

1992-1995 CUMULATIVE ACCOMPLISHMENT REPORT NORTH CAROLINA  
ENVIRONMENTAL EDUCATION

NC40 - ENVIRONMENTAL EDUCATION

A. OBJECTIVES

The North Carolina Cooperative Extension Service will conduct environmental education programs designed to create environmental awareness and enhance the development of an environmental ethic for adults and youth.

The North Carolina Cooperative Extension Service will serve as a catalyst to develop and deliver research-based environmental educational programs targeted to help private citizens solve environmental problems.

B. NON-EXTENSION RESOURCES

1. number of volunteers	235
2. total number of volunteer-days	195
3. value of federal government funding (grants)	\$ _____
4. value of state government funding (grants)	\$ _____
5. value of local government funding (grants)	\$ _____
6. value of private funding (grants)	\$ 13,500

C. TEMPLATE INDICATORS AND ACCOMPLISHMENTS

1. Indicate whether strategic plan is developed.  
YES. The Tribe at the Cherokee Indian Reservation has developed a strategic plan
2. Describe programs and materials disseminated.
  - Farm City events with 300 participants.
  - 5 newspaper articles reaching 20,000 citizens.
  - Trickle irrigation for efficient water management and yard waste composting.
  - Composting
  - Water Quality protection
  - Septage Management
  - Land Application of Bi-residuals
  - Gypsy Moth eradication

- Recycling
- Reservation clean-up
- recycling for the children
- Collaborative work with Forest Service Smoky Mtn. National Park, ASCS, NRCS, wildlife officers and lay leader on endangered species programs

3. Number of persons with increased awareness of public policy issues related to environmental education. 397,857
4. Number of persons with increased participation in public policy issues. 442,105
5. Number adopting practices. 1,323,355
6. Number of practices adopted. 52,748

D. Other indicators and accomplishments

10 TV shows - viewing audience of 184,000

See reports NC 02, 08, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23, 25, 33, and 36

E. NARRATIVE AND IMPLICATIONS (optional; include program accomplishments or impacts not described in Items C and D).

Almost 400,000 individuals and families increased their awareness of public policy issues related to environmental action and 442,000 increased their participation in public policy. Major issues addressed include drinking water quality, nonpoint source pollution, residential and municipal solid waste management, animal waste management, outdoor air quality, radon and indoor air quality, and natural resource management. Targeted programs included limited resource citizens, the Cherokee Indian Reservation, schools and many local communities and municipalities. Emphasis has been placed on public issues education and conflict resolution through agent training and the use of interdisciplinary teams to address specific conflicts. Networking has occurred with state and federal agencies, schools, non-governmental organizations and the private sector. Volunteers have played a key role in the delivery of programs, particularly to youth audiences.

F. COORDINATOR AND TEAM MEMBERS: Joe Zublena

# Gopher Menu

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NC40.brunswic

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NC40.caswell

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NC40.cherresv

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NC40.clevelan

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NC40.guilford

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NC40.jones

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NC40.richmond

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NC40.swain

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NC40.wayne

Wayne

NC40 - Environmental Education

A. Objectives

300 crop, livestock, and poultry producers will become in programs to promote their respective agribusiness industries

25,000 citizens will evaluate and better understand the economic, health, and aesthetic impact of crop and live production

25,000 citizens will evaluate their home surroundings, them relative to environmental health, and 50% will mak appropriate changes

500 citizens will improve their financial management sk

B. Non-extension resources

- |   |        |
|---|--------|
| 1. number of volunteers                         | __196  |
| 2. total number of volunteer-days               | __154  |
| 3. value of federal government funding (grants) | \$____ |
| 4. value of state government funding (grants)   | \$____ |
| 5. value of local government funding (grants)   | \$____ |
| 6. value of private funding (grants)            | \$_2,2 |

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed. No
2. Describe programs and materials disseminated.

Farm City events with 300 participants.  
5 newspaper articles reaching 20,000 citizens.  
Trickle irrigation for efficient water management and  
yard waste composting.  
YFO workshops and Ruritan Club presentations.

3. Number of persons with increased awareness of public po  
issues related to environmental education. 7,000
4. Number of persons with increased participation in publi  
policy issues. \_666\_
5. Number adopting practices. \_\_-\_\_
6. Number of practices adopted. \_\_-\_\_

D. Other indicators and accomplishments

1991-92

Through Master Gardener Training, a major yardwaste com  
project has been implemented reaching over 4,000 base  
personnel at Seymour Johnson Air Force Base, with >3,00  
yds. being composted.

11 Master Gardeners learned the basics of Master Compos  
training and Master Comosters conducted 4 demonstration

>125 citizens learned about composting through 1 meetin  
City Council and 4 presentations to civic and service c

>2,500 citizens became aware of yardwaste composting th  
7 news article and feature news columns in addition to  
program.

Approximately 150 citizens implemented backyard compost  
systems.

>1,500 citizens received folders on yardwaste compostin

30 volunteers installed the Yardwaste Compost Demonstra  
(1,000 volunteer hours).

24 E.H. Environmental Issues Chairmen and 24 E.H. Other Chairmen developed expertise in the following areas:

- "Composting - How, When, Where, & Why"
- "Cleaner Cleaners"
- "Recycled Decorations"
- "Effective Recycling"
- "Propagation of Houseplants"

They in turn taught approximately 2,200 others.

124 young adults and teens developed environmental-rela skills in three subject areas:

- "What & How to Recycle"
- Furniture Refinishing
- Make Your Own Cleaners

1992-93

13 Master Gardeners increased knowledge of pesticide sa and public policy associated with pesticides - 1 semina

1993-94

Area Environmental Landscape Workshop with total partic of 260.

- E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and

Through regular, weekly newspaper columns, CES agents a 20,000 citizens in understanding food production, environmental quality relationships as impacted by publ policy.

Homemakers learned conservation and maintenance of reso such as energy, yards (landscaping), furnishings, cloth health through programs, training schools, exhibits and

Through 4 major Farm-City events with media coverage an participants, citizens learned the impact of environmen concerns on area agribusinesses.

Through interaction between Chamber of Commerce board a 17 board members better understand agricultural-envIRON

interactions.

F. Coordinator and Team Members: \_\_\_\_\_ E. D. Raper \_\_\_\_\_  
\_\_\_\_\_ R.H. Pleasants \_\_\_\_\_  
\_\_\_\_\_ M. B. Parker \_\_\_\_\_  
\_\_\_\_\_ J. Parsons \_\_\_\_\_  
\_\_\_\_\_ M. E. Regans \_\_\_\_\_  
\_\_\_\_\_ C. W. Smith \_\_\_\_\_  
\_\_\_\_\_ H. F. Scott \_\_\_\_\_  
\_\_\_\_\_ B. C. Page \_\_\_\_\_  
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Success Story

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NC40 - Environmental Education

A. Objectives

B. Non-extension resources

1. number of volunteers \_\_\_\_\_
2. total number of volunteer-days \_\_\_\_\_
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$\_\_\_\_\_

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed.
2. Describe programs and materials disseminated.  
Composting, Water Quality, Septage Management, Land  
Application of Bi-residuals, Gypsy Moth
3. Number of persons with increased awareness of public policy  
issues related to environmental education. 2,100
4. Number of persons with increased participation in public  
policy issues. 2,100
5. Number adopting practices. 170
6. Number of practices adopted. 45



D. Other indicators and accomplishments

E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and

F. Coordinator and Team Members: Milton Coleman  
David Nash  
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Success Story

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NC40 - Environmental Education

A. Objectives

1. To develop a Strategic Plan for Caswell County.
2. To make Caswell County citizens more aware of publ  
policy issues as they relate to environmental issu

B. Non-extension resources

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|---|----|
| 1. number of volunteers                         | 9  |
| 2. total number of volunteer-days               | 4  |
| 3. value of federal government funding (grants) | \$ |
| 4. value of state government funding (grants)   | \$ |
| 5. value of local government funding (grants)   | \$ |
| 6. value of private funding (grants)            | \$ |

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed.
2. Describe programs and materials disseminated.
3. Number of persons with increased awareness of public po  
issues related to environmental education. 875
4. Number of persons with increased participation in publi  
policy issues. 270
5. Number adopting practices. 2,500
6. Number of practices adopted. 24

D. Other indicators and accomplishments

- E. Narrative and implications (optional; include program  
accomplishments or impacts not described in Items C and

- F. Coordinator and Team Members: Larry N. Whitt  
Johnnie M. Henderson

Donna P. Pointer  
J. Rickey Williams

Success Story  
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NC40 - Environmental Education

A. Objectives

- 118) 200 adults and youth will gain knowledge and skills on how to reduce water use and improve water quality in the home. 500 youth and 50 adults each year will practice source reduction after receiving educational materials instructions on keeping the air clean, improving water quality and reducing solid waste by recycling.  
60 Extension Homemakers, volunteers and teachers will gain knowledge on environmental education. They will adopt methods of teaching after attending the 3-R's Environmental Education Workshop.
- 120) 200 youth and adults will gain knowledge and skills on reduce water use and improve water quality in the home. 500 youth will practice source reduction after receiving educational material and instruction on keeping the air clean and reducing solid waste by recycling and compost. 200 youth will participate in various community wide clean up projects for promotion of a litter free environment. 100 youth will participate in environmental preservation beautification of natural resources including the national forests.  
50 youth will donate community service in an attempt to promote environmental stewardship.  
200 youth will gain knowledge of air quality and energy conservation.  
200 youth will learn about plant, fish and wildlife preservation.
- 123) 200 adults and youth will gain knowledge and skills on reduce water use and improve water quality in the home. 300 youth and 50 adults each year will practice source reduction after receiving educational materials and instructions on keeping the air clean, improving water and reducing solid waste by recycling.  
Each year ten community development clubs will organize and implement a community wide clean-up and beautification that will encourage all residents to help with a litter free environment and beautification around homes with landscaping flowers, etc.

B. Non-extension resources

1. number of volunteers \_\_\_\_\_12
2. total number of volunteer-days \_\_\_\_\_16
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$7,0

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed.  
Yes, the Tribe has developed a plan We have worked with Tribe and community clubs on recycling and waste management
2. Describe programs and materials disseminated.  
EPA, Recycling, Water Quality, Composting and Reservation Clean-up.
3. Number of persons with increased awareness of public policy issues related to environmental education. 5600
4. Number of persons with increased participation in public policy issues. 85
5. Number adopting practices. 9025
6. Number of practices adopted. 9

D. Other indicators and accomplishments

- E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and D)  
We have developed an outstanding recycling program. The Extension Office applied for a grant through EPA and received \$34,000 in 1991. Since that time we have employed a full-time recycling coordinator.

F. Coordinator and Team Members: \_\_\_\_\_ Stanley Holloway \_\_\_\_\_  
\_\_\_\_\_ Mary Jane Letts \_\_\_\_\_  
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#### Success Story

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In 1991 our Extension Office applies for an EPA Grant to hire Recycling Coordinator on the Cherokee Reservation. Each year since then, the grant has been re-newed. We now have a new

recycling building, collection trailers which are placed at various locations throughout the reservation and additional staff hired by the Tribe.

We have assisted in sponsoring two Environmental Management Conferences for Native Americans who work on Indian Reservations throughout the United States. Over 300 people attended each of those workshops.

*Cleveland*

NC40 - Environmental Education

A. Objectives

To increase awareness of public policy issues related to environmental education through meetings, newsletters, newspaper columns and interviews as opportunities arise

B. Non-extension resources

1. number of volunteers \_\_\_\_\_
2. total number of volunteer-days \_\_\_\_\_
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$\_\_\_\_\_

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed.
2. Describe programs and materials disseminated.
3. Number of persons with increased awareness of public policy issues related to environmental education. \_\_\_\_\_
4. Number of persons with increased participation in public policy issues. 155
5. Number adopting practices. 7
6. Number of practices adopted. 92



D. Other indicators and accomplishments

E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and

F. Coordinator and Team Members: \_\_\_\_\_  
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Success Story

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*Gulford Co*

NC40 - Environmental Education

- A. Objectives: Five hundred individuals to reduce, resu  
recycle 20% of their household waste.

One thousand individuals to participate in educational p  
on household hazardous waste, recycling and water quali

B. Non-extension resources

1. number of volunteers \_\_\_\_\_
2. total number of volunteer-days \_\_\_\_\_
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$\_\_\_\_\_

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed.
2. Describe programs and materials disseminated.
3. Number of persons with increased awareness of public po  
issues related to environmental education. 1,819
4. Number of persons with increased participation in publi  
policy issues. \_\_\_\_\_
5. Number adopting practices. \_250\_
6. Number of practices adopted. \_\_10\_\_

D. Other indicators and accomplishments

10 TV shows - viewing audience of 184,000

- E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and

Success Story

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NC40 - Environmental Education

A. Objectives: To educate and teach the community effective methods of re-cycling items within the schools and homes in effort to minimize on the amounts of waste in the community.

B. Non-extension resources

1. number of volunteers \_\_\_\_\_5
2. total number of volunteer-days \_\_\_\_\_20
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$\_\_\_\_\_

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed. Yes
2. Describe programs and materials disseminated. The progr involve sessions on re-cycling for the children in the County school system as well as placing signs and conta in the community to be used for recycling.
3. Number of persons with increased awareness of public po issues related to environmental education. \_2,020\_
4. Number of persons with increased participation in publi policy issues. \_65\_
5. Number adopting practices. \_5,005\_.

As a result of this program, 6 schools in the Jones Cou area are now and will continue to participate in the recycli

efforts of the county. As we teach the youth about recycling hopefully they will teach their parents.

## NC40 - Environmental Education

## A. Objectives

To establish a housing specialized committee to identify environmental related needs.

## B. Non-extension resources

1. number of volunteers \_\_\_\_\_13
2. total number of volunteer-days \_\_\_\_\_1
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$4.300

## C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed.
2. Describe programs and materials disseminated.
3. Number of persons with increased awareness of public policy issues related to environmental education. N/A
4. Number of persons with increased participation in public policy issues. N/A
5. Number adopting practices. N/A
6. Number of practices adopted. N/A



D. Other indicators and accomplishments

-Number of requests for environmental education.

E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and

Effective June 1, 1994 a 12 member Housing Specialized Commi was established to identify needs in the area of housing environmental education. The planning and environmental edu issues will be incorporated in the 1995-1999 four year plan work. It is proposed the Housing Specialized Committee will a key role in public policy issues on the environmental educ in 1995.

F. Coordinator and Team Members:

Deborah M. Crandall

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Success Story

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*Swaine*

NC40 - Environmental Education

A. Objectives

B. Non-extension resources

1. number of volunteers \_\_\_\_\_
2. total number of volunteer-days \_\_\_\_\_
3. value of federal government funding (grants) \$\_\_\_\_\_
4. value of state government funding (grants) \$\_\_\_\_\_
5. value of local government funding (grants) \$\_\_\_\_\_
6. value of private funding (grants) \$\_\_\_\_\_

C. Templated indicators and accomplishments

1. Indicate whether strategic plan is developed. No
2. Describe programs and materials disseminated. Callabor work with Forest Service Smoky Mtn. National Park, ASCS, SCS wildlife officers and lay leaders. In-service training for teachers: endangered species programs, recycling, composting general environment education.
3. Number of persons with increased awareness of public po issues related to environmental education. 65
4. Number of persons with increased participation in publi policy issues. 65
5. Number adopting practices. 325

6. Number of practices adopted. 51

D. Other indicators and accomplishments

E. Narrative and implications (optional; include program accomplishments or impacts not described in Items C and

F. Coordinator and Team Members:

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Success Story

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F. COORDINATOR AND TEAM MEMBERS: Joe Zublena

#### SUCCESS STORY

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As a result of a recycling program for the children in the Jones County school systems, 6 schools in the area are now and will continue to participate in the recycling efforts of the county. As we teach the youth about recycling, hopefully they will teach their parents.

- Recycling
- Reservation clean-up
- recycling for the children
- Collaborative work with Forest Service Smoky Mtn. National Park, ASCS, SCS, wildlife officers and lay leader on endangered species programs

3. Number of persons with increased awareness of public policy issues related to environmental education. 19,479 <sup>71,199</sup> <sup>140,000</sup> <sup>87,294</sup> <sup>298,323</sup> (397,857)
4. Number of persons with increased participation in public policy issues. 3,406 <sup>19,321</sup> <sup>36,258</sup> <sup>276,000</sup> (331,579) (442,105)
5. Number adopting practices. 17,282 <sup>482,464</sup> <sup>27,588</sup> <sup>482,464</sup> (1,32,3355)
6. Number of practices adopted. 248 <sup>1/19</sup> <sup>52,500</sup> <sup>52,748</sup>
- D. Other indicators and accomplishments

10 TV shows - viewing audience of 184,000

- E. NARRATIVE AND IMPLICATIONS (optional; include program accomplishments or impacts not described in Items C and D).

Our Extension Office at the Cherokee Indian reservation applied for an EPA Grant to hire a Recycling Coordinator. Each year since then, the grant has been renewed. We now have a new recycling building, collection trailers which are placed at various locations throughout the reservation and additional staff hired by the Tribe.

We have assisted in sponsoring two Environmental Management Conferences for Native Americans who work on Indian Reservation throughout the United States. Over 300 people attended each of those workshops.

Through Master Gardener Training, a major yard-waste composting project has been implemented reaching over 4,000 base personnel at Seymour Johnson Air Force Base, with >3,000 cu. yds. being composted.

Farm family members acquired knowledge on recycling and recycling of pesticide containers, pesticide use management and proper pesticide disposal. Farm family members recycled oil, bags, and other times. This program also introduced a "limited resource" community in Jones County to ideas on how to utilize and conserve on the resources that are available to them in the community.

1992-1995 CUMULATIVE ACCOMPLISHMENT REPORT NORTH CAROLINA  
ENVIRONMENTAL EDUCATION

NC40 - ENVIRONMENTAL EDUCATION

A. OBJECTIVES

The North Carolina Cooperative Extension Service will conduct environmental education programs designed to create environmental awareness and enhance the development of an environmental ethic for adults and youth.

The North Carolina Cooperative Extension Service will serve as a catalyst to develop and deliver research-based environmental educational programs targeted to help private citizens solve environmental problems.

B. NON-EXTENSION RESOURCES

1. number of volunteers	235	28,585
2. total number of volunteer-days	195	18,151
3. value of federal government funding (grants)	\$	1,095,690
4. value of state government funding (grants)	\$	
5. value of local government funding (grants)	\$	328,075
		195,900
6. value of private funding (grants)	\$	13,500
		254,775

C. TEMPLATE INDICATORS AND ACCOMPLISHMENTS

1. Indicate whether strategic plan is developed.  
YES. The Tribe at the Cherokee Indian Reservation has developed a strategic plan
2. Describe programs and materials disseminated.
  - Farm City events with 300 participants.
  - 5 newspaper articles reaching 20,000 citizens.
  - Trickle irrigation for efficient water management and yard waste composting.
  - Composting
  - Water Quality protection
  - Septage Management
  - Land Application of Bi-residuals
  - Gypsy Moth eradication