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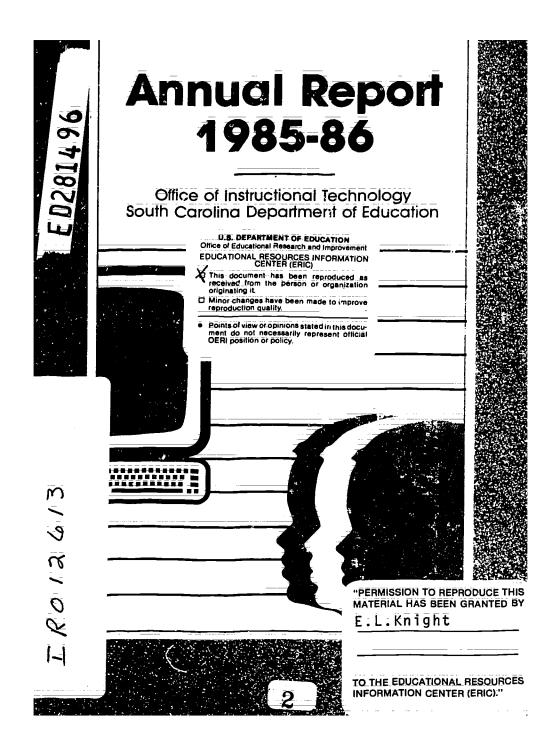
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#### **ABSTRACT**

The Office of Instructional Technology (OIT) of the South Carolina Department of Education is responsible for the acquisition, scheduling, and utilization of television and radio resources for grades K-12, staff development, adult education broadcast over the South Carolina educational television and radio network, and the administration of computer-assisted instruction (CAI) in public schools. This annual report reflects the record of OIT service during the 1985-86 school year. The following are included in the report: (1) the annual management plan identifying 61 major objectives for the year; (2) a description of the instructional technology advisory system, which is composed of 12 curriculum committees and a state advisory committee; (3) a list of OIT publications; (4) primary activities in the area of CAI; (5) descriptions of instructional television and radio series; (6) data on utilization of series by schools; (7) utilization trends; (8) data on staff development programs and utilization; (9) a list of educational conferences and workshops; (10) results of the 1986 statewide computer survey; and (11) plans for 1986-87. (MES)









Clyde H. Green, Director Office of Instructional Technology

The information contained in this report reflects the record of our services in helping meet the educational needs of the public schools of South Carolina. The 1985-86 school year was the 27th year that ITV resources have been available. A few of the more significant facts were:

93% - schools used ITV

77% - students used ITV as a learning resource

44% - teachers utilized ITV

89% - schools now having videotape recording equipment (986)

60% - color TV sets

94% - schools having color sets

13,737 - TV sets available for instructional purposes utilized by 16,496 teachers

Over 6,028 educators took advantage of staff development programs. 26% of the 531 programs were new.

28 - earned certification renewal credit utilizing GETTING THE MESSAGE.

A. Computer survey was taken to report activities for the calendar year 1985 with the results as follows:

95% - schools have microcomputers

14,959 - computers in schools

36% - instructional personnel judged to be "computer literate"

A major micro activity was a second revision of recommended software for Basic Skills Assessment Program (BSAP) math (1-8), a revised selection of software for language arts (1-8), and the development of a selection of software programs for science grades 1-8 publication.

A central micro lab at SCETV and "mini labs" in each of the five utilization field offices continued to serve educators.

It is evident from this report and the survey of utilization provided by teachers and principals that technology continues to make substantial contributions to the educational process in the schools of South Carolina.

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# OFFICE OF INSTRUCTIONAL TECHNOLOGY STATE DEPARTMENT OF EDUCATION CLYDE H. GREEN, DIRECTOR

# SUMMARY REPORT

The Office of Instructional Technology is responsible for the development, acquisition, scheduling and utilization of television and radio resources for grades K-12, Staff Development, Adult Education broadcast over the South Carolina ETV and Radio Network, and for the administration of computer-assisted instruction in public schools.

#### ANNUAL MANAGEMENT PLAN

The staff participated in identifying 61 major objectives for a tenth year of an Annual Management Plan for the office. A calendar of activities for achieving each of these objectives was developed as a means of monthly review of progress by each staff member. Reflected throughout this report is a high degree of achievement of these objectives which are as follows:

# A. PLANNING

- Conduct a needs assessment and develop a program for 1986-87 of instructional television resources for approval by the State Board of Education.
- 2. Oevelop Management Plan for 1986-87.
- Participate in the consortium activities related to the development of the Agency for Instructional Television series, IMPROVING ECONOMICS REASONING, MATH WORKS and MATH SIX.

# B. FISCAL MANAGEMENT

- Provide for the leasing of the State Board approved instructional television resources for 1986-87.
- 5. Prepare the proposed budgets for updating five-year cycle.

#### C. PERSONNEL MANAGEMENT

- Plan for professional growth and development of office staff through workshops, seminars, staff meetings, and conferences.
- 7. Evaluate personnel according to State Personnel and State Department of Education policy.





 To identify, screen, recruit and recommend employment of professional staff members.

#### O. AOMINISTRATION

(Print)

- Revise the Resources Book for instructional television and radio series for 1986-87.
- Revise the Curriculum Guide for 1986-87 ITV and audio resources related to meeting the Defined Minimum Program.
- 11. Develop or acquire and print lesson guides and student activity materials for use with ITV programs.
- 12. Develop and print a quarterly Instructional Technology Newsletter.
- 13. Revise and print a 1986-87 guide for Building Coordinators.

(Resource Development - Production)

- 14. Continue the development of the following instructional television series: IT'S A RAINBOW WORLD (Primary Social Studies), EXPERIENCES IN MUSIC, ORAMA AND DANCE, HOLIDAY SPECIALS, PALMETTO SPECIAL (South Carolina History), HARMONY (Performing Arts), and MAKING GOVERNMENT WORK, OLO WORLD BACKGROUND, U. S. HISTORY, MIDDLE SCHOOL GEOGRAPHY, and TRAFFIC COURT.
- 15. Assist other offices of the Department of Education to achieve their program goals by developing and scheduling programs over the ETV Network.
- 16. Continue\_the\_production and scheduling the monthly program of "Up-date: Department Report:"

(Scheduling)

- 17. Assure that television programs are available for broadcast at scheduled times.
- Schedule the SC ETV Network for delivery of the State Board approved instructional television resources for 1986-87.
- 19. Schedule the SC.ETY/ER Networks for delivery of the Staff Development programs for 1986-87.

(Utilization)

- 20. Implement a program of activities which will increase ITV usage in the public schools by the following: (a) Gain in new using schools 15; (b) Gain in individual student count 10;000; (c) Gain in series enrollment 50;000.
- 21. Continue\_a\_program\_of activities which will provide assistance for access to audio instruction via broadcast or tape.

- 22. Provide 150 school in-service presentations for the purpose of immorrowing quality and quantity of resource usage.
- 23. Provide instruction for the Instructional Technology Building Coordinators through district/regional workshops and individualized instruction to facilitate use of local and state resources by schools.
- 24. Provide instruction for videotape equipment operators in schools.
- 25. Increase and improve ITV reception in public schools through a plan of cooperative activities with the SC ETV Network and the Office of School Planning and Building, State Department of Education.
- 26. Provide undergraduate and graduate classes at institutions of higher education with information to effect an understanding and use of ITV and Radio resources in South Carolina.
- 27. Promote the utilization of the ITV series: IMPROVING ECONOMICS REA-SONING, MATH WORKS, IT'S A RAINBOW WORLD and ITV Safety Series.

(Staff Development)

- 28. Develop and print the 1986-87 Staff Development resources monthly schedules.
- 29. Offer a program of SDE re-certification and graduate level courses.
- Continue the identification and production of ITV/Radio Staff Development programs.

(Parent Education)

 Schedule and promote television and radio parent-oriented educational programs.

# COMPUTERS

- Develop Advisory Listing of grades 1-8 reading, composition and math software for BSAP.
- 33. Develop an advisory listing of science software for BSAP.
- 34. Obtain and house in microcomputer lab at SC ETV and the 5 field offices preview materials pertaining to microcomputers and their use in teaching grades K-12.
- 35. Operate and maintain a microcomputer lab at SC ETY and a regional lab at each of the 5 Instructional Technology Field Offices.
- 36. Provide information, assistance, and workshops on the use of computers in teaching math, reading, composition, and science.
- Review and recommend approval of applications for computer education courses for educators and monitor approved courses.
- 38. Conduct the annual microcomputer survey of schools.

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- 39. Develop and disseminate microcomputer reports.
- 40. Develop and disseminate programs and print materials related to office mission on instructional use of computers as appropriate.
- Continue an in-service program for staff in the use of microcomputers for instruction.
- 42. Manage the SDE Textbook Evaluation Committee on INTRODUCTION TO COMPUTERS, and present recommendations to the State Board of Education.
- 43. Pilot the Software Evaluation Exchange Develoment (SEED) Project. (This project, if approved by the executive committee of the Southeastern Regional Council for Educational Improvement, will establish a cooperative evaluation system for computer software by seven State Departments of Education.)

#### F. EVALUATION

- 44. Conduct an assessment of utilization based on the BEDS and ITV/Radio Utilization.
- 45. Obtain and assess student evaluation of ITV resources that are: (a) Proposed for acquisition; (b) Under development; (c) Currently scheduled.
- 46. Obtain and assess teacher evaluation of ITV resources that are: (a) Proposed for acquisition; (b) Under development; (c) Currently scheduled.

# G. DISSEMINATION

- 47. Disseminate 1985-86 Television and Radio Resources Book.
- 48. Disseminate a radio teachers guide.
- Disseminate a curriculum guide for use of 1985-86 ITV and Radio resources in the Defined Minimum Program.
- 50. Disseminate a quarterly Instructional Technology Newsletter to public school personnel.
- 51. Disseminate a 1985-86 guide for Building Coordinators.
- 52. Disseminate a "Primer For In-School Production" for use by public schools.
- 53. Disseminate lesson guides and student activity materials.
- 54. Disseminate an equipment inventory.
- 55. Disseminate a monthly Staff Development schedule to all schools.
- 56. Implement activities related to information, promotional and other Instructional Technology awareness thrusts of the Office.
- 57. Develop and disseminate Utilization Reports.



58. Disseminate the 1984-85 Annual Report of the Office of Instructional Technology.

# H. REPORTING

- 59. Prepare a progress report on the activities of the Office for inclusion in the Annual Report of the State Superintendent of Education.
- 60. Prepare 1985-86 Annual Report for the Office of Instructional Technology.
- 61. Develop an equipment inventory and a utilization report.

#### INSTRUCTIONAL TECHNOLOGY ADVISORY SYSTEM

In order to provide better lines of communication between the Office of Instructional Technology and those we serve in the schools, an Advisory System is employed. This System has two components, 12 Curriculum Committees for various content areas and a State Advisory Committee.

### Carricalam Committees

Each of the twelve Curriculum Committees was composed of the following: 1) A chairman; 2) State Department of Education Curriculum Consultant; 3) One building coordinator; 4) One principal; 5) Five teachers; 6) One district curriculum specialist. The individuals on a committee are selected based upon their knowledge of a content area and/or their use of ITV/R programs in that area. These committees met during the year for the purpose of reviewing potential new ITV/R programs; reviewing and evaluating existing ITV/R programs and reviewing other activities of the Office of Instructional Technology. Recommendations from the twelve Curriculum Committees were referred to the Instructional Technology State Advisory Committee. The committees were:

Language Arts K-7 8-12	Mathematics K-7 8-12		Science K-7 8-12
Social Studies K-7. 8-12	Art and Music K-12	•	P.E., Health & Safety K-12
Career_& Vocational E	ducation		Staff Development

## State Advisory Committee

K-12

The State Advisory Committee was composed of the following: 1) A chairman; 2) the 12 Curriculum Committee Chairmen; 3) 11 building coordinators; 4) 8 principals; 5) 5 district superintendents or assistant superintendents and 4 SDE representatives. This committee met on December 7 to receive and consider reports and recommendations from the 12 Curriculum Committees, formulate recommendations concerning ITV/R programming and other ITV/R services and present their recommendations to the Office of Instructional Technology. These recommendations are used by the Office of Instructional Technology for direction in selecting new or dropping old ITV/R series, producing new ITV/R series, structuring schedules, changing print matter; etc.

## OFFICE OF INSTRUCTIONAL TECHNOLOGY PUBLICATIONS

The Office of Instructional Technology uses printed materials to communicate information and to provide service to the public schools. The following is a list and description of publications which were provided in quantity to schools or were obtained upon request. All publications are free of charge to the public schools.

- ITV and Radio Resources Book Includes significant information about ITV/Radio utilization; series telecasts; schedules; and series descriptions. Also included descriptions and yearly broadcast schedules for Staff Development Programs. A copy of this book was mailed to all teachers and administrators in August.
- 2. S. C. Instructional Radio Teacher's Guide Contains all teacher lesson guide material relative to the use of individual radio series.
- 3. ITV/Radio Resources in the Defined Minimum Program A Curriculum Guida which correlates all ITV/R resources with curriculum requirements of the Defined Minimum Program. It was provided to administrators and curriculum personnel of each district.
- 4. Survey Overview Booklet-ITV/Radio Annual Utilization Survey A publication for school principals and ITV/R Building Coordinators that outlines procedures for conducting the annual ITV/R Utilization and utility of survey data.
- South Carolina Scene A monthly publication including highlights of public TV programs of interest to teachers.
- 6. South Carolina Scene: Instructional Technology Newsletter A quarterly publication featuring special articles about microcomputers and ITV/Radio utilization distributed to all teachers and administrators.
- 7. A Primer for In-School Production A booklet giving brief guidelines on the essentials of making low-budget TV productions by faculty and students.
- 8. Instructional Technology Building Coordinator's Guide Provides a handy checklist of suggested services for assisting teachers in the use of instructional television and radio throughout the school year.
- 9. Teacher and Student Lesson Guides for ITV Series Each ITV series has a guide for series utilization. Several series are designed to use student worksheets or other materials and these are provided either in a master copy or in quantity. Requested during 1985-86 were 47,548 teacher lesson guides and 28,053 student guides.
- 10. Math Software BSAP Correlation, Grades 1-8 Provides information on grades 1-8 math microcomputer software that has been correlated to the South Carolina BSAP Objectives: (Second Revision)
- Language Arts Software BSAP Correlation, Grades 1-8 Provides information on grades 1-8-language arts microcomputer software that has been correlated to the South Carolina BSAP Objectives. (First Revision)
- 12. Science Software BSAP Correlation, Grades 1-8 Provides information on grades 1-8 science microcomputer software that has been correlated to the South Carolina BSAP Objectives.
- 13. 1984 Computer Report Provides a comprehensive report of the 1984-85 state—wide district office and school computer survey. Included in this report is information on survey design and findings related to computer hardware, software, funding and uses of computers.





- 14. Holiday Special Calendar-Provides a listing and telecast schedule for Holiday/Christmas specials broadcast during December of each year.
- 15. Dffice of Instructional Technology Staff Development Television
  Schedule-Distributed monthly August through May. Contains a listing
  of televised staff development programs and their daily telecast schedules with special notes to teachers and ITV Building Coordinators.
- 16. Dffice of Instructional Technology Staff Development Radio Schedule-Distributed monthly August through May. Contains a listing of broadcast staff development programs and their daily broadcast schedules with special notes to teachers and ITV Building Coordinators.

#### Computer Assisted Instruction (CAI/CMI)

Primary activities for the year have been the revision of BSAP-correlated language arts and math computer software advisory listings, and the development of the science software advisory listing, providing workshops on effective use of this software, and of conducting the second statewide computer surveys.

Other computer-related support activities included collecting computer plans from state education agencies, operation of six computer labs, scheduling computer training and informational staff development programs over the state ETV and radio networks, providing presentations at state education conferences, and serving as the point of contact for information requests on CAI from educators and agencies both in-state and out-of-state.

\_Throughout the year the office was involved in planning for implementing in 1985-86 a multi-state pilot project on software evaluation called SEED (Software Evaluation and Exchange Design, Development, Dissemination) sponsored by the South Eastern Regional Council for Educational Improvement.

The third statewide computer surveys also show that:

- -- the total number of computers in K-12 schools was 14,959.
- --there were 1,062 schools (or 95 percent) in 93 school districts (or 99 percent) with computers.

  --The total number of printers in K-12 schools was 3,875; and in district administrative offices, -520.

  --14,122\* computers in schools were used for CAI/CMI while 890\*
- were used for administration.
- --Df the 656\* computers in district offices, 516 were used for administrative purposes and 163 for instruction.
- \* Figures exceed the totals of 14,959 and 656 computers due to multi-purpose use of some.





A microcomputer lab containing a variety of microcomputers, software and a library of publications and other materials continued to assist educators at the SC ETV Network. This lab was used by educators to examine hardware and software and to do research in the use of microcomputers in instruction. The lab was operated by staff from the Resource Development Section. "Mini-labs" served local educators from each of the five utilization field offices.

The total staff conducted 71 workshops, held 51 meetings with representatives of companies and/or agencies, participated in 24 training sessions, conferences and seminars and made 6 presentations at meetings and conferences.

The Office of Instructional Technology has two sections, Resource Development' and Utilization. A summary of the work of these two sections for the past year follows.

#### RESOURCE DEVELOPMENT SECTION HARVEY S. TEAL, CHIEF SUPERVISOR

The Resource Development Section develops and recommends for acquisition television and radio resources. As a part of the process, visits are made to classrooms to observe how resources are conducted, workshops are held and in-service programs are presented.

### TELEVISION RESOURCES

Eight series were deleted from the 1984-85 schedule and 26 were added, thus making available 182 series. These contained 3,483 individual lessons which, on a single telecast basis, represented 1,100.09 hours of instructional television broadcast into South Carolina public schools. Each series was broadcast a number of times during the year. This is the most comprehensive instructional television schedule by any state educational network in the country.

#### LOCALLY PRODUCED SERIES - 1985-86

The Resource Development Section continued production on IT'S A RAINBOW WORLD, PALMETTO SPECIAL, KARMONY, and MAKING GOVERNMENT WORK. EXPERIENCES IN MUSIC, ORAMA AND DANCE, and CHRISTMAS SPECIALS were updated. Production with AIT through a consortium with other states on four programs in a fifth grade math series entitled, "Math Works" was completed. U. S. HISTORY and OLO WORLD BACKGROUND were revised. Programs in these series were produced under the direction of five instructional specialists. A brief description of these series follows:

IT'S A RAINBOW WORLD

Dr. Sandra G. Thomas continued production on this\_K-1\_social\_studies series which is a continuation of the primary series, UNDER THE BLUE UMBRELLA.

# PALMETTO SPECIAL (South Carolina History)

Production and broadcasting of this series for eighth graders continued in 1985-86. Oaniel H. Pipes is Instructional Specialist.

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Production continued under the direction of Arletta Raley. HARMONY combines music, drama and dance for the primary child.

# MAKING GOVERNMENT WORK

Production continued under the direction of Jack Hanna, Instructional Specialist. -9-





MATH WORKS
Production, under the direction of Instructional Specialist Robert Elton, was completed on three programs in this fifth grade math series.

The following programs were produced for in-school use:

<u>Series</u>	Number Completed	
IT'S A RAINBOW WORLD PALMETTO SPECIAL MAKING GOVERNMENT WORK HARMONY	12 4 1	~
EXPERIENCES IN MUSIC, DRAMA AND DANCE CHRISTMAS SPECIALS MATH WORKS Total	6 1 4 29	

#### LOCALLY EDITED SERIES

Some acquired series require editing before they can be placed on the South Carolina ETV Network. Production Specialist, Robert Elton, edited 15 programs.

### NEW TELEVISION SERIES

# LANGUAGE ARTS

TELETALES Grades K-3 15 Lessons 15 Minutes

TELETALES draws on the oral legacy of cultures all around the world to bring children in grades K=3 literature that has stood the test of time. Producer/writer John Robbins says, "Good triumphs over evil, smart leaves stupid in the dust, and truth unmasks treachery."

# YOU CAN WRITE ANYTHING Grades 3-6

10 Lessons 15 Minutes

The skill of writing well is developed by practice, encouragement and motivation. YOU CAN WRITE ANYTHING supports this writing process, incorporating the theory that children should be given frequent and varied opportunities to see themselves as authors.

## TOMES AND TALISMANS Grades 6-8

13 Lessons 15 Minutes

Traditional library and reference skills are taught through creative television programs requiring students to use materials in the library to solve problems and achieve solutions to mysteries.

SPEAKEASY Grades 6-12 5 Lessons 30 Minutes

SPEAKEASY is designed to teach students public speaking and debating skills. An entertaining magazine format captures and holds students' interest.

#### MATHEMATICS

MATH WORKS (Mathematics for the 80's)
Grade 5
28 Lessons 15 Minutes

The purpose of this series is to strengthen instruction in fifth grade math within a problem-solving framework. This series is a sequel to the fourth grade series, IT FIGURES.

VOYAGE OF THE MIMI Grades 3-7 26 Lessons 15 Minutes

The VOYAGE OF THE MIMI is a 26-part television series consisting of (1) thirteen 15-minute episodes of a continuing dramatic story dealing with the adventures of a group of young people doing whale research in the Northwest Atlantic; and (2) thirteen 15-minute documentary "Expeditions" dealing with scientific and mathematical concepts encountered in the drama. A computer component is available for use with this series.

#### SCIENCE

ZOO NOTES Grades K-6 15 Lessons 15 Minutes

ZOO NOTES is designed to provide elementary students with enrichment experiences in the area of natural science and to promote understanding of the purpose and operation of a zoo. Especially noted are the contribution of zoos to the protection of rare and endangered animals.

VOYAGE OF THE MIMI Grades 3-7 26 Lessons 15 Minutes

The VOYAGE OF THE MIMI is a 26-part television series consisting of (1) thirteen 15-minute episodes of a continuing dramatic story dealing with the adventures of a group of young people doing whale research in the Northwest Atlantic, and (2) thirteen 15-minute documentary "Expeditions" dealing with scientific and mathematical concepts encountered in the drama. A computer component is available for use with this series.



PASS IT ALONG
Grades 4-5
8 Lessons 15 Minutes

Each program in the series features an artist who expresses himself in a different artistic medium but each artist is concerned with and inspired by the natural beauty of our environment. Topics covered are photography, dance, performance, painting, architecture, writing, and music. The series blends scientific, artistic, and environmental concepts.

HOMEOSTASIS
Grades 10-12
6 Lessons 10 Minutes

HOMEOSTASIS explores the internal systems of balance and regulation in animals. With the help of computer animation, sequences illustrate how the body deals with changing conditions such as high and low temperatures, and how the shortage (or excess) of fluids is adjusted and regulated.

WAVE PARTICLE DUALITY
Grades 10-12
6 Lessons 10 Minutes

This series traces the development of the various theories advanced to explain the behavior of light from the concepts of the ancient Greeks to the proven models of today.

ENERGY FLOW Grades 10-12 8 Lessons 10 Minutes

ENERGY FLOW encompasses one of the principal themes of any biology course; the flow of energy throughout the world of living things. Central of this concept is the process of photosynthesis, without which life could not exist. This series also deals with energy flow in organisms, within a cell, and the role of the energy flow in our agricultural system. The series concludes with a look at energy flow in the biosphere.

# SOCIAL STUDIES

IT'S A RAINBOW WORLD

Grades K-1
16 Lessons 15 Minutes

IT'S A RAINBOW WORLD presents beginning social studies concepts for kinder-garten and first grade students. The programs, which are based on family life, show everyday situations that five, six, and seven-year-olds experience. As children learn about themselves, their families and the world around them, they develop the skills necessary to understand and to participate effectively in their world.

GROWING UP/GROWING OLDER

Grades 3-6

3 Lessons 15 Minutes

GROWING UP/GROWING DLOER is one experience we all share. Welcoming students into this thought-provoking program should encourage them to develop positive attitudes about aging and older people in general.

THE AMERICAN FRONTIER

Grades 6-12

3-7 1/2 Minutes 16 Lessons

THE AMERICAN FRONTIER, hosted by Charlie Jones and Merlin Olsen, is an unusual series of sixteen short television vignettes depicting the colorful legends and history of the old West, as well as its important characters and events.

WHAT IS...? Grades 6-12

20 Minutes 2 Lessons

Each program in this series uses historical dramatization, rhetorical inquiry, direct address, film/video clips, interviews, and provocative and imaginative sound tracks and visuals as it probes and clarifies the subject area. After viewing these programs, students will be able to utilize the critical thinking methods demonstrated in their everyday lives.

NEWSCAST FROM THE PAST Grades 9-12 6 Lessons 15 Minutes

This series presents a global concept of history that allows for a horizontal view of the world within a specified period of time (40 years within a given century).

ART

ARTS-A-BOUNO

Grades 4-6

16 Lessons 15 Minutes

ARTS-A-BOUND takes 5th and 6th grade students on field trips to where the arts are made, displayed or performed. The series helps students understand value and enjoy theater, dance, music, and the visual arts by exposing them to the people, the process and the performance of all kinds of arts.

MUSIC

IT'S MAINLY MUSIC

Grades 4-6

15 Minutes 10 Lessons

In this series, Heather, a musician, and her three young friends, Kimberly, Justin, and Nicholas, explore the components and various concepts of music. Together they discuss the importance of melody, harmony, and rhythm. The programs include demonstrations of many different styles of music and a variety of musical instuments.

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MUSICAL ENCOUNTER Grades 3-6 6 Lessons 30 Minute

This series transmits the joy and enthusiasm of those children playing musical instruments to their peers - the viewers, and, exposes the viewing audience to the various sounds of musical instruments and fosters an understanding of the difficulties that challenge the players of each instrument.

# PHYSICAL EDUCATION, HEALTH AND SAFETY

WELL, WELL WITH SLIM GOODBODY Grades 1-3 15 Lessons 15 Minutes

The WELL, WELL, Series was produced by Slim Goodbody of the very successful series, THE INSIDE STORY WITH SLIM GOODBODY. This health education series for primary students stresses food, first aid, and feelings more than blood and bones. The lively programs balance entertainment with solid content about healthful living.

AN\_OUNCE OF PREVENTION (Child Sexual Abuse)
Grades 4-6
4 Lessons 20 Minutes

This series is designed to provide vital, age-appropriate and broadly usable information on sexual abuse to children four through fourteen years of age. The programs should be used only after preview and the appropriate involvement of local school district or community groups.

# VOCATIONAL AND CAREER EDUCATION

PRINCIPLES OF TECHNOLOGY Grades 10-12 14 Lessons 8 Minutes

This series includes video presentations and hands-on laboratory exercises to make learning effective and appealing for the vocational student. In a concrete and practical manner it shows how technical concepts and principles apply to the mechanical, thermal, electrical, and fluidal (i.e., hydralic and pneumatic) systems that are the foundation of high technology.

# COMPUTER ASSISTED INSTRUCTION

VOYAGE OF THE MIMI Grades 3-7 26 Lessons 15 Minutes

The VOYAGE OF THE MIMI is a 26-part television series consisting of (1) thirteen 15-minute episodes of a continuing dramatic story dealing with the adventures of a group of young people doing whale research in the Northwest Atlantic and (2) thirteen 15-minute documentary "Expeditions" dealing with scientific and mathematical concepts encountered in the drama. A computer component is available for use with this series.



COMPUTERBREAK

Grades 4-8

12 Lessons 15 Minutes

This series acquaints the learner with the extent of computer integration into society; the history of computers; how a computer works; the importance of human thinking to the process, and the essential steps, statements and commands to programming in BASIC. The last program applies the information gained in the first eleven programs, so that the learner can become an active participant in a computerized society.

SOLUTIONS UNLIMITED

Grades 6-8

8 Units 5-12 Minutes

SOLUTIONS UNLIMITED is a consortium project using microcomputers, television and print to improve the problem-solving abilities of students in gradec 6-8. The series has eight units, each containing a TV segment, a microcomputer disk, and a teacher's guide.

IMPROVING ECONOMICS REASONING

Grades 9-12

8 Lessons

Each of the project's eight instructional units will emphasize application adm systematic thinking. The economic reasoning methodology will be apparent enough so that students completing aunit will learn a more general reasoning structure to be applied in working through problems/issues using the appropriate tools of economics. This series curriculum package contains teacher and student materials and microcomputer programs requiring 64K memory.

## ITV SERIES EVALUATION

Evaluation of ITV/R programs is an essential component of the process employed for the development and use of these programs. The evaluation system has two parts, formative and summative.

FORMATIVE: The Resource Development Section evaluated fourteen programs from series in production with students, teachers in nine classrooms, and series advisory committees. Other formative evaluation techniques employed were asking professionals, such as doctors and lawyers, to review scripts; sending programs to experts for review; using programs to teach a group of students. Series being considered for adoption were evaluated by more than 4,000 teachers, administrators, students, and South Carolina ETV technical staff.

SUMMATIVE: The Instructional Technology Curriculum Committees and the state advisory Committee evaluated the 1985-86 resources. There were 108 educators involved in this evaluation. These committees provide guidance as to whether or not our resources are accomplishing the objectives for which they were designed and whether or not they need revision. Other summative evaluation activities were submitting programs in competition and securing evaluation of programs when used in other states.





# WORKSHOPS CONDUCTED

The Resource Development staff conducts workshops each year pertaining to the series they are producing or the content area in which they are certified. Sixteen (16) workshops were held for 343 teachers.

# STATE DEPARTMENT OF EDUCATION OBJECTIVES

During 1985-B6\_the\_Department of Education used television extensively to help achieve its goals and objectives. Robert Elton, ITV Production Specialist, coordinated the planning and production activities for the 38 programs produced for use in workshops and for telecasting over the ETV Network. These programs were:

# ITV STAFF DEVELOPMENT PROJECTS 1985-86

Office of School Food Services	
Free/Reduced Price School Meals	
Update School Food Service	;
Office of General Education	
Update: Music Education	
Thinking_Skills	
All The Difference	
Dr. George Orvin On Parenting	;
Office of Vocational Education	_
School Building Maintenance	7
Vocational Education Promos	3
Competitive Edge	1
Office of Adult Education	
Adult Education Teleconference	1
Office of Research	
BSAP Math Pralysis	1
Office of Instructional Technology	
Update: Department Report	g
I-TECH Welcome Back to School	ĩ
I-TECH Copyright Teleconference	ī
I-TECH Report to State Advisory Committee	ī
I-TECH Utilization Survey Orientation	ī
ITV 1985-86 Excerpts	ī
ITV_Staff_Development Excerpts	ī
PORTRAIT OF AMERICA Teleconference	ī
Copyright Law	2
Constitution Teleconference	1 1 1 1 1 2
Law Day Teleconference	ī
Total	





#### RADIO RESOURCES

Identified for adoption were 52 radio series totalling 961 programs and 258 hours of instruction. These series were provided on tape upon request to schools.

During 1985-86 the Department of Education used radio to help achieve its goals and objectives by producing programs for use in workshops and for broadcasting over the SC Educational Radio Network. These programs were:

# IR STAFF DEVELOPMENT, 1985-86

Program-	Number	οf	Programs
Library Newsletter		-9	
Education Reform - Dr. J. Chopra		1	
Educational Needs - Terry K. Dozier		1	
Effective Schools - Teacher's Viewpoint - Terry K. Dozier		i	
Legislation & Effective Schools - Dr. W. Riles		1	
Transformations Affecting Education - Lr. L. Hutchins		1	
Critical Teaching Skills - Dr. Julia Thomason		3	
Building Children's Self-Confidence Through Talent		1	
Development - AHilliard		-	
The Disappearance of Childhood - N. Postman		1	
Efficacy in Evaluation - Sandra L. Robinson		1	
Learning About Children's Cultures - Asa Hilliard		1	
Professional Development of Teachers - Kevin Swick		1	
Total		22	

# CONTESTS SPONSORED

As a corollary to the WAYS OF THE LAW instructional television series, a statewide Mock Trial competition was sponsored by the Office of Instructional Technology and the South Carolina Bar Association.



# UTILIZATION SECTION ROBERT W. REESE, CHIEF SUPERVISOR

The Utilization Section consisted of a Chief Supervisor, five utilization consultants and secretarial/clerical staff. The section provided a very active program of services to improve the quality and quantity of utilization and expand reception. These services plus the addition of new and revised ITV Resources, the services of school building coordinators and reception improvement resulted in substantial utilization growth.

# Utilization Staff Members

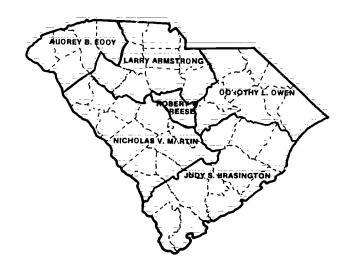
The names, office locations and geographical areas served by the utilization consultants are:

# Utilization Consultant

Larry\_Armstrong Judy S.\_Brasington Audrey B. Eddy Nicholas Martin Dorothy L. Owen

# Field Office

Rock Hill Charleston Spartanburg Blackville Florence







MAJOR ACCOMPLISHMENTS OF STATE DEPARTMENT OF EDUCATION OBJECTIVES A total of 182 in-services were provided, 47 of which were for closed circuit schools.

1.	In-service and training	9:		ccomplishe	d:	
	Training_of_VTR Operato	ors_ Orientation		85-86 87% 87%		84-85 79% 74%
ż.	In-services/Workshops: Closed Circuit Schools Open Circuit Schools District In-services Others	Totals		47 106 8 22 183		51 103 11 - 29 194
	ITV: New Using Schools Total Series Usage Individual Students	ÿį ewing	+ + + + + + + + + + + + + + + + + + + +	42 10% 4%	<u>+</u> + +	3 2 1 0% 4%

# 3. Summary of Utilization Services Provided:

The Utilization Section scheduled consultant services to meet major service needs of districts and schools. A summary of the major services were:

	85-86	84-85	83-84
ITV & Radio Building Coordinators:  a. Appointed b. Trained during fall workshops c. rained by individual	1,050 508	986 398	1,114 321
school visits	84	96	142
VTR Operators Trained	119	102	105
In-service Presentations:  a. Number given  b. Teachers attending  c. schools given in-service	183 5,105	194 5,976 154	205 5,288 174
Schools visited School and Administrative office	409	437	445
visits Superintendents_visited Conferences with school	1,080 69	1,121	1,284 76
administrators College classroom presentations Civic_or non-school presentations	356 15	454 18 3	4 9 9 1 4
PTA/PTO presentations	4	ì	7



## 4. Television Network Expansion

ETV's Division of Field Technical Services maintained closed circuit service and 805s (Building Distribution Systems) and cutlets as well as maintained reception and installed equipment and television towers in Phase I of the ITFS project throughout the school year. ETV installed 37 BDSs during 1985-86.

 $\hat{\mathbf{A}}_{z}$ ... Summary of BOSs and additional classroom outlets installed by ETV:

EIN	<b>/:</b>	85-86	84-85	83-84
4.	1) 805:	37	32	<u> </u>
<u></u>	2) BOS Outlets:	1349	1185	929
·•.	3) Minor Project Outlets:			
,	a) No. of Locations	209	-	-
•	b) Total Outlets	1130	=	165
	4) Tötäl Dütlets Inställed	2479	1185	1094
В.	Total No. Classroom Dutlets (As of June 30, 1986)	28,895	28,208	26,513
Ċ.	Total BDSs in schools as of June	30, 1986:		
	1) ITFS Schools: 2) Open Circuit Schools: 3) Other Location: (Admin. Offices):	364 481 <u>(41)</u>	249 483 (6)	
	(Excludes "Other Locations"):	845	732	

# 5. School Reception Equipment Purchases

\_\_\_\_\_Availability\_of TV and Radio equipment increased by the following amounts and percentages:

•	<u>85-86</u>	84-85	83-84
TV Sets	1,049 (7%)	461 (3%)	401 (3%)
VTRs	387 (22%)	327 (22%)	192 (15%)

### D. Completed Minor Project Installations

Market and the second s

\_\_Ouring\_1985-86\_ETV's Division of Field Technical Services initiated a\_special project to expedite installation of regular classroom and portable outlets, VCR inputs, and open circuit antennas, many of which were long standing requests. Funding was provided by ETV and the local school districts on a matching basis; with expenditures of local moneys being matched by, in most instances, placement by ETV of color TV sets. The success of this project exceeded all expectations as ETV and the utilization consultants of the office negotiated with local school administrators to arrange funding. Oistrict funded installations were made by private contractors while ETV technicians made some of the installations.

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A total of 44 school districts and 247 schools benefited from the project which resulted in 572 portable and 452 in school television outlets being installed, an approximate value of £102,400 to the school districts.

Fifty-four color 19 inch TV sets valued at around \$17,604 were placed in matching district money used in the project.

# 6. Computer Education Utilization Activities

Now in the third year of providing computer services to schools, the office continued expanding its variety of services to schools on the instructional use of computers. One staff member served as of the state textbook adoption committee chairman for the Gr. 9-12 Introduction to computers course. The office participated in implementing a seven-state cooperative project for software evaluation called SEED (Software Evaluation Exchange Dissemination). A third statewide computer survey was completed and a computer report was issued. Eight presentations on computers in instruction were given at statewide educational conferences. educational conferences.

In cooperation with the Office of General Education, the office reviewed computer course applications for approval. The utilization consultants monitored five computer courses which were offered for certificate = renewal credit. Seventy = two Introduction to Computers; Computer Applications; and Computer Mathematics courses were funded; serving a total of 1,554 teachers at a rinal expenditure of \$327,725.62.

The Utilization staff provided a very substantial amount of assistance directly to school districts and schools as given below:

# A. School Assistance Visits:

i.	Number of School Visits	131
2.	Number of Schools Visited	109
	Mamael Of Schools Algred	76
3.	Total Administrative Visits	, 0
4.	Total Number Visits to School	
	and Administrative Offices	207

	and Administrative Offices	207
В.	Computer Class Visits	
	Number of Certificate-Renewal Class Visits	5
Ċ.	Computer Workshops	
	1. Number given 2. Attendance	71 1,525
Ď.	General Presentations on Computer Education	
	<ol> <li>Number of Presentations</li> <li>Attendance</li> </ol>	10 132



# 7. Computer Software Evaluation Project (SEED)

The Office participated in the pilot year for a Software Evaluation Exchange Dissemination (SEED) project sponsored by the Southeastern Instructional Lab (SEIL) in Raleigh, N. C. Participating States included Georgia, Florida, Alabama, South Carolina, North Carolina, and Louisiana. The office staff served on the SEED task force; jointly sponsored a regional software evaluation trainers workshop, conducted a state-wide software evaluators workshop, and administered the project which produced 19 completed evaluations. Other data on the pilot year's evaluations is as follows:

# South Carolina SEEO Software Evaluations: 1985-86

		•
1.	Titles_Reviewed	19
	Recommended	^ <u>é</u>
	Not Recommended	ĕ
	Recommended with	Ū
	Reservations	ż

# 2. Subject Area of Software Titles Reviewed:

Mathematics	. 3
Language Arts Health	14
nearth	2
	19

# 3. Training of Evaluators:

No. trained	19
No. to be retained	
for 1986-87	15

A set of 125 evaluations from the SEED project is being printed for instruction to school district offices. The project was successful in the major objectives of increasing the number and quality of software evaluations available to our educators and in increasing the expertise of staff and evaluators in software evaluation.

# EVALUATION OF PROGRAM

The utilization section participated in the monitoring of 5 certificate-renewal Introduction to Computers courses offered by school districts during the year.

#### ITV AND RADIO UTILIZATION

The annual statewide utilization survey of ITV and Radio usage and equipment inventory conducted as part of the State's Basic Education Data System survey (BEDS) provided data on usage of ITV/Radio resources and growth in local reception. This data is used to manage delivery of consultant services, schedule resources over the ETV and ERN Networks, improve local reception and in placing TV and Radio sets where they are most needed. This information is given to local districts and schools to assist in budgeting for purchases, equipment maintenance; transfer of unused sets within districts and retirement of equipment that was not repairable.

# INSTRUCTIONAL TELEVISION (ITV)

The state's schools were served by 11 ETV television stations, by the closed circuit/ITFS network for 271 secondary schools (schools having grade 7 and above) and to a limited extent by ETV tape delivery and was used by:

77% of our students 93% of our schools 44% of our teachers

Television Usage	85-86	84-85	83-84
Schools	1,031	1,019	1,007
Districts	91	91	91
Individual Students Viewing	464,586	447,411	428,928
Total Series Usage	2,553,764	2,331,464	2,123,931
Teachers Using	16,496	15,386	14,620
Classes	117,390	105,522	93,664
TV Sets	15,458	14,510	14,049
Videotape Machines	2,170	1,788	1,461

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# SERIES UTILIZATION BY STUDENTS, TEACHERS AND CLASSES

Series	Grade Level	Series Rank	Total Se 85-86	ries Usagi 84-85	e (Stüdent: 83-84	s) Teache 85-86	rs Using 84-85	Series 83-84	Clas	ses Using 84-85	3 ITV 83-84
LANGUAGE_ARTS				_							
About Books: Intermedia	te 4-6	77	11,589	10,833	13,777	357	350	385	543	C13	200
About Books: Primary	1-3	45	18,570	19,135	21.063	810	692	849	916	513 915	602
American Literature	9-12	96	8,912	8,959	7,325	165	154	126	401		1,014
* The Best of Cover to			-,	0,505	,,025	100	134	120	401	380	319
Cover I & II (Combined	9 4-6				31,972			975			1,390
The Best of Cover to Co	ver I. 4-6	44	18,780	19,522	,	666	670	373	911	915	1,390
The Best of Cover to Co	ver II 4-6	<b>3</b> 3	24,426	25,649		759	728		1,127	1.143	
Bookbird	_ 4	49	16,627	14,343	17,308	545	499	612	755	664	754
Cursive Handwriting A	2-3	37	21,264	20,215		987	946	-	1,051	1.025	
Cursive Handwriting B	2-3	91	9.762	8,631	_	453	421		492	- 442	. 🖺 .
From the Brothers Grimm		8	44,587	33,395	20,194	1,642	1,282	811	2,180	1.656	971
Gather Round	1-3	3	53,358	48,657	50,937	2,106	2,000	2,042	2,572	2,368	2,405
Getting the Word	6-12	113	6,912	8,910	11,049	273	373	436	403	547	594
Guten Tag	10-11	182	609	735	395	16	15	14	29	34	22
Guten Tag, Wie Geht's	10-12	188	266	341	_ 160	- 8	14	و	13	21	11
Humanities	9-12	.47	18,027	18,560	14,958	294	285	213	814	779	599
In Other Words	7-8	165	2,226	4,390	4,039	56	. 200	74	109	185	173
The Inventive Child	4-7	142	_4,592	4,941	4,127	208	205	181	219	239	198
<u>The Letter People</u>	1	4	50,928	44,707	49,430	2,081	1,887	2,043	2,525	2,226	2,356
A Matter of Fact	7=10	105	7,661	10,160	9,315	150	176	155	351	451	393
A Matter of Fiction	7-8	65	13,442	17,856	15,803	276	304	276	670	805	701
Our Living Language	4-6	59	14,593	16,270	18,042	444	491	495	677	699	769
Parlez-Moi	6-12	94	9,568	_ =		134	<b>.</b>	=_	379	= -	703
_ Poetry Alive		155	2,831	3,937	3,639	68	68	66	136	164	154
* Read All About It I & II	1									104	134
(Combined)					17,346			604			758
Read All About It I	4-6	50	16,309	15,081		613	565		784	731	,,,,
Read All About It II	4-6	7.2	12,679	13,542		483	470		611	629	
Readalong I	1	38	21,210	22,459	20,798	1,019	1,078	1,005	1,100	1.158	1,070
Readalong II	2	80	11,227	10,591	12,618	543	509	605	580	550	642
Reading Rainbow	2-5	- <b>2</b>	76,419	51,350	35,408	3,162	2,032	1,383	3,669	2,497	1,681
Readit	- 3	93	9,663	11,008	8,758	396	406	336	461	495	413
Secondary Grammar	9-12	107	7,543	8,403	9,594	124	131	148	358	366	416
Shakespeare's Plays	10 <u>-</u> 12	10	42,088	37,968	35,663	621	557	514	1,819	1,602	1,442
The Short Story	7-12	9	42,643	49,696	39,083	688	727	599	2,015	2,206	1,691
Short Story Showcase	11-12	<u>.</u> 6	46,099	49,501	38,813	694	667	522	2,100	2,178	1,664
Speakeasy	6 <u>-12</u>	171	1,578	=		-39		- = -	86	-,	
Storybound Teletales	4 <u>-6</u> K-3	36 111	22,731 7,139	25,650 -	23,822	28256	636	638	1,055 325	1,145	1,019



Ţ.··	SCIENCE (Continued)	Grade Level	Series Rank	Total Se 85-86	ries Usago 84-85	e (Students) 83-84	Teach 85-86	ners Using 84-85	Series 83-84	C1 as 85-86	sses Using 84-85	1 ŤŸ 83-84
	Dragons, Wagons & Wax Earth Science Energy Flow	1-3 8 10-12	12 34 162	37,096 24,279	33,359 23,411	32,306 20,493	1,733 395	1,559 338	1,480 329	1,809 1,012	1,626	1,537 836
	Featherby's Fables Homeostasis	1-2	. 58	2,388 14,791	15,169	-	702	- 751	-	102 733	751	-
	The Human Community	10-12 6-10	152 123	3,062		-	48		•	126	=	
	Introducing Biology	10-12	23	_6,159 29,600	4,362 27,112	3,161	107	.78	: 73	263	- 182	129
	Life Science	_ 7	39	19,741	25,943	19,030 21,785	364 305	336 357	252	1,220	1,108	771
	National Geographic Specials	5-12	18	33,960	20,540	-	564	35/ = _:	337	823	1,023	859
	Natural Science Specials	8	62	14,152	11,378	12,494	264	146	184	1,417 622	448	- 490
	Physical Science. Search for Solutions	9	51	16,183	15,387	13,453	228	222	184	651	628	559
	Start Here: Adventures	9-12	71	12,779	10,802	8,087	144	105	95	500	411	330
	in Science	4-7	81	11,099	9.782	6.166	077	44.4	2.75			
	3-2-1 Contact	4-6	32	25,065	19,769	-6,165 15,944	246 827	216	148	456	399	252
	The Universe and I	. 8	75	11,822	14.722	14,108	148	627 170	495 191	1,085	848	647
	Up Close and Natural	1-4	17	34,064	28,190	21,250	1,496	1,326	970	471 1,627	- 580 1,326	558 970
ī	Voyage of the Mimi	3-7	<sub>-</sub> 60	14,391	- <u>-</u>	- <u>-</u> '	421	-,	-	637	1,320	9/0
<b>∔26</b>	Wave Particle Duality Whatabout	10-12 7-8	168	1,711		_ = T==	37	<b>-</b>		- 82	=	=
:	What on Earth?	8	137 63	4,960 13,689	6,597	5,296	. 59	84	72	193	269	217
	Zoo Notes	K-6	66	13,371	15,922	13,692	199	203	192	568	610	555
		•	00	20,5/1	-	-	588	-	-	655	-	-
	SOCIAL STUDIES											
	Across Cultures America	6-7	69	13,064	9,245	7,137	249	162	111	552	366	274
	America - America Counts	9-12	55	15,733	14,532	14,187	216	188	178	622	561	536
	American Enterprise	4-12 11-12	139 102	4,845	3,620	4,829	77	66	95	198	148	197
	The American Frontier	6-12	143	7,995 4,448	7,925	6,645	106	111	104	324	316	280
	American Legacy	5-6	122	6,183	6,054	5,914	88 163	145	7	201	•	-
	Aunt Harriet's Magic Hats	K-3	31	25,422	16,263	3,514	1,167	145 727	159	- 257	242	248
	The Clyde Frog Show	- 1	27	27,083	22,563	24,272	1,170	1,069	1,066	1,251 1,318	803 1,137	1 101
	Common Cents	- 1-2	120	6,271	6,471	5,703	294	318	262	310	325	1,181 275
	Equal Justice Under the Law Einding Our Way	10-12 4-8	89	10,063	9,533	9,368	146	128	123	414	367	368
	Gettin' to Know Me	4-8 4-8	42 98	19,371	21,587	19,801	428	486	440	791	849	782
	Give and Take	8 <b>-</b> 12	90 87	.8,365 10,160	9,134 12,468	8,412	275	288	266	436	469	403
	Growing Up/Growing Older	3-6	166	_2,005	=.	11,764	149 86	186	170	418	516	482
	Holiday Specials (Celebrate)	K-2	13	36,258	33,382	27,515	1,317	1,306	991	: .99 1,719	1:617	1 075
	It's A Rainbow World	K-1	21	31,047		=: * = * = *	1,287	-	227	1,719	1,617	1,269
							-			.,	_	_

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(5)

<i>(</i> 2)		Grade	Series	Total Ser	ries Hean	e (Student:	 . Tobal	hānā liādi:	i ennani		:::	= 1231
	Series	<u>Level</u>	Rank	85-86	84-85		85-86	ners Usin 84-85	g Series 83-84	. <u>C</u> 1a 85-86	sses_Usin 84-85	g ITV 83-84
•	SOCIAL STUDIES (Continued) Making Government Work	11 10							00-04	03-80	04=03	03-04
	National Geographic Specials	11-12 5-12	64 - 56	13,618	14,893	5,997	202	221	94	553	599	242
	News	7-12	- 50 150	15,673	4 555	y Ess	334	•	<del>-</del>	646	-	= '-
	Newscast from the Past	9-12	147	3,354	2,969	4,583	79	79	106	137	136	190
	Odyssey	4-6	90	3,706 9,852	8,956	0.501	63	=		152	=	-
	Old Enough To Care	10-12	176	1,287	838	9,531	242	231	241	407	359	384
	Old World Background	7-12	24	29.353	38,742	32,868	-31	- 23	-	60	43	. =
	Ourstory	6-12	100	8,192	17,155	10,965	413	499	442	1,167	1,462	1,273
	Palmetto Special	8	16	34,188	33,312	34,585	94	208	120	334	. 659	- 407
	Portrait of America	5-12	144	4,150	55,512	34,505	517 82	500	507	1,415	1,347	1,391
	Pennywi se	1-3	78	11,426	9,556	9,167	540	459		182	<del>-</del>	T
	Psychology 101	11-12	148	3,600	3,998	2,935	80		415	562	477	436
	Ripples	K-2	48	17,932	21,977	21,482	816	74 . 977	61	151	166	121
	Sandlapper's Corner	- 3	11	41,241	37,275	39,103	1,718	1.558	973	883	1,066	1,027
	Saudia Arabia	9-12	95	9,457	5,643	39,103	113	71	1,597	1,932	1,774	1,795
	Taxwhys: (Economics of			٠,٠٠٠	0,040	_	113	/1	-	373	213	-
	_Taxation)	9-12	117	6,572	3,910		- 96	67	-	000	1.55	
1.	Irade Offs	9-11	131	5,377	. 6,836	7.421	136	186	204	280 214	162	=:.:
-27-	Truly American	4-8	.14	35,310	35,466	34,467	809	797	842	1,494	295	309
•	Tuned In	6-8	187	303	579	390	11	14	15	1,494	1,485	1,423
	Under the Blue Umbrella	. 1	22	30,250	27,546	27,457	1,421	1,331	1,286	1,499	26	18
	Under the Yellow Balloon	1-3	26	28,016	28,381	27,625	1,316	1,327	1,267	1,364	1,393 1,411	1,342
	Understanding Our Taxes	9-12	97	8,455	9,234	8.891	138	163	127	350	380	1,340 347
	Understanding Our World	_ <b>4-</b> 6	57	15,107	13,487	11,502	391	352	281	- 633	562	347 447
	U. S. History	9-12	15	35,276	47,465	41,350	461	632	546	1,434	1,877	1,621
	Ways of the Law	10-12	61	14,377	16,388	17,445	217	260	234	590	682	673
	What Is?	6-12	172	1,535	<del></del>		25	==:		59	-	0/3
	What's in the News?	4-6	. <b>_ 7</b>	45,183	38,089	33,853	1,201	959	834	1.950	1,595	1,359
	Why in the World?	8-12	163	2,384	3,558	2,467	40	61	33	99	141	94
	ART										• '•	77
	Arts Alive	6-8	156	2-707	0.000	_		2.5				
	Arts-A-Bound	5-7	180	2,797 751	2,852	=	48	42	-	134	141	=
	Arts Express	2-4	157	2,720	1 635	1 024	24		•	- 36	<b>-</b>	_
	Artscape	4-6	99	8,211	1,538	1,974	51	42	61	126	75	90
	The Draw Man	3-7	43	18,834	7,425	06-003	. 68	66	•	345	319	-
	Images_and Things	4-7	149	3,371	21,244 4,860	26,907	669	720	917	886	957	1,184
	Let's Draw	1-3	20	32,286		.4,492	92	133	145	152	241	209
	Visions: Artist and the	1-5	20	JZ, ZOU	28,605	37,205	1,348	1,258	1,562	1,512	1,385	1,718
	Creative Process	11-12	167	1,820	1,711	_	31	31	•	88	83	_
		:					31					

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\$12	Series MUSIC	Grade Level	Series Rank	Total Ser 85-86	ies Usage 84-85	(Students) 83-84	Teach 85-86	ers <u>Usi</u> ng 84-85	Series 83-84	C1a: 85-86	sses Usin 84-85	g ITV 83-84
••	Experiences in Music, Drama and Dance	7-12	114	6,853	7,731	4,194	105	82	69	306	351	186
	Guitar Harmony Holiday Viewing/	4-12 2-3	18 <u>6</u> 126	411 5,749	207 4,461	384 4,562	14 127	. 9 90	14 137	_22 253	12 216	-20 222
	Christmas Specials	1-12	<b>i</b>	95,622	72,602	90,002	2,943	2,055	2,758	4,504	3,352	4,071
	It's_Mainly_Music Music:and Me	4-6	154	2,996	7	_ <u>-</u>	41	•	_	126	<u> </u>	-
	Music and me Musical Encounter	1-6 3-6	104 178	7,736	11,047	7,729	114	155	147	334	500	336
	Time for Sounds IV	3-0 4-5	153	1,134 3,035	- 4 500	A 54A	27	- 73		50	<b>1</b>	104
	Time for Sounds V	5-6	161		4,599	2,542	68		71	149	212	
	Time for Sounds 4	5-0	101	2,399	5,874	2,964	50	63	58	104	256	128
	PHYSICAL EDUCATION, HEALTH AND SAFETY						-	_				
	Calling all Safety Scouts	1-3	82	11,062	4,016	<b>.</b>	469	197	=	• 532	208	_
	Conrad	6-9	110	7.354	9.360	8.114	191	202 -	200	336	408	348
	Growing_Up	5-8	116	-6,579	8.229	5,590	117	-76	65	277	313	191
	High_Feather	4-8	54	15,969	14,649	10,611	521	423	353	752	664	450
	Inside/Out	4-7	53	16,040	14,790	18,036	629	519	678	781	696	822
128-	The Inside Story With				-	-	_		- · <del>-</del>			
T	_S11m_Goodbody	3-5	25	29,233	24,701	26,842	1,138	936	1,038	1.355	1.138	1.187
	It's Your Move	1-6	146	3,841	5,234	4,215	152	161	156	189	251	192
	Leaps and Bounds	K-2	140	4,780	4,542	_ =	111	109	#11	234	216	<b>=</b>
	Mulligan Stew	4-7	138	4,926	5,303	6,262	138	173	214	235	252	277
	On The Level	8-12	88	10,122	10,969	10,297	182	172	149	467	496	428
	Ounce of Prevention Powerhouse	4-6	179	1,121			. 25	=	•	57		
	The Right Way	5-8	29	26,336	23,128	19,765	691	511	435	1,249	1,066	823
	School_Bus_Safety	9-12 K-12	109	_7,368	_9,879	- <b>7</b> - 405	134	148	110	411	511	397
	Self Incorporated	5-8	28 - 85	26,521	26,729	27,202	966	917	901	1,234	1,239	1,210
	Soup To Nuts	3-6 4-8	115	10,543 6,596	15,243 5,661	11,805	300 138	280	287	532	665	532
	Well, Well	1-3	160	2.494	2,001	5 <b>,</b> 783	115	102	132	337 123	254	255
	VOCATIONAL EDUCATION	1-5	100	2,434	_	-	115	•	-	123	-	- 
	Bread and Rutterflies	4-7	135	5,048	8,465	6,815	145	201	100	040	200	
	Career Counseling	9-12	145	4,030	6,537	6.088	94	118	188 124	249 226	382 329	326
	Freestyle	3-6	164	2,281	2,699	3,493	- 83	- 90	117	110	329 124	292 162
	Making It Work	9-12	103	7.853	8,217	5,074	170	147	93	426	400	234
	Principles of Technology	10-12	184	460	_ e	5,074	10	=.	_ 33	24	-	
	Spaces	-5 <del>-</del> 8	181	- <b>751</b>	1.355	. <u>-</u>	14	19	Ξ	33	57	=
1	Workshop Hints	8-12	158	2,641	3,192	3,213	46	41	51	134	167	172
ri Salt v	•				-,		••			201	10,	1,4
3.7			3.41			32						
MARKET.	grant to the engine of the engineering of the engin	<u> </u>		<u> </u>	<del> </del>							<u>-</u>

ERIC Full Text Provided by ERIC

Series ENVIRONMENTAL STUDIES	Grade Level	Series Rank	Total Ser 85-86	ies Usage 84-85	(Students) 83-84	Teache 85-86	ers Using 84-85	Series 83-84	C1 as 85-86	ses Using 84-85	1TV 83-84
Environmental Studies Pass It Along S. C. Naturescene	9-12 4-5 6-10	134 183 35	5,088 584 23,704	5,583 17,512	3,737 20,028	68 18 513	79 423	57 - 386	209 26 1,022	232	146
COMPUTER ASSISTED INSTRUCTION Computerbreak Don't Bother Me, I'm Learning Fast Forward I Fast Forward II Improving Economic Reasoning Solutions Unlimited	4-8 1-6 9-12 9-12 9-12 6-8	125 170 159 169 190 185	5,853 1,650 2,569 1,707 180 440	1,932 1,595 -	- 963 654 -	112 29 56 35 1 2	- 49 35	22 _16	271 73 135 89 6	- 103 87 -	42 32
STAFF DEVELOPMENT USED WITH STUD Anti-smoking Basic Reference Books: Taming	ENTS	141	4,594	2,437	3,053	ē3	81	ā: 45	209	113	118
the Wild Bull Card_Catalog Library_Research Phillips Insight		174 175 177 189	1,429 1,387 1,144	300 982 -	2,080	21 22 15	5 8 -	 10 	73 72 4 <u>9</u>	13 42 -	- 80 -





# Comparison of ITV Utilization

for

Dpen, Closed Circuit and District Distribution Centers

Schools served by the 14 District Distribution Centers and by tape furnished by the ETV Center grew more in utilization this year than did schools served by closed circuit alone.

# Closed Circuit Schools and ITFS

Accounting "ronly 31% of the schools in the state (345 of 1,111 schools) closed incuit and ITFS-served schools had 41% of the total ITS series usage; 43% of the individual students viewing ITV; and 37% of the using teachers:

# District Distribution Center Schools

While the schools serviced by district distribution centers comprised 19% of the schools using ITV, they accounted for 25% of the total ITV series usage, for 26% of the individual students viewing ITV and for 24% of the using teachers.

The district distribution centers, or taping centers, continued to provide an extremely efficient and economical service receiving very strong budgetary and administrative support from school superintendents having responsibility for them.

# ETV Taping Center Schools

The following table provides a comparison of the changes in utilization between open and closed circuit schools; district distribution centers and the ETV taping center schools:

#### UTILIZATION TRENDS

ITV

#### A. UTILIZATION

# 1. Utilization growth

Utilization\_grew\_for 1985-86 due\_to\_a combination\_of\_key factors...These included the addition\_of\_19\_new series; substantial increases in the installation of\_new\_building distribution systems\_and purchase of videotape machines and the support supplied to teachers by building coordinators and utilization consultants. Utilization growth should continue for 1986-87 as the ITV series inventory is updated, ITFS is fully utilized and a substantial number of new building distribution systems are installed.

The subject area having the highest series usage was Language Arts with 31 percent of the total followed by Social Studies with 26 percent:

# B. RECEPTION

Information on television equipment located in schools but not used directly with students for instruction was collected from the annual Basic Education Data System (BEDS) TV and Computer Equipment Inventory.

#### 1. Instructional Use - TV Sets

Of the total of 15,559 TV sets in our schools, 13,737 were reported used by students in classrooms or libraries for viewing ITV resources.

### 2. Instructional Use -- VTR/VCRs

There was a total of 2,175 VTR/VCRs in our schools of which 1,842 were used for taping/playback of ITV programs.

#### 3. TV Sets

Sixty percent of the TV sets are color and 94 percent of the schools now have color sets. A total of 16,496 teachers used 15,559 TV sets, 937 fewer TV sets than teachers. Actually, there were far fewer TV sets available since many sets were used for taping/playback of ITV programs with VTRs.

# Quantity of Sets

	<u>85-86</u>	84-85	<u>83-84</u>
Total Number of TV Sets	15,559	14,510	14,049
Amount.of.Change	+1.049	+461	+401
- Percent Change	+7.23%	+3.28%	+2.94%
Number of Schools-W/TV Sets	1.093	1-089- 97-23%	1-070- 95.2%
Percent Schools	98%	97.23%	95.2%
Number of Schools-w/Color TVs	1,049	1008	943
Percent Schools	94%	_ 90%	83.90%
Number of Districts with TVs	91	35 <sup>91</sup>	91



# COLOR STATUS OF TV SETS

	ŤÖŤÄL	NUMBER	% B & W/CO ALL TELEVI	LOR OF SION SETS
	1985-86	1984-85	1985-B6	1984-85
Black/white Color	6,278 9,281	6,892 7,618	40.35% 59.65%	47.50% 52.50%
Totals	15,559	14,510	100.00%	100.00%

# 4. <u>VTRs</u>

School districts, individual schools and PTA/PTO-units continue to provide VTRs to improve local scheduling of ITV programs. An additional 387 VTRs were purchased, a 22% increase in VTR availability over the previous year. Most VTRs, 97%, are of the color cassette type.

# QUANTITY OF VTRS

- market		-	
	1985-86	1984-85	1983-84
Total_Number VTRs_	2,175	1,788	1,461
Amount of Change	+387	+327	+192
PercentChange	+21.64%	+22.38%	+15.13%
Number of Schools w/VTRs	986	920	832
No. of Schools W/Color VTRs	88.51% 957	82.14% 900	74.02%
Percent Schools	8 <b>5.</b> 91%	80.36%	71.17%
No. of Districts w/VTRs	91	91	91

TYPES OF VTRS	NUMBER	PERCENT
3/4 - inch cassette	385 827 925 38	17.70% 38.02% 42.53% 1.75%
	2,175	100.00%



#### STAFF DEVELOPMENT

A complete listing of program descriptions and broadcast schedules was included as a section of the annual ITV Radio Resources Book.

A diversified program of staff development offerings was broadcast over ETV open and closed circuit from 3:00-4:30 p.m. and over the \_\_\_\_ Educational Radio Network from 3:00-4:00 p.m. daily for use as credit courses, resources for district certificate-renewal point plans, and for professional development on a non-credit basis. This program consisted of 50 ITV and Radio series and 71 single program specials comprising a total of 531 programs. Programs were available to school administrators, district curriculum staff, teachers, teacher aides, and building custodial workers in 36 major areas. Educators took advantage of four staff development credit courses for 1985-86.

	ators <u>Receiving</u> cate-Renewal Credit		
I. Credit Courses	1985-86	1984-85	1983-84
Getting The Message	28	9	30
interaction	-	31	73
Mathematics for Modern Living		-	6
Science in the Elementary School: Physical Science	<del></del> .	18	28
Total	28	58	137
II. Staff Development Resources Used by Yeachers			
<ol> <li>Total Series and Programs Usage</li> </ol>	<u>1985-86</u>	1984-85	1983-84
ĪĪV:	8,728	2,377	2,925
ĪR:	860	143	468
2) Individual Teachers Using Staff Development			
ITV: IR:	6,028 312	1,274 94	1,778 297



## III. Utilization of Selected Series and Programs Was As Follows:

ITV	1985-86	1984-85	1983-84
Copyright Issues	5.052		
EIA School Improvement Council	722		
Improving Test Scores	442	115	127
Welcome Back to School	400		
Library Skills for Students	179	•	
Library Media Utilization	174		
ITV and Radio Utilization	163	113	103
The Art of Storytelling	138	129	110
Food Services	131	85	
Tips for Teaching	120	= 4	<b></b> =
Steve Glenn Speaks to Parents	86	81	78
Upclose: Teenage Pregnancy Computer Education/New Technology	8 <u>5</u> 75	g <b>4</b>	
ĬŘ			
An Invitation to Learn/Succeed	145		
Go Ahead and Teach, You Don't Bother Me None	125		
Motivating Students	123		
They're Demanding Quality			
Education	83		
Gifted_Children	43		
Self.Concepts	38		
Believing in Children	36		

## EDUCATIONAL CONFERENCES/WORKSHOPS

Joher Incendent 2 Summer Conterence: Myrtle Boach	SENTATION	DISPLAY
EILE AIGM 25 FORIS		
New Guidance Counselors Workshop, Columbia SCEA Leadership Conference	X	
PORTRAIT OF America Conference		X
State Science Conference		×
Annual Convention of S. C. Library Assn., Charleston		 X
SECA Conference, Little Rock, Ark. Time Management Seminar	X	
AECT Convention, Las Vegas, Nev.		
GOVERNOR'S Conference on Education Columbia		X
Stress-Management Workshop, Florence		
3. C. ALCI CONVENTION COmputer Presentations-		
SRMLC Conference, Florida		
S. C. Assn. School Librarians, Charleston		
JOLA CONVENTION # 110 STATE NACETAGRAGE AND ROLL C. F.		
TO THE TENED OF THE PERSON SERVICES WITH LIGHT WITH LIGHT WAS A SERVICED OF THE PERSON WAS A SERVICED O	ware	
COMPULER COnference, University of Coords		
Seminar_on Leadership lechniques Charleston		
Coker College Community Semminar  IV and Your Child, Florence #1	X	
Second National ITV Utilization Concerns Chamless.	X	
TIPS DISCRIBULION CENTERS' Conformed	1	•
S. C. Leadership Academy Writing Conference		
COMPUTER		
Taught Introduction to Computers Course, Rock Hill		
milicurup aki computer conree .	x	
WOFIG COMPUTING CANTERBARE NAMERALE	 X	
ACOLU Talulud-Network System Columbia	^	
Stare Department of Education Curriculum Conforces		
Computer Courses Presentation SEED Project Evaluation Training Workshop	_	x
MACINIOSI I FAINING	x	
AIT Consortium Meeting on Income/Outsamot Mambia		
TON EXECUTIVE CONTENENCE: CAINMETA		
JEED GEGIGIA WORKSHOD		
State Social Studies Conference, Columbia State SEED Evaluators' Workshop, Columbia	x	
	x	
* 3. 0. Spartanoury Microcomputer School project	X	
	^	
Videodisc. Workshop, S. C. ETV		
SEED Synthesis Workshop, Atlanta Sixth Annual Florida Computing Confession		
Sixth Annual Florida Computing Conference, Orlando, Flo S. C. AECT Convention Computer Presentations		
.3. U. ACUI Pre-Convention Warkshan as ramented neimber	0.0	
	"9	
SECA_Convention ITY Staff Development and BSAP Digicard Networking Workshop		
Tandy_Workshop on Starboard IBM-Compatable Board_		
MACTONAL ILE OCTILIZACION CONTEPENCO Charloctan	Χ	· x
Apple Computer Spreadsheet Workshop Casclo Disk Drive Workshop		
= =		
-33 <b>-</b> 0.0		

Dther Computer Related Activities:

Reviewed Proposals for Computer Literacy and Applications
Certificate Renewal Courses (Green, Reese, Teal)
Reviewed Grant Applications for Critical Teaching Needs Computer
Courses (Reese)
Field Testing of AIT Economics Reasoning Computer Project at Dreher
High School (Reese, Jenetta Scott)
Pathways Project Committee Representation (Armstrong)
Operated BSAP Computer Software Lab at S. C. ETV (155 Visitors)
BSAP Language Arts, Math, Science Software Advisory Committees
(Green, Teal, Reese)
Provided Recommendation to Office of General Education on Computer
Textbook Adoption (Reese, Committee) Oct. 14
Responded to Inquiries to Department for Deputy Superintendent,
Superintendent of Education (Green, Reese, Teal)
Developed Proposal for Giving All Instructional Technology Offices
Data Communications Capability (Reese)
Monitoring Computer Courses (Consultants)
Participated in SEED Project: Train the Trainers, Evaluators'
Training, SEED Evaluations and Synthesis (Green, Reese,
Consultants)
Contacts with Software Firms to Obtain Software (Teal, Reese)
Developed Recommendation for State Board on Teacher Course on
Computer Applications (Steele, Reese)
SCCCE Planning Meetings, Jan. 9

Meeting	Purpose	<u>Attendance</u>
District Distribution Centers Conference, West Columbia, May 29, 1986	To review year's future needs and	<b>43</b>

#### **TELECONFERENCES**

Teleconferences continue to be recognized by the Department as an innovative and economical means of facilitating meetings.
Teleconferences held during the past two years and projected for 1986-87 include:

Teleconference	1986-87	1985-86	1984-85
All The Difference	1	-	-
Math BSAP	1	=	-
Computer Software	-	-	j
Copyright Issues, Policies and Implications	-	i	-
Food Services	-		i
Law Related Education	4	=	-
Update: Music Education	<u>4</u>	<u>4</u>	<u>4</u>
Totals	1 Ö	5	<u> </u>
	-36-		

#### STATEWIOE COMPUTER SURVEY RESULTS

#### Introduction

The April 1986 Computer Survey was the third statewide assessment of computer use by schools and districts by the Department of Education. A comparison of data from 1983-1986 is provided where available to give evidence of trends in the acquisition and use of computer technology.

#### Survey Design

The survey was conducted in two phases. In the first phase an inventory of computer equipment was taken as a component of the Statewide Basic Educational Data System (BEOS) during September; 1985. In the second phase a questionnaire dealing with information on instructional and administrative uses of computers; funding and software inventory for the 1985-86 school year was completed during April, 1986. All 1,114 schools and 94\* school district offices were sent survey forms. -

For the September 1985 equipment survey, the response rate for school district offices was 93 returned forms; or 99 percent; and for schools 1,114 forms returned; or 100 percent. For the April 1986 computer usage survey; the response rate for school district offices was 93 returned forms; or 99 percent; and for schools 1,028 forms returned; or 92 percent.

#### Sürvey Results

RW 4

I. September 1985 Computer Equipment Inventory Survey

Data on computer equipment in schools and district offices having either instructional or administrative uses was collected from the annual Basic Educational Data Systems (BEDS) TV and Computer equipment Inventory.

1. Instructional and Administrative Use

Of the total of 14,959 computers in schools 95 percent in secondary schools were used for instruction and 5 percent for administration. For elementary schools 94 percent were used for instruction and 6 percent for administration.

2. Computer Hardware Availability in Schools

Quantity of Computers

	1985	<u>1984</u>	<u>1983</u>
Total Number of Computers	14,959	6,400	4,054
Amount of Change	B,559	2,346	
Percent of Change	134%	58%	
Number of Schools With Computers	1,062_	911_	749
Percent of Schools	95%	81%	67%
Number of Oistricts With Computers	93_	92 _	81_
Percent of Oistricts	99%	98%	88%

<sup>\*</sup>Includes Department of Youth Services and Palmetto Unified School "District".





#### 3. Change in Computers in Schools by Brand

Brand	1985	1984	198
Āpplē	8,681	3,290	1,83
Radio Shack	1,817	1,218	90
IBM .	1,367	247	11
Commodore	852	561	34
Texas Instruments	602	575	48
WICAT	424		
Computer Curriculum Corporation	328	275	9
Atari	273	240	17
Others	<u>615</u>	269	<u> </u>
	17 A - 050	<u>6-400</u>	<u> </u>

# 4. Computer Hardware Availability in District Offices

Brand	1985	1984	198
Apple	292	<b>4</b> 5	17
IBM	232	59	
Radio Shack	48	5 <u>9</u> 39	<b>2</b> (
Commodore	16	ĝ	-1
Zenith	13		
Sperry	11		
NCR	10	3	4
Barroaghs	9	4	
Digital	5		4
Texas Instruments		5	21
Others	20	24	- <u>i</u>

#### 5. Change in Computers in Schools By Use

	1985	1984	<u> Percent</u> <u>Change</u>
Total Computers	14,959	6,400	+133.73%
CAI/CMI	14,122	5,990	+135.76%
Administration	- 890	469	+ 89.77%
Printers	3,875	1,658	+133.72%

Ratio of Computers to Students: 1:40

# 6. Change in Computers in District Offices By Use

	1985	1984	Percent <u>Change</u>
Total Computers	556	234	+180.34%
CAI/CMI	163	71	+129.58%
Administration	516	150	+244.00%
Printers	520	174	+198.85%

## 7. Instructional and Administrative Uses of School Computers

		Instruct Use (CAI/C		Administ Us		Pri <u>nt</u>	e <u>rs</u>
School Level	Total Computers	Quantity	% of Total	Quantity	%_of Total	Quantity	%_of Total
Elementary	7,575	7,131	94.1%	488	6.4%	1,581	41.0%
Secondary	7,384	6,991	94.7%	402	5.4%	2,294	59.2%
Total	14,959	14,121	94.4%	890	5.9%	3,875	100.0%
8. Namb	er of Compu -Number Compute 1985 19	% of cs Compi	Total uters 1983	With Co	Schools mputers 1983	Ratio Comput to Sci 1985	ters
Elementary	7,575 1,	928 50.69	47.6%	761		10.0/ School	<u>-</u> -
Secondary	7,384 2,	122 49.45	52.4%	<u>301</u>		24.5/	
Total	14,959 4,	050		1,062	749	.14.1/ School	5.4/ School
Percent o	f Schools w	ith Comput	ters:	95-3%	66.6%		

#### 9. Frequency of K-12 Schools per Number of Computers

	Mumba	of Col	0001c W4+	ĥ
Number of Computers	Indicated	Number	hools_Wit of_Compu	tore
Per School	1985	1984	1983	6613
Fel School		1304	1905	
ī	177	333	189	
$\bar{2}$	104	154	120	
3	90	75	73	
2 3 4 5 6 7 8 9	76	70	61	
Ś	61	44	51	
6	61 61 52 47 39	31 36	51 36 42 21 16	
Ž	52	36	42	
8	47	20	2 <u>1</u>	
_ <b>9</b>	39	17	16	
10	44	23	28	
11	40	18	19	
12 13	29	18	19 7	
13	20	8	7	
14 15 16 17 18	20 26 24 22 17	11	8	
<u> 15</u>	26	9	13	
16	24	5	9	
17	22	9	5	
18	17	11 9 5 9 6 7	8 13 5 5 3 -3 -21	/
19	21 -83	- 4	3	
20 21+	51	13	- 3 2 1	
21+	_03			
Total Computers	1,062	911	749	
••••	-39	- A	2	
		<b>4</b>	ð	

Number of Schools	1985	1984	1983
Having 1 to 2 Computers:	282	487	309
Number_of Schools With 10 or More Computers:	311	131	140

II. 1985-86 Instructional and Administrative Uses, Software and Funding Survey taken April 1986:

#### District Computer Survey

- A. Instructional Use of Computers
  - O Technologies Used for Instruction Within the School
    District:
    Sixty-one school districts reported using microcomputers.
    Two reported the use of robotics and six reported the use of videodiscs for instruction by their schools.
  - O Computers Used for Instruction of Students:
    Thirty school districts reported using district office computers for K-12 instructional purposes.
  - O Computers Used for Staff Development of Educators:
    Thirty-four or 32 percent of the school districts reported using district office computers for staff development of educators.
  - New Computer Equipment Purchases:
    Forty-four school districts plan to buy additional computer equipment for instruction for the 1986-87 school year.
- B. Administrative Use of Computers
  - The top five administrative applications of computers by school districts were: student attendance (25); inventory (18), grade reporting (15); scheduling (15), and internal accounts (15).
  - Eighty-two school districts reported using computers for administration.
  - Eight school districts will make their initial purchases of computers for administrative purposes in 1986-87;
- C. Instructional and Administrative Computer Purchases

School district offices estimated that their districts spent a total of \$4,352,486 for hardware and \$999,270 for software in 1985-86 as given by the table below:

#### 1985-86 Expenditures

<u>Uses</u>	Hardware	Software
Administrative Instructional	\$2,085,035 2,267,451	\$432,874 566,396
Total	\$4,352,486 \$5,35	\$999,270 1,756

-40-44



#### School Computer Survey

#### A. Instructional Use of Computers

- o Technologies Used for Instruction of Students Within Schools:
  Nine hundred eighty one schools reporting using microcomputers,
  26 using robotics, and 79 schools report the use of videodiscs.
  This is probably the first indication of the extent to which videodisc machines are placed in schools for instruction, ie. in 79 schools.
- New Computer Equipment Purchases:
  Six hundred three schools report planning to buy new computers by 1986-87. New equipment purchases will be the initial purchases of computers for 49 schools.
- Number of faculty members considered to be computer literate to the extent they can use computers for instruction or for management of instruction was 13,497 or approximately 36 percent of total faculty in schools compared to 25 percent last year.
- Needs affecting the initiating or improving of the instructional use of computers in schools are, in priority order, (1) (insuring) effective instructional use, (2) identifying suitable courseware and, (3) (awareness of or instruction on) maintenance tips.
- The top ten studies or subjects and the number of schools in which computers were used for instruction was math 878, computer literacy 585, english 578, others 505, word processing 398, science 393, social studies 381, data processing 204, computer science 159, and music 112. In 1986 math, computer literacy, and english (or language arts) were the top three subject areas for which computers were used.
- O Locations of Computers in Schools:
  The top three locations in schools for placement of microcomputers are (1) libraries/media centers, (2) regular classrooms, and (3) moved to classrooms as needed.
- o Percent of Students Who Used Computers for Instruction: In 79 percent of the schools at least ten percent of the students have used computers for instructional purposes. In only 388 schools does at least half the student body use computers for instruction.
- O Use of State Department of Education Math and Language Arts
  Software BSAP Correlation Publication as Purchase Information
  Source: This listing continues to be a valued source for reference in software purchase decisions with 58 percent of respondents indicating use of it.



o <u>instructional Software Used by Schools</u>
The top ten instructional software programs in South
Carolina in terms of the number of schools having a given
title are:

	Program Title	No. of Schools	<u>Publisher</u>
1. 2. 3.	Elementary Volume 5-Reading	320	MECC
2.	<u>Bank Street Wri</u> ter	298	Scholastic, Inc
3.	Spelling_Volume_1_	297	MECC
4.	Growgin's Fractions	285	MECC
5.	Word Wizzards	279	MECC
6.	Problem Solving Strategies	279	MECC
7:	The_Print.Shop	277	Broderbund
8.	Early Addition	271	MECC
9.	Elementary Volume 7-Reading	267	MĒČĊ
10.	Adventures With Fractions	264	MECC

It is\_readily\_apparent\_that\_MECC.is the predominant source of instructional software for our schools.

## B. Administrative Use of Computers

Five hundred forty-nine schools or 53 percent of 1,028 responding schools reported using computers for administration.

#### ITV AND RADIO AWARENESS

The Office continued an active informational program with the assistance of SC ETV for educators and the general public. Highlights of this effort included:

#### A. Newsletters

Issue of four Instructional Technology Newsletters featuring articles of interest to educators on resources, examples of educational practices with their use, and information about newsworthy events and credit courses offered.

#### B. Update: Department Report

These 9 monthly television programs featured various offices of the Department of Education with announcements of current interest to educators. Programs were also rebroadcast over Educational Radio.

#### C. Office Displays

- A display was exhibited at five educational conferences.

#### D. American Education Week

A program relating to instructional television and radio nationally and statewide was scheduled on SC ETV's "Open tine" at 7:30 p.m. during American Education Week.



#### PLANS FOR 1986-87

to

#### EXPAND AND IMPROVE UTILIZATION AND RECEPTION

#### 1. Utilization

In addition to projected in-services and other consultant services, the following activities are planned to improve the quality and quantity of ITV/Radio usage:

A. Staff Development Programming:

For Teachers - Previews of ITV/Radio Resources are provided during August and May. Special programs on general utilization techniques and of individual series are scheduled throughout the year.

For Building Coordinators - The following special Programs designed for their particular needs are scheduled:

Role of the Building Coordinator 9/2/86, 2/11/87

VTR/VCR.Scheduling Techniques

8/21/86, 2/10/87 12/17/86

ITV Utilization Survey

3/31, 4/1/87

B. District Distribution Center Personnel:

The Tenth Annual Spring Conference will be given for these personnel to review curriculum needs on May 28, 1987. A conference to review technical issues is planned for fall, 1986.

#### 2. Staff Development

A total of 259 broadcast hours are planned, with 22 percent of these being new programming time. Three ITV/R series are new and 510 programs are scheduled in 48 series and 96 single program specials.

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The two tables below provide details on staff development resources.

# A. TOTAL HOURS OF STAFF DEVELOPMENT BROADCAST PROGRAMMING PROJECTED FOR 1986-87

	ITV	İR	TOTALS
Total Programs	434	7.6	510
Total New Programs	<b>- 63</b>	28	91
Total Hours	202	57	259
Total New Hours	36	27	58_
Percent New Hours	18%	38%	22%

#### B. TOTAL HOURS OF STAFF DEVELOPMENT NON-BROADCAST

#### (TAPE DELIVERY) PROCRAMMING PROJECTED

FOR

1985-86

177V IR

Total Programs 121 2

Total Series/courses 6 7

Total Hours 54 1.

# C. ITV AND RADIO STAFF DEVELOPMENT RESOURCES BROADCAST HISTORICAL TOTALS

SERIES:		* <u>1.986-87</u>	1985-86	1984-85	1933-84
Total Total Total Total	Programs Series New Series New Programs	414 48 3 52_	4 <u>60</u> 50 7 124.	436 48 .6 95	472 45 14 179
% New SINGLES:	Programs	12%	27%	22%	37.9%
Total Total % New	Programs New Programs Programs	96 49 51%	71 14 20%	69 14 20.3%	72 13 18.1%
TOTALS: Total Total % New	Programs New Programs Programs	510 91_ 18%	531 138 26%	505 109 22%	544 192 35.3%
"Proje	cted				

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## 3. NETWORK EXPANSION AND LOCAL RECEPTION IMPROVEMENTS PROJECTED FOR 1986-87

#### Installation of BDSs

ETV plans to install 35 BOSs during 1986-87.

#### Minor Projects Installations

....ETV plans to continue installing regular and portable classroom outlets on a cooperatively funded basis with school districts. Total installation projected to be done with moneys available to ETV after July 1, 1986 include:

202 portable outlets 27 VCR inputs 295 regular classroom outlets 13 open circuit antennas

#### ITFS - Replacement Network

The South Carolina\_ETV Network\_will have completed\_Phase I of construction of the ITFS Grades 7-12 closed circuit\_Replacement Network by the summer of 1985. All secondary schools previously on leased closed circuit facilities should be switched to the ITFS channels by the beginning of the 1986-87 school year.

The ITFS Replacement Network consists of fourteen local area transmitters (LATS) with tape and delay centers, serving secondary and vocational schools. Twelve wider area transmitters (WATS) with six repeaters provides two channels of instructional programming to secondary schools not served by the LATS during the day.

#### ITFS Reception for Schools Served by Tape and Delay Centers

Secondary schools served by the 14 tape and delay centers receive four ITFS channels of ITV programming. The program schedule is based on local teacher requests to each center. Each taping center has a complete library of secondary grades ITV programs, a partial library of the most heavily used staff development programs and access to special programs originating from S. C. ETV in Columbia, such as teleconferences.

#### ITFS Reception for Schools Served by Wide Area Transmitters (WATS)

These secondary schools are served by two ITFS channels with ITV programming originating from S. C. ETV in Columbia and scheduled in the annual ITV and Radio Resources Book.

#### Taping Centers now ITFS Operational (June 30, 1986)

- 1. Lexington 2 4. Richland 1 7. Georgetown 10. Lake City
- 2. Lexington 5 5. Charleston 8. Blackville 11. Florence
  - . Greenville 6. Greenwood 9. Spärtänburg 12. Sümter

Taping Centers to be Converted to ITFS 1986-87 (Beginning of New School Year)

13. Beaufort 14. Rock Hill 50



#### COMPUTER SOFTWARE EVALUATION PROJECT (SEED)

Subject area of the software titles to be evaluated will be expanded to grades K-12 and to six areas and include:

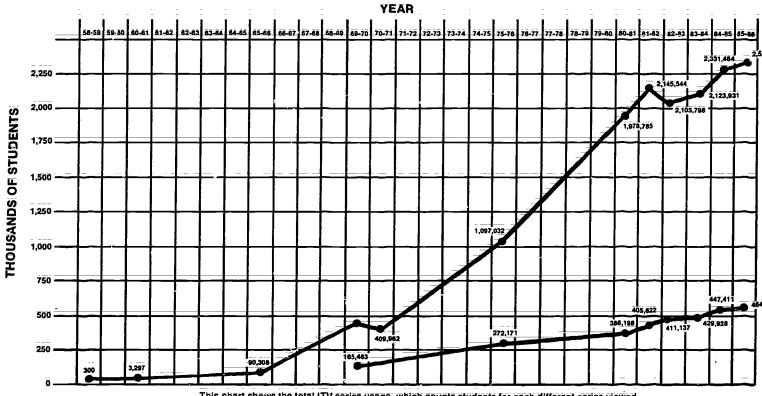
Mathematics\_\_ Language Arts Science\_\_ Cocial Studies

4:

Art/Music Vocational Education

Machine compatibility of titles for evaluation will also be expanded to include Apple, 18M and Tandy/Radio Shack.

# ITV UTILIZATION - 27 YEARS TOTAL ITV SERIES USAGE TOTAL INDIVIDUAL STUDENTS VIEWING



This chart shows the total ITV series usage, which counts students for each different series viewed and the number of i. dividual students viewing ITV. Individual students viewing ITV was not officially documented until 1969-70. For further information, contact the S.C. State Department of Education's Office of Instructional Technology, 206 Rutledge Building, Columbia, SC 29201.



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