1-12) and for Chapter-I students (grades 4-8). Introduction to keyboarding is taught in grades 6 and 7. Counselors are using computers for career information and SAT practice activities. Computers are also used for compiling test and student information, business management, and drafting classes (grades 11-12). The district office maintains personnel records and plans are to include instructional inventories and internal accounts. Master schedules and individual student schedules are being prepared for the high school and middle school with the aid of computers.

School and District Office Computers: Future Plans
- Design the school district staff development plan toward the appropriate software (all levels).
- Network all schools in the district with the district office and the SDE.
- Purchase more computers for remediation in math and reading (all levels).

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	358	324	26	8	79
District Office	14	0	14	0	14

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Newberry	Computer Literacy	4-5	Apple IIe
Donna M. Elmore	Computer Programming	11-12	TRS-80
Assistant Superintendent,	Reading/Language Arts	4-8	Apple IIe
Instruction	Science	9-12	Apple IIe/IIgs
P.O. Box 718	Mathematics	4-12	Apple IIe/IIgs
Newberry, SC 29108	Tool (word processing, etc.)	10-12	TRS-80/IBM/Apple
Phone: 321-2600	Business Education	10-12	TRS-80/IBM/Apple

Description of Computer Use

All compensatory/remedial students receive CAI using an Apple IIe or IIgs. All high schools have computer labs equipped with Apple IIe or IIgs for math and science CAI. One elementary school (grades 4-5) has a Apple IIe lab for CAI. Students in grades 11-12 have the option to take computer science. All business and/or office occupation students receive data processing and word processing training.

School and District Office Computers: Future Plans

- Complete installation of IBM computers/computer labs in the three high schools and the two junior high schools as part of the Target 2000 program funded through the SDE.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	307	233	48	26	107
District Office	23	0	23	0	23

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Oconee	Computer Literacy	K-12	Commodore/Apple/IBM
Joseph Rukat	Computer Programming	9-12	Commodore/Apple/IBM
Coordinator, Math and Computers	Reading/Language Arts	K-12	Commodore/Apple
P.O. Box 220	Science	K-12	Commodore/Apple
Walhalla, SC 29691	Mathematics	K-12	Commodore/Apple
Phone: 638-4059	Tool (word processing, etc.)	9-12	IBM
	Business Education	8-12	149 IBM Computers
	Vocational Education	9-12	IBM

Description of Computer Use

Over the past few years, the district has steadily increased computer quantities to where 42 percent of the elementary schools have laboratories. The primary concern in the elementary area is literacy--the goal is to have every elementary student computer-literate before reaching the middle-school grades.

In the middle-school grades, computer literacy continue to be emphasized, but programming is also addressed. All middle schools have IBM laboratories. Because of the county's participation in the State Vocational Education consortium, 130 IBM Mode 25 computers were purchased for student use and five IBM Model 30 computers were purchased for teacher use in the five middle-school laboratories. The county's goal is to have every student master keyboarding skills by the end of the eighth grade, using "PC Viewers" interfaced to the IBM Model 30 computers as the primary means of instruction, with Touch Typing Tutor as the support software.

Every secondary school has a laboratory. Each has received five additional IBM Model 25 computers. In addition, all of the high schools are networked for administrative purposes.

School and District Office Computers: Future Plans

- Continue to purchase one or two computer systems for every elementary school.
- Continue participation in the South Carolina Education Consortium, which will possibly provide additional equipment for middle/junior high schools.
- Continue to expand existing secondary computer laboratories by one or two computer systems.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	782	649	97	44	245
District Office	22	7	13	2	15

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 1	Computer Programming	11-12	TRS-80/NCR/IBM
J. Kirk Mixson	Reading/Language Arts	1-12	Apple IIe
Coordinator, District Computer	Mathematics	1-12	Apple IIe
P.O. Box 337	Tool (word processing, etc.)	11-12	TRS-80/NCR/IBM
Springfield, SC 29146	Business Education	11-12	TRS-80/NCR/IBM
Phone: 258-3418	Vocational Education	9-12	Apple IIe
	Other (Special Education)	8-12	Apple IIe

Description of Computer Use

The TRS-80, IBM, and NCR computers are housed in the business department and are used primarily by students in that department to learn word processing skills; however, the computers are available to students with time in their schedules to work with them. Eleventh- and twelfth-graders are taught data processing. The Apple IIe computers are used for instruction in reading/language arts, math (computer lab for remedial students), special education, and vocational classes.

School and District Office Computers: Future Plans

- Use computers in science instruction.
- Offer an on-site computer class for teachers.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	117	112	4	1	36
District Office	2	0	2	0	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 2	Computer Literacy	K-12	Apple IIe/Commodore 64/ Commodore 8032
Thomas B. Reeves	Reading/Language Arts	1-12	Apple IIc/IIe
Assistant Superintendent	Mathematics	1-12	Apple IIc/IIe
P.O. Box 36	Business Education	9-12	IBM PS2 Model 30
Bowman, SC 29018	Vocational Education		Apple IIe/IIc
Phone: 829-2981			

Description of Computer Use

The new IBM PS/2 Model 30 computers are used to teach typewriting in grades 9-12 and to teach adult vocational education courses. Apple computers are used for remediation in Chapter I reading and mathematics activities in a computer lab for remedial students in grades 7-12 and in vocational courses for remedial students. The Commodore computers are used to teach computer literacy.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	75	73	2	0	12
District Office	2	0	2	0	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 3 Mulesh M. Swami Director, Mathematics P.O. Box 98 Holly Hill, SC 29059 Phone: 496-3288	Computer Programming	10-12	TRS-80 Model III
	Reading/Language Arts	K-12	Apple IIe/TRS-80 Color/ IBM PC/IBM PCjr
	Science	1-8	Apple IIe/IBM PC
	Mathematics	K-12	Apple IIe/TRS-80 Color/IBM PC/ Rainbow
	Business Education	10-12	Lanier/IBM PC

Description of Computer Use
Computers are used in reading and mathematics for Chapter I (grades 1-6) and kindergarten classes. Computer use in the middle schools has increased this year. High-school business students regularly use computers. The district also offers two one-semester introductory computer science courses for high school students.

School and District Office Computers: Future Plans
- Purchase computers for all high school mathematics and science classes.
- Encourage teachers to obtain needed training for use of computers in their classes.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	281	255	14	12	66
District Office	6	0	0	6	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 4 George Stoltz Guidance Counselor P.O. Box 69 Cordova, SC 29039 Phone: 534-8081	Computer Literacy	K-12	Apple IIe
	Reading/Language Arts	9-12	IBM
	Science	9-12	IBM
	Mathematics	2-12	Apple IIe/IBM
	Business Education	10-12	Lanier

Description of Computer Use
Presently, all students in grades 1-4 are being exposed to computers. Chapter 1 reading and math students are being trained on IBM computers. Middle-school students now have access to computers and will be provided with additional workstations as funds become available. Students in grades 9-12 have access to IBM workstations having updated programs.

School and District Office Computers: Future Pla:
- Purchase additional workstations for Chapter-I reading and math students at the high school and middle school.
- Continue to update the high-school computer lab.
- Purchase new and innovative programs for the primary school as funds become available.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	121	106	13	2	38
District Office	4	2	2	0	3

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 5 Louise H. Amos Coordinator, CAI/CMI/Pathways 578 Ellis Avenue Orangeburg, SC 29115 Phone: 534-5454	Computer Literacy Computer Programming Reading/Language Arts Science Mathematics Social Studies Foreign Language Tool (word processing, etc.) Business Education Vocational Education	K-12 9-12 K-12 2-12 K-12 1-6 9-12 K-12 9-12 9-12	(Apple IIe/IIgs/ IBM PCjr/PC/PC XT/PC AT/ IBM PS2-25/30/50/60/70/80)

Description of Computer Use
Courseware/software programs are provided in each content area at each grade level to supplement, enhance, and reinforce the regular curriculum.

School and District Office Computers: Future Plans

- Complete the schoolwide network installation in each of the three middle schools.
- Increase staff development in the middle schools.
- Provide additional staff in-service for more advanced use of technology in classroom and administrative areas.
- Continue project development for middle and high-school libraries.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	797	732	50	15	185
District Office	44	1	41	2	32

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 6	Computer Literacy	10-12	Apple IIe
Pam Williams	Reading/Language Arts	Elem./	
Coordinator, Pathways/		9-12 Rem.	Apple IIe
Payroll Clerk	Science	Elem.	Apple IIe
P.O. Box 640	Mathematics	Elem./9-12 Rem.	Apple IIe
North, SC 29112	Social Studies	Elem.	Apple IIe
Phone: 247-2162	Tool (word processing, etc.)	10-12	Apple IIe
	Vocational Education	9-12	Apple IIe
	Other (SCOIS)	9-12	Apple IIe

School and District Office Computers: Future Plans

- Install computers in every classroom so that all students can have hands-on experience.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	25	19	4	2	12
District Office	4	0	4	0	1

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 7	Computer Literacy	K-12	Apple II/IBM PCjr
Myrtle R. Hardwick	Computer Programming	9-12	Apple II/IBM PCjr
Coordinator, Pathways/Secretary	Reading/Language Arts	K-12	Apple II/IBM PCjr
P.O. Drawer L	Science	K-12	Apple II/IBM PCjr
Elloree, SC 29047	Mathematics	K-12	Apple II/IBM PCjr
Phone: 897-2211	Tool (word processing, etc.)	9-12	Apple II/IBM PCjr
	Business Education	9-12	Apple II/IBM PCjr
	Vocational Education	9-12	Apple II/IBM PCjr

Description of Computer Use

The above instructional uses are supplemental methods(CAI and management).

School and District Office Computers: Future Plans

- Install a computer in every classroom.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	71	66	5	0	10
District Office	5	0	5	0	5

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Orangeburg 8 Ella S. Bright Coordinator, Computer P.O. Box 248 Branchville, SC 29432 Phone: 274-8875	Computer Literacy	8-12	Lanier/Apple IIe/IIc/IIgs
	Computer Programming	12	Lanier
	Reading/Language Arts	5-12	Apple IIe/IIgs
	Science	8-12	Apple IIe/IIgs
	Mathematics	1-12	Apple IIe
	Foreign Language	10-12	Apple IIe
	Tool (word processing, etc.)	1-12	Lanier/Apple
	Business Education	10-12	Lanier
	Vocational Education	9-12	Apple IIgs

Description of Computer Use
Computers are used primarily as a supplement to instruction. Some BASIC programming is done at the high-school level.

School and District Office Computers: Future Plans
- Purchase a data display system for each school in the district.
- Network (OSIRIS) each school for administrative purposes.
- Purchase an additional computer for the Pathways coordinator.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	62	49	4	9	37
District Office	2	0	0	2	2

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Pickens Richard Gettys Director, Management Information Services Route 8, Box 375 Easley, SC 29640 Phone: 859-1405	Computer Literacy	7-12	Commodore 64/Apple IIe/IBM/NCR
	Computer Programming	8-12	Commodore 64/Apple IIe/IBM/NCR
	Reading/Language Arts	K-12	Commodore 64/Apple IIe/IBM/NCR
	Science	K-12	Commodore 64/Apple IIe/IBM/NCR
	Mathematics	K-12	Commodore 64/Apple IIe/IBM/NCR
	Social Studies	K-12	Commodore 64/Apple IIe/IBM/NCR
	Foreign Language	8-12	Commodore 64/Apple IIe/IBM/NCR
	Tool (word processing, etc.)	7-12	Commodore 64/Apple IIe/IBM/NCR
	Business Education	9-12	Commodore 64/Apple IIe/IBM/NCR
	Vocational Education	7-12	Commodore 64/Apple IIe/IBM/NCR

Description of Computer Use
The primary use of computers is as a supplement (enhancement) to instruction at as many levels as possible. Some programming (LOGO) is done at the elementary level; however, most programming is at the secondary level, with emphasis on computer science through BASIC or PASCAL. Two keyboarding labs have been established in schools. Elementary schools have added computers and now provide more computer instruction.

School and District Office Computers: Future Plans
- Install in each school a computer lab and sufficient mobile computers for classroom use.
- Install a computer with large screen monitor in every classroom, starting with grades 7-12.
- Increase workshops to provide for more extensive teacher use of computers.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	744	585	89	70	359
District Office	29	0	29	0	26

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Richland 1 Jim Hockman Coordinator, Instructional Computing 1616 Richland Street Columbia, SC 29204 Phone: 733-5304	Computer Literacy	K-12	Apple IIe/IIgs/IBM PCjr
	Computer Programming	2-12	Apple IIe/IIgs/IBM PCjr
	Reading/Language Arts	K-12	Apple IIe/IIgs/IBM PS2/PCjr
	Science	3-12	Apple IIe/IIgs/IBM PCjr
	Mathematics	K-12	Apple IIe/IIgs/IBM PCjr
	Social Studies	2-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	K-12	Apple IIe/IIgs/IBM PC/PCjr/Model 25
	Business Education	9-12	IBM PC/Tandy 1000
	Vocational Education	9-12	IBM PC

Description of Computer Use

Computers are available to students in labs, classrooms, and media centers throughout the district. The thrust for computer use is to integrate the technology into the regular instructional program. Literacy courses are offered to middle- and high-school students. Students in business education, Chapter I, EIA, special education, and gifted programs use computers on a regular basis. Seventeen networked Apple labs and four networked IBM writing centers have been added in the last two years. Thirteen CCC integrated instructional systems will be operational by August 1990 in EIA and Chapter I programs.

School and District Office Computers: Future Plans

- Offer, via staff development program, comprehensive training in the use of computers and technology to support instruction.
- Offer workshops and courses for certificate renewal and graduate credit.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	2,194	1,933	134	125	878
District Office	162	53	91	18	110

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Richland 2	Computer Literacy	Pre-K-8/10-12	Apple IIe/IIgs/IBM PS/2 Model 25
Deborah G. Randolph	Computer Programming	7-8/11-12	Apple IIe
Manager, Computer Services	Reading/Language Arts	Pre-K-8	Apple IIe/IIgs/IBM PS/2 Model 25/30
6831 Brookfield Road	Science	2-12	Apple IIe/IIgs/IBM PS/2 Model 25/30
Columbia, SC 29206	Mathematics	Pre-K-12	Apple IIe/IIgs/IBM PS/2 Model 25/30
Phone: 787-1910	Social Studies	3-12	Apple IIe/IIgs/IBM PS/2 Model 25/30
	Foreign Language	7-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-8	Apple IIe/IIgs/IBM PS/2 Model 25/30
	Business Education	10-12	Apple IIe/IBM PC/PS/2/Model 25
	Vocational Education	11-12	Apple IIgs/IBM PC/PS/2/Model 25
	Other (Art)	1-5	Amiga
	Journalism/Newspaper/ Yearbook	8/10-12	Apple IIgs/IIe/Macintosh
	Special Education	K-12	Apple II/IIe

Description of Computer Use

Three-, four-, and five-year olds participate at least once a week in developmentally appropriate computer activities. Computers are used in elementary school in "Writing to Read" labs, reading, math, science, word processing, on-line encyclopedia, math and reading remediation, and the take-home computer program. In the middle schools, computers are used in math, reading, science, critical-thinking skills, journalism/newsletters, word processing, computer programming. At the secondary level, computers are used in science and math labs, computer programming, word processing, remedial labs, research skills, and journalism in the production of newsletters and the yearbook. MECC software is used with all grade levels.

School and District Office Computers: Future Plans

- Install 15-station labs at the middle schools and 24-station labs at the high schools for Target 2000/at-risk-students.
- Equip library circulation systems with on-line card catalog at all schools.
- Continue participation in the SDE CMS pilot project.
- Increase staff development in all areas.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	862	721	112	29	314
District Office	58	0	55	3	46

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Saluda Kay Rankin Coordinator, Basic Skills and Chapter I 404 N. Wise Road Saluda, SC 29138 Phone: 445-8064	Computer Literacy	1-12	Apple IIe
	Computer Programming	7-12	Apple IIe
	Reading/Language Arts	K-12	Apple IIe/Atari
	Science	K-12	Apple IIe
	Mathematics	K-12	Apple IIe/Atari
	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe
	Other (Gifted)	3-10	Apple IIe/IIgs
	Other (Resource)	1-12	Apple IIe/IIgs

Description of Computer Use

All elementary students are given limited access to computers. In compensatory, remedial, and Chapter-I classes, computers are used for drill and practice. Kindergarten and first-grade students have CAI in math and reading. Computer instruction provides enrichment in G/T classrooms. The middle school has distributed former lab computers to teachers so that they may use them according to their needs for the day's instruction. At the high school, computers are used to teach word and data processing, computer literacy, computer science, and CAI in math and consumer homemaking. A computer lab is available to all students and teachers. Twenty Atari computers have been purchased to remediate seventh and eighth grade students in reading, writing, and math.

School and District Office Computers: Future Plans

- Install a writing lab for in high school and one of the elementary schools in 1990-91.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	134	121	11	2	41
District Office	6	0	6	0	3

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 1	Computer Literacy	1-12	Apple IIe
Don Denton	Computer Programming	7-12	Apple IIe
Coordinator, Business	Reading/Language Arts	K-12	Apple IIe
P.O. Box 218	Science	K-12	Apple IIe
Campobello, SC 29322	Mathematics	K-12	Apple IIe
Phone: 472-2346	Social Studies	K-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	9-12	Apple IIe
	Business Education	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe
	Other	1-12	Apple IIe

Description of Computer Use

All elementary students are given limited access to computers. In compensatory, remedial, and Chapter-I classes, computers are used for drill and practice. For the first time this year, students also received a computer-literacy course in the Chapter-I classes and a selected compensatory class. Kindergarten and first-grade students have CAI in math and reading. Computer instruction provides enrichment in G/T classrooms. The middle school has a computer lab available to all teachers and students. At the high school, computers are used to teach word and data processing, computer literacy, computer science, and CAI in math and consumer homemaking. A computer lab is available to all teachers and students.

School and District Office Computers: Future Plans

Add three IBM-compatible computers for increased administration use in FY '91.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	204	182	13	9	59
District Office	6	0	6	0	3

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 2	Computer Literacy	10-12	Apple IIe/gs
Joan E. Narron	Reading /Language Arts	1-12	Apple IIe/WICAT/Apple IIgs
Coordinator, Assistant Pathways	Science	4-12	Apple IIe
3655 Boiling Springs Road	Mathematics	K-12	Apple IIe
Spartanburg, SC 29303	Social Studies	K-8	Apple IIe
Phone: 578-0128	Business Education	10-12	IBM

Description of Computer Use

Five of our six elementary schools have computer labs, which are used for instruction in reading/language arts, science, social studies and math. In the middle schools, computers are used for instruction, drill, and practice. Secondary students use computers for word processing in business education and for application of spreadsheets and databases in computer literacy courses. One high school has a WICAT lab for instruction. The Pathways project is being used in 11 schools in the district for attendance. Three schools also use Grade Reporter and Scheduler.

School and District Office Computers: Future Plans

- Purch. odems for each school.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	440	253	33	155	135
District Office	21	0	21	0	22

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 3	Computer Literacy	10-12	Apple IIe/IIgs
Dr. Ann T. White	Reading/Language Arts	K-6	Apple IIe/IIgs
Director, Media and Public	Science	4-12	Apple IIe/IIgs
Information Services	Mathematics	K-12	Apple IIe/IIgs
P.O. Box 267	Social Studies	K-8	Apple IIe/IIgs
Glendale, SC 29346	Business Education	10-12	IBM
Phone: 579-3330			

Description of Computer Use
Elementary students have access to computers in the classroom and in school library media centers. Computers are used for computer-assisted instruction. Computer literacy is taught in all of these programs. At the high school, computers are used to teach word processing, computer literacy and computer science. Compensatory, remedial, and Chapter-I classes use computers for drill and practice. All special education classes have computers to assist with instruction.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	244	168	35	41	139
District Office	12	0	12	1	10

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 4	Computer Literacy	1-12	Apple
Glen R. Carson	Computer Programming	7-12	Apple
Instructional Coordinator/Computers	Reading/Language Arts	K-12	Apple
P.O. Box 669	Mathematics	K-12	Apple
Woodruff, SC 29388	Tool (word processing, etc.)	7-12	Apple
Phone: 476-3186	Business Education	10-12	Leading Edge (IBM compatible)
	Other	10-12	Macintosh SE

Description of Computer Use
A networked computer lab is used at Woodruff Primary School by all teachers. Woodruff Elementary School's computer lab is used in basic skills remediation as well as teaching computer literacy. The computer lab at Woodruff Junior High School is used in computer literacy instruction. Woodruff High School's Apple computers are used in mathematics instruction; the school's IBM compatibles are used in business education; and the Macintosh is used by journalism students in publishing the school newspaper.

School and District Office Computers: Future Plans
- Increase use of computers for remediation at Woodruff Junior High.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	181	142	13	26	75
District Office	8	0	8	0	7

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 5 Dr. Sid Crumpton Assistant Superintendent P.O. Box 307 Duncan, SC 29334 Phone: 439-6326	Computer Literacy	1-12	Apple IIe
	Computer Programming	11-12	Apple IIe
	Reading/Language Arts	9-12	Apple IIe
	Science	9-12	Apple IIe
	Mathematics	9-12	Apple IIe
	Social Studies	9-12	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	11-12	IBM
	Business Education	11-12	IBM
	Vocational Education	9-12	IBM/IBM PCjr

Description of Computer Use
Computer literacy is provided for students. Computers are used to remediate students in mathematics and reading.

School and District Office Computers: Future Plans
- Develop a five-year plan, based on the district's technology study.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	229	210	14	5	93
District Office	13	0	13	0	9

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 6 Judith A. Antley Coordinator, Math/Testing/ Pathways 1493 W. O. Ezell Boulevard Spartanburg, SC 29301 Phone: 576-4212	Computer Literacy	9-12	IBM or Compatible
	Computer Programming	9-12	IBM or Compatible
	Reading/Language Arts	1-12	CCC
	Mathematics	1-12	CCC
	Tool (word processing, etc.)	9-12	IBM or Compatible
	Business Education	9-12	IBM
	Vocational Education	9-12	Tandy/IBM
	Special Education	1-12	Apple/Commodore
		Pre-K	Apple

Description of Computer Use
Apples are used throughout the district in teacher's rooms or grouped together in the media center. Also, some IBM-compatible PCs are used.

School and District Office Computers: Future Plans
- Expand classroom use with Pathways project.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	362	280	36	46	70
District Office	13	2	11	0	13

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Spartanburg 7	Computer Literacy	3-12	Apple IIe
Carol Ellis	Computer Programming	3-12	Apple IIe
Director, Compensatory Program	Reading/Language Arts	1-8	Tandy/Apple IIe
P.O. Box 970	Science	10-12	Apple IIe
Spartanburg, SC 29304	Mathematics	1-12	Tandy/Apple IIe
Phone: 594-4400	Social Studies	1-6	Apple IIe
	Tool (word processing, etc.)	10-12	Apple IIe/Lanier
	Business Education	10-12	Apple IIe/Lanier
	Take-Home Computer	1-6	IBM PC/2 25

Description of Computer Use
The district added emphasis in the Take-Home Computer Program, supported by the Chapter-I program. Two hundred fifty IBM PC/2 25 computers were put into place this year.

School and District Office Computers: Future Plans
- Initiate applications included in the state's Pathways project and the CMS project.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	834	666	62	105	195
District Office	340	51	285	3	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Sumter 2	Computer Literacy	K-12	Apple IIe
Ted Westmoreland	Computer Programming	10-12	IBM PC/XT
Instructional Assistant,	Reading/Language Arts	2-12	Apple IIe
Media Services	Science	6-12	Apple IIe
1345 Wilson Hall Road	Mathematics	K-12	Apple IIe
Sumter, SC 29151	Social Studies	8-12	Apple IIe
Phone: 469-6900	Tool (word processing, etc.)	9-12	IBM PC/Xt
	Business Education	9-12	IBM PC/XT
	Vocational Education	9-12	IBM PC/XT

Description of Computer Use
Ten WICAT mainframe systems at 10 elementary schools, with 30 workstations each serve 3,600 students per day. The lab is also used for summer enrichment in writing and mathematics. Chapter-I reading and math classes use EDL and the Prescription Learning curriculum program. Vocational programs include data processing

School and District Office Computers: Future Plans
- Expand WICAT.
- Fully implement Pathways.
- Continue ongoing OSIRIS training and staff development.
- Implement TRIMS for textbook management.
- Expand the use of microcomputers in the handicapped programs.
- Enhance Chapter-I reading and math compensatory programs with pilot programs using computers in a laboratory setting.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	444	399	31	14	118
District Office	41	0	41	0	43

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Sumter 17 Lawrence W. Williams Coordinator, Media and Technology P.O. Box 1180 Sumter, SC 29151 Phone: 469-8536	Computer Literacy	K-12	Apple IIe/IIgs/IBM PC
	Computer Programming	K-12	Apple IIe/IIgs/IBM PC
	Reading/Language Arts	K-12	Apple IIe/IIgs/IBM PC
	Science	K-12	Apple IIe/IIgs/IBM PC
	Mathematics	K-12	Apple IIe
	Social Studies	K-12	Apple IIe
	Foreign Language	K-12	Apple IIe
	Tool (word processing, etc.)	K-12	Apple IIe/IIgs/IBM PC/IBM PCjr
	Business Education	9-12	Apple IIe/IBM PC
	Vocational Education	9-12	IBM PC
	Other (Adult)	Adult	Apple IIe/IBM PC

Description of Computer Use

The school's MS-DOS computers are networked to each administrator's office. All district schools use the OSIRIS software for their administrative activities. The schools and the district media center provide training for software products for administrative and instructional use. Annual computer camps are offered each summer. A complete IBM "Write to Read" lab is housed at Alice Drive Elementary and all schools use Prescription Learning resources. The schools have access to computer labs and computers on carts in each school. These are used for all levels of instruction. A district computer catalog is published containing MECC and commercial software. The high school has a semester course in computer math and a two-semester course in data processing.

School and District Office Computers: Future Plans

- Continue to implement the Pathways project with additional modems and training.
- Expand instructional software resources and available hardware.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	395	282	53	60	175
District Office	20	0	18	2	17

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Union William (Billy) Shaw Coordinator, Pathways P.O. Box 907 Union, SC 29379 Phone: 429-1740	Computer Literacy	K-12	Apple IIc/IIgs/IBM XT/IBM PS/2
	Computer Programming	9-12	IBM XT
	Reading/Language Arts	K-12	Apple IIe/IIgs/ IBM XT
	Science	K-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	K-12	Apple IIe/IIgs
	Tool (word processing, etc.)	9-12	IBM XT/IBM PS2/IBM Compatible
	Business Education	9-12	IBM XT/IBM PS2/IBM Compatible
	Vocational Education	9-12	IBM XT/IBM PS2/IBM Compatible

Description of Computer Use
Two high schools, a middle school, and a junior high school are networked. All schools are doing attendance, discipline, and scheduling on computers. Some schools are doing grade reporting on computers. Apple IIe and IIgs computers are used in grades K-8 for remediation. The vocational school uses IBM's and IBM clones to teach students keyboarding, word processing, desktop publishing, spreadsheets, and database management.

School and District Office Computers: Future Plans
- Network one of the elementary schools next year.
- Network the district office's personnel department using MS-DOS computers.
- Purchase an IBM lab for the vocational school, to be used for instructional purposes and to teach teachers and administrators database management.
- Purchase or receive grants for IBM labs at two elementary schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	379	301	33	45	110
District Office	17	0	16	1	12

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
Williamsburg Judy Fennell Coordinator, Media Services P.O. Box 1067 Kingstree, SC 29556 Phone: 354-5571	Computer Literacy	K-12	Apple IIe/gs/TRS-80/IBM/Atari
	Computer Programming	9-12	IBM/TRS-80
	Reading/Language Arts	K-12	Apple iIe/gs/Atari
	Science	K-12	Apple IIe/gs
	Mathematics	K-12	Apple IIe/gs/Atari
	Social Studies	K-12	Apple IIe/gs
	Foreign Language	9-12	Apple IIe/gs
	Tool (word processing, etc.)	4-12	Apple IIe/gs/IBM and Compatibles
	Business Education	9-12	Apple IIe/gs/IBM and Compatibles
	Vocational Education	9-12	Apple IIe/gs/IBM and Compatibles

Description of Computer Use
Computers are used in classrooms and labs. Additional CCC labs have been added.

School and District Office Computers: Future Plans
- Begin automation of the libraries.
- Network more schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	662	603	37	22	153
District Office	39	0	13	26	36

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
York 1 Raymond Stemmer Coordinator, Computer P.O. Drawer 770 York, SC 29745 Phone: 684-3107	Computer Literacy	1-12	Apple IIe/Atari/CCC SLS
	Computer Programming	9-12	Apple
	Reading/Language Arts	1-12	CCC SLS-1/Apple IIe/IIgs
	Science	9-12	Apple IIe/Tandy
	Mathematics	1-12	CCC SLS-1/Apple IIe/IIgs
	Social Studies	7-8	Apple IIe
	Foreign Language	9-12	Apple IIe
	Tool (word processing, etc.)	10-12	Tandy/Macintosh
	Business Education	10-12	Tandy/Macintosh/IBM
	Vocational Education	10-12	Tandy/Macintosh/IBM

Description of Computer Use
Apple II labs are located at the elementary, junior high, and high schools. Teachers are able to sign up to use these labs. At the primary school, computers are available for check-out from the media center. Atari learning stations are located at all schools and serve to remediate students with weaknesses in reading, math, and writing.

School and District Office Computers: Future Plans
- Begin adding teacher workstations to the OSIRIS networks.
- Improve current Apple II labs (including upgrading and possible networking).
- Open CCC labs during the summer to allow all students access to the programs.
- Offer additional staff training to meet needs regarding new hardware and software.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	268	233	21	14	109
District Office	15	0	15	0	13

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
York 2 William Lowe, Jr Director, Computer Services P.O. Box 99 Clover, SC 29710	Computer Literacy	1-12	Apple IIe/Atari/CCC/NCR
	Computer Programming	9-12	Apple IIe/NCR
	Reading/Language Arts	1-12	Apple IIe/Atari/CCC
	Science	1-12	Apple IIe Atari/CCC
	Mathematics	1-12	Apple IIe/Atari/CCC
	Social Studies	1-12	Apple IIe
	Tool (word processing, etc.)	7-12	NCR
	Business Education	9-12	NCR
	Vocational Education	9-12	Apple IIe/NCR

Description of Computer Use
Computer literacy and keyboarding are taught to all fifth- and sixth-graders; keyboarding and word processing are taught to seventh- and eighth-graders. Computer programming, keyboarding, word processing, and AP classes are offer to students in grades 9-12. The Atari/CCC program is used in grades 1-12 and adult education. Apple computer labs are located in the elementary schools.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	476	317	102	57	161
District Office	37	0	0	37	31

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
York 3 Julia Robbins Instructional Supervisor P.O. Drawer 10072 Rock Hill, SC 29730 Phone: 324-5360	Computer Literacy	K-12	Apple IIe/IIgs
	Computer Programming	K-12	Apple IIe/IIgs
	Reading/Language Arts	K-12	Apple IIe/IIgs
	Science	1-12	Apple IIe/IIgs
	Mathematics	K-12	Apple IIe/IIgs
	Social Studies	1-12	Apple IIe/IIgs
	Foreign Language	9-12	Apple IIe/IIgs
	Tool (word processing, etc.)	1-12	Apple IIe/IIgs/Macintosh
	Business Education	10-12	Epson/Apple IIe/SCS-XT10 Compatible/Systel Word Processor
	Vocational Education	10-12	Franklin/Tandy 1200HD/ Zenith 100/Apple IIe/ Compugraphic MCS-5

Description of Computer Use
Teachers use computer-assisted instruction across subject and grade levels to assist students in mastering course content. A K-6 computer curriculum has been implemented district-wide. Students receive instruction in computer literacy, keyboarding, and programming in LOGO. Students in grades 7-8 have an opportunity to take a computer applications and a BASIC programming course. High-school electives include an introductory applications and programming course in BASIC, a computer math course, and an advanced placement computer science course.

School and District Office Computers: Future Plans
- Purchase computer equipment and software to implement remedial language arts and math computer labs at the elementary and secondary levels.
- Continue to offer computer courses for teachers to assist them in using the computer as a tool and in incorporating the computer into their classroom instruction.
- Install a Macintosh computer lab in each of the district's middle schools so that students can learn word processing, database, and spreadsheet application; explore desktop publishing with PageMaker; and develop computer programs using LOGO.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	705	589	91	68	263
District Office	26	0	26	0	16

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
York 4 Dan H. Jones Director, Special Services P.O. Box 369 Fort Mill, SC 29715 Phone: 548-2527	Computer Literacy	3-12	Apple IIe/IIc
	Computer Programming	1-12	Apple IIe/IIc
	Reading/Language Arts	1-12	Apple IIe/IIc
	Science	6-8	Apple IIe/IIc
	Mathematics	1-12	Apple IIe/IIc
	Vocational Education	9-12	Apple IIe/IIc

Description of Computer Use
Computer literacy is covered in grades 3-12. Elementary and secondary programs meet criteria for remedial and compensatory education and are served by both computer-assisted instruction and computer-managed instruction. York 4 (Fort Mill School District) is participating in the pilot of the CMS program.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	234	192	24	18	68
District Office	10	0	10	0	8

District/Contact	School Computers Instructional Uses	Grade Span	Brand/Model
Wil Lou Gray Opportunity School Mr. Pat G. Smith Director, Administration West Campus Road West Columbia, SC 29169 Phone: 822-5480	Computer Literacy	9-12	Apple IIe
	Reading/Language Arts	9-12	Apple IIe
	Science	9-12	Apple IIe
	Mathematics	9-12	Apple IIe
	Social Studies	9-12	Apple IIe
	Vocational Education	9-12	Apple IIe
	Other (Remediation)	9-12	WICAT System

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	94	68	25	1	44
District Office	56	40	16	0	33

District/Contact
S.C. School for Deaf and Blind Howard Chapman Director, Information Technology Cedar Springs Spartanburg, SC 29302 Phone: 585-7711

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	42	33	6	2	14
District Office	21	0	21	0	33

District/Contact	School Computers: Instructional Uses	Grade Span	Brand/Model
S.C. Youth Services	Reading/Language Arts	6-12	Apple IIe/IIgs/PALS (IBM PC 50)/ WICAT Lab
Wallace N. Meggs, Jr.			
Administrative Program Analyst	Science	6-12	Apple IIe/IIgs/WICAT Lab
4900 Broad River Road	Mathematics	6-12	Apple IIe/IIgs/WICAT Lab
Columbia, SC 29210	Social Studies	6-12	Apple IIe/IIgs/WICAT Lab
Phone: 737-8913	Business Education	9-12	IBM PS/2 Model 25/Macintosh
	Vocational Education	9-12	(Graphic Arts) Macintosh

Description of Computer Use

A 16-workstation WICAT lab was installed at Birchwood High School to serve remedial students (67% of usage) in grades 7-12 and GED students (33% of usage). A 16-workstation WICAT lab was installed at Birchwood High School to serve at-risk students (Target 2000 Grant). In grades 9-12, computer-assisted instruction is used with some classes utilizing limited computer-managed instruction. For grades 6-12, computerized system is in place which scores the California Achievement Test, correlates the results to BSAP, and prints out a mastery/non-mastery report for use in remedial and regular classrooms immediately after a new student enters a district school. This program has been rewritten to run on Novell networks utilizing the NCS optical sheet readers and is currently being beta tested. A custom IEP generator program for grades 9-12 is in use by all districts special services staff. An electronic system has been implemented in the graphic arts vocational program (grades 9-12). This system includes an Apple Macintosh, laser printer, optical scanner, video camera digitizer, accelerator, and two-page monitor. Small IBM PALS labs at Birchwood High and Willow Lane Junior High Schools are used for Chapter-I remedial reading students. A nine-workstation Novell network at Birchwood High School, an eight-workstation network at Willow Lane Junior High School, and a three-workstation network at the R&E annex school are utilized. A six-workstation Sun/TOPS network is used in the district office. All networks have the capability to access OSIRIS information from the other networks and to electronically transfer information. The district office has purchased and installed a digital scanner and software to allow the scanning of text documents into a word processor.

School and District Office Computers: Future Plans

- Purchase and install a 16-station WICAT lab to serve remedial students at Willow Lane Junior High School (Summer 1990).
- Tie all four of the district's networks into the Agencies Client Folder system, a statewide network which is a pilot project for state agencies and is under development. This system will utilize optical scanners to FAX records between the county offices and institutions and DYS schools and will maintain all records on a networked mini-computer (Summer 1990).
- Have documents such as policies and Procedures, the Defined Minimum Program, and various handbooks, etc. scanned into the fileserver as word-processing documents, which will allow instant access and searches from any workstation in the district office or school.

	Computers	Instruction	Administration	Instruction/Administration	Printers
Schools	169	143	22	4	65
District Office	7	0	6	1	2

SPECIAL SURVEY ADDENDUM TO 1989-90 STATEWIDE COMPUTER SURVEY

This section of the report provides a brief review of several special computer projects and their activities, and their firms and locations in the state. Sufficient information is provided so that educators may visit, write, or call a computer firm or the site of a project.

Information provided for each includes the following:

- Name of firm, brand, or project
- Contact person's name, address, and telephone number
- Project description
- Placement and use of computers and software
- Future plans
- Student gains/results of project
- Other comments

The projects and firms described in this section include:

- Computer Curriculum Corporation
- IBM (Distance Interactive Learning: Spanish (DIL:S), Teaching and Learning with Computers (TLC), and Writing to Read projects)
- Jostens Learning Corporation
- Rural Education Alliance for Collaborative Humanities (Project REACH)
- South Carolina Occupational Information System (SCOIS)
- WICAT

Computer Firm Brand/Project:	Computer Curriculum Corporation (CCC)
Contact Person:	Nancy Taylor Communications Administrator
Address:	One Parkway Center 1850 Parkway Place Suite 215 Marietta, GA 30067
Telephone:	800/456-4077
Person Supplying Information:	Thomas F. Foley, Regional Vice President-Marketing and Charlie House, Jr., Sales Representative 800/456-4078

PRODUCT DESCRIPTION

- About 3,000 schools, according to CCC, now use CCC's learning systems—more than the total number of schools using other integrated systems. (Integrated systems provide hardware and software combined into one product.)

- Students get individualized instruction not possible in the classroom. A powerful computer continually adjusts instruction to each student's performance. Detailed reports help teachers keep track of student's progress.

- CCC produces the only courseware that continually adapts instruction to each learner's performance. The system keeps track of mastery, focuses on weak areas, and raises instructional levels as the student learns.

- CCC courses cover basic skills and higher-order thinking skills, meeting standard curriculum objectives in mathematics, reading, language skills, and science. For example, CCC's basic math course covers grades K-8, with over 1,000 skill objectives and 30,000 exercises.

- Over two dozen studies show that a year of CCC instruction produces average gains of 1.5 to three years. Seven exemplary achievement awards from the U.S. Department of Education have been given to school districts as a result of CCC instruction.

- Each time a student makes a response at the computer, the system analyzes that student's performance pattern and checks for mastery. Reports of the student's performance help teachers diagnose learning problems and keep track of progress.

- A CCC system of 30 computers can provide 15-minute sessions to 300 students every day.

- Special learning environments within CCC courses strengthen problem-solving and higher-order thinking skills. In CCC's new Science Discovery course, for example, students infer the properties of static electricity by experimenting with on-screen images of positively and negatively charged rods.

- Using a pioneering approach unique in the CAI field, CCC's evaluation staff conducts a weekly analysis of responses from over 15,000 students to exercises in the CCC courses. The statistical analysis of these responses, which number in the millions, has helped CCC create or significantly update about two-thirds of its courses over the past four years.

- A special CCC program, Individualized Prescriptive Strategy, can forecast with very high accuracy the year-end grade placement of each student. This prediction enables teachers to develop special strategies for students who need extra help to reach year-end goals.

- Schools adopting a CCC system receive a complete package of software, hardware, and support services. Support services include training, consultation, installation, and maintenance.

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Equipment Placed by School, Subject, and Grade

School District	Subject Area(s) Emphasized	Number of Schools	Number of Terminals
Aiken	Reading, Math, Writing, and Science	37	679
Allendale	Reading and Math	4	70
Anderson (SOLO)	Reading and Math	1	1
Batesburg	Reading and Math	4	72
Beaufort	Reading and Math	2	24
Britton's Neck	Reading and Math	1	8
Charleston	Reading and Math	23	285
Chesterfield	Reading and Math	17	238
Clinton	Reading, Math, and Science	4	102
Clover	Reading and Math	7	95
Columbia	Reading, Math, Writing, Word Processing Skills, Language Arts, and Adult Reading	12	270
Conway	Reading and Math	10	146
Darlington	Reading and Math	9	200
Denmark	Reading and Math	1	12
Edgefield	Reading and Math	4	46
Elloree	Reading and Math	1	12
Georgetown	Reading and Math	19	180
Hemingway	Reading and Math	1	1
Kingstree	Reading and Math	12	185
Lake City	Reading and Math	11	178
Latta	Reading and Math	3	52
Marion	Reading and Math	4	52
Moncks Corner	Reading and Math	17	352
Mullins	Reading and Math	1	20
Pamplico	Reading and Math	3	24
Ridgeland	Reading and Math	1	18
Rock Hill	Reading, Math, and Writing	9	166
St. George	Reading and Math	1	9
Saluda	Reading and Math	1	35
Spartanburg (District 2)	Reading and Math	4	99
Spartanburg (District 6)	Reading and Math	14	134
Swansea	Reading and Math	1	6
Timmonsville	Reading and Math	3	30
Walterboro	Reading and Math	1	24
York	Reading and Math	5	66

FUTURE PLANS

- CCC is very pleased to announce that on March 10, Computer Curriculum Corporation joined the family of companies owned by Simon and Schuster, the nation's largest educational publisher. Simon and Schuster is the publishing arm of Paramount Communications Inc.

- A variety of MS-DOS® computers (including the IBM P/S 2® Model 25 286 and the Tandy® 2500 XL), as well as the ATARI ST® computer, serve as student stations on a local area network. These computers offer the high-resolution color graphics and powerful processors essential to CCC courseware.

- CCC has captured the power of the entire CCC Instructional System™ in a single personal computer.

- CCC President Dr. Ronald F. Fortune said, "This new product represents a breakthrough in computer-assisted instruction. As an affordable alternative to the networked lab, SOLO™ enables customers who need no more than two or three stations to take advantage of CCC's comprehensive instructional system with a very cost-effective solution."

FUTURE PLANS (continued)

- According to Fortune, potential SOLO customers include schools that want to integrate CAI into a single classroom, the workplace, home-study programs, job training and adult literacy centers, and other small, remote instructional sites.

- SOLO will deliver CCC's 26 courses and complete management system on a Tandy or IBM stand-alone computer equipped with CD-ROM drive. The courses and management system are stored on a single compact disk and are delivered to the students as required.

- The following are registered trademarks: MS-DOS: Microsoft Corporation; IBM P/S 2: International Business Machines, Inc.; Tandy 2500 XL: Tandy Corporation; ATARI ST: Atari Corporation. The CCC Instructional System and SOLO are trademarks of Computer Curriculum Corporation.

STUDENTS GAINS/RESULTS OF PROJECT

- CCC courseware gets outstanding results in reading, language, and math for primary to adult students. New courses address adult literacy and middle-school physical science.

- A three-year independent study of several hundred students in Calvert County, Maryland, found math and reading skills so improved that virtually all students' test score were above the second stanine. Contact Dr. Eugene Karol, superintendent, at 303/535-1700.

- Students most at risk of dropping out have a remarkable response to the system. These students not only achieve a rapid rise in skill levels, but also show a dramatic turnaround in their motivation to stay in school.

- The Escambia County School District in Pensacola, Florida, has reduced its 40% dropout rate to under 2% for the past two years. Other districts using the system have reported similar success. Contact Dr. John DeWitt, director of Grants and Research, at 904/432-6121.

- Because the system accelerates literacy gains, many schools use their systems for adults. Adults using the system have gained several grade levels in only a few months.

- Both Baltimore, Maryland, and Louisville, Kentucky, use their systems in alternative learning projects designed for adults. Contact Mr. Carl Wheeler, Office of Manpower Resources, in Baltimore, at 301/396-7510 and Mr. Buell Snyder, director of Jefferson County High School, in Louisville, at 502/456-3173.

- CCC instruction can be transmitted by telephone lines to remote locations. CCC's unique DIAL-A-DRILL® programs allow students to learn from home by using a telephone.

- The Chicago Public Schools serve 500 students with the DIAL-A-DRILL program. The Kentucky Schools Technology Project serves 29 rural schools with CCC CAI phone lines. In Chicago, contact Mr. Frank Perry, Chapter I director, at 313/890-8149. In Kentucky, contact the project director at 502/745-4424.

- DIAL-A-DRILL is a registered trademark of Computer Curriculum Corporation.

- The system complements teaching by providing daily individualized reinforcement of concepts being learned in class. The reports help assess student progress and pinpoint learning problems. The system is easy to operate and does not add to the teaching workload.

- Teachers in Milwaukee, Wisconsin, as at other CCC school projects, use the reports in parent conferences and in planning for students who need additional help. Contact Ms. Ying Ying Chen. Chapter I CAI supervisor, at 414/475-8009.

- CCC student reports enable districts to know exactly what each student has mastered. A special program, Individualized Prescriptive Strategy (IPS), even predicts students' year-end placements months in advance.

- Aiken, South Carolina, and 21 other districts in the state, use the CCC reports to assess students' mastery of competencies in the basic skills mandated by the state. The district also uses IPS to predict the time needed to reach mastery levels and to intervene if necessary. Contact Dr. Nancy Smith, assistant superintendent, at 803/648-1311.

STUDENTS GAINS/RESULTS OF PROJECT (continued)

- Many courses include "learning environments" where students apply the skills they've mastered to problem-solving challenges. For example, one math course has a series of exercises that guides the student in analyzing scientific data.

- A magnet school in Kansas City School District uses its CCC system not only to build literacy skills but also to learn logic and computer-science principles. Contact Mr. Jack Casner, director of technology, at 816/373-2237.

- Many community learning centers and nontraditional settings use CCC systems. These systems have been established by cooperative councils, such as those administering Job Training and Partnership Act (JPTA) funds.

- Pensacola, Florida, and Houston, Texas, are just two of the communities using CCC systems in school-business partnerships. Contact Dr. John DeWitt, Escambia County Schools, at 904/432-6121; and Mr. Terry Hudson, Houston JTPA director, at 713/654-1919.

Computer Firm Brand/Project: IBM Distance Interactive Learning: Spanish (DIL:S)

Contact Person Al Woodham

Address: IBM Corporation
1333 Main Street
Columbia, SC 29201

Telphone: 803/748-5248

PROJECT DESCRIPTION

Distance Interactive Learning: Spanish is an integrated package of video lessons, computers with speech capabilities, and cooperative learning techniques designed to deliver a beginning Spanish course. This systematic approach to learning Spanish meets two of education's critical needs: equity and access.

The DIL:S system provides quality instruction to all students in spite of a shortage of certified Spanish teachers. The system requires a classroom teacher to direct the lesson plans and manage the activities. The program provides video instruction to the teacher as well as the student. Both the teacher and the student acquire proficiency in the language by the end of the course.

The video lessons "Se Habla Espanol" emphasize teaching the student a basic speaking proficiency level in Spanish. Listening, writing, and reading skills are included in the program. The course also gives an awareness of the Spanish people, their culture, and their contributions to world civilization. Its effective use of technology increases intercultural relationships between students and other cultures. This well-coordinated program enriches Spanish language instruction.

The DIL:S system includes content delivery through 69 videotapes containing lessons presented by television teachers who are native Spanish speakers. Student interaction with a computer network is a vital part of the DIL:S system. The computer activities support the video lessons with oral practice in pronunciation as well as written exercises. An array of printed learning materials also are a part of the DIL:S program.

Utah initially developed the Distance Interactive Learning: Spanish program for students in remote areas. Now, however, students in urban, suburban, and rural areas are learning Spanish through this program.

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

School District	School
Barnwell 19	Blackville Middle
Orangeburg 5	Orangeburg-Wilkinson High

FUTURE PLANS

Expansion plans call for the installation of new DIL:S labs in all South Carolina middle schools and high schools as a credit or non-credit course.

STUDENT GAINS/RESULTS OF PROJECT

"Se Habla Espanol" develops students' skills in listening, speaking, reading, and writing Spanish. Unit themes allow students to use Spanish functionally in real-life tasks, such as conversing about school, writing about family, and reading about famous people and events. Cultural aspects of Spanish-speaking peoples are integrated within the units as actors and actresses role-play everyday situations. Students are exposed to authentic language at a normal rate of speech.

Current emphasis in foreign language teaching is on functional proficiency—what students can actually do with the language. Through the integrated approach of "Se Habla Espanol", students develop this proficiency by listening to native speakers in the video, speaking in cooperative groups (and with the computer!), reading computer and workbook exercises (and other extension materials), and writing letters and exercises.

OTHER COMMENTS

IBM and the S.C. Department of Education have entered into a partnership which will greatly enhance the opportunity for South Carolina public schools to participate in this program. Call Al Woodham at 748-5248 for details.

Computer Firm Brand/Project: IBM Classroom-Based "Teaching and Learning with Computer"

Contact Person: Rick Young

Address: 1333 Main Street
Columbia, SC 29201

Telephone: 803/748-5370

PROJECT DESCRIPTION

IBM "Teaching and Learning with Computers" (TLC) combines the integration of networked computers in the classroom with quality training on IBM basic skills courseware, word processing software, and classroom-management strategies. TLC complements the existing instructional program. Writing across the curriculum is highlighted in this approach.

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Computers are distributed in the classroom using a ratio of 1:5. Installed sites include:

School District	School
Charleston	Cochran Elementary
Greenville	Crestview Elementary
Greenville	Morton Elementary
Orangeburg 5	Elementary and middle schools
Richland 2	Keels Elementary

FUTURE PLANS

IBM Educational Systems intends to announce the "Writing to Write" elementary-school writing series, which will be designed to enable elementary school children to learn to write what they think. "Writing to Write" will be a balanced curriculum where the teacher and the courseware are equal instructional partners. The program design will be instructional, so that students actively participate and learn by doing, as opposed to "drill and practice." "Writing to Write" will encompass the stages of the writing process approach: pre-writing, drafting, editing, revising, publishing, and sharing. The spiral curriculum, the combination and coordination of computer exercises, the ancillary print activities, and the teacher instruction will make "Writing to Write" a courseware product that takes full advantage of technology.

The "Writing to Write" series will make extensive use of Personal System/2 graphics and voice capability. It will serve as a follow-up to "Writing to Read" and will complement IBM's Teaching and Learning with Computers methodology. "Writing to Write" will employ a spiral curriculum with problem-solving techniques, and will be designed as the primary source of instructional sequence and methodology for the teaching of writing in the elementary school.

"Writing to Write" elementary school writing series will be made up of networked products only and will run under the IBM Classroom LAN Administration System Version 1.11 or later.

Field-testing of this new series has begun with selected schools. IBM is announcing this Statement of Direction at this time to allay uncontrolled speculation which might otherwise result as our field testing becomes more apparent to the general public. IBM's current intentions and plans are subject to review, and announcement of products in this new series will be based on IBM's technical and business judgement.

STUDENT GAINS/RESULTS OF PROJECT

Districts reporting gains in BSAP performance attribute them not only to technology, but also to the restructuring of the classroom.

E. OTHER COMMENTS

To ensure success of the program, districts should commit to teacher in-service days. Training and support is provided by IBM education consultants.

Computer Firm Brand/Project: IBM "Writing to Read"

Contact Person: Rick Young

Address: 1333 Main Street
Columbia, SC 29201

Telephone: 803/748-5370

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

School District	School
Aiken	Busbee Elementary
Anderson 1	All elementary schools
Anderson 3	Iva Elementary
Anderson 3	Starr Elementary
Anderson 5	Concord Elementary
Anderson 5	Whitehall Elementary
Calhoun	Bethlehem Elementary
Calhoun	Guinyard Elementary
Calhoun	St. John Elementary
Charleston	James B. Edwards Elementary
Darlington	All elementary schools
Dillon	Lake View Elementary
Dorchester 4	St. George Elementary
Green ille	Summit Drive Elementary
Greenville	Bakers Chapel Elementary
Greenville	Blythe Elementary
Greenville	Brushy Creek Elementary
Greenville	East Greer Elementary
Greenville	Mauldin Elementary
Greenville	Welcome Elementary
Greenville	Westcliff Elementary
Greenville	Wrenn Elementary
Greenwood 50	Lakeview Primary
Greenwood 50	Mathews Primary
Greenwood 50	Merrywood Primary
Greenwood 50	Oakland Elementary
Greenwood 50	Pinecrest Elementary
Greenwood 50	Woodfield Primary
Hampton	Estill Elementary
Horry	All elementary schools
Jasper	Ridgeland Elementary
Jasper	West Hardeeville Elementary
Kershaw	Blaney Elementary
Kershaw	Camden Primary
Kershaw	Lugoff-Elgin Elementary
Kershaw	Midway Elementary
Marion 1	Easterling Elementary
Marion 2	Nichols Elementary
Marion 2	North Mullins Primary
Marlboro	Bennettsville Primary
Orangeburg 3	All elementary schools
Orangeburg 5	All elementary schools
Orangeburg 7	Elloree Elementary
Richland 1	Arden Elementary
Richland 1	Crane Creek Elementary
Richland 1	Gadsden Elementary
Richland 2	All Elementary Schools
Spartanburg	S.C. School for the Deaf and Blind
Sumter 17	Alice Drive Elementary
Sumter 17	Willow Drive Elementary
Union	Monarch Elementary

FUTURE PLANS

Expansion plans call for installation and support of new labs, as well as development of a "Writing to Read" follow-up curriculum. Using technology to extend the writing process into all curriculum areas and grade levels is currently being implemented in a number of school districts, including Orangeburg 5, Anderson 3, Richland 2, and others.

STUDENT GAINS/RESULTS OF PROJECT

Substantial student gains have been documented by several South Carolina districts, including Richland 1 and 2, Orangeburg 5, and Aiken, as well as other districts across the country.

OTHER COMMENTS

IBM "Writing to Read" works! Quality training and on going support are provided by IBM.

Computer Firm Brand/Project: Jostens Learning Corporation

Contact Person: Cathy Mobley
Sales Analyst

Address: 6150 North 16th Street
Phoenix, AZ 85016

Telephone: 602/678-7272, ext. 2231

PROJECT DESCRIPTION

Jostens Learning Corporation provides technology-based learning products and services—from single curricula to complete turnkey systems—to more than 3,500 schools across the country. Products include:

1) The Basic Learning System. Primarily for grades 1-9, this is an integration of reading, writing, and mathematics.

2) Discovery Learning System. Includes a research-writing system, Compton's research center (Compton's multimedia encyclopedia), and a physical science program for grades 1-12.

3) At-Risk Learning System. Includes life skills, take-home computer, and family learning programs for grades K-12 and adult.

Service is at the heart of Jostens business. More than 300 educational consultants and technicians provide ongoing training/consulting services, as well as computer hardware maintenance.

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Equipment Placed by School, Subject, and Grade

School District	School	Grade	Subject Area(s) Emphasized	Equipment Model	Equipment Quantity
Anderson 5	Anderson School District 5	K-5	Math, Reading, Writing	IBM	68
Bamberg 2	Denmark-Olar High	7-9	Reading	Apple IIe	5
Beaufort	Beaufort Elementary	1-5	Reading	Apple IIe	9
Beaufort	Beaufort-Jasper Career Center	2-12	Math, Reading	Apple IIe	7
Beaufort	Broad River Elementary	K-6	Reading	Apple IIe	10
Beaufort	Davis Elementary	K-6	Reading	Apple IIe	5
Beaufort	Lady's Island Elementary	2-6	Reading	Apple IIe	5
Beaufort	Riley Elementary	K-6	Reading	Apple IIe	5
Beaufort	St. Helena Elementary	K-6	Reading	Apple IIe	5
Berkeley	Berkeley Elementary	K-4	Math, Reading	Apple IIe	17
Berkeley	Bonner Elementary	1-6	Math, Reading	Apple IIe	17
Berkeley	Boulder Bluff Elementary	1-6	Math, Reading	Apple IIe	9
Berkeley	Cainhoy Elementary	1-6	Math, Reading	Apple IIe	17
Berkeley	College Park Elementary	1-6	Math, Reading	Apple IIe	9
Berkeley	Cross Elementary	1-6	Math, Reading	Apple IIe	17
Berkeley	J. K. Gourdin	1-6	Math, Reading	Apple IIe	9
Berkeley	Ready Intermediate	4-5	Math, Reading	Apple IIe	17
Berkeley	Sandridge Elementary	K-3	Math, Reading	Apple IIe	4
Berkeley	St. Stephen Middle	6-8	Math, Reading	Apple IIe	10
Berkeley	St. Stephens Elementary	1-6	Math, Reading	Apple IIe	17
Berkeley	Whitesville Elementary	K-4	Math, Reading	Apple IIe	13
Calhoun	Bethlehem Elementary	2-5	Math, Reading	GEN	10
Calhoun	Ford Middle	3-7	Math, Reading	Apple IIe	12
Calhoun	Guinyard Elementary	2-5	Math, Reading	Apple IIe	36
Calhoun	St. John Elementary	2-5	Math, Reading	GEN	10
Charleston	Courtney Middle	7-8	Math, Reading, Writing	IBM	30
Charleston	Schroder Middle	7-8	Math, Reading, Writing	IBM	30

Equipment Placed by School, Subject, and Grade

School District	School	Grade	Subject Area(s) Emphasized	Equipment Model	Equipment Quantity
Colleton	Bells Elementary	4-5	Math	Apple IIe	14
Colleton	Colleton Elementary	4-5	Math, Reading	Apple IIe	7
Colleton	Colleton Middle	6-8	Math, Reading	Apple IIe	14
Colleton	Cottageville Elementary	4-5	Math, Reading	Apple IIe	7
Colleton	Hampton Street Elementary	4-5	Math, Reading	Apple IIe	7
Colleton	Ivenia Brown Elementary	4-5	Math, Reading	Apple IIe	7
Colleton	Jonesville Elementary	4-5	Math, Reading	Apple IIe	7
Colleton	Parent Advisory	K-9	Math, Reading	Apple IIe	13
Colleton	Smoaks Middle	6-8	Math, Reading	Apple IIe	7
Darlington	Brunson Dargan Junior High	7-8	Reading	Apple IIe	10
Darlington	Gary Middle	K-5	Reading	Apple IIe	10
Darlington	Hartsville Junior High	4-8	Reading	Apple IIe	10
Darlington	Hartsville Senior High	9-12	Math	Apple IIe	10
Darlington	Mayo High	9-12	Reading	Apple IIe	10
Darlington	North Hartsville Elementary	1-6	Math, Reading	Apple IIe	10
Darlington	Rosenwald Elementary	2-6	Reading	Apple IIe	5
Darlington	Southside Elementary	1-6	Math, Reading	Apple IIe	10
Darlington	Spaulding Junior High	3-7	Reading	Apple IIe	10
Darlington	Spring Elementary	K-5	Reading	Apple IIe	10
Darlington	St. Johns High School	9-12	Math	Apple IIe	10
Darlington	Washington Street Elementary	K-6	Math, Reading	Apple IIe	10
Dillon 1	Lake View Elementary	K-6	Reading	Apple IIe	1
Dillon 2	Chapter I Parent Center	K-8	Math, Reading	Apple IIe	40
Dillon 2	Gordon Elementary	1-6	Math, Reading	Apple IIe	90
Edgefield	Douglas	2-6	Math, Reading	Apple IIe	5
Edgefield	Johnston Elementary	2-4	Math, Reading	Apple IIe	7
Edgefield	Johnston Primary	2-4	Math Reading	Apple IIe	7
Edgefield	Merriwether	2-8	Math, Reading	Apple IIe	7
Edgefield	Parker	2-8	Math, Reading	Apple IIe	11
Florence 1	Southside Middle	7-8	Math, Reading	IBM	12
Greenville	Alexander Elementary	K-5	Math	Apple IIe	5
Greenville	Beck Middle	5-8	Reading	Apple IIe	10
Greenville	Berea High	9-12	Math	Apple IIe	4
Greenville	Greenville High	9-12	Math, Reading	Apple IIe	10
Greenville	Greer High	9-12	Math	Apple IIe	4
Greenville	Hollis Elementary	K-6	Math, Reading	IBM	40
Greenville	Lakeview Middle	5-8	Reading	Apple IIe	10
Greenville	Lakeview Middle	6-8	Math	Apple IIe	4
Greenville	Monaview Elementary	K-8	Math, Reading	Apple IIe	26
Greenville	Parker Middle	5-8	Reading	Apple IIe	10
Greenville	Parker Middle	6-8	Math	Apple IIe	4
Greenville	Southside High	9-12	Math	Apple IIe	4
Greenwood 50	Brewer Intermediate	2-5	Reading	IBM	12
Greenwood 50	East End Intermediate	2-5	Reading	IBM	12
Greenwood 50	Hodges Elementary	K-8	Math, Reading	IBM	5
Greenwood 50	Lakeview Primary	K-3	Math, Reading	IBM	9
Greenwood 50	Mathews Primary	K-3	Reading	IBM	9
Greenwood 50	Merrywood Primary	K-3	Reading	IBM	9
Greenwood 50	Oakland Elementary	K-3	Reading	IBM	9
Greenwood 50	Pinecrest Primary	K-3	Reading	IBM	6
Greenwood 50	Woodfield Primary	K-3	Math, Reading	IBM	9
Hampton 2	Estill Middle	5-8	Math, Reading	Apple IIe	15
Kershaw	Antioch Elementary	2-6	Math, Reading	Apple IIe	6
Kershaw	Baron-Dekalb Elementary	2-6	Math, Reading	Apple IIe	6
Kershaw	Bethune Elementary	2-5	Math, Reading	Apple IIe	6
Kershaw	Blaney Elementary	2-5	Math, Reading	Apple IIe	12
Kershaw	Camden Primary	K-6	Math, Reading	Apple IIe	59

Equipment Placed by School, Subject, and Grade

School District	School	Grade	Subject Area(s) Emphasized	Equipment Model	Equipment Quantity
Kershaw	Lugoff Elementary	1-5	Math, Reading	Apple IIe	12
Kershaw	Lugoff Middle	6	Math, Reading	Apple IIe	5
Kershaw	Midway Elementary	2-6	Math, Reading	Apple IIe	12
Kershaw	Mt. Pisgah Elementary	1-6	Math, Reading	Apple IIe	6
Kershaw	Pine Tree Hill Elementary	K-3	Math, Reading	Apple IIe	18
Laurens 55	Gray Court-Owings Elementary	4-8	Math, Reading	IBM	25
Laurens 55	Hickory Tavern Elementary	K-8	Math, Reading	Tandy	25
Laurens 55	Laurens High	9-12	Math, Reading	Apple IIe	20
Lee	Bishopville High	4-6	Reading	Apple IIe	2
Lee	Bishopville Middle	K-7	Math, Reading	Apple IIe	46
Lee	Bishopville Primary	K-3	Math, Reading	Apple IIe	10
Lee	Fleming Middle	4-7	Math, Reading	Apple IIe	10
Lee	Lower Lee Primary	K-3	Math, Reading	Apple IIe	10
Lee	Mt. Pleasant High	8-10	Math, Reading	Apple IIe	10
Lee	West Lee Primary	K-3	Math, Reading	Apple IIe	10
Lexington 1	Gilbert Elementary	K-4	Math, Reading	Apple IIe	7
Lexington 1	Lexington Elementary	K-4	Math, Reading	Apple IIe	14
Lexington 1	Lexington Intermediate	3-5	Math, Reading	Apple IIe	6
Lexington 1	Lexington Middle	7	Math, Reading	Apple IIe	7
Lexington 1	Pelion Elementary	K-5	Math, Reading	Apple IIe	10
Lexington 1	Red Bank Elementary	K-4	Math, Reading	Apple IIe	7
Lexington 1	White Knoll Elementary	K-4	Math, Reading	Apple IIe	10
Lexington 2	Lexington School District 2	2-5	Reading	Apple IIe	24
Lexington 5	Dutch Fork Elementary	2-6	Reading	Apple IIe	5
Marion 1	Marion Elementary	5-7	Math, Reading	Apple IIe	7
Marion 1	Marion Elementary	5-7	Math, Reading	Apple IIe	7
Mullins 2	Palmetto	1-8	Math, Reading	Apple IIe	10
Mullins 2	Palmetto Elementary	5-6	Math, Reading	Apple IIe	20
Mullins 2	Palmetto Junior High	7-8	Math, Reading	Apple IIe	10
Oconee	South Pine Street Elementary	K-6	Math, Reading	Apple IIe	13
Richland 2	Keels Elementary	K-5	Math, Reading, Compton's	IBM	24
Richland 2	Richland 2	2-5	Math, Reading	Apple IIe	39
Richland 2	Richland Northeast High	9-12	Math, Reading	Apple IIe	10
Richland 2	Wright Middle	6-8	Math, Reading, Life Skills	IBM	30
Saluda	Saluda Elementary	2-4	Reading	Apple IIe	10
Spartanburg	Chapman	1-6	Math, Reading	Tandy	24
Spartanburg	Cleveland Elementary	1-6	Math, Reading	Tandy	24
Spartanburg	Houston Elementary	1-6	Math, Reading	Tandy	25
Spartanburg	Jesse Boyd Elementary	1-6	Math, Reading	Tandy	16
Spartanburg	Maddan	1-6	Math, Reading	Tandy	33
Spartanburg	Park Hill	1-6	Math, Reading	Tandy	24
Spartanburg	Pine Street	1-6	Math, Reading	Tandy	16
Spartanburg	Spartanburg County School District Lab	1-6	Math, Reading	Tandy	25
Spartanburg	Spartanburg High	1-8	Math, Reading	IBM	250
Spartanburg	St. Paul The Apostle	K-8	Math, Reading	Tandy	2
Spartanburg	Todd Elementary	1-6	Math, Reading	Tandy	16
Spartanburg	Wright	1-6	Math, Reading	Tandy	36
Sumter 17	Alice Drive Elementary	2-5	Math, Reading	Apple IIe	5
Sumter 17	Crosswell Drive Elementary	K-5	Math, Reading	Apple IIe	10
Sumter 17	Lemira Elementary	K-6	Math, Reading	Apple IIe	10
Sumter 17	Millwood Elementary	K-7	Math, Reading	Apple IIe	10
Sumter 17	Sumter High	9-12	Math, Reading	Apple IIe	48
Sumter 17	Sumter High	9-12	Math, Reading	IBM	7
Sumter 17	Willow Drive Elementary	K-8	Math, Reading	Apple IIe	10
Union	Jonesville Elementary	2-6	Reading	Apple IIe	4
York 2	Clover Middle	5-6	Reading	Apple IIe	10
York 3	Northwest High	4-10	Math	Apple IIe	6
York 3	Rock Hill High	4-10	Math	Apple IIe	6

FUTURE PLANS

Jostens is in the process of launching a complete middle-school science curriculum and remedial basic skills, life skills, and employability skills at the high-school level, indicating more emphasis on learning beyond the elementary-school level.

STUDENT GAINS/RESULTS OF PROJECT

Contact Miriam Simmons at 1/800/221-7927, ext. 4413.

OTHER COMMENTS

- Jostens is working on enhanced management features, including the ability to upload to district level.
- Support is ongoing; new releases are issued at least annually.
- The customer has hardware flexibility—Jostens can provide Apple, Tandy, or IBM models.
- For more information, contact:
  Mike Hayes
  SE Regional Vice President
  Jostens Learning Corporation
  1/800/221-7927, ext. 2202

Computer Firm Brand/Project:	Project REACH Office of Telecommunications and Instructional Technology
Contact Person:	Kemble Oliver Director
Address:	Center for Computers and Writing English Department University of South Carolina Columbia, SC 29208
Telephone:	803/777-5992

PROJECT DESCRIPTION

The Rural Education Alliance for Collaborative Humanities (REACH) is part of CHART. The Rockefeller Foundation, working with other major foundations and corporations, has funded 13 major projects under the aegis of CHART (Collaboratives for Humanities and Arts Teaching). All thirteen projects are exploring ways of improving and enhancing student learning. For the past three years, REACH has sponsored humanities projects in South Carolina schools. As an integral part of that effort, it has encouraged teachers and students to explore the potential of electronic mail, teleconferencing, and other support technologies to enhance inquiry learning in its schools.

In the spring of 1989, REACH received a four-year grant from the BellSouth Foundation to fund an Office of Telecommunications and Instructional Technology at the Center for Computers and Writing at the University of South Carolina in Columbia. The initial goal of the Office of Telecommunications was to provide teachers in the 25 schools directly funded by the Rockefeller Foundation with the technical assistance and training they needed to begin to communicate with one another using VMS Mail and VAX Notes. Concomitant with its efforts to directly support teachers within REACH schools with the support and encouragement of the BellSouth Foundation and several educational organizations within South Carolina, REACH has taken the first steps toward building a statewide telecomputing network that will be open to any individual or organization in the state having a need or interest in becoming part of the "the net"—the South Carolina Network for Educational Telecomputing.

Telecommunications within "the net" is supported through a statewide network of modems and leased phone lines and a VAX computer located at Clemson University. The network can be accessed, via modem, with a local phone call from anywhere in the state. Members of the network have access to VMS Mail, VAX Notes, and—and InterNet and BitNet—the ability to communicate with other teachers and students virtually anywhere in the world. The database of National Dropout Prevention Center can be accessed through the network, and teachers who are on the network can search the stacks of the Cooper Libraries at both Clemson and the University of South Carolina, via modem, without leaving home. The network currently supports 300, 1200, and 2400 baud modems and virtually any software capable of supporting VT100 emulation. Teachers in the network are using Apple II, Macintosh, and a variety of DOS computers to access the network.

Currently, there are over 60 different "accounts" and more than 200 individuals who are members of the network— three-fourths of whom will be scheduled for training and technical assistance in the fall and early winter. Among the accounts are the faculty of the Governor's School of Science and Mathematics, the directors and codirector of the nine projects which comprise the South Carolina Writing Project; the directors and regional coordinators of the Writing Improvement Network; the managers, associate managers, and affiliates of Enterprise Development Incorporated; the South Carolina Arts Commission; the state director of the Arts in Basic Education Program; the director of Odyssey of the Mind; etc. REACH will be working cooperatively with Clemson University and South Carolina State College to provide a computer network to support science and mathematics education.

Financial support of technical assistance and staff development training for new users is being provided by the BellSouth Foundation. By late fall, the Center for Computers and Writing will have in place a networked computer laboratory that will support both telecommunications training and instruction in composition.

Any individual or organization in the state who is interested in becoming a part of the network is encouraged to call or write the director of the REACH Office of Telecommunications. If you wish, you may simply ask anyone involved with one of the statewide REACH projects to request information for you.

For direct contact:

Kemble Oliver, Director
Center for Computers and Writing
Department of English, USC-Columbia
Columbia, SC 29208
Phone: 803/777-5992

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Based upon last year's survey, a majority of the 25 or so REACH schools are using some version of the Apple II computer (IIe, IIc, IIgs), usually an Apple Personal modem, and ProTerm software. Macintosh users are, by and large, using 2400 baud Practical Peripheral modems, and Microphone, White Knight(Read Ryder), or Microsoft Works software. A number of the DOS users are using 2400-baud Practical Peripheral modems and ProCom or ProComPlus software. The Center for Computers and Writing is using a Macintosh SE/30 computer, a 2400-baud Practical Peripherals modem, and Microphone Software. User database is maintained with Filemaker. The Center also has in place a networked lab of 20 Macintosh Plus computers, an Apple Laserwriter, a DEST scanner, and a Kodak DataShow LCD projector. By late fall, it is anticipated that the lab will be connected to the University's Ethernet backbone, thus allowing any computer user in the laboratory to access resources anywhere in the network, including BitNet and InterNet access.

Clinton High School uses an Apple IIe, located in the library, for telecommunications. Both teachers involved with REACH have been provided DOS computers by their principal. Beck Middle School is using DOS computers. Andrews High School has a Macintosh. The South Carolina Writing Project and the Writing Improvement Network are using a mix of DOS computers, Apple II computers, and Macintosh computers—used with 2400-Baud Practical Peripheral modems. The South Carolina Arts Commission is using DOS computers. Enterprise Development, Inc. is using DOS computers in South Carolina but is communicating with Macintosh users in North Carolina and Georgia. Ann Godbee, director of Odyssey of the Mind, has a Macintosh, NCR laptop, and a DOS desktop—all equipped with modems and telecommunications software. The South Carolina Teacher Recruitment Center uses a Macintosh SE.

A complete list of schools, organizations, and individuals who have been or are in the process of being assigned user names in the network is availabile from Kimble Oliver.

USE BY SCHOOLS/ORGANIZATIONS

Alice Drive Elementary School
Andrews High School
Apple Computers
ASCD
ASCD, ABACUS
Beck Middle School
BellSouth Foundation
Benedict College
Berkeley County School District
Bowman High School
Branchville Elementary School
Breadnet
Camp Baskervill, Episcopal Outreach of
Clemson University, CSD
Clemson University, ECE
Clemson University, English Department
Clemson University, REACH
Clinton High School
College of Charleston, Education Department
Daniel High School
Darlington County School District
Denmark-Olar Elementary School
Easley High School
Enterprise Development, Inc.
Estill High School
Florence 1
Francis Marion College, English Department
Georgia College, EDUNET
Governor's School of Science and Mathematics
Horry County Schools
Hunter-Tyler-Kinard High School
Jasper County Schools
Jasper County Times
Jasper High School
Jennie Moore Elementary School
Johnson Middle School
Kingstree High School
Lander College
Lehman College, CUNY
Liberty High School
Lincoln High School
Morningside Middle School
Morrison Elementary School
Mt. Pleasant High School
Newberry High School
Pickens High School
R.C. Edwards Junior High School
Ridgeland Elementary School
Saluda High School
S.C. Arts Commission
S.C Center for Teacher Recruitment
S.C Committee for the Humanities
S.C School for the Deaf and Blind
S.C State College, Cross-Age Tutoring

USE BY SCHOOLS/ORGANIZATIONS

S.C State College, English Department
SCWP/WIN, Charleston
SCWP/WIN, Clemson
SCWP/WIN, Coastal
SCWP/WIN, Lander
SCWP/WIN, Midlands
SCWP/WIN, Pee Dee
SCWP/WIN, Santee Wateree
SCWP/WIN, Spartanburg
SCWP/WIN, Winthrop
SDE, Dropout Prevention
SDE, EDC
SDE, Office of Instructional Technology
St. Johns High School
Sumter 17
Tamassee-Salem High School
The Citadel
Union High School
University of South Carolina
University of South Florida
USC, Education and Psychology
USC, English Department
USC, Humanities and Social Sciences
USC, Library and Information Science
USC, Office of Telecommunications
USC, School of Library Science
USC-Aiken, English Department
USC-Columbia, Electronic Technology Center
USC-Columbia, English Department
USC-Columbia, McKissick Museum
USC-Columbia, TRIO
Voorhees College, English Department
Wil Lou Gray Opportunity School
Winthrop College, ABC
Winthrop College, Education Department
Winthrop College, English Department
Winthrop College, GRI
Wren Middle School
York Comprehensive High School

FUTURE PLANS

In September, the Rockefeller Foundation funded REACH for three more years. The grant from the BellSouth Foundation will run concurrently with the grant from Rockefeller; moreover, the BellSouth Foundation has asked REACH to submit a supplementary proposal in early 1991 for additional funds to support the development of the statewide telecomputing network.

Within the limits of the three years of the two grants, REACH will attempt to encourage every school in South Carolina to equip at least one microcomputer with a modem and the telecommunications software needed to join the network, locating that microcomputer in the school media center where it can be made available to any teacher or student in the school. REACH schools will be learning to access remote databases, and to communicate with teachers and students in other states and countries. We'd like to learn from what other teachers and students are doing, and share what we are learning with them!

For the next three years, the REACH Office of Telecommunications and other members of the REACH effort will be actively encouraging individuals and organizations to become a part of the network. Funds from BellSouth are available to support training and technical assistance throughout the state, and funds for a limited number of school-based REACH projects are available through the Rockefeller Foundation. However, REACH encourages individual schools to tap into other available funding sources to support network activities. In fact, one of the "dynamic databases" that REACH will offer its members through a VAX Notes conference, will be a constantly updated listing of funding sources available to schools in the state.

Complementing efforts to establish a statewide network of teachers and students in the humanities and social sciences will be efforts on the part of REACH to establish a statewide network of teachers and students in mathematics and the hard sciences. REACH will also be making an effort to involve school principals and district administrators in the network.

Computer Firm Brand/Project: South Carolina Occupational Information System (SCOIS)

Contact Person: Carol J. Kososki
SCOICC Director

Address: P.O. Box 995
Columbia, SC 29202

Telephone: 803/737-2733

Person Supplying Information: Angeleen Hunter
Assistant SCOICC Director

PROJECT DESCRIPTION

SCOIS is a computer information system delivering up-to-date career, educational, and job search information. SCOIS provides students, adults, teachers, and counselors with the information necessary to explore and plan for careers and choose jobs in a logical and systematic way.

SCOIS is a telephone dial-up system with access to a Prime mini-computer through computer terminal teleprinters or microcomputers with modems.

SCOIS is operational throughout the state, with 370 sites having access to the system.

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

SCOIS locations:

184	High Schools
50	Vocational Education Centers
52	Middle Schools
2	Elementary Schools
16	Technical Schools
11	Colleges/Universities
12	Community-Based Organizations
6	Job Service Offices
7	Public Libraries
15	Vocational Rehabilitation Centers
15	Others
370	Total Sites

FUTURE PLANS

SCOIS is currently evaluating "Peterson's Private Source of Financial Aid" as a possible addition to the SCOIS Financial Aid File.

STUDENT GAINS/RESULTS OF PROJECT

An average of 4,000 accesses to SCOIS are recorded each month. Students have a better understanding of careers, job opportunities, and educational training options as a result of using SCOIS.

OTHER COMMENTS

SCOIS User Services staff maintain SCOIS-owned computer terminals and provide training to counselors, teachers, librarians, students, etc. The annual fee for a SCOIS-owned computer terminal is $795. Users who provide their own equipment pay $495 a year. SCOIS now offers a microcomputer software package, Resume Writer and Application Maker, at a one-time cost of $95. SCOIS users can purchase Holland's Self-Directed Search Materials from SCOIS at a discount rate. SCOIS computer information is supplemented by the use of printed materials and videos. For demonstrations or conference presentations, contact Carol J. Kososki, SCOICC Director, at 803/737-2733.

Computer Brand/Project: WICAT Systems

Contact Person: Judy Ethridge

Address: 39 Winfield Road
Greenville, SC 29607

Telephone: 803/676-1436

Person Supplying Information: Judy Ethridge

PROJECT DESCRIPTION

With over 2,600 hours of instruction, WICAT courseware spans virtually every subject from kindergarten through GED. WICAT is the only vendor providing a separate testing component which is both diagnostic and prescriptive. WICAT Systems is currently being used by more than over 300,000 students in over 600 schools 150 districts and colleges. Current applications include, but are not limited to, raising test scores, remediation, individualization, basic skills, dropout prevention, GED, adult literacy, and enrichment.

PLACEMENT AND USE OF COMPUTERS AND SOFTWARE

Equipment Placed by School, Subject, and Grade

School District	School	Grade	Subject Area(s) Emphasized	Equipment Model	Equipment Quantity
Anderson 5	Homeland Park Elementary	K-5	Reading, Language Arts, Math	WICAT	16 workstations
Anderson 5	Lakeside Middle	6-8	Reading, Language Arts, Math	WICAT	16 workstations
Anderson 5	McCants Middle	6-8	Reading, Language Arts, Math	WICAT	16 workstations
Anderson 5	McDuffie High	9-12	GED	WICAT	24 workstations
Anderson 5	South Fant Elementary	K-5	Reading, Language Arts, Math	WICAT	16 workstations
Anderson 5	Southwood Middle	6-8	Reading, Language Arts, Math	WICAT	16 workstations
Charleston	Haut Gap Middle	6-8	Reading, Language Arts, Math	WICAT	16 workstations
Florence 1	Florence Career Center	9-12	GED	WICAT	18 workstations
Georgetown	Howard Alternative	9-12	Reading, Language Arts, Math, GED	WICAT	18 workstations
Greenville	Blythe Elementary	K-5	Math, Reading, Language Arts	WICAT	30 workstations
Greenville	East Greer Elementary	K-5	Math, Reading, Language Arts	WICAT	30 workstations
Greenville	Hughes Middle	6-8	Math, Reading Language Arts	WICAT	30 workstations
Greenwood	Southside Junior High	7-9	Language Arts, Math	WICAT	30 workstations
Lexington 1	Gilbert High	9-12	Math, Reading, Language Arts	WICAT	8 workstations
Lexington 1	Lexington High	9-12	Math, Reading, Language Arts	WICAT	8 workstations
Lexington 1	Pelion High	9-12	Math, Reading, Language Arts	WICAT	8 workstations
Lexington 2	Busbee Middle	6-8	Math, Reading, Language Arts	WICAT	30 workstations
Lexington 2	Fulmer Middle	6-8	Math, Reading, Language Arts	WICAT	30 workstations
Lexington 2	Northside Middle	6-8	Math, Reading, Language Arts	WICAT	30 workstations
Lexington 2	Pine Ridge Middle	6-8	Math, Reading, Language Arts	WICAT	30 workstations
Pickens	McKissick Elementary	K-6	Math, Reading, Language Arts	WICAT	60 workstations
Richland 2	Richland Northeast	9-12	GED	WICAT	24 workstations
Richland 2	Spring Valley High	9-12	GED Curriculum	WICAT	24 workstations
Special	Wil Lou Gray	9-12	Algebra, Reading, Language Arts	WICAT	24 workstations
Sumter 2	Cherryvale Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	Delaine Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	High Hills Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	Manchester Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	Mayesville Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	Mayesville Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	Oakwood Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	R.E. David Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	Rafting Creek Elementary	K-6	Reading, Math	WICAT	30 workstations
Sumter 2	St. Johns Elementary	K-6	Reading, Math	WICAT	30 workstations
Youth Services	Birchwood High	9-12	Reading, Language Arts, Math	WICAT	32 workstations

FUTURE PLANS

WICAT is an on-line test that simulates either the ITBS, CTBS, CAT, SAT, or MAT. This test is both diagnostic and prescriptive and will be available in 1990-91.

STUDENT GAINS/RESULT OF PROJECT

In just five months, Chapter-I students at McCorkle Elementary School in Chicago achieved an 42% gain in math and 152% gain in reading on the ITBS.

At Wayne State University in Detroit, students who had dropped out of school returned to work on the WICAT program. In only 12 weeks after coming back to school, these students, using WICAT's GED courseware, achieved gains of 12.5 months in math and eight months in reading.

OTHER COMMENTS

WICAT is the only vendor to offer an on-line training component, which is currently being reviewed by a South Carolina college for granting teacher credit hours. WICAT provides training for lab managers, teachers, and district personnel who will be involved with the WICAT program. WICAT provides a "800" customer service "hotline" for any information. A service technician is also available to provide full, on-site service within a 24-hour response time.

WICAT has adopted an open-architecture approach which can integrate a variety of computer equipment in schools (IBM, Apple, Tandy).

PROJECT COORDINATOR/STATE REPRESENTATIVE

Judy Ethridge
39 Winfield Road
Greenville, SC 29607
803/676-1436

INTEGRATED LEARNING SYSTEMS (ILS)

ILS	Districts	Number of Schools	Students	Workstations
CCC	N/A	248	N/A	3,891
Jostens	31	142	N/A	2,204
WICAT	13	35	N/A	884