

1997

MID-YEAR

ACCOMPLISHMENT

REPORTS

SMP-01 - AGING WITH GUSTO!

Brief Program Description. The issues of aging cover a broad spectrum of topics and concern diverse audiences. The aging process is a continuum, beginning at birth and ending with death. It is a relative process, different for each person. Some people feel old at 50; others age with gusto and feel 90 years young. Extension aging programs are designed to help people age with gusto by teaching them how to achieve optimum financial, physical, and mental well-being in their later years. Older adults learn how to prepare for and cope with problems related to finances, legal issues, health, caregiving, housing, and self-care.

Objective 1. Financial. 24 Units Reporting Accomplishments

Objective 2. Health. 14 Units Reporting Accomplishments

Objective 3. Caregiving. 13 Units Reporting Accomplishments

Objective 4. Housing. 5 Units Reporting Accomplishments

Objective 5. Low Income. 6 Units Reporting Accomplishments

Significant Accomplishment Numbers and Narrative

Objective 1: 4846 people increased awareness and knowledge of financial management techniques and consumer issues. 1875 people adopted financial management and consumer practices. 1709 people increased awareness and knowledge of estate planning. 745 people adopted estate planning practices. 1058 people increased awareness and knowledge of retirement planning and savings. 387 people adopted retirement and savings practices. 2169 people improved their financial status through adoption of consumer and financial management practices. People reported that they increased their savings and/or retirement contributions for future financial stability by \$56,128. 380 people developed and implemented an estate plan. 502 people developed and implemented a plan for possible future incompetency and dependency.

Objective 2: 954 people adopted practices such as decreased fat intake, decreased sodium intake, or increased fruit and vegetable intake. 3478 people increased awareness and knowledge of healthy "behaviors" such as lowering the fat or increasing the fiber in their diets. 882 people adopted behaviors to meet the Food Guide Pyramid guidelines. 735 people adopted practices which lead to healthy physiological changes, such as decreases in blood cholesterol, blood pressure, blood sugar, and/or excess weight. People reported avoiding \$51,335 of costs through reduced risk of chronic disease. People reported avoiding \$17,867 of costs through improved health status via fewer visits to physicians. 776 people improved their health status through adoption of health practices.

Objective 3: 438 people adopted stress management and other self-care practices, including use of formal and respite services. 1267 people increased awareness and knowledge of community resources. 921 people increased awareness and knowledge of caregiving skills. 222 people adopted caregiving practices that improve the care of the impaired elder or other care receiver. 1168 people increased awareness and knowledge about the need for coordinating legal, financial, and health care decision making. 208 caregivers reported improved quality of life and decreased stress. 269 people reported improved care for impaired elders and other care receivers. 546 people increased utilization of community resources by participants caring for older adults. 1293 instances of improved interagency cooperation on aging and health promotion issues.

Objective 4: 2394 people increased awareness and knowledge of housing options, financial options, and accessibility options that lead to affordable or accessible housing. 232 people adopted housing technologies that make housing accessible, such as design features, furnishings, and products. 108 collaborations and linkages with housing related agencies and individuals that foster affordable and accessible housing. 125 more people live in affordable housing. 146 people improved or increased their accessibility to housing.

Objective 5: 381 people increased awareness and knowledge of practices that promote health such as use of medicines. 319 people adopted practices that lead to improved health status. 418 people increased awareness and knowledge of practices that promote food safety. 299 people adopted practices that promote proper food storage and safety. People reported avoiding \$2,900 of costs through adoption of practices that lead to safe use of medicines. People reported avoiding \$4,700 of costs through adoption of practices that lead to proper food storage and safety.

Volunteers: 802 Volunteers donated 3,701 hours valued at \$37,010.

SMP 2 - AGRICULTURAL AND NATURAL RESOURCE POLICY

SMP #2 focusses on agricultural and natural resources policy issues. Through educational programs, stakeholders gain information and understanding about how rules, regulations, and legislation affecting them is developed. They gain better understanding of the policy-making process and participate in it. Complex and sometimes controversial issues are resolved by adopting conflict resolution, facilitation, and other collaborative problem solving strategies.

Reporting: Objective #1 - 9 counties
 Objective #2 - 5 counties
 Objective #3 - 1 county

Significant numbers:

1232 participated in programs focussing on environmental and natural resource issues. 346 gained increasing knowledge of these issues and 356 gained knowledge and awareness of regulations affecting agriculture. (Farmers and others involved in agriculture need this knowledge. It is becoming as important to farming as production information.)

512 gained increasing knowledge of the policy-making process and 89 put that knowledge to work by actually participating in the process.

Volunteers involved: A total of 134 individual volunteers were involved, contributing 807 volunteer hours.

Program Accomplishments:

Animal waste, riverbasin management planning, water quality, and solid waste management were some of the issues involved in programming efforts in the Agricultural and Natural Resources Policy State Major Program. Participants using facilitation and consensus building identified natural resource issues to include in a county solid waste management plan. Policy education gave citizens knowledge of the policy-making process empowered them to participate and provide input for a wellhead protection program, solid waste task force, and water quality concerns surrounding bridge construction. Interested citizens and professionals provided guidance, input, and prioritization of research needs for EPA Section 319 grant proposals to study the how best management practices (BMPS) effect water quality in several river basins in North Carolina. Technical and policy education on waste management issues resulted in better informed decisions for more balanced county livestock rules and regulations from the perspective of the regulators and the regulated community. Task forces formed around animal waste, agriculture, solid waste, and water quality issues continue to facilitate citizen and stakeholder involvement and input as rules, regulations, laws, or other policies are proposed to deal with these issues. (Leon Danielson and Marjorie Rayburn, co-chairs)

SMP 3 - AGRICULTURE AND THE ENVIRONMENT

The Agriculture and the Environment program focuses on developing and implementing educational programs to improve clientele's understanding of the complex relationships between agriculture and the environment. Programs are targeted to seven clientele groups: Livestock, poultry and fish producers; Field crops producers; Nursery, greenhouse, turf and landscape professionals; Agribusiness professionals; Agricultural service agencies; Special interest groups; and Pesticide certification and training. By mid year, over 60 counties reported against one or more of the seven program objectives.

Number of units reporting per objective: Objective 1, 33; Objective 2, 32; Objective 3, 20; Objective 4, 12; Objective 5, 30; Objective 6, 19; and Objective 7, 61.

Significant accomplishments during 1997:

- 983 land application operators were trained and certified
- 68,000 acres of land application utilized waste analyses
- 4,000 livestock farms utilized waste management plans
- 25,000 tons of nitrogen utilized from waste and compost
- 100 miles of vegetative or forested buffers restored along streams
- 117,000 pounds reduction in pesticide use
- 3,000 nursery, greenhouse and landscape professionals adopted BMPs
- 2,346 individuals participated in nursery and greenhouse recertification training
- 123 newly registered landscape professionals
- 1,234 agribusiness professionals attended environmental education programs
- 105 collaborative interagency projects implemented
- 236 media stories addressing agricultural and environmental issues
- 1,360,000 acres utilized pesticide BMPs
- 9,873 pesticide applicators recertified
- 72,200 pesticide containers recycled

Volunteers: 3,856 volunteers contributed 13,000 hours valued at \$130,000.

Agriculture and the Environment customers were provided information and training to allow them to assess local issues and achieve a balance between economic viability and environmentally friendly agricultural productivity. Implementation of conservation BMPs reduced soil erosion losses by approximately 300,000 tons. Nearly 1,000 land application operators were trained and certified bringing the total number of operators certified over the past 18 months to over 5,000. Just over 1800 (60 percent) of the liquid waste management systems have been certified. An additional 200 poultry producers adopted dry liter waste management plans. Collectively, proper waste management resulted in the utilization of nearly 25,000 tons of nitrogen derived from animal waste and other organic by-products with an estimated fertilizer nutrient value of nearly 15 million dollars. Approximately 12,000 individuals were trained and recertified as registered landscape professionals and pesticide applicators. These trained professionals working with local producers implemented pesticide BMPs such as integrated pest management, scouting, and biological control methods on over one million acres resulting in a reduction of pesticide use of over 100,000 pounds compared to conventional practices. In addition, numerous livestock, field, and horticultural crop producers reduced nitrogen use by utilization of BMPs such as soil testing, waste analyses, plant tissue analyses and general nutrient management planning. Collectively, the agriculture and environmental programs at an estimated cost of 1.3 million, resulted in an estimated 35 million dollars in direct benefits to customers and 85 million dollars to North Carolina citizens through advertment of negative environmental impacts.

SMP 4 - ANIMAL PRODUCTION AND MARKETING SYSTEMS

SYNOPSIS: This state program is based on the needs of the very large and diverse animal production sector of NC. In some situations, there are problems and opportunities associated with growth, in others there are challenges to restore or maintain profitability of the animal enterprise. The first objective of the smp deals with transfer of educational materials and technology to various animal-based agricultural businesses. It includes improvements in forage management, feed production, traditional and non-traditional animal production technology, facilities, marketing, regulations, waste management and farm business management.

These programs are developed and delivered within and across commodity groups as appropriate.

Our second objective covers programs designed to increase the overall awareness of the importance of animal agriculture, the wise use of natural resources, and related public policy issues.

NUMBER OF UNITS REPORTING:

Objective 1: 50
Objective 2: 30

ACCOMPLISHMENT NUMBERS:

Income optimized through nutrition practices (all species):
\$2,508,000.
Income optimized through breeding practices: \$1,393,000
" " " marketing " \$1,014,000
" " " facilities : \$1,081,000

Over 20,000 non-farm citizens were exposed to facts that dealt with animal agriculture and the importance of it in their lives.

VOLUNTEERS: One thousand one hundred and fifty seven volunteers were involved in the two objectives of the program.

OVERALL NARRATIVE: Beef cattle producers in North Carolina will soon be benefitting from a new program activated in the past six months. This is the Certified Beef Program for NC which is part of a larger program spanning six states--Southeast Pride. Producers will benefit from a coordinated educational program and quality control effort that should improve reputation and economic return of feeder cattle marketed in the region. Educational program manuals were written and extension agents have been trained to present the program to producers. Cooperation among industry groups and other agencies should enhance acceptance of the new program.

All counties in the state now have access to a Regional Equine Information Network System (REINS) volunteer. This large volunteer force of horse owners and enthusiasts are now adding significantly to outreach efforts of local extension agents. They are assisting agents in planning, preparing and carrying out programs to meet needs of local horse owners. In many cases

REINS volunteers have formally organized and will be able to supplement local programs to improve the knowledge base of the average horse owner. An example was an area program on rabies and equine encephalomyelitis leading to increased vaccinations and testing.

During the past six months, the dairy management education program was expanded to include interactive workshops on reproductive management and labor management along with repeated offerings in 'Managing for Success' and nutrition and financial management. Producers are actively setting goals and outlining strategies to achieve those goals in these sessions. Extension agents and specialists also met to discuss other advanced management educational opportunities to offer to graduates. One dairy reported over \$45,000 advantage from using decision making procedures to decide whether to raise or purchase replacement heifers.

Management training for professional swine managers is a program implemented in North Carolina in 1997 with assistance from the National Pork Producers Council. There should be opportunities for follow-up training on various management topics.

Grazing management schools for goat producers, beef producers, dairy producers, and NRCS personnel continue to be evaluated favorably. These schools are conducted in a combination of lecture, discussion, demonstration, and 'hands-on' exercises.

Agents continue to produce innovative programs to tell the general public how animal agriculture is really done at the farm level. Tours for Chambers of Commerce and local businesses have given community leaders first hand knowledge versus what they read in the local press.

Youth livestock projects continue to grow and to help NC's youth learn about animal production and financial records. In addition this program offers many rural youth the opportunity to interact with animals which are not part of their daily lives.

SMP 5 - CHILD CARE

Program Focus: To increase the amount of quality child care through improved collaborations and assist child care professionals in providing appropriate programs for children.

Counties reporting: Objective 1: 23 counties; Objective 2: 45 counties

Accomplishment Numbers: 5,165 child care providers and 433 babysitters receiving training, 88 new centers licensed or registered, 3 centers receiving AA license, 3,548 providers adopting new skills, 5 centers receiving NAEYC accreditation, 20 providers receiving child care credentials, 2,396 increasing usage of Child Care Resource and Referral Agencies, 135 new community collaborations formed, 1,295 new slots created, 53 new centers and \$2,175,059 new financial resources secured to enhance child care as a result of Extension collaborations/efforts.

Volunteers: 621 volunteers contributing 12,580 hours.

Program Narrative: Counties have positively impacted the quality and availability of child care through: collaboration with County Smart Start efforts to create programs and secure resources; training providers in areas of curriculum, diversity, safety, nutrition, behavior management, communication, growth and development, health; developing newsletters, lending libraries, teaching tubs to enhance program quality; networking to address issues of special needs children and child care; enhancing support through AmeriCorps volunteers; partnering with school systems to develop new school age child care programs and enhancing quality through piloting the SAC National Accreditation Training; networking with Extension Homemakers to offer "Character Counts" Curriculum to child care settings; targeting training and development of Family Child Care Providers.

SMP 6 - COMMUNITY AND ECONOMIC DEVELOPMENT

The focus of the program is to involve local groups in the community development process and to give local groups and leaders information and education which will help them improve the economic status of communities.

Number of units reporting:

| | |
|--------------|-------------|
| Objective 1: | 17 counties |
| Objective 2: | 6 counties |
| Objective 3: | 4 counties |
| Objective 4: | 6 counties |

Accomplishments: A summary of numbers measuring accomplishments for SMP 6 follow:

Participants gaining awareness and knowledge: 771 persons
Conference attendees rating information as useful: 1185 persons
Additional special audience persons participating in the community development process: 641 persons
Application of fact sheets: 408 applications
Application of computer model: 37 applications
New community development projects formed: 61 projects

Value of programs to targeted audiences: \$200,680
Value of programs to society: \$604,600
Program costs: \$23,063

Volunteers Involved: 564 persons

Dollar value of volunteers: \$48,400

Overall Narrative:

Significant accomplishments were reported for SMP 6 during the first six months of 1997. The educational efforts reached large numbers of citizens and benefit/cost ratios were reported at 8.7 to 1 for targeted audiences and 26 to 1 for society. A large number of volunteers were also involved in the programs.

SMP 7 - CROP PRODUCTION AND MARKETING SYSTEMS

The focus of the Crop Production and Marketing Systems SMP is to develop and deliver programs that improve the profits of North Carolina's agricultural industry, maintain environmentally safe farms and communities, and educate non-farm citizens about farming, food safety, and the importance of agriculture to our economy.

A total of 61 counties reported accomplishments under one or more of the seven objectives; 26 counties reported progress under objective 1, 23 for objective 2, 26 for objective 3, 29 for objective 4, 19 for objective 5, 15 for objective 6, and 19 for objective 7.

During the first six months of 1997, NCCES campus and county faculty offered unbiased, research-based information to North Carolina's full-time and limited resource, part-time farmers. Educational programs for corn, cotton, peanuts, small grains, and tobacco helped growers make informed decisions about new varieties, nutrient management, IPM, no-till production, use of irrigation, labor management, and many other farm practices. These crops contribute more than \$2 billion in cash receipts to North Carolina's economy. Programs were presented to North Carolina's vegetable, fruit, Christmas tree, greenhouse, and nursery producers focusing on variety selection, IPM, speciality crops, marketing strategies, and environmental issues. These industries are extremely important and collectively represent more than \$1.5 billion in production receipts for our state. On-farm tests and demonstrations were established in many areas to help evaluate new products and innovative production practices. These sites are particularly valuable as growers must comply with new environmental restrictions and changing government policies mean more strict farm management. Having the test sites localized provides endless teaching opportunities for agents, farmers, and agribusiness.

Strategies including the use of resistant varieties, disease forecasting, scouting, and pesticide selection were presented across the state to help producers understand IPM. Pest managements in tobacco transplant production, tobacco blue mold management through timely fungicide application, disease forecasting for peanuts to reduce unnecessary sprays, scouting for insects in cotton and small grains are just a few examples of programs presented by agents and specialists. IPM programs were also presented for forestry, forage, ornamental, fruit, and vegetable crops. Results of the programs for producers who adopt the recommended IPM practices include increased profits and a healthier environment. In one county, an IPM scouting program proved particularly valuable to Christmas tree producers when a new insect pest came into the area. Scouting and careful attention to thresholds helped growers save more than \$100,000. NCCES IPM programs reached over 4,800 individuals. An estimated 1,700 growers implemented IPM practices affecting over 220,000 acres. Across the state, adoption of IPM practices have the potential for saving growers almost \$2 million and represents a reduction over 200,000 pounds of active pesticide ingredients.

Educational programs also helped growers as they evaluated local, national, and global markets and their influence on prices. Growers were taught about different market options, contracts, futures and how to take advantage of markets to increase profits. The impact of these programs will be known later in the year.

SMP 8 - FAMILY & CONSUMER ECONOMICS

SYNOPSIS OF SMP PROGRAM FOCUS:

Family & Consumer Economics SMP #8 promotes informed personal finance and other consumer decision making by individuals and families, emphasizing education for prevention. For persons who have serious financial problems, Agents make informed referrals to counseling and intervention services. To help people extend and increase income, Agents provide resource management training for families and family businesses, and organize experienced volunteers to deliver skill training to youth and adults.

NUMBER UNITS REPORTING ACCOMPLISHMENTS - 46 individual counties

- 8.1 - 23 - Basic Money Management for Limited Resource Audiences
- 8.2 - 22 - Financial Planning over the Life Cycle
- 8.3 - 15 - Affordable Housing
- 8.4 - 23 - Consumer Decision Making
- 8.5 - 10 - Extending & Increasing Income

SIGNIFICANT ACCOMPLISHMENT NUMBERS:

- 8.1 2930 acquired knowledge & 1788 adopted new practices that reduced debt \$47,270 & resulted in \$44,787 saved/reallocated
- 8.2 5850 acquired knowledge & 4227 adopted new practices, with 2003 reporting increased satisfaction w/ financial situation
- 8.3 6336 acquired knowledge & 1800 adopted new practices, w/ 241 reporting success in budgeting & 808 in living independently
- 8.4 15802 acquired knowledge & 1494 reported adopting consumer goods selection practices that avoided \$36,298 in costs
- 8.5 2191 adopted practices extending/increasing income \$194,135

VOLUNTEERS INVOLVED: 976 volunteers gave 6693 hours @\$10 = \$66,930

OVERALL NARRATIVE DESCRIPTION FOR JANUARY-JUNE 1997:

* Agents report improved budgeting & recordkeeping skills, reduced debt, increased savings from work with limited resource & other audiences, including: housing authority; Habitat families; food stamp; pre-release workshops; minority women; Work First & other DSS clients; middle school and high school students; alternative sentencing program participants; women's abuse shelter residents; single parents; WFIP audiences; senior citizens; county employees; teachers; college freshmen.

* Positive impacts from targeted consumer decision programs were reported on telemarketing fraud, Medicare/other health insurance for seniors, consumer credit, elder fraud, car buying.

* Participants in several basic programs requested follow-up, advanced level experiences, leading to Level II of WFIP, creation of investment clubs, and post-homebuyer education for Habitat and other families.

* Agents provided direct training & organized volunteers to achieve effective outreach to new, larger audiences through effective networking - including Dept. of Insurance, Attorney General, US Marine Corps, IRS, DSS (Work First et al), housing groups, Family Resource Centers, Smart Start, Head Start.

SMP 9 - FAMILY & PARENT EDUCATION

Synopsis of SMP program focus:

The Family & Parent Education State Major Program helps parents and families acquire and develop the skills needed to foster qualities of responsibility, cooperation, courage and self-esteem.

Appropriate actions are being taken to provide quality information on how to strengthen family relationships through improved parenting skills, financial management, problem-solving skills, empowerment, conflict resolution, effective communication, and stress management. In addition, Extension personnel are equipped to make appropriate referrals for family services, support services, and self-help support groups.

Number of units reporting per objective:

Objective 1: 45 Counties reporting
Objective 2: 5 Counties reporting
Objective 3: 15 Counties reporting
Objective 4: 9 Counties reporting

Any Accomplishment Numbers deemed significant:

Impacts reported by SMP 09 participating counties:
Improved quality of family life — 5,538
Improved responsibility of parents and children — 4,455
Increased family stability — 3,409
Improved self-esteem of family members — 1,017
Improved interpersonal skills — 853

Cumulative cost analysis of SMP 09 Programs:
Dollar Value to Targeted Audiences: \$79,215.
Dollar Value to Society: \$391,616.
Estimated Program Costs: \$176,176.

Volunteers involved:

To Date Number: 703
 Hours: 3029
 Dollar Value at \$ 10/hr: \$30290

Overall Narrative describing program accomplishments for the first six months of 1997 only:

The cumulative efforts of participating counties resulting in the impacts mentioned above involved educational programming and collaboration which increased the awareness and knowledge of 27,606 learners. Of these, 9,092 learners, or approximately 33 percent, reported actually adopting skills, practices, or behaviors as a result of the programs they attended.

SMP 10 - FOOD AND FOREST PRODUCTS MANUFACTURING

SYNOPSIS OF PROGRAM FOCUS

The North Carolina Cooperative Extension Service, Department of Food Science works to enhance the profitability and quality of the NC food industry. The North Carolina Cooperative Extension Service, Department of Wood and Paper Science works to increase the competitiveness and profitability of North Carolina's forest products industry, improve markets, and increase consumer understanding of forest products and their proper use. Wood Products Extension concentrates its efforts on providing educational opportunities for managers and key personnel of primary and secondary wood products firms and the consumers of wood products.

ACCOMPLISHMENTS

Food Science

1997 has been a very active year in providing HACCP training to food processing industry and regulatory personnel. Three, three-day training courses have been conducted for seafood processors, as well as state and county health officials. 100 processors were trained. Assistance was provided in three HACCP training programs conducted in Virginia to train at least 150 people. At the request of the U.S. FDA's Office of Seafood, the three-day HACCP training was conducted for 40 FDA investigators based in Washington. Five HACCP workshops for poultry totaled approximately 150 participants. One HACCP course for 76 egg processors and handlers at the National Egg Quality School was held in Little Rock, Arkansas.

Wood and Paper Science

Quality Control for Increased Profits, a two-day short course and tour was held for hardwood plywood manufacturers. The overall participant's average rating of this short course as to how helpful it was in providing useful information was 4.71 (1 = not helpful; 5 = very helpful). One participant's evaluation summed it up best by stating, "Well done, well organized, and very informed speakers." Total attendance was 22 with 12 individuals from North Carolina.

NARRATIVE SUMMARY

Food Science

Food science specialists have taken a lead nationally in developing HACCP training materials and delivering training programs. 7,000 copies of the Seafood HACCP Alliance Training Manual have been ordered from around the globe. HACCP has become a significant part of this SMP's program, due to the expressed interest of both FDA, USDA as well as the food processing industry. This is the program at the cutting edge of food safety in the world and will likely to continue being a major part of our programs for the next several years.

Wood and Paper Science

Faculty participated in 20 seminars, workshops, and other educational opportunities reaching 964 individuals. Helping producers and buyers in solving problems or answering their questions associated with the production and use of wood products is also an important activity. Many of these problems and questions require extensive time in gathering the information needed by an agent, industry or final consumer. Faculty handled 86 requests of this type during the first half of 1997.

SMP 11 - FOOD SAFETY AND QUALITY

Synopsis of SMP program focus: Safety in the food supply is a shared responsibility. SMP 11 works with food producers, processors, preparers and consumers to improve their knowledge and change their food handling behavior. The SMP activities help participants follow appropriate food safety procedures so food enters and leaves their portion of the food supply chain safe for human consumption.

Number of units reporting per objective: 32

Any Accomplishment Numbers deemed significant:

Measures of Progress

| | |
|----------------------|------------------------------------|
| Consumers | NUMBER INCREASING KNOWLEDGE: 10437 |
| | NUMBER IMPROVING ATTITUDES: 6410 |
| Food Service Workers | NUMBER INCREASING KNOWLEDGE: 1205 |
| | NUMBER IMPROVING ATTITUDES: 811 |

Impact

| | |
|----------------------|---|
| Consumers | NUMBER ADOPTING SAFE HANDLING PRACTICES: 4497 |
| Food Service Workers | NUMBER ADOPTING SAFE PRACTICES: 620 |

Volunteers involved: 271

Of the collaborative community health partnerships reported, two counties have been awarded significant funding to address citizens' health needs. In Hertford County, Partners for Health, co-chaired by NCCES, has received \$575,000 in grants for diabetes support and adolescent health.

SMP 13 - LEADERSHIP AND VOLUNTEER DEVELOPMENT

Program Focus : The primary focus is to develop skills that individuals and organizations can use to build on community strengths and address community problems and opportunities. Effective programming targeting these skills is expected to yield an increased number of people who participate in all types of community activities and decisions and increase the development of new skills and expertise by individuals in order to raise the level of volunteer service.

Number of units reporting per objective:

Objective 1 : 24
Objective 2 : 28
Objective 3 : 24

Accomplishment Numbers Deemed Significant :

- Community organizations developed to continue resolving community problems - Number: 52
- Economic value of volunteer intervention - Dollars: \$675858
- Adoption of volunteer management system practices - Number Adoption: 4083
- Number of person who participated in community collaborative problem solving process Number: 3962
- Number of person who participated in community/public policy process as a result of leadership training experience Number: 2182
- Dollars saved as a result of achieving successful resolution of community issues Dollars: \$79500

Volunteers Involved:

10822
Dollar value at \$10.00/hr : \$923290

Overall narrative describing program accomplishments for the first six months of 1997.

A number of counties have successfully implemented a program that involved citizens in the development of leadership and volunteer management skills and skill they can use to facilitate the resolution of community issues. Their involvement results in saving to various community, government, non-profit and for profit organizations. Volunteers numbering 10822 contributed service throughout the state valued at \$923290. Citizen throughout the state also complete community projects that contributed to the value of their communities totaling \$468399. Effective facilitation resulting in the resolving of community issues resulted in a savings of \$79500.

SMP 14 - MARKETING AND PRODUCTION OF ALTERNATIVE AGRICULTURAL OPPORTUNITIES AND ENTERPRISES

SYNOPSIS OF SMP PROGRAM FOCUS: Assist producers, both large commercial and small part time and limited resource to identify, choose among, create and implement alternative agricultural enterprises.

NUMBER OF UNITS REPORTING PER OBJECTIVE:

OBJECTIVE #1: 13
OBJECTIVE #2: 14

From diverse efforts such as empowering citizens to guide a county solid waste plan to assisting a landowner in tripling his income from a timber sale, Extension programming in Natural Resource Conservation and Management facilitated important, life-changing and life-enhancing experiences.

SMP 16 - NUTRITION AND WELLNESS

Synopsis of SMP program focus: The Nutrition and Wellness SMP promotes optimum nutrition and lifestyle management for healthy outcomes throughout the life continuum. The program is based on the fact that nutritional status has a direct impact upon health, quality of life, and the ability to achieve physical and mental potential. Program objectives include changes in knowledge, attitudes, skills and aspirations, and the adoption of behaviors that promote health.

| | | |
|----------------------------|--------------|--------------------|
| Number of units reporting: | Objective 1: | 57 units reporting |
| | Objective 2: | 29 units reporting |
| | Objective 3: | 19 units reporting |

Significant Accomplishments by participants:

- *increasing awareness of need to have good nutrition habits--30,467
- *increasing knowledge that promotes health--26,664
- *increasing attitudes and aspirations indicative of need for good health--20,597
- *adopting diets consistent with dietary guidelines for good health--11,896
 - including adopting dietary practices such as:
 - decreased fat intake--7,210
 - decreased sodium intake--3,996
 - increased fruit and vegetable intake--5,739
 - increased calcium intake--1,980
- *increasing knowledge that leads to reduced risk for chronic disease--12,829
- *increasing skills that lead to reduced risk for chronic disease--10,239
- *making significant impacts on participant's physiology, such as:
 - decreased high blood cholesterol--440
 - decreased high blood pressure--386
 - decreased high blood sugar--150
 - decreased excess weight--691
- *increasing awareness and knowledge of importance of good nutrition for children--3,086
- *participating in food activities together (parents and children)--1802
- *adopting food behaviors consistent with the Dietary Guidelines and Food Guide Pyramid:
 - by parents--1719
 - by children--1194

Volunteers Involved: 1903

Overall Narrative (for first six months of 1997): Consumers in NC gained knowledge and skills and made behavior changes that promote health. Because of the behavior changes many lowered their high blood cholesterol, high blood pressure, and high blood sugar, increased intake of calcium, and decreased excess weight, thus reducing their risks of chronic diseases. Consumers promoted optimal health by applying USDA tools such as the Dietary Guidelines and the Food Guide Pyramid and by label reading. Programming focuses included reducing dietary fat, sodium, and calories, and increasing consumption of calcium, fruit, vegetables and high fiber foods as well as increasing physical activity to promote health.

A variety of methods including learn at home materials, interactive learning and video were used to reach diverse audiences through single and multiple contacts. Audiences included a focus on parents and children, especially in the areas of food choices, preparation, safety and buying. Programs were also targeted to migrant farm workers, minority groups, older adults, workers in government and private industries, and those in special groups such as Headstart, Work First, and Extension Homemakers.

Channels used to reach these audiences included: churches, day camps, supermarkets, newsletters, special mailings, public libraries, health fairs, radio, TV, and worksites.

Collaborative efforts included NC Department of Environment, Health, and Natural Resources, NC Department of Human Resources, local health departments, hospital staffs, schools, day care groups, public libraries, AARP, local social services, and other universities' faculty within and outside North Carolina.

SMP 17 - Residential and Community Horticulture, Turf, Forestry and Pest Management

Synopsis

The educational programs of this SMP seek to provide knowledge to citizens of the state who desire to know more about horticulture and structural pest management, but do not have commercial interest in these areas. Programs mostly target home owners who seek knowledge about controlling structural pests, installing and maintaining their home landscape, and vegetable and fruit gardening. However, programs are also provided for community gardening projects and for caretakers of community property. Through the increased knowledge provide, this program aims to improve the economic and aesthetic value of property while ensuring environmental stewardship.

Units/counties reporting per objective:

Objective 1. 29

Objective 2. 44

Objective 3. 24

Accomplishment Numbers and Overall Narrative

Educational programs on pest management helped more than 27,500 people increase their knowledge of Integrated Pest Management practices. Of these, about 11,000 adopted IPM practices in their pest management strategies. This saved nearly \$495,000 through reduced pesticide use. Counties reported that \$216,000 was also saved through reduced pesticide-related contamination problems, e.g. runoff into municipal sewer systems and container disposal problems. About 12,000 people reported reducing risk of their own and their pets exposure to insecticides through more knowledgeable use. Almost 18,000 now have a better understanding of how IPM can enhance their ability to be good environmental stewards.

The programs on federal guidelines governing wildlife control and depredation reached about 12,000 people. This audience increased their awareness and knowledge of these guidelines.

The programs on proper plant selection, proper plant management and proper plant pest management helped 48,000 people increase their awareness and knowledge of these areas. From this group, 18,000 increased their knowledge and skills to support their role in the protection of the environment and the urban ecosystem. Skills specific to ornamental tree, shrub and turf care were acquired by almost 24,000 people. About 14,000 felt the knowledge gained and subsequent actions taken increased their satisfaction with the appearance and environmental protection of their residential or community landscape. Approximately \$2 million was estimated as the increase in property value due to application of the knowledge and skills gained from these programs. Nearly 72,000 people were reported to have employed proper techniques of plant growth and health care and integrated pest management to protect the environment in their community.

Volunteers involved:

Objective 1. 477

Objective 2. 864

Objective 3. 810

Gardeners numbering near 11,000 who participated in educational programs for fruit and vegetable gardening represented about 100 acres.

Over 5,000 of these gardeners adopted Best Management Practices (BMPs) for their gardens which provided them with \$67,000 in costs avoided. About half of the 5,000 included BMPs that minimize water pollution and maximize water conservation. They reduced water usage by 31,000 gallons.

SMP 18 - FOR RESIDENTIAL AND COMMUNITY WATER AND WASTE MANAGEMENT

Residential and Community Water and Waste Management has environmental and economic impact on both the private and public sectors in North Carolina. Proper management of solid waste, wastewater and watersheds ultimately affect water quality. The number of county units reporting for this period are 13 for objective 1, 3 for objective 2, 8 for objective 3 and 16 for objective 4.

The following accomplishments were reported statewide: 5686 persons increased their knowledge of water quality best management practices, 762 persons adopted best management practices to detect and treat contaminated water, \$303,500 was saved through decreased cases of water contamination, \$106,000 healthcare dollars were saved through detection and treatment of contaminated water, 3765 persons demonstrated an increased knowledge and awareness of waste management principles, 507 recycling programs were implemented, 45 industries/municipalities adopted waste management practices, 2460 consumers improved their waste management practices, 4555 gallons of used oil was recycled, 2820 pounds of household hazardous materials were collected, \$27,025 was saved by municipalities through reduction of amount and toxicity of waste, \$109,000 saved through reduced waste in landfills, and \$68,629 saved through recycling materials.

754 volunteers were involved with the state major program contributing 1778 hours of time.

During this period several counties have emphasized water quality and waste management programs for youth. Environmental awareness programs were presented emphasizing pollution prevention of rivers, streams and groundwater including lead and nitrate contamination of drinking water, recycling and vermicomposting. A total of 5555 youth have participated in these programs. Over 900 or 90% of the youth participating in one county increased their knowledge of water quality potential pollutants. After incorporating the vermicomposting curricula in 17 schools in 4 counties, there has been a 15% increase in the number of schools conducting some form of school recycling.

Three county Extension Centers cooperated with local waste management divisions to conduct household hazardous waste collection activities that included one day collection events and product exchanges. These activities resulted in 1852 gallons of paint, 16.6 tons of tires and 180 cubic yards of white goods being collected.

SMP 19 - RESILIENT YOUTH, FAMILIES, AND COMMUNITIES

Synopsis of SMP program focus:

The Resilient Youth, Families, and Communities state major program takes action to strengthen the resiliency of youth, families, and communities. Programs in this area focus on prevention programming designed to reduce "risk factors" and strengthen "protective factors". Youth and families participate in educational experiences which enable them to develop skills needed to effectively cope with life's challenges.

Number of units reporting per objective:

Objective #1: 26 counties; Objective #2: 17 counties; Objective #3: 17 counties

Any accomplishment numbers deemed significant:

9908 demonstrating increased communicating, decision-making, working in groups, understanding self, and relating to significant adult life skills

6983 demonstrating increased knowledge and awareness of and alternatives to drugs and alcohol use

5877 demonstrating increased life skills

\$8,133 dollars saved/reallocated through effective money management

204 collaborations established

34 economic and community development programs established

\$127,565 saved through increased collaborative efforts

\$1,148,601 = Dollar value added to community through economic and community

development

\$7,378,841 in costs saved through reduced risk factors. (i.e. community crime, anti-social behavior, low neighborhood attachment and community disorganization, academic failure, low commitment to school, youth and adult drug use, alienation, rebelliousness, and negative peer involvement)

Volunteers involved:

Number: 3938

Hours: 26,236

Dollar value at \$10/hr.: \$262,360

Overall Narrative describing program accomplishments for the first six months of 1997:

Counties continue to be involved in programming for youth in high risk environments and families in adverse situations. Through community groups, communities are creating environments which reduce youth and family risk factors that threaten resiliency. Three-thousand nine-hundred thirty-eight (3,938) volunteers donated their time and talents at a value of \$262,360 to support our programming efforts. There was a total cost saving of \$7,378,341 associated with reduced risk factors such as community crime, anti-social behavior, low neighborhood attachment and community disorganization, academic failure, low commitment to school, youth and adult drug use, alienation, rebelliousness, and negative peer involvement.

SMP 20 - YOUTH DEVELOPMENT

Program Focus: North Carolina 4-H programs are designed to help youth and adults reach their fullest potential by focusing on life skills taught through a broad spectrum of subject matters. The 4-H clubs, school enrichment programs and limited resource programs for youth provide opportunity for participants to develop competencies in self-reliance, acquiring knowledge, communications, and responsible citizenship.

Number of Units Reporting:

Objective One: 67

Objective Two: 43

Objective Four: 21

Accomplishments:

Objective One: 4-H clubs provided a setting where young people increased their competencies in: managing relationships, 18855; communications skills, 17778; making decisions, 15570; and self-confidence, 18592. 4-H community service projects saved communities across the state \$235,748. Objective Two: The 4-H school enrichment programs not only provided teachers and students with hands-on-learning experiences that enriched the classroom setting but teachers report that students experienced improved academic performance as shown by change in following indicators: 10,942 students (n = 16,455) improved class attendance, 6,651 students improved homework completed (n = 11,468), 5,909 students improved quality of homework (n = 11,278), and 10,647 students improved their science grades (n = 14,283). School systems also saved \$392,301 as a result of using the 4-H school enrichment material. Objective Four:

Youth participating in programs designed for limited resource audiences acquired skills in the following areas: saying no to peer pressure, 417; conflict resolution, 1366; and defining aspirations, 307.

Volunteers Involved:

Number:8,687

Hours:106,548

Dollar value at \$10/hr.:\$1,065,480

Narrative:

Over the last 6 months, participants in 4-H clubs, school enrichment and limited resource programs developed competencies that will allow them to continue to develop into responsible citizens. A statement from a YMCA counselor in Guilford County illustrates what the qualitative data above attempts to capture, "The 4-H Club has made a tremendous difference in our afterschool program. The children opened up and developed a sense of connection. They developed skills for team building, leadership, more importantly, developed respect and concern for others, how to care for themselves, and they have also taken responsibility to help each other out. This program with 4-H has truly been the most magical experience I have ever encountered with children." Prepared by: Dr. Candace Goode