ANNUAL REPORT FOR FY 84-87 PEOPLE'S PLAN '87

North Carolina Agricultural Extension Service

A&T and N.C. State Universities

Chester D. Black

Associate Dean and Director

Daniel D. Godfrey
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NORTH CAROLINA AGRICULTURAL EXTENSION SERVICE

1986 ANNUAL REPORT

CONTENTS

STATE OVERVIEW

COVER SHEET - AGRICULTURE AND NATURAL RESOURCES

MAJOR PROGRAM ACCOMPLISHMENT INFORMATION REPORTS (31)

COVER SHEET - HOME ECONOMICS

IMJOR PROGRAM ACCOMPLISHMENT INFORMATION REPORTS (35)

COVER SHEET - 4-H & YOUTH DEVELOPMENT

MAJOR PROGRAM ACCOMPLISHMENT INFORMATION REPORTS (7)

CIVIL RIGHTS/EEO ANNUAL COMPLIANCE REPORTS - FORM C

TAPLES

TABLE III - EXPENDED FTE, 1862

TABLE III - EXPENDED FTE, 1890

TABLE IV - PEST MANAGEMENT PROGRAM

TABLE V - PESTICIDE APPLICATOR TRAINING

TABLE VI - PESTICIDE IMPACT ASSESSMENT

TABLE VII - CLIENTELE CONTACTS BY RACIAL-ETHNIC GROUPS BY PROGRAM AREA, PROFESSIONALS, 1862

TABLE VII - CLIENTELE CONTACTS BY PACIAL-ETHNIC GROUPS BY PROGRAM AREA, PARAPROFESSIONALS, 1862

TABLE VII - CLIENTELE CONTACTS BY PACIAL-ETHNIC CROUPS BY PROGRAM AREA, PROFESSIONALS, 1890

Table VII - CLIENTELE CONTACTS BY RACIAL-ETHNIC GROUPS BY PROGRAM AREA,
PARAPROFESSIONALS, 1890

4-H ENROLLMENT REPORT (ES237)

EFNEP PEPORTS (ES 255 and 256)

OVERVIEW - "PEOPLES PLAN 87"

This has been a year of opportunity for the North Carolina Agricultural Extension Service. The serious farm financial situation provided the organization with the teachable moment for helping people put knowledge to work in farm businesses and rural communities. Knowledge continued to be the essential and paramount feature of the 4-H educational program as it reached 100,000 young people. The quality of life of the state's farm and urban families was assisted by programs stressing food and nutrition and family resource management. New resources were added to the Agricultural Extension Service program to initiate new efforts in technology transfer, and major steps were undertaken to build electronic technology capabilities that will serve the people of the state and its agricultural industry in the future.

Extension Highlights

Farm families across the state experienced serious fiscal and emotional stress during the past year. Twenty-five percent of the state's farm families were in severe financial distress, with debt to assist ratios of 40 percent or more. The combination of drought, unfavorable prices, declining land values, and uncertainty regarding the government's role in farm programs created a difficult management situation for the state's farm operators.

The Agricultural Extension Service intensified its efforts to assist farm families by shifting additional resources into farm management and marketing programs. Marketing was presented as an integral part of the farm business, requiring planning and quality control to achieve maximum benefits. Over 600 producers became acquainted with marketing tools such as hedging, forward pricing, agricultural options, and direct marketing. Further, educational programs conducted by county Extension agents and specialists supported this program for individual commodities.

Nearly 600 small, part-time and limited-resource farmers received one-on one on-the-farm assistance from 22 agricultural technicians. The primary focus was on assisting the small farmers in improving their farm management skills, agricultural leadership ability and their environment as it pertains to natural resources.

Included in the marketing-for-profit concept was the state's first fruit and vegetable marketing school, conducted by specialists from the Economics and Business and Horticultural Sciences departments. Using outside resources and concentrating on case studies, the specialists focused on the potential of quality control, postharvest physiology, and economics strategies and practices for the benefit of the 25 producers attending.

Thirty-five new "TeleTip" tapes were prepared and utilized to help many farmers cope with the serious fiscal situation. The three to five minute tapes, which can be heard by calling TeleTip's free "800" number, were used by over 300 families in three months. The tapics included bankruptcy, tax implications, credit services, lawyer's fees and responsibilities, foreclosure effects, and other subjects of current importance.

As the fiscal situation deteriorated for farm families during the year, other measures were undertaken to provide more direct and effective educational assistance. Six additional area farm management agents were added to the field faculty serving eastern North Carolina counties with specialized assistance. Supported with funds allocated by the state Legislature, these agents undertook economic and management meetings, private consultations, and specialized media programs, and they provided assistance in the area of economics for other agents' programs. Their efforts were supported by farm management specialists, who provided materials and training and also served as special consultants.

A statewide farm family distress hot line was initiated to provide a contact point for those families who desired information confidentially. The number 1-800-7NC-FARM was publicized by farm organizations and commodity groups in addition to the traditional Extension Service outlets such as the mass media and newsletters. Retired Extension economists funded by the Agricultural Foundation managed the telephone lines and provided counseling and referral services. Extension specialists formed "management assistance teams" that made follow-up visits to distressed farm families to evaluate farm finances and assist in farm planning.

In an effort to maximize the services needed at the county level for distressed farm families, the Extension Service trained 200 of its agents in financial and emotional counseling techniques. Fifty county Extension programs are anticipated in support of farm family adjustments and emotional counseling.

Helping limited-resource families and individuals to become proficient in managing their resources is a major focus of the family education program. This year through the efforts of the family education aides (paraprofessionals) approximately 1,000 limited-resource persons improved their skills in marketplace strategies, financial management, and management of resources.

Extension expanded its efforts to reach and assist rural and urban audiences with management skills for family living. Over 10,000 families reported learning one or more skills that were helpful toward improving their family's stature in the market place. These included record keeping, buying skills, budgeting techniques, and credit management. An innovation,

a family financial counseling and budgeting center, was funded and approved for the Winston-Salem area. This program will concentrate on mass media and educational programs in addition to counseling.

Thousands of North Carolinians enhanced their family income by learning new skills needed to start home businesses and to produce or renovate the items needed by their families. Training in furniture refinishing and home repair provided by Extension agents saved families money, enhanced their comfort, and helped them restore family heirlooms. Thousands of families used safe food preservation practices taught by the Extension Service to lower food purchase expenses and improve their nutritional standards. Gardens produced a bounty of vegetables and fruits, providing self-satisfaction and nutritious meals. Training in clothing and home furnishing construction helped many families save money through garment renovation and remodeling. The production of crafts and other products for sale provided an additional \$1.5 million to family income. Extension educational programs in marketable craft production were supplemented by economic programs which included records, tax management, marketing skills, and organizational techniques.

"Eat Right for Life" is an educational program receiving strong support by North Carolina families and professional organizations. A survey of participants indicates that 80 percent now use less salt in food preparation, 67 percent limit their intake of sugar, 81 percent have reduced their use of frying as a method of food preparation, and 68 percent select leaner cuts of meat.

Over 7,000 families were involved in Extension's Expanded Food and Nutrition Education Program (EFNEP). The program concentrates on the 22 percent of North Carolina households that are below the poverty level and have inadequate nutrition. Poor dietary habits often accompany meager resources, resulting in health problems. Educational programs on the four food groups help improve diets and promote improved nutritional habits.

Agricultural programs by the Extension Service concentrated on helping producers lower the cost of production and increase net profits. Agricultural waste management has the potential of reducing farm fertilizer bills by 30 to 50 percent. Educational programs concentrate on nutrient content analysis, soil testing, waste collection facilities, and treatment and utilization methods that can enhance productivity and protect the environment. Turkey breeders reported an increase of 1 percent in egg numbers and fertility with the use of new technology. This means that an additional 400,000 poults were hatched for the same amount of money expended. Sanitation and contamination monitoring are key elements in the program. Extension's "Four Feed Program" developed by specialists in the Poultry Science department has saved turkey producers milling costs of \$1.50 to \$1.75 per ton. Savings of up to \$225,000 are possible for an average to large mill through use of this program.

Postharvest handling of fruits and vegetables has potential for income improvement by maintaining product quality. Two new state-of-the-art precooling facilities were developed from Extension demonstration efforts. Precooling equipment generated a premium of \$1 per box for two grower-packers demonstrating new technology for the Extension Service. The combined volume resulted in increased income of \$200,000.

Christmas tree sales of approximately 3 million trees marked another high point for one of North Carolina's premier young industries. Over 1,500 producers attended Extension cultural meetings in 45 counties. Soil testing of trees is up 216 percent, and three companies now blend fertilizers for Christmas trees. USDA-graded trees were marketed for the second year by a cooperative established with Extension assistance.

Integrated past management helps producers confront their pest problems and lessen their impact through regular monitoring and prudent management decisions. Extension maintains an educational program in both plant and animal pest management. Over 4 million broiler breeders and half a million layers are monitored by fieldmen trained by Extension programs in 35 counties. Over 70 scouts working with agents and consultants monitored fields for 1,000 growers. Soybean producers averaged a 22 percent reduction in insecticide costs and 18 percent in herbicide costs at no reduction in yield. Forty percent of the major swine producers adopted nutritional practices to improve feed efficiency recommended by the Extension Service. Practices recommended included feed analysis, aflatoxin monitoring, and feeder adjustment. Surveys indicate that feed required for 100 pounds of gain has dropped from 430 to 415 pounds.

Extension assistance has been provided to help communities use land treatment methods for disposal of home, municipal, and industrial waste. Currently, there are 150 wastewater spray irrigation systems and 450 residential management systems using land treatment. Training for operators of these systems and encouragement of environmentally sound systems is an ongoing goal of the North Carolina Agricultural Extension Service.

Economic development was stressed in an educational program aimed at helping with the problem of a declining economic base in rural communities. Twenty-four counties and over 200 leaders received assistance through workshops on economic development.

One hundred thousand young people acquired knowledge through 4-H programs in North Carolina last year. Goals of the volunteer-led program were to help youth gain skills in coping, competency, and contribution. Coping skills center on developing self-esteem, a major element in preventing substance abuse. A new curriculum, "I've Gotta Be Me," focuses on learning experiences through a strong self-concept. Competency was acquired through the involvement of youth in 230,000 educational projects developed by Extension Service specialists. Contributory skills were practiced by

over 2,000 teen leaders and many community service projects conducted by organized 4-H clubs.

The number of youth 6, 7 and 8 years of age participating in Extension youth programs increased by 35 percent. Program visibility increased among public housing communities which resulted in a 10 percent increase in youth involvement. Subject matter curriculum for both program areas, Partners-In-Learning and Public Housing, continued to expand. More involvement by other educational agencies increased the resources available to the public housing communities.

Resources Added

In addition to educational programs, the North Carolina Agricultural Extension Service took action to enhance its delivery of technology through electronic transmission. Through funds supplied by the state Legislature, new computers were purchased for each county and several departments, increasing the capacity by 150 percent. A Computer Services Unit has been established within the Extension Administration to provide training, develop a systemwide electronic communications network, and promote the development of educational software. A major grant has been received to establish a computer network that will allow the county units and subject-matter departments to communicate and interchange information rapidly.

AGRICULTURE AND NATURAL RESOURCES ACCOMPLISHMENT REPORTS - 1986

No.	Title of Major Program for which Accomplishment Report is attached
NC04	Systems Approach to Feed Grain Production in North Carolina (1862)
NC06	Improved Technology for Soybean Production in North Carolina (1862)
NC09	North Carolina Forage Systems (1862)
NC11	Turfgrass Management in North Carolina (1862)
NC13	Integrated Pest Management for Field Crops, Horticultural Crops, Poultry and Livestock in North Carolina (1862)
NC14	Prudent Use and Management of North Carolina Soils for Agriculture, Forestry, and Urban Development.(1862)
NC15	Improved Diversity, Quality and Production Efficiency of North Carolina Grown Floral and Nursery Crops (1862)
NC16	Improved Production and Marketing of Vegetable Crops (1862)
NC17	Improved Production Efficiency and Fruit Quality in North Carolina (1862)
NC22	The North Carolina Master Beekeepers Program: A System to Upgrade Skills of N. C. Beekeepers and Increased Awareness of Beekeeping (1862)
NC24	Farm Structures in North Carolina (1862)
NC31	Agricultural Waste Management in North Carolina (1862)
NC37	Breeding, Management and Marketing of Equine in North Carolina (1862)
NC38	Market and Breeder Turkeys in North Carolina (1862)
NC39	Broiler Chick Production in North Carolina (1862)
NC41	Commercial Eggs and Pullets in North Carolina (1862)
NC42	Farm Management and Marketing of North Carolina Agricultural Commodities (1862)
NC43	Natural Resource Economics (1862)
NC44	Agribusiness Management and Marketing (1862)

NC52	North Carolina Agricultural Policy Education (1862)
NC56	Introducing New Processing Technology into the North Carolina Food Industry (1862)
NC64	North Carolina Christmas Tree Marketing and Production (1862)
NC67	Computer Development in the North Carolina Agricultural Extension Service (1862)
NC68	North Carolina Grain Drying and Storage (1862)
NC74	Farm Machinery Management, Crop Production Mechanization and Improved Chemical Application Efficiency in North Carolina (1862)
NC75	Farm Safety in North Carolina (1862)
NC75a	Pesticide Education in North Carolina (1862)
NC75c	Farm Opportunities Program-Farm Management (North Carolina) (1890)
NC75D	Farm Opportunities Program - County Organization for Small/Limited Resource Farmers, North Carolina (1890)
NC75E	Farm Opportunities Program - On-The-Farm Assistance, North Carolina (1890)
NC75F	Farm Opportunities Program - Home Gardening, North Carolina (1890)

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NC75F	Farm Opportunities Program - Home Gardening, North Carolina (1890)

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Probram Title Unclude State Name in Title!

NC04

Systems Approach to Feed Grain Production in North Carolina

*TEXT

*SITUATION

Corn and small grains are grown on 2.5 million acres annually in NC with respective values of 292 million and 75 million dollars. High costs of production and low prices have forced feed grain producers to increase crop production efficiency by minimizing inputs while maintaining high levels of production.
*OBJECTIVES

"UBUECTIVES

To increase irrigation efficiency by adopting computer scheduling on 10,000 acres.
 To apply maximum economic yield principles to increase small grain yield by 4 bu/Ac (net income of \$10 per acre).

3. To increase labor efficiency and reduce soil erosion by applying conservation

tillage to 300,000 acres of corn and wheat.

*RESOURCES

Agricultural Extension Staff in 80 counties with the support of 19 specialists and researchers. Additional effort was provided by graduate students, field technicians, and part-time employees. The program was enhanced further by support from commodity groups, foundations, and industry.

*ACCOMPLISHMENTS

Unique irrigation scheduling software was evaluated in field situations in 1985 and 1986. It is anticipated that the 10,000 acre goal for software use will be met in 1987. Acreage estimates indicate that the 300,000 acre goal for no-tillage production was obtained in 1985 and surpassed in 1986. The acreage was influenced by the Corn Extension program's participation in a series of workshops attended by 800 producers. Increased interest in small grain/doublecropping and adoption of maximum economic yield concepts increased wheat yield by 1 bu/Ac(\$2.50/acre) in a very dry year. Profitable production systems were emphasized through strong ties with corn and a newly-formed small grains grower's association. 9,000 copies of "Corn Production Systems in North Carolina" were distributed; it is being widely used as a reference by all segments of the corn industry in NC.

*EVALUATION

Wheat and corn yield contest applications indicate that producers are using viable maximum economic yield principles, irrigation equipment, and conservation tillage production systems. Strong support of commodity associations indicate that feed grain production programs are reaching growers.

*FUTURE IMPLICATIONS

The rapid adoption of no-tillage, irrigation, and intensive small grain management technology suggests that growers are striving to produce higher yields, thereby reducing unit costs and improving feed grain production profitability.

*CONTACT

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Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for substance words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase

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List at many 46 (#PO) Subject Matter Area	Feed Grain Production Systems
Commonity/Subject	Irrigation scheduling, Problem field diagnosis, No-tillage production systems, wheat
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Vernova Lagranit	Computer-assisted programs, demonstrations, publications, large-group presentation, workshops, newspaper, radio, TV

Enter Missurable Impacts Results - Keywords	Enter quantity (PC-1970) or Net 1997
*QUANTIFIED IMPACTS	
Irrigation improved	20,000 acres; computer software improved, set for release in 1987
Soil erosion reduced	300,000 acres corn planted without primary tillage; 100% of 1985 goal
Wheat productivity improved	30 vs 29 bu/ac
Wheat income earned (based on yields)	1.1 million additional income
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NC06

Improved Technology for Soybean Production in North Carolina

*TEXT

CONTROL NO.

North Carolina grows 1.65 million acres of soybeans with a farm value of almost \$300 million. Developments in new technology and understanding of soybean growth have raised potential soybean profits to well above the level that most growers achieve. Profit consequences of marketing and production alternatives, especially in pest management, were the focus of the educational efforts.

*OBJECTIVES

- To increase the number of soybean varieties grown on 1% or more of the state's
 acreage, to decrease the percentage of the acreage planted to varieties which were
 released 10 years or more ago, and to decrease the reliance on resistant varieties
 as a sole nematode control practice.
- 2. To increase the percentage of soybeans grown in rows narrower than 36 inches.
- To increase the percentage of soybeans grown as part of a planned rotation, to decrease erosion from soybean acres, and to decrease acres of soybeans grown on unproductive soils.
- To increase understanding of soybean productivity and profits, and interactions among management decisions.

* RESOURCES

County Agricultural Extension in 85 counties, with support from 15-20 Specialists and a limited number of special project technicians and part-time IPM scouts, represent the major manpower resource. No special funds were involved except as this program interfaced with IPM and pesticide education activities.

*ACCOMPLISHMENTS

From 1984 to 1985, number of varieties grown on 1% or more of the acreage increased from 12 to 15, and the percentage of acreage grown to 10-year old varieties decreased from 51% to 44%. Percentage of acreage grown in rows 30 inches wide or less increased from 46% to 52%, and the percentage grown as part of a planned rotation increased from 56% to 60%.

*EVALUATION

Practices and varieties used are from annual county agent surveys (100% response).

Variety yields are from N. C. Official Variety Test long-term averages, 1985 soybean and seed prices are from N. C. Agricultural Extension Service and N. C. Crop Reporting Service, and yields for various row widths are from N. C. Extension On-Farm Test results.

*FUTURE IMPLICATIONS

The greater production potential of the 1985 combination of varieties represented \$1,270,000 more income, at an increased seed cost of \$361,000. The greater yield potential of narrower row soybeans represented \$1,737,000 more net income. It is uncertain whether the increase in planned rotation acreage represented an increase in rotated acres or in planning, but either should improve profits. More profit potential remains to be developed from continuing this effort. No immediate changes in the existing Plan of Work are planned.

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*CONTACT

E. James Dunphy Crop Science Extension Specialist (Soybeans)

Box 7620, N. C. State University Raleigh, N. C. 27695-7620

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Crop Science Extension Specialists (Forego) | Project Security Sec

NCO9

North Carolina Forage Systems

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*TEXT

SITUATION

SETROL NO.

Forage crops are a major feed component of ruminant livestock productions systems in North Carolina, accounting for 50% to 90% of the feed units fed. Nevertheless, serious problems routinely occur in three general areas: forage yield, forage quality, and seasonal distribution of forage.

*OBJECTIVES

To provide technology transfer necessary to improve forage yield, quality and seasonal distribution. Resources Involved: publications (bulletins, leaflets, newsletters), mass media (radio, t.v., newspapers), video tapes, computer programs, field days, production meetings, field demonstrations, and training sessions. Special funding obtained for fescue endophyte program (forage quality). Cooperating agencies: SCS and NCDA.

*ACCOMPLISHMENTS

Hay yields increased by 20% and acres harvested by 5%. Perennial warm-season grasses planted in over 30 counties for improvement of seasonal distribution of forage. The N.C. Endophyte Testing Service established. Over 400 pastures in 65 counties have been sampled. An increase in awareness of forage quality as evidenced by a 25% increase in forage samples submitted to Forage Testing Lab.

* EVALUATION

Change in crop yields from NCDA Crop Reporting Service. Forage quality trends from sample numbers submitted to NCDA Forage Testing Service and Endophyte Testing Service. Seasonal distribution of forage from verbal feedback from county agents and farmers indicating a high level of interest in warm-season grasses.

* FUTURE IMPLICATIONS

There will be an increasing need for management systems that have potential for maintaining or increasing output while reducing production costs. Maximizing the use of efficient, low cost grazing systems has much to offer livestock producers in the Southeast. Emphasis will be placed on intensive grazing management in the future.

*CONTACT

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Keywords are words and onreads that others will use when searching the data liase. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase

*KEYWORDS

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NC

1983-1986

Agriculture and Natural Resources

Forage Crops

Forage yield, quality, distribution of forage

Farmers and ranchers, landowners, non-extension professionals and small

farmers

Computer assisted programs, demonstrations, publications and videos

Measurable Impacts Results — Measurable me ni er rechnemic en right entre

*QUANTIFIELD IMPACTS

Acres impacted 500,000

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Forage yield increase 20% increase

Forage quality 10% increase

Soil erosion reduced 200,000 acres

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*TITLES Program Title (include State Name in Title)

NC11

Turfgrass Management in North Carolina

*TEXT *SITUATION

CONTROL NO.

Turfs comprise about 1,000,000 acres in North Carolina with minimum annual maintenance costs of \$500 million. North Carolinians rely on turf for aesthetics, recreational and functional purposes. Timely and accurate information must be disseminated to encourage turf managers and homeowners to employ practices that result in efficient use of pesticides and natural resources. Service support groups must be informed of latest turf research. School athletic fields are typically poorly managed. *OBJECTIVES

1. Promote use of adapted grasses and pest management practices.

2. Demonstrate value of adapted grasses and proper management practices.

Provide service support groups with pertinent turf information.

Encourage use of IPM and conservation practices in turf.

*RESOURCES

Extension Agents, lawn care service personnel, golf course superintendents, commercial turf managers and sod producers.

*ACCOMPLISHMENTS

Publications, jointly developed by Departments of Crop Science, Entomology and Plant Pathology, released include:

Pest Management Manual - 64 page pest management guide for professionals;

Carolina Lawns - 32 page lawn care publication;

Overseeding Bermudagrass Turf - (16 pages);

4. Control of Moss and Algae;

5. Diseases of Cool Season Grasses and

Diseases of Warm Season Grasses

Newsletters for golf course superintendents and athletic field personnel written on an as-needed basis. Demonstration areas developed or improved in 12 counties and state fairgrounds.

Workshops and demonstrations presented at N. C. Turf Conference and Field Day with

800 and 700 participants respectively.

*FUTURE IMPLICATIONS

Efforts will be made to expand the audience receiving bulletins. Additional publications will be developed. Demonstration plots will be initiated in other counties and support publications developed. Additional research and demonstration plots planned to further refine the annual bluegrass management program.

Dr. Arthur H. Bruneau Crop Science Extension Specialist (Turf) Box 7620 Raleigh, N. C. 2769-57620

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Agriculture and Natural Resources

Subject Matter Area Turfgrass

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Adults, adult volunteers, cooperatives, distributors, farmers, homeowners, managers, non-extension professionals
Computer assisted programs, demonstrations, meetings, newsletters,

Measurable impacts/Results - Weasurable social of economic consequences

newspapers, publications, radio, TV, slides

CUANTIFIED IMPACTS : ***

Improved Turf Management

Turf Managers' trained

Service Support Personnel trained

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Program Tide Unclarde State Name in Title! SONTROL NO.

NC13

Integrated Pest Management for Field Crops, Horticultural Crops, Poultry and Livestock in North Carolina

*TFXT

*SITUATION

Profitability for producers continues to decrease due to increasing cost of production and losses due to pests. With proper planning and monitoring, grower expenses could be minimized while maintaining or increasing production. Pest problems in poultry and livestock decrease egg, milk, and meat production and increases production costs. Swine are impacted via less pigs reared per sow and less weight gain with poor feed efficiency.

*OBJECTIVES

To help producers use management tactics to minimize potential pest problems and increase profitability. Use monitoring and economic thresholds as the basis upon which pesticide decisions are made.

*RESOURCES

Professional staff involvement equals 10 FTE; paraprofessionals time equals 30 FTEs. Funding support is from Smith-Lever 3 (d) allocations; state CES funds, commodity group grants and grower contributions.

*ACCOMPLISHMENTS

Commodities include alfalfa, apples, Christmas trees, corn, cotton, Irish potatoes, peanuts, small grains, soybeans, tobacco, tomato, horticultural crops, Urban, poultry and livestock. There were 32 counties involved in IPM training and demonstration. Demonstration projects were conducted on 26,000 acres of crops, 62 homesites, and 850 turfsites. Over 300 poultry and swine site contacts were made to train producers in IPM techniques. Field training was held for soybean and peanut agents at IPM plots. The number of county grower meetings, discussing pest management, has increased. Agents report that the number of growers scouting and treating as needed has increased (up to 80% in some counties).

Between 5-70% of growers are using one or more IPM practice in field crops. In one county on potatoes 100% of the growers were using up to three IPM techniques resulting in a savings of \$128,000. Implementation of an automated leafspot forecasting system resulted in a \$10-15/acre savings (1-2 treatments of fungicides) in peanuts. Up to \$25/acre savings on fertility programs and \$15/acre on diseases in peanuts. Nematode and fertility sampling has increased (in one county by 400%). Savings on nematocides of up to \$40/acre on tobacco due to sampling and treating according to need. Growers using IPM techniques in field crops report savings of \$4-20/acre. One county grower survey reported that 65% of the growers saved \$4-10/acre and 24% saved \$11-20/acre on pesticide costs.

*EVALUATION

Grower surveys, agent reports, direct observation.

*FUTURE IMPLICATIONS

Additional emphasis is necessary on yield improvement within the IPM program. The continued inclusion and strengthening of crop management willbe stressed to improve yields and prevent pest problems.

*CONTACT * A THE RESIDENT ADMITTERS AND THE ENGLISH PARKETS A THORSE OF WHITE A LINE OF A LINE AND A SECRETARY AND THE ALL

H. Michael Linker Extension IPM Coordinator Department of Crop Science Box 7620

Raleigh, N C 27695-7620

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Program Title (include State Name in Title)

NC14

Prudent Use and Management of North Carolina Soils for Agriculture, Forestry, and Urban Development

*TEXT
*SITUATION

Because of N.C. soils in their natural uncropped state are infertile, large amounts of lime and fertilizer nutrients have been applied to produce profitable crops. Some fields will continue to need selected nutrients and lime; most fields need to be evaluated to establish modifications in fertilization programs for several years.
*OBJECTIVES

The primary objective of the soil science extension program is to assist farmers, foresters, landowners and other publics with implementation and continuation of wise land use practices. Specifically, farmers will be strongly encouraged to complete wise fertilization and liming practices for maximum net income and production efficiency and preservation of a high level of environmental quality. It is also expected that income from crops and livestock will be increased. *ACCOMPLISHMENTS

Soil sampling trends, supplied by NCDA show that sampling (and soil testing) have increased:

Year	Number	Year	Number
78-79	155,000	82-83	210,000
79-80	176,000	83-84	230,000
80-81	220,000	84-85	229,145
	and the same of	85-86	207.661

85-86 207,661 (17.2% Home Ground) Since 1980, potash material has increased from 235,913 tons to 245,030 tons. Lime use is as follows: 80-81, 1,530,287T; 81-82 1,029,332T; 82-83, 602,655T (PIK program); 83-84, 866,668T; 84-85, 918,116T; 85-86, 666,000T. Conservation tillage (CT) for crop production has increased. In 1985 there were 1,524,243 acres or 29.4% of the crop acres in N.C. in some form of CT.

*CONTACT 2 * To the control of the state of the control of the con

Jack V. Baird Soil Science Extension Box 7619, N. C. State University Raleigh, NC 27695-7619

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Impraved Diversity, Quality and Anodoretian Efficiency at 130 NC

1986

Agriculture and Natural Resources

Agronomy

Soils, soil fertility, land use

Farmers, agribusiness

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Demonstrations, meetings, newsletters, slide/tapes, tours, news media

Measurable impacts. Results - Measurable month or a one mis consequences.

*QUANTIFIED IMPACTS

Soil sampling

Potash

Lime use

Conservation tillage 1,524,243 acres

207,661 samples

9,000 tons increase

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666,000 tons

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Program Tide (Include State Name in Title)

NC15

Improved Diversity, Quality and Production Efficiency of North Carolina Grown Floral and Nursery Crops

*TEXT

*SITUATION

CONTROL NO.

The combined wholesale value of floral and nursery crops in North Carolina is approximately \$150 x 10^6 dollars per year. These crops are produced by over 1,300 greenhouse operators and 2,100 nurserymen. Production area for floral crops is in excess of $14x10^6$ ft. of greenhouse space and over 5,000 acres for nursery crops. Both industries are suitable for small or part-time farmers and are therefore attractive means for providing supplemental income. These disciplines are very competitive and the costs of labor, energy and supplies continues to spiral upward. Emphasis must be directed toward mechanization, increased plant quality, increased diversity, marketing and market expansion and increased productivity of these farming ventures are to remain viable.

*OBJECTIVES

1. Increase basic knowledge of pest identification and control.

Increase adherence to quality standards (AAN).

 Decrease production costs for containerized nursery crops by 10% and field grown plants by 15%.

4. Reduce hand labor costs by 5%.

5. Promote computerization of record keeping.

Increase availability of production technology.

*ACCOMPLISHMENTS

The Flower Growers Shortcourse, Holiday Pot Plant Day and Bedding Plant Field Day had a combined attendance of over 600 greenhouse operators and employees. The Nursery Crops Nutrition Workshops had combined attendance of over 170 people. Balling and Burlapping workshops were attended by 63 nurserymen and shearing demonstrations were held at four locations. In-service training for agents had an attendance of 23 agents. Budding workshops held in Marshall and Carthage were attended by 36 nurserymen and seedbed demonstrations were attended by 118 nurserymen and prospective nurserymen. A marketing workshop was attended by over 50 growers and agents.

*CONTACT: + to see land of the \$ is perfectly and the property of the property

Drs. V. P. Bonaminio, J. W. Love, W. A. Skroch, Mr. R. Bir, Mr. M. A. Powell Extension Horticulture Specialists
Box 7609, N. C. State University

Raleigh, N. C.

27695-7609

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1986

Agriculture and Natural Resources

Cultural Practices was done in the standard of the standard of

Floral Crops, Ornamentals, Nursery Crops

Farmers, Nurserymen, Greenhouse Operators, Extension Agents

Workshops, meetings, shortcourse, on-farm demonstrations and tests publications, Proceedings

Measurable Impacts/Results — Measurable social as of mainly consequences

Enter Majorable Impacts/Results — Keywords

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*QUANTIFIELD IMPACTS

Improved skills in budding

Increased plant availability

Improved plant quality

118 nurserymen learned how to maximize seedling production 36 nurserymen can now bud own nursery crop plants

The crop is valued at hupreximately \$15% at live.

7 nurserymen producing liners and seedlings for sale

63 nurserymen aware of AAN standards

Expenses Time (FTE) on Program *EXPENDED_FTE= 1			*VOLUNTEER			*SCOPE
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Program Tide Unclude State Name in Title!

NC16

Improved Production and Marketing of Vegetable Crops

*TEXT

*SITUATION

CONTROL NO.

North Carolina produces about 25 different vegetable crops on an estimated 186,000 acres. The crop is valued at approximately \$194 million. Increases in total value of vegetables is expected to continue at about 10% each year. Major problems are poor stands, poor quality transplants, excessive guesswork in fertilizer and pest control and a lack of postharvest knowledge. Very little attention is given to optimizing yield and minimizing costs. Drought has been a problem for the past two years. *OBJECTIVES

1. Improve production and marketing technology; increase production efficiency.

a. Increase by 50% acreage grown with plastic mulch.

b. Increase by 25% acreage grown from container-grown transplants.

c. Increase fertilization by soil test by 20%

2. Increase acreage under improved water management practices. a. Increase acreage under irrigation by 100%.

b. Increase acreage of vegetables planted on raised rows.

3. Increase by 30% the number of packing facilities with cooling capabilities.

4. Improve pest control procedures and costs.

a. Increase acreage of vegetables under Integrated Pest Management by 15%. b. Reduce the costs of pest control by 15%

*ACCOMPLISHMENTS

Vegetables grown on plastic mulch and trickle irrigation has increased 50% from 1555 acres in 1984 to 2340 in 1985, with an estimated value of \$1.2 million. Integrated pest control has resulted in:

1. Controlling cercospora leafspot in asparagus; increased income by \$180 per acre over 800 acres for a total increase of \$144,000.

2. Increase of 10% of potato acreage (1600 acres) utilizing IPM procedure resulting in

a \$60 per acre savings in spraying for a total of \$576,000.

The number of new crop-cooling facilities has increased by more than 18% for a current total of 45. The value of the increased volume of precooled produce is estimated to be 1.0 million dollars. Acreage of vegetables grown from container-grown transplants have increased from 3276 to 3796 in a single year for an increase of 16%, valued at \$400,000. The number of growers fertilizing by soil tests has increased by 5%. The percent of vegetables planted on raised bed increased by 5% for an increase of 8900 acres.

*CONTACT

D. C. Sanders, L. G. Wilson, Larry Bass, W. J. Lamont, A. R. Bonanno, E. A. Estes, C. W. Averre, K. A. Sorensen.
Box 7609, N. C. State University Raleigh, N. C. 27695-7609 (919) 737-3283

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Fiscar Pearls) Programs Alexisi (List as many as apply)	1984-87 Agriculture and Natural Resources
Supject Matter Area	Cultural Practices, Postharvest handling, Pest Management
Commiss to Suggest	Vegetable Crops
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	roduction and frost/freeze damage are similar. In 1986, severe sim

Enter Westurnale reposite Results - Keywords	build britten explained when the many of the fall that
*QUANTIFIED IMPACTS	lectors quality of apples,
Plastic & drip irrigation .8821 at gallowerg bavi	785 acres - \$1.2 million
Irish potato production costs reduced by IPM	Irish potatoes - \$576,000
Increase income from IPM	\$180/A (800A.) Total \$144,000
Precooling facilities increased	Estimated value of \$1.0 million
Container-grown transplants	16% increase - \$440,000
Raised bed culture	3% (8900 acres increase)
Fertilizing by soil test	5% increase
	LIBELLING Summissional Comments

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Program Title Unclude State Name in Title;

NC17

Improved Production Efficiency and Fruit Quality in North Carolina

*TEXT

*SITUATION

CONTROL NO.

The number of N. C. grape vineyards declined from 282 in 1976 to 160 in 1983. Further reductions are expected as average yield per acre remains at about 3½ tons. High quality western CA apples, along with intensive promotions, have recently exerted pressure on N. C. apple growers to improve their fruit quality and marketing strategies or face potential 50% loss of production within five years. North Carolina blueberry growers face a similar prospect from new blueberry acreage in Florida, Georgia and Årkansas.Spring frosts have reduced yields of fruit crops in the past six years (1980-86). There have been only two crops for peaches,--100% in 1984 and 50% in 1986. Spring frost in 1982, 1983, 1985 and 1986 limited apple production to an average of 50%. Small fruit production and frost/freeze damage are similar. In 1986, severe spring and summer drought conditions further reduced yields for all fruit crops. *OBJECTIVES

1. Increase by 40% the percentage of pre-cooled blueberries by 1987.

2. Increase frost and freeze protection systems by 25% by 1987.

3. Increase yield of grapes and blueberries 15% by 1987.

Increase number of producers who implement pest management technology.

5. Improve quality of apples.

*ACCOMPLISHMENTS

60% of harvested blueberries received precooling in 1986.

2. Blueberry irrigation increased from 150 acres in 1983 to 400 acres in 1986. Irrigated yields were about 8000 lb/A compared with 1500 lb/A without irrigation.

3. Muscadine grape pruning costs reduced by 50% with mechanical pruning (90 ha.

impacted directly).

- 4. IPM monitoring of blueberry maggot flies eliminated one spray at a cost of about \$10/acre. Apple acreage under the AMAS program in Haywood increased 8%. In Henderson County, two computer-assisted pest forecasting systems were established
- 5. The apple maturity program was continued in the four major apple producing areas of North Carolina. Seven growers are participating in a cost-of-production study.

*EVALUATION

Agent surveys to determine:

1. Blueberry preshipment cooling.

2. Systems for frost protection in orchards and berry plantings.

3. Producers implementing pest management practices.

4. Yields of grapes and blueberries.

Pack out percentages of USDA grades in apples and impact of maturity program.

*FUTURE IMPLICATIONS

Consistent crop production, improved and uniform quality and orderly marketing are major challenges facing North Carolina fruit growers. Grower acceptance of approved production practices needs to be emphasized in future extension efforts.

*CONTACT 1 * Agent, one one of adding residence of a Contact or and a few sections of the section of the sectio Drs. F. B. Poling, K. M. Williams, C. M. Mainland Department of Horticultural Science Box 7509, N. C. State University Raleigh, N. C. 27695-7609 (919) 737-3283

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Subject Matter Area	Cultural Practices, Postharvest handling
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Megacas	Workshops, on-farm tests, meetings, tours

*QUANTIFIED IMPACTS CT 3	esting a cadra or trained volunteers	
Improved fruit quality through cultural practices.	10%	sonuba MSE na
Increased use of irrigation	15%	
Increased IPM adoption	5%	
Increased precooling of blueberries	60%	1888 ·

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Grootam Title (Include State Name in Title) CONTROL NO. | The North Carolina Master Beekeepers Program: A System to Upgrade Skills of N. C. Beekeepers and Increase Public Awareness of Beekeeping

NC22 *TEXT

*SITUATION North Carolina has the 4th largest number of beehives (187,000) and probably the largest number of beekeepers (22,000) in the U.S. The annual value of honey and beeswax production is \$5.6-\$6 million and the value of pollination services to crops is over \$30 million. The N.C. Master Beekeeper Program was initiated in 1983 to serve as an umbrella for all NCAES programs in apiculture and to maximize the effectiveness of available resources. The N.C. Master Beekeeper Program is a 4-step program which provides interested beekeepers with classroom and hands-on practical experience in a progressive sequence that allows each individual to progress at his own rate to his own level of expertise. Individuals must pass standardized written and practical tests at each level of the program before advancing to the next step. In addition, higher level participants are required and are performing public service work under the guidance of the NCAES before they may advance to the highest levels of the program. The program is cosponsored and supported by the NCAES, the N.C. Department of Agriculture, and the N.C. State Beekeepers Association.

*OBJECTIVES

To increase educational offerings of the NCAES without increasing allocated resources while creating a cadre of trained volunteers through the N.C. Master Beekeepers Programs who will service both the beekeepers and the general public.

*RESOURCES

Over 90% of second level have indicated a willingness to serve as ongoing volunteers. Over 60% completing the first level volunteer their time and knowledge. Both the N.C. Department of Agriculture and the N.C. State Beekeepers Association provide manpower in administering the educational activities of the program. *ACCOMPLISHMENTS

1. 1,824 individuals enrolled in the N. C. Master Beekeepers Program

893 beekeepers completed first level of program (Certified Level) and 3/4 of those participants have opted to continue in program and to become volunteers for NCAES.

3. Skills and knowledge of 319 beekeepers have been raised to Journeyman Level (second level) of the Master Beekeeper Program and all have volunteered their time and knowledge to other beekeepers and the general public.

Eight individuals completed all requirements of Master Level (third level) of program and actively involved in volunteer work to provide information on bees and

beekeeping to public and school children.

Beekeepers completing Master Beekeeper Programs have performed a total of 2,424 units of public service work, involving over 11,500 hours of volunteer service and reaching an audience of over 37,000 beekeepers and non-beekeepers (excluding programs at mass gatherings such as the N.C. State Fair).

* IMPLICATIONS

1. Three states have adopted the program almost in its entirety.

Eight Master Level involved in extension programs with an emphasis on programs to school groups.

3. Over 200 non-N.C. residents broaden the scope of the program outside North Carolina.

The property of the second of

*CONTACT

Dr. John T. Ambrose Extension Apiculturist Box 7625, N. C. State University Raleigh, N.C. 27695-7626

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Commodity Subject	Entomology, Beekeeping				
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Programs prese	ented	2,424			

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NC24

Farm Structures in North Carolina

*TEXT

*SITUATION

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Proper housing facilities and environmental management maximizes production output of farm animals. For example, although 18 pigs per year is a reasonable number for swine production, North Carolina averages only 13 pigs per sow per year. Swine and poultry losses can be reduced with properly heated, ventilated, and constructed facilities. At the same time energy requirements can be reduced, with renewable (wood) resources used in many cases.

*OBJECTIVES

Producers will improve livestock facilities, and thereby

1) decrease losses of livestock by 10%, and

2) decrease energy costs for livestock housing by 10%.

*ACCOMPLISHMENTS

Approximately 800 producers remodeled swine facilities.

Over 300 new buildings were constructed.

Three building plans were revised.

Two popular articles were written.

A 10% increase in pig production was achieved.

*CONTACT

L. Bynum Driggers, Extension Specialist Biological and Agricultural Engineering Box 7625, N. C. State University Raleigh, NC 27695

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*KEYWORDS

NC 24

NC

1986

Agriculture and Natural Resources

Farm Structures

Swine

Extension agents, producers, agribusiness and other agencies

Publications, demonstrations, farm visits, mass meetings, direct communication

Measurable Impacts/Results - Measurable in cold-in communic consequences

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*QUANTIFIED IMPACTS

Remodeled swine facilities	10% of producers or approximately 800		
New buildings constructed	Over_300		
Building plans	Revised 3 plans		
Other publications	2 popular articles		
Pig production	10% increase		

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Program Tigle (Include State Name in Tigle)

NC31

Agricultural Waste Management in North Carolina

*TEXT

CONTROL NO.

*SITUATION

N. C. is one of the nation's leaders in livestock and poultry production. About 21 million wet tons of manure are produced annually containing 162,000 tons of N, 105,000 tons of P_2O_5 and 98,000 tons of K_2O . As more urban growth occurs in outlying rural areas, a premium is placed on land, air and water resources. Economically depressed livestock and crop farmers also need to consider every opportunity to reduce their costs of production.

*OBJECTIVES

To develop, refine and implement livestock waste collection, handling, treatment and utilization methods to provide improved waste management systems which optimize farm production while avoiding excessive degradation of air and water quality.

*ACCOMPLISHMENTS

About two million dollars have been spent by farmers in three designated nutrientsensitive watersheds (15 counties) to improve their waste management system or install conservation practices. About 160 farmers (45% increase over 1984-85) had over 340 (161% increase) livestock and poultry waste samples analyzed for nutrient content through the NCDA lab. About 300 dairy farms now have liquid manure storage systems in place. By using these containment systems in conjunction with sound land application and agronomic practices, a 100-cow dairyman can realize an annual \$3-5000 savings in fertilizer expenditures. 20% of those dairy farms would have saved roughly \$260,000 in fertilizer during the past year. About 30-50 dairy farms now have vegetative filters in place for feedlot runoff control and wastewater treatment. Assuming 1/3 of these systems were installed this past year, about \$110,000 less was spent when compared to alternative runoff control systems. An estimated 100 swine producers have installed underfloor pit recharge systems for an improved in-house environment and improved animal performance worth roughly \$500,000.

In-service training workshops were conducted for a total of 65 extension agents and 55 SCS engineers and agribusiness leaders in the areas of swine manure management, nutrient sensitive watershed conservation and pollution control, and land application of wastes through travelling irrigators. Completed waste management related publications include six refereed articles, one professional paper, two extension publications, two conference proceedings articles, one newsletter article and two magazine articles.

*FUTURE IMPLICATIONS

Emphasis will continue to be put on increasing the amount of agricultural cost share monies for conservation and expanding this program to other parts of the state. More custom application of manure to land will be encouraged. Efforts will continue to focus on how to reach an estimated 10,000 farms in N. C. that need to upgrade their waste management systems and practice proper land application procedures.

*CONTACT

Dr. James C. Barker Biological & Agricultural Engineering Box 7625, N. C. State University Rlaiegh, N. C. 27695-7625

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Program Title Unclude State Name in Title)

NC37

CONTROL NO.

Breeding, Management and Marketing of Equine in North Carolina

*TEXT *SITUATION

The N C Horse Industry is a major agricultural enterprise consisting of a diversified breed population in excess of 200,000 head on over 53,000 farms. Management skills are limited in a large percentage of the business and hobby horse owners. Limited knowledge in feeding, breeding, health, marketing and selection has contributed to management problems which affects the productivity, size, number and potential earnings or money saved in business and hobby horse operations. The more than 5,800 youth horse projects contributes substantially to the growth of the N C Horse Industry.

*OBJECTIVES

To increase level of production and business management of horse owners by 15% by educating 6,000 horsemen from 1984-87 in a series of educational conferences. RESOURCES

Equine owners, breeders, trainers, farm managers, veterinarians, tack shop owners, equipment manufacturers, volunteer 4-H leaders.

*ACCOMPLISHMENTS

- 1. 18,351 horsemen contact horses logged in 70 conferences
- Percentage of horsemen adopting new practices --- 62% Percentage of horsemen improving management ---- 58%
 - Potential money saved or earned --- \$406,000.00

*EVALUATION

Survey of conference participants.

FUTURE IMPLICATIONS

Conferences offered by counties for three or more years will be taught advanced management techniques emphasizing money saving practices. Educational conferences will continue to expand into non-participating, heavily populated horse counties.

*CONTACT

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1336

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Program Tigle Unclude State Name in Tigle!

NC38

Market and Breeder Turkeys in North Carolina

*TEXT *SITUATION

One primary turkey breeder supplies 95% of turkey breeding stock to North Carolina producers. During the past three years, through genetic selection, this strain of turkey has experienced an increase in body weight of 2-3 pounds at normal market age. At the same time, reproductive performance of this strain has declined by 3-5 eggs/hen. These genetic changes have resulted in changing requirements for housing space per bird, nutrient requirements and management to prevent "leg disorders."

During 1986, the North Carolina turkey industry expanded by approximately 20% to 39 million turkeys. This increase necessitated construction of 2.6 million square feet of new production facilities.

1. Improved housing, increased amounts of insulation, addition of fans and foggers;

 Maintaining or improving reproductive efficiency through improved housing, increased floor space for breeding stock;

 Conduct an applied research program designed to improve performance of market turkeys.

*ACCOMPLISHMENTS

Ninety percent of all turkey facilities constructed during 1986 included fans, foggers, and increased insulation.

Conducted three applied-type studies related to improved performance of meat-type turkeys.

1. An evaluation of corn, wheat, and barley in turkey diets;

2. Effects of treated vs untreated corn (mold inhibitors) in turkey diets;

3. Bacitracin and Flavomycin as growth promotants in market turkey diets. Results of these studies have significantly reduced feed costs per pound of live weight (approximately 1.0¢/lb. or \$3.8 million). *EVALUATION

Production data obtained from individual and integrators involving 12 million turkeys. *FUTURE IMPLICATIONS

Continued emphasis in these areas will further reduce costs of producing market turkeys.

*CONTACT * " North Hall's * \$7 month of the Art - Art

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NC39

Broiler Chick Production in North Carolina

*TEXT

*SITUATION

Success in genetic improvement of rate of growth and feed conversion of broiler strains in recent years has altered reproductive performance of broiler parent flocks. Higher parental antibody titers and better flock biosecurity have become avenues to broiler health. Increased attention to hatchery management is necessary. Since North Carolina produces more than 20% of the nation's broiler hatching eggs and more than 10% of her broiler chicks, the potential impact of Extension programs therefore is significant. *OBJECTIVES

Conduct a coordinated extension program in broiler chick production to:

Have 45% broiler breeder flocks in North Carolina fed to specific nutrient needs;
 Have 95% of broiler breeder flocks utilize improved lighting programs to maximize reproductive stimulation;

3. Establish hatching egg quality assurance programs;

Establish biosecurity and vaccine programs to improve broiler health; and
 Assist with and provide information exchange for field testing egg handling practices that minimize labor and contamination.

*RESOURCES

Poultry growers, integrated broiler companies, and equipment companies. **ACCOMPLISHMENTS

There were increased use of biosecurity and vaccine programs by five integrators in central North Carolina. Ninety percent of the breeder flocks utilize the blackout program increasing net income over \$5.5 million. Five hatcheries have improved hatching egg quality assurance programs to maintain and/or improve chick productivity. Field tests were initiated on mechanical nesting equipment to help in labor efficiency. *EVALUATIONS

Personal, informal, and confidential survey

*FUTURE IMPLICATIONS

Continued emphasis on recommended practices will maintain or increase net income to broiler producers.

*CONTACT

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1986

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*OUANTIFIED IMPACTS

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Increased biosecurity and quality assurance

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Program Tide Unclude State Name in Title)

NC41

Commercial Eggs and Pullets in North Carolina

*TFXT

*SITUATION

CONTROL NO.

Genetic changes in commercial strains of leghorns have resulted in earlier maturing pullets. These changes have not been compensated for by changing nutrition and/or management.

When multi-age layer flocks are exposed to Mycoplasma gallisepticum (MG), it is difficult to eradicate without clean up, vaccination, and isolation. A few MG positive multi-age layer flocks exist in North Carolina and are reservoirs of MG to potentially spread to other poultry flocks.

Production and processing of table eggs is highly capital intensive; consequently, there is considerable potential impact of Extension programs in investment analysis, business management, flock replacement schedules, and housing and equipment management.

*OBJECTIVES

1. Increase growth uniformity and egg quality of layers;

2. Reduce the incidence of MG in commercial pullets and layers from 5% to 1%;

 Improvements in performance, product quality and profitability of layer strains in different house type, equipment, management, and market combinations so that profit is optimized.

*ACCOMPLISHMENTS

Higher pullet phosphorus levels have been shown to increase early egg production. Area, statewide and natural meetings have been used to implement this improved practice. Several subtle strain and environmental response to induced molting have become evident. Individual producer contact and field evaluation of modified programs have indicated a need for improved molting recommendations in some situations. A survey of electrical usage by the layer industry revealed lighting as the major energy use. Fluorescent lighting has a potential of 25% savings in electrical usage. Newsletters, area, and state programs are being used to inform producers of this improved service.

Survey of producers and industry

*FUTURE IMPLICATIONS

Increased emphasis will be given to the promotion of practices to improve the productivity of commercial egg and pullet producers.

*CONTACT

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JONTHOL NO.

*TITLE: Program Title (Include State Name in Title)

NC42

Farm Management and Marketing of North Carolina Agricultural Commodities

*TEXT

*SITUATION

U. S. farmers face decreasing prices, increased costs and dwindling profits. For the next several years, the farm sector will be confronted with acreage restrictions, record farm debt, stable or decreasing land values and severe cash flow problems. Farmers need to improve their farm management ability to survive. *OBJECTIVES

Adoption of business and financial management by producers.

*ACCOMPLISHMENTS

Managing for Tomorrow has 4 major thrusts: awareness for agencies within government and community, county level training, agent and specialist training, and information and media support.

1. In two 3-day training meetings, 171 agents trained in farm and family financial management. Resource notebook and slide sets developed. Slide-tape set won

Outstanding Packaged Program Award.

2. 25 area and county agents and specialists trained (2 days) in taxation of

bankruptcy, foreclosure, and liquidation.

26,792 persons attended 589 county training meetings in eastern half of N. C. on financial management; material presented to 863 members of 12 statewide organizations.

4. Total of 2,073 phone calls received via toll-free Teletip system requesting 3-minute recorded message on financial management topics and referral agencies. N. C. Farm Hotline received 574 calls handled by management assistance teams.

5. County referral networks established: lawyers, employment agencies, lenders,

ministers, and Extension staffs.

6. In a 4-county area, 20 farmers began or improved record keeping; 130 grain farmers saved over \$380,000 in land rentals due to Cost of Production Analysis training; 119 tobacco farmers saved over \$1.3 million in rental fees because of Cost of Production Analysis meetings.

7. 1500 tax preparers attended 2 days of training. Improvement in 400,000 federal

tax returns resulted, according to District IRS representatives.

*EVALUATION

Survey, records, and data by clientele.

*CONTACT 2 * Terres pages to . Aguinest analysis for the fig. Talket presents

Charles L. Moore, Sr., Extension Economist in Charge Box 8109, N. C. State University (919) 737-3107 Raleigh, N. C. 27695-8109

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words, in addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with accomma — to not abbreviate keywords.

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Program Tigle (Include State Name in Title)

NC43

Natural Resource Economics

*TEXT

*SITUATION

CONTROL NO.

Extension assists with several land- and water-based resource problems/opportunities. including a large commercial mountain trout industry in western N. C., the potential for culturing salt water species, commercial fishing industry on the N. C. coast, land drainage in coastal N. C., soil and water conservation, and agribusiness management for resource-based firms. Specific problems include

Growth of mountain trout industry from a recreational market to food-fish markets,
 Insufficient information regarding payoff to draining coastal soils for tree or

crop production and accompanying potential environmental costs, and

Private and social costs to managing soil erosion.

*OBJECTIVES

Increased sales and distribution areas for mountain trout.

Clientele will make informed production and policy decisions regarding land clearing and drainage and soil conservation.

*ACCOMPLISHMENTS

Two training sessions for directors of Trout Growers Association on evaluation of profitability, securing grower support, and expanding market opportunities. Trout is leading income producer in 4-6 mountain counties. Trained Division of Marine Fisheries staff in economic analysis of bay scallop industry and presented study results: resulted in hearings of Marine Fisheries Commission to delay opening of fishing season in N. C. waters. Potential impact \$250,000 annually for N. C. fishermen. Trained 100 agents and 445 ASCS, SCS, FmHA, and FCS personnel on conservation provisions of 1985 Farm Bill. Worksheets to assist in calculating bid prices were developed and used by agents. Trained 50 agents in 15 counties in nutrient-sensitive watersheds on conservation practices to prevent pollution. Expansion in 18 more counties has resulted. Trained 25 agents on economic incentive programs and trained 280 farmers on land use policy in 5 N. C. counties. Assisted TVA in distributing over \$86,000 to 17 mountain counties to be used for conservation practices, no till pasture renovation, aerial application of fertilizers.

*EVALUATION

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Program Title Unclude State Name in Title!

CONTROL NO. NC44

Agribusiness Management and Marketing

*TEXT

*SITUATION

Production agriculture depends upon the complex and interrelated services of the agribusiness sector. The agribusiness sector is vital to the efficient functioning of rural communities and the rest of the food and fiber processing industry in the state. Cooperatives form a specialized and highly organized sub-sector of agribusiness. Educational needs of this sector lie in business management techniques, taxation, transportation and financial management. *OBJECTIVES

Agribusiness managers and decision-makers will

Understand principles of business management, finance, personnel, taxation, transportation, and strategic decision-making

Understand agribusiness functioning and interrelationships with the general economy

Apply principles as appropriate to their situation RESOURCES

N. C. Cooperative Council, agribusiness firms, local cooperatives.

*ACCOMPLISHMENT

1. Educational programs with craft persons resulted in increased information on personal business and tax management. Most craft persons reported net savings of \$200-\$500. Estimated total increase in expendable income of \$300,000. Estimated training cost \$5,000.

2. Twenty-eight new vo-ag teachers received training in cooperative business and teaching materials for classroom use. Estimated cost \$50. Over 2000 students will

be reached by these teachers.

Sixty-two cooperatives in North Carolina serve over 600,000 members. Provision of educational programs to employees, directors, and members should result in at least \$1 per member saving during the year. Savings - \$600,000. Cost of training - \$20,000.

Forty-three new employees trained in basic cooperative principles indicated on their evaluations that the course greatly improved their skills and would result in improved job performance.

4. Publications on product pricing and how to start a new business were published and used with new business clientele and county extension staff.

* EVALUATION

Records and data provided by clients.

*FUTURE IMPLICATIONS

Sist remot replace. Soundle printings

Continuing emphasis on management practices will be given to emerging clientele groups, such as rural small business, local business development groups and craft persons.

*CONTACT

chiels an 750 Male : • Teophice (maluum are), male or as, malum • Éire missia mass (C. s. m. a. d. e.e. Robert D. Dahle, Extension Economist, Business Management Extension Economics and Business Box 8110, N. C. State University

Raleigh, N. C 27695-8110 (919) 737-2885 Reviewents are words and phrases that others will use when searching the duta base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with programs as in any absence a keywords.

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Program Title (Include State Name in Title)

NC52

North Carolina Agricultural Policy Education

*TEXT *SITUATION

CONTROL NO.

The mid-1980's are years of significant agricultural policy changes. Federal tobacco and peanut programs are under heavy fire. The federal dairy support program is currently under review, and program changes seem likely. Federal outlays for farm programs have been increasing each year since 1982. The 1985 Farm Bill is likely to introduce changes in farm policy that will affect the ability of N. C. farmers to survive financially.

To provide information about current and proposed agricultural policy and programs.

2. To provide economic analyses of agricultural commodity programs and policy

 To educate North Carolinians about costs and benefits of various commodity programs and agricultural policies.

*ACCOMPLISHMENTS

1985 Farm Bill educational programs were conducted before 38 audiences. Wheat and feed grain provisions were discussed before over 500 farmers in 10 locations. An additional 140 lenders, agribusinessmen, and Extension agents attended state Outlook and Policy Conferences. Microcomputer software was developed and distributed to all 100 counties to evaluate participation decisions. Three newsletter issues, with over 3000 circulation, were devoted to Farm Bill and Agricultural Policy. Educational material on utilization of PIK certificates has just been developed and distributed to all agents with such commodity responsibilities. Tobacco policy training was conducted in 19 locations for over 1600 producers where it is reported that over \$350,000 was saved in evaluating tobacco rents. Fifty dairy agents were trained in provisions of the Milk Production Termination Program. Twelve regional training meetings were attended by 700 lenders, farmers and agents. Forty percent of the Grade A dairymen attended MPTP training (480). Worksheets and computer routines for bid calculations developed nationally were used to assist producers with MPTP decisions:50 agents trained.

*EVALUATION

Clientele and agent responses and seminar attendance.

*CONTACT = *Translang time * Address property Zin in on, * Toponize (anchores) in a 4- transland in the first only made in

Charles L. Moore, Sr., Extension Economist in Charge

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Program Title (Include State Name in Title)

CONTROL NO NC56

Introducing New Processing Technology into the North Carolina Food Industry

*TEXT

*SITUATION

Numerous small food firms in North Carolina require technical assistance from Extension personnel. Even though larger firms have technical staffs, they also depend on assistance in specific areas. Many are "making-do" with old equipment and processing systems. New processing methods have been introduced to industry for improving product quality and/or productivity. Establishing quality assurance programs are needed. Management requires encouragement for the needs and requirements of quality assurance programs.

*OBJECTIVES

Small food firms to which technical assistance is given will:

1. improve product yields, process efficiencies, employee performance, raw and finished product acceptability, utilization and conservation,

2. maintain a quality and economical food supply and decrease the man hours required to

produce each unit of finished product.

* ACCOMPLISHMENTS

Food processing firms including management and employees benefit through workshops (55) that recommend inplant process changes. Benefits were improved yields (.5%), increased plant operating efficiency (10% less man hours) etc. Also employees were recognized with certificates (1561) for their participation in certification and food training programs. Economic studies and surveys encouraged food firms to conserve energy and other natural resources that reduce processing costs (increased profitability by 10-15%) and at the same time improved product quality (0.5%) and food safety.

*CONTACT Fred R. Tarver, Jr. Extension Food Science Box 7624, N. C. State University Raleigh, N C 27695-7624

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. Program Title Unclude State Name in Title)

CONTROL NO.

NC64

North Carolina Christmas Tree Marketing and Production

*TEXT: *SITUATION

Continued strong demand for N. C. Christmas Trees has developed an industry of some 3500 growers in 60 counties. Approximately 100 are full time. Artificial trees continue to erode the real tree market due to price and quality at the consumer level. Direct on farm sales and local delivery of fresh trees to retail lots is having a positive impact on regaining real-tree markets in North Carolina. It is estimated that 80 percent of future harvests must compete in national markets. To develop new markets growers must be able to communicate with retailers, consumers; determine competitive quality and price relationships and insure the market of a long-term stable supply.

*OBJECTIVES

 Reduce the time it takes to produce marketable trees by adopting best available cultural practices.

2. Penetrate new regional markets.

Improve the managerial skills of farmers to make timely, most cost-effective decisions on production and marketing of Christmas trees.

*RESOURCES

University Research and Extension Specialists in Soils, Entomology, Pathology, Weed Science, Agricultural Engineering, Horticulture, Economics and Forestry; personnel from N. C. Forest Service, N. C. Dept. of Agriculture.

*ACCOMPLISHMENTS

All saleable quality trees were marketed (approximately 3.5 million) at 5% increases in prices and increased returns of 20%.

2. 875 attended NCCTA meetings. 1500 attended summer meetings in 45 counties.

 Soil testing is up 254% in last 4 years and 15.4% this past year. A total of 7190 samples were submitted. Over 50% of farmers are following recommendations.

 Third year of shipping certified USDA grades trees through Co-op members was successful. Quality of all trees shipped has improved 5%.

5. Nursery production of Fraser Fir seedlings and transplants has stabilized for growers demand of some 7 million field plants in the next 4 years.

*EVALUATIONS

Attendance at meetings, survey information on sales, records of soil tests. Reports of Agents and buyers of N. C. trees.

*FUTURE IMPLICATIONS

Continued efforts required to market increased plantings in a cost effective manner. Growers must become more knowledgeable in accessing national markets, pricing strategies and promotion of their product.

*CONTACT: * care use the * eathers proved Jap Color * Telephone Ground and Ground on Ground * Speciment and Colored Aspect rese

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*KEYWORDS

NC64 NC 1986

Agricultural and Natural Resources

Christmas Trees

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Fraser Fir; White and Virginia Pine; Red Cedar; Production Practices, Marketing; Grades; Fertilization; Weed and Insect Control Farmers, Production Associations, Wolesalers, Retailers, Consumers

Personal Contacts, Demonstrations, Tours, Meetings, Publications, Newsletters, Surveys, Mass Media, Video Tapes

Measurable Impacts/Results — Measurable regal or sociation care gramues

*QUANTIFIED IMPACTS

Improved sales of harvested trees From \$35-\$42 million up 20%

Soil samples 7190 up 253% in 4 years; up 15.4%

Grade quality of trees marketed 25% USDA #1 & BTR

Planting vs. harvesting ratio 3:1

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Program Title (Include State Name in Title)

NC67

Computer Development in the North Carolina Agricultural Extension Service

*TEXT

*SITUATION

The N. C. Agricultural Extension Service can enhance its basic function by utilizing the computer as a delivery mechanism. It also can provide expertise and leadership to clientele as they adopt computer technology. The N. C. Agricultural Extension Service, since 1980, has placed microcomputers in all 100 county extension offices. Effective use of this hardware requires training for both county and state staff, user support, and software development and refinement.

*PROGRAM OBJECTIVES

1. Development of software for extension educational programs.

2. Development, selection, implementation and maintenance of hardware systems.

Coordination of training on computers and extension uses of computers for specialists and other campus staff.

*ACCOMPLISHMENTS

Twelve new computer applications were written for county office use. Four of these have been released and eight are near release. Eighteen programs were developed to assist in administration of extension programs or in extension office automation. Approximately eighty programs were converted to run on county office computers. Approximately 350 county staff were supplied with introductory and advanced microcomputer training. Approximately 30 state staff members received advanced microcomputer training. A host computer system was designed and purchased (supported by contribution from R. J. Reynolds Tobacco Corp.). High speed MODEMS were purchased for each county office.

*CONTACT

Dr. Edward Mrozek, Jr.

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Program Title (Include State Name in Title)

CONTROL NO. NC68

North Carolina Grain Drying and Storage

*TFXT

*SITUATION North Carolina has many small farmers who grow grain. Much of this on-farm grain drying is done in the storage bin, placing a strain on the capacity of the dryer. If the grain, especially corn, is not dried in a reasonable time, it may mold and develop aflatoxin in the bin. Many farmers still are not storing grain properly to prevent damage. High aflatoxin levels are detrimental to livestock, especially swine and poultry. Grain farmers are faced with rising production and harvesting costs along with low grain prices. The cost of energy for drying farm corn, soybeans, peanuts and small grain is a significant portion of the total harvest and marketing cost, and a

reduction in fuel cost would help increase profits. *OBJECTIVES

1. Teach farmers the proper selection of drying and storage equipment and the correct use of this equipment.

Study ways of reducing the energy requirements for crop drying.

Conduct training workshops for county extension agents in proper drying and storage methods for grain.

Conduct meetings for farmers on the proper operation of drying and storage of grain.

*RESOURCES

Publications, extension agents, radio, and farmer contacts are used to distribute the educational material.

*ACCOMPLISHMENTS

A 80,000 storage and batch drying and handling system built by hog producer.

2. More farmers following recommendations and reducing storage losses.

3. Individual agent conferences; drying and storage training.

4. Aeration for several flat storage facilities designed.

5. Drying and storage farmer meetings were conducted. 6. A test was carried out to detoxify aflatoxin contaminated grain with ammonia.

*EVALUATION

Quality of grain in storage on farms is being monitored through contacts with farmers and extension agents.

*CONTACT I . There, has the a map of the later of the second for the second arms of the second of the second the second of the s John W. Glover, Extension Specialist Biological & Agricultural Engineering Box 7625, N. C. State University 27695-7625 Raleigh, N. C.

(919) 737-2675

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Program Tide (focione State Name in Tide)

NC74 *TFXT

Farm Machinery Management, Crop Production Mechanization and Improved Chemical Application Efficiency in North Carolina

*SITUATION

Proper selection, matching, ballasting, operation and maintenance of tractors and field machinery to optimize cost and production efficiency is of critical importance to economic survival. Labor reduction, improved worker productivity, and elimination of drudgery through improved mechanization continue to be high priority for both largescale and limited-resource producers. Increased reliance on chemicals of various types to assure profitable yields and acceptable quality in virtually all crops requires increased grower competence in application technology, equipment, and calibration methods.

*OBJECTIVES

Farmers and extension agents will become more competent in selecting, operating and maintaining tractors and farm machinery for minimum cost and better energy efficiency. Large and small producers will be assisted in evaluating labor-saving equipment and adopting improved machinery suitable to their needs. Competence of growers and extension agents in selection, adjustment, calibration and efficient operation of chemical application equipment will be upgraded.

*ACCOMPLISHMENTS

Interdisciplinary educational efforts were undertaken to increase the use of conservation tillage and planting systems for corn, soybeans, grain sorghum, small grain and peanuts. Approximately 400 growers were reached via demonstrations, on-farm tests, meetings and training sessions. An estimated 25,000 additional acres in North Carolina were subjected to some form of conservation tillage or planting in 1986. Fuel savings are estimated to be 25,000 gallons and soil erosion has been reduced by 100,000 tons. Meetings, demonstrations and training sessions have been held to teach proper calibration, selection of nozzles, pressure adjustment, correct boom height and nozzle spacing. An estimated 2000 farmers and 1000 non-farm pesticide users have been reached. Recertification training has been provided to 1400 private applicators.

*CONTACT I where yet in a figure of the policy is a structure of the property of the property

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*TITIF

Program Title Haclude State Name in Title!

NC75

Farm Safety in North Carolina

*TEXT

*SITUATION

While pursuing a living in the farming occupation, North Carolina farmers are exposed to a wide variety of injuries, either of minor effect or very disabling. These injuries are caused by unsafe procedures being used to operate harvest, forage and loading equipment.

Emergency medical personnel who respond to farm accident situations need to be familiar with arious types of machinery to provide the most efficient and safe extrication method for the victim.

*OBJECTIVES

 Reduce incidence of farm accidents;
 Reduce severity of farm accidents, in Reduce severity of farm accidents, including reduced loss of life and reduced insurance claims.

*ACCOMPLISHMENTS

Home economists in over 500 clubs utilized prepared slide sets on hazards in the home to be aware of and to reduce accidental poisoning and falling. A new fire safety manual was written to update information.

As a result of these programs, increased participation is being noticed in this program area. Trained farm leaders are providing workshops at the local level to volunteer service areas. Extension homemaker groups are also coordinating cleanup projects for hazards removal.

*CONTACT I - Name and an *Audress makes for a day *Talabrane for flat according to the analysis of February and the

Robert L. McLymore, Extension Specialist Biological and Agricultural Engineering Box 7625, N. C. State University Raleigh, N C 27695-7625

(919) 737-2675

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NC75a

CONTROL NO.

Pesticide Education in North Carolina

Program Title Hockage State Name in Titlet

*TEXT

Pesticides are essential in the production of most agricultural crops and necessary to protect human and animal health. A continuing educational program in safe and proper use is needed to protect human health and the environment. Comprehensive federal and state laws enacted in the early 1970's insure safe and proper use of pesticides. Dealers selling restricted use pesticides and commercial pesticide applicators, public operators and consultants applying or giving advice on any pesticide must be licensed. Farmers who use restricted use pesticides must be certified. The N. C. Agricultural Extension Service has developed programs and trained over 2000 dealers, 12,000 commercial applicators and public operators and 52,000 private applicators since 1974.

 Conduct 18-25 two-day schools annually to train 800-1,000 new dealers and commercial applicators.

Recertify all dealers and commercial applicators on a five-year basis (aerial applicators every two years).

Conduct classes on county level for new farmers who use restricted use pesticides.
 ACCOMPLISHMENTS

During 1986 1040 private pesticide applicators were trained in local county meetings using a 4-hour classroom or Programmed Instruction method. An estimated 18,000 farmers attended extension functions involving education in pest control and related projects. During 1986, 955 commercial, public pesticide applicators and dealers attended 15 Regional 2-day schools for training (were actually licensed). 1750 persons attended recertification credits. We completed a recertification program for 1280 dealers in 1986.

Data kept by the N. C. Department of Human Resources show that deaths from pesticides are at an all time low. Fewer people are being treated for severe pesticide poisoning. A manual, slide set and video tape were completed on private applicator recertification program. Assistance was also given in developing a slide set to inform the general public about pesticides.

*CONTACT

John H. Wilson, Jr., Pesticide Coordinator Dept. of Horticulture Box 7609, N. C. State University Raleigh, N C 27695-7609

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CONTROL NO.

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Program Title (Include State Name in Title)

TEXT

Farm Opportunities Program - Farm Management (North Carolina)

SITUATION DESCRIPTION

Small/limited resource farmers are affected by managerial problems perpetuated

by their failure to develop and implement a farm record/budget system.

This problem causes budgeting, tax, labor and accounting difficulties as well as preventing small farmers from being able to secure sufficient operating capital. OBJECTIVES

1) acquaint small/limited resource farmer with various kinds of farm record/

budget system

2) reduce farmers expenditure by 20%

 encourage 95% of the program participants to establish implement and maintain farm record/budget systems.

RESOURCES INVOLVED

Over 500 cooperators in 18 counties were involved in Farm Opportunities Program. All these programs have a farm management focus. Many of the farmers (number unknown) use record books distributed by R.J. Reynolds.

ACCOMPLISHMENTS

Accomplishment reports for seventeen of the counties were available. They reported a total of 169 farmers have adopted better business management practices. They also reported recordkeeping practices improved by 162 participants and use of written cashflow by 100 cooperators EVALUATION

Evaluation was accomplished with data collected in the Benchmark form and by an accomplishment survey. FUTURE IMPLICATIONS

Opportunities for future activities remain very high. One on one assistance and participation in the FOP appear to be effective means of teaching management to limited resource farmers.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)

Dr. John M. O'Sullivan, Farm Management & Marketing Specialist

P.O. Box 21928

Greensboro, NC 27401-1928

FY 84-87 Accomplishment Report - NARS

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*KEYWORDS

NC750

Control No.

North Carolina

Fiscal Year(s)

1985

Program Area(s)

Agriculture

(List as many as apply)

Subject Matter Area

Farm Management

Commodity/Subject

Record/Budget System

Audience

Small limited resource farmers

Methods

Illustration, meeting, seminars, demonstrations, radio

and television programs

Enter Measurable Impacts/Results - Keywords	Enter quantity — (economic or social)		
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Expenditures reduced	not reported		
Management improved	169 farmers in 17 FOP counties		
Record/budget system implemented	262 farmers in 17 FOP counties		
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1987	.25	.20	12 14 m 4 da	1987		r pudition have been	

Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

*TITIFE Program Title (Include State Name in Title)

CONTROL NO.

Farm Opportunities Program - County Organizations for Small/Limited Resource Farmers, North Carolina

NC75d

SITUATION

Economic conditions demand that many small/limited resource farmers seek off-farm employment to supplement farm income. Although off-farm employment is economically advantageous, diverse hours of employment have made it difficult for them to maintain a viable communication linkage with other farmers and community leaders.

This critical void in communication has made it difficult for small/limited resource farmers to attend regular farmers' meetings to discuss and/or obtain information about equipment maintenance, new agricultural practices and technology, and general agricultural policies that could assist them in solving their home, farm and community problems.

OBJECTIVES

To form small/limited resource farmers' organizations to: (1) provide a group setting where 90% of small farmers can share ideas on agricultural technology; (2) acquaint 75% of members with local agriculture, business, civic, and community leaders; (3) involve 90% of members in social businesses and political activities in their counties; (4) increase by 25% the small/limited resource farmers' input in planning and conducting workshops, seminars and other Extension educational programs. RESOURCES

180 small farmers participated in and assisted with the conducting of meetings associated with the county Small Farmers' Associations. Resources included contributions from businesses for refreshments and demonstrations.

ACCOMPLISHMENTS

Data collected from the agricultural technicians in the counties reveals that there is a need for a Small Farmers/FOP Association in their county. Although all counties have not formed an association, data submitted by the technicians reveal that (1) 150 small farmers assisted with program planning; (2) 231 farmers were involved in planning workshops; (3) 130 farmers participated in committee work; and (4) 125 farmers assisted with program evaluation. Four counties have made plans and have conducted a meeting to organize a Regional Small Farmers' Association.

Data collected for evaluation purposes were obtained from a pre-accomplishment narrative survey instrument. The instrument was administered by the agricultural technicians.

FUTURE IMPLICATIONS

The need for Small Farmers' Associations appear to be on the increase. Observation tends to point to the regional concept.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)
Dr. Daniel M. Lyons, Coordinator of Agriculture & Natural Resources
NCA&T State University
P. 0. Box 21928

Greensboro, NC 27420-1928 (919) 334-7957

FY 84-87 Accomplishment Report - NARS

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Control No. NC75d

State North Carolina

Fiscal Year(s) 1986

Program Area(s)
(List as many as apply)

Subject Matter Area Leadership Development

Commodity/Subject Community Leadership Development

Agriculture

Audience Small/Limited Resource Farmers

Methods Meetings, tours, radio, tv, newspapers, workshops, seminars, classes

Enter quantity - (economic or social)		
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^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Title (Include State Name in Title)

CONTROL NO.

Farm Opportunities Program - On-The-Farm Assistance North Carolina

NC75e *TEXXT

SITUATION

Latest information provided by the U.S. Office of Census revealed that two-thirds of the farms in North Carolina may be classified as small farms. General data pertaining to the farm operators indicate that they possess a minimum amount of education, limited capital, have been farmers all of their life, prefer to follow traditional rather than proven practices, and are unfamiliar with the services available from public agricultural agencies. These characteristics, plus other numerous variables, contribute to the problems of managerial, marketing and production which drastically affect their yield, efficiency and income. Past experiences indicate that one-on-one on-the-farm assistance has been effective in reaching small/limited resource farmers.

OBJECTIVES

The FOP components consist of horticulture, farm management, animal science and marketing. Overall objectives of this program are to: (1) increase the farmer's income by 50%; (2) acquaint program participants with major public agricultural agencies; (3) encourage 95% of the participants to establish and maintain a budget and record system; (4) acquaint participants with practices and technologies that will increase their annual yield by 12%; and (5) acquaint 25% of the participants with the feasibility of producing non-traditional commodities. RESOURCES

Nearly six-hundred cooperators received regular one-on-one on-the-farm visits from 22 agricultural technicians employed at the county level. Data provided by the technicians revealed that each participant was visited 2.3 times per month (range 1.5 to 4.5 hours) for an average of 1.9 hours per visit (range 1 to 4.5 hours). Each technician worked an average of 40 hours (range 40 to 50 hours per week). Community leaders, lay persons, agribusinesses and volunteers all assisted with the programming efforts. The counties reported that 118 volunteers contributed 145 days that were valued to be worth \$7,979.

ACCOMPLISHMENTS

Data compiled by the 22 counties reporting indicated that the number of farmers declaring bankruptcy were 3 FOP vs. 67 non-FOP. Information provided also revealed that: (1) 17 farmers increased their income by diversifying their enterprise mix; (2) 24 Alternative Crop demonstrations were conducted for the purpose of acquainting the farmers with alternative enterprises; (3) 31 farmers produced new commodities; (4) 297 cooperators increased their management abilities by developing/improving their recordkeeping skills and/or by using cashflow or some other written techniques; (5) 194 cooperators demonstrated improved management practices.

EVALUATION

Data collected for evaluation purposes were obtained from a pre-accomplishment narrative survey instrument. The instrument was administered by the agricultural technicians.

FUTURE IMPLICATIONS

The one-on-one approach appears to be accomplishing the task of reaching and assisting non-traditional Extension participants. The proposed cuts and travel reduction will

*CONTROLT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)

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Greensboro, NC 27420-1928

(919) 334-7957

Program Title (Include State Name in Title) *TITLEE CONTROL NO. Farm Opportunities Program - On-The-Farm Assistance, North Carolina NC75e *TEXT greatly affect the effectiveness of the program. Personnel at all levels are trying to identify ways of providing effective service on a reduced budget. Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Dr. Daniel M. Lyons, Coordinator of Agriculture & Natural Resources P. O. Box 21928 Greensboro, NC 27420-1928 (919) 334-7957

FY 84-87 Accomplishment Report - NARS

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

WEN WORDS

NC75e

Control No.

North Carolina

Fiscal Year(s)

1986

Program Area(s)

Agriculture

(List as many as apply)

Farm management, crop production, cultural practices, marketing

Subject Matter Area
Commodity/Subject

Agriculture

Audience

Small/limited resource farmers, urban gardeners

Methods

One-on-one contact, demonstrations, tours, mass media, meetings,

newsletters, publications

Enter Measurable Impacts/Results - Keywords	Enter quantity — (economic or social)			
QUANTIFIEDE IMPAGFACTS				
Bankruptcy of farmers	Only 3 FOP farmers filed for bankruptcy vs. 67 non-FOP farmers			
Increased income by diversifying alternative	17 farmers increased their income by diversifying their enterprise mix. 24 alternative crop			
crop demonstrations	demonstrations were conducted for the purpose of acquainting the			
Transfer Sir II	small farmers with new crops.			
Increased managerial abilities	297 cooperators increased their management abilities by developing/			
	improving their recordkeeping skills, & by using cashflow or some			
	other written technique.			

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Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

FY 84-87 Accomplishment Report - NARS

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Percent of Clientele yet to be Served (optional)

*Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

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Program Title (Include State Name in Title)

CONTROL NO.

NC75f Farm Opportunities Program - Home Gardening, North Carolina

SITUATION

Current data indicate that limited-resource families use nearly a third of their total income to purchase food. This percentage is expected to increase as retail prices of food increase. These factors, combined with high unemployment, limited budgets, reduced food stamps, and general inflation have severely restricted limited-resource families' abilities to purchase high quality food and wholesome vegetables.

OBJECTIVES

The objectives of this program are to: (1) increase the amount of vegetables grown; (2) encourage and assist rural and urban families in producing and conserving vegetables; and (3) acquaint new home gardeners with basic vegetable production. RESOURCES

The home garden plans of work were highlighted in two counties by anonymous contributors who contributed nearly \$3,000 to a garden contest. Several vegetable seed companies also donated seeds that had an estimated value of \$150. ACCOMPLISHMENTS

(1) 236 program participants demonstrated new gardening skills that consisted of using irrigation, the planting of new crops, soil sampling, maintaining production records, and mapping; (2) 25 gardeners used chemical or an integrated pest management system to reduce or prevent disease losses in their garden.

Data collected for evaluation purposes were obtained from a pre-accomplishment narrative survey instrument. The instrument was administered by the agricultural technicians.

FUTURE IMPLICATIONS

Interest in vegetable gardening continues to increase. Several urban sites have expressed interest in trying to establish community gardens.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)

Daniel M. Lyons, Coordinator of Agriculture & Natural Resources
P. 0. Box 21928

Greensboro, NC 27420-1928 (919) 334-7957

FY 84-87 Accomplishment Report - NARS

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*KEYWO BORDS

Centrol No.

NC75f

North Carolina

Fiscal Year(s)

1986

Program Area(s) (List as many as apply) Agriculture

Subject Matter Area

Horticulture

Commodity/Subject

Vegetable production/home gardens

Audience

Limited-Resource

Methods

Demosntrations, meetings, workshops, seminars, tv and radio

programs, tours, publications

Measurable Impacts/Results - Measurable social or economic consequences Enter quantity - (economic or social) Enter Measurable Impacts/Results - Keywords TO LAND THE DE IMPANIPS CTS 236 program participants learned & demonstrated new gardening skills New garden skills 25 gardeners used chemical or an IPM system to control insects & Disease & insect control diseases.

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Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

HOME ECONOMICS ACCOMPLISHMENT REPORTS

No.	Title of Major Program for which Accomplishment Report is attached
	APILLS 1451 2110 1451 14
NC93	Family Economic Stability and Security in North Carolina - Summary (1862)
NC94	Family Economic Stability and Security - Financial Management in North Carolina (1862)
NC95	Family Economic Stability and Security - Financial Management (1890)
NC96	Family Economic Stability and Security - Marketplace Strategies in North Carolina (1862)
NC97	Family Economic Stability and Security - Marketplace Strageties (1890)
NC98	Family Economic Stability and Security - Home Production and Revation in North Carolina (1862)
NC99	Family Economic Stability and Security - Home Production and Revation in North Carolina (1890)
NC100	Family Economic Stability and Security - Management of Resource in North Carolina (1862)
NC101	Family Economic Stability and Security - Management of Resource in North Carolina (1890)
NC102	Family Economic Stability and Security - Legal Concerns in Nort Carolina (1862)
NC104	Foods, Nutrition and Health in North Carolina Summary (1862)
NC105	Foods, Nutrition and Health - Eating Right for Life in North Carolina (1862)
NC107	Foods, Nutrition and Health - Food Buying and Food Management in North Carolina (1862)
NC109	Foods, Nutrition and Health - Food Preservation and Safety in North Carolina (1862)
NC111	Foods, Nutrition and Health - North Carolina Expanded Food and Nutrition Education Program (1862)

NC111À	Foods, Nutrition and Health - North Carolina Expanded Food and Nutrition Program Directive: Senate Report (98-566)
	(1862)
NC112	Energy and the Living Environment in North Carolina - Summary (1862)
NC113	Energy and the Living Environment - Lifestyles and Energy Management in North Carolina (1862)
NC114	Energy and the Living Environment - Energy Retrofits in North Carolina (1862)
NC115	Energy and the Living Environment - Energy Efficient Design in North Carolina (1862)
NC116	Energy and the Living Environment - Physiological Environment: North Carolina Homes (1862)
NC117	Energy and the Living Environment - Psychological Environment: North Carolina Homes (1862)
NC118	Family Strengths and Social Environment in North Carolina - Summary (1862)
NC119	Family Strengths and Social Environment - Family Interpersonal Relationships: North Carolina (1862)
NC120	Family Strengths and Social Environment - Stress: North Carolina (1862)
NC121	Family Strengths and Social Environment - Stress Management: North Carolina (1890)
NC122	Family Strengths and Social Environment - Self-Esteem: North Carolina (1862)
NC123	Family Strengths and Social Environment - Parenting Education: North Carolina (1862)
NC124	Family Strengths and Social Environment in North Carolina - Parenting Education (1890)
NC125	Family Strengths and Social Environment: Adult Growth and Development: North Carolina (1862)
NC126	Family Strengths and Social Environment: Adult Growth and Development: North Carolina (1890)
NC127	Volunteerism/Leadership Development in North Carolina - Summary (1862)

Volunteerism/Leadership Development in North Carolina: Volunteer NC128 Visibility and Recognition (1862) Volunteerism/Leadership Development in North Carolina: Volunteer NC129 Leadership Development and Expertise (1862) Volunteerism/Leadership Development in North Carolina - North NC130 Carolina Extension Homemakers Association, Inc. (1862) Pending Strengton and Northal Manufacturers to Hearth Condition

. *TITLE

Program Tide Include State Name in Title)

NC93

Family Economic Stability and Security in North Carolina -

*TEXT

SITUATION

CONTROL NO.

Securing and maintaining adequate family income and resources were identified by county/state Extension Advisory Committees in Spring, 1983, as major problems for North Carolina families' including the limited resources. Specific problems cited were: the families' concerns with meeting daily expenses; providing for a financially secure future; how to be effective buyers and/or sellers of consumer goods and services; and how to stretch economic resources through the utilization of personal resources (time, human energy, creativity). Too, the impact of law on North Carolina families was identified as a concern as it relates to family law, property ownership, estate planning, bankruptcy, consumer law and small business law. PROGRAM SEGMENTS

- a) Financial Management, b) Marketplace Strategies, c) Home Production and Renovation, d) Management of Resources, and e) Legal Concerns.

 OBJECTIVES
- 1) Families and individuals are adopting financial management practices to provide for current needs and future financial security. 2) Families and individuals are supplementing their income by developing profitable home enterprises based on sound business management principles. 3) Individuals are extending their income and resources in production and renovation to provide for family needs. 4) Families are practicing appropriate skills and knowledge to extend personal and economic resources. 5) Families and individuals are developing an understanding of their legal rights and responsibilities as family members, property owners and renters, consumers, or home business owners.

RESOURCES - Volunteer leaders

ACCOMPLISHMENTS - 616,000 individuals/families learned skills in financial management. 31,981 persons adopted food buying practices, valued at \$32,513. 4,910 persons increased income by \$1,472,956 from selling crafts. 2,483 persons learned business management/legal aspect of craft/sewing businesses. 37,656 adults/youth developed home production/renovation skills in clothing, home furnishings and crafts, extending income by \$1,050,315. Family income was extended through food preservation by \$4,066,308. 31,981 persons practiced food buying skills, valued at \$32,513. 11,653 persons developed clothing buymanship/care practices, valued at \$97,691. 6,772 persons developed home furnishings/housing options decisionmaking skills. 11,573 adults developed home improvements, remodeling, decorating skills. Better utilization of personal resources extended family income by \$1,210,145. 2,031 adults wrote/revised wills or made decisions on estate planning.

Mailed questionnaires, county accomplishment reports, interviews.

Emphasis will be to help families promote economic stability and security.

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*CONTACT

3.35 Jension regregationer previous printeress

Harriet Tutterow Jennings Extension Specialist, Clothing & Textiles Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

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*TITLE CONTROL NO. Program Tide Include State Name in Title)

Family Economic Stability and Security - Financial Management in North Carolina

NC94 *TEXT

Increasing requests for financial management information and individual SITUATION

counseling, a high debt level, and a low level of savings indicate that individuals/families experience difficulty with daily expenses and in building financial security for the future.

OBJECTIVES

Individuals/families will optimize returns from financial resources for goal attainment of financial security. Results expected, 1984-1987 include: 100,000 families budget financial resources; 50,000 children learn skills in managing money; 50,000 teenagers apply management skills to everyday activities; and 20,000 adults build financial management.

Extension personnel, professionals from banking, insurance and investment RESOURCES firms, and volunteers have contributed knowledge and time to teaching others about financial management.

ACCOMPLISHMENTS

In 91 counties, one or more financial management skills or practices were learned by more than 616,000 adults and youth by means of: publications, home study courses, special classes, individual/couple consultations, seminars, and the news media. Mail questionnaires from 316 respondents indicated the following impacts:

(a) Identified ways to improve their financial situation (79%).

(b) Practices adopted included: plan and shop carefully to get money's worth (48%), make and regularly follow a plan for spending and saving (35%), eliminate habits that waste money (35%), keep records of money used (32%), set immediate and long range financial goals (26%), increase savings and investments for future goals (26%) and reduce money paid in

(c) Rewards resulting from improved financial management practices included: reduced financial worries (38%); increased funds for emergencies, retirement and other goals (27%); improved quality of family life (25%);

and increased net worth (16%).

(d) Respondents' average monthly dollar value accruing from the use of better money management practices was \$165.

A mail questionnaire and county Home Economics Agents' reports were used to measure the impact of financial management educational efforts.

FUTURE IMPLICATIONS Particular audiences need help with family financial management; farm and rural families with reduced income; single heads of households; older citizens. Debt control is an increasing problem for young people and dual-income households. Health care costs continue to challenge future financial security plans.

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*CONTACT

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Mrs. Janice Holm Lloyd Family Resource Management Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 with a common - do not abbreviate keywords.

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Debt Reduced	Bi-Ilanan ann-san	19%	19%			
Net Worth Increa	ased	16%		M booder		
781	sen elle mest actors	sufar velica ylara		manus (b)		
Expens	en Time (FTE) on Program		In agunus yas	Spegmal Program		
		aster as Executive		*SCOPE		
*EXPENDED FTE	Parally 15 to 5 to 18 1 1 to 18		Lot of an element	and the same of the contract o		
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1984	a sure for a third neuml	1984		In Rept		
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1985		1985	a of wasting	Production Companies		
1446		1936)		Program Res. et al lise		
		1986		Other		
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1986		1.43.87.				

Program Title (Include State Name in Title) CONTROL NO. | Family Economic Stability and Security-Financial Management - 1890

NC95

*TEXT

SITUTATIONAL STATEMENT: Financial management remains a crucial area of importance for the limited-resource family in North Carolina. Since 1975, the number of people living in poverty increased by 157,000 persons. The number of poor and near poor population in the state reached 1,172,000 people or one out of five persons. Minorities accounted for nearly half of the poverty households in North Carolina during 1981. The annual income for 333,000 persons within the state was not more than 25 percent above the federal poverty level for a family

of four.

PROGRAM OBJECTIVES: Limited-resource families and individuals will apply and utilize financial management skills and knowledge to meet family goals. Expected results include: (1) 1,100 families and individuals acquire skills and experience in budgeting income and maintaining financial records, (2) 1,100 families and individuals improve their skills to manage financial resources to meet current and future living costs, (3) 300 families and individuals develop their credit management skills to reduce debts and protect their credit rights, (4) 100 families and individuals educate their children in basic money management principles.

RESOURCES INVOLVED: Government and county agencies, financial institutions and other businesses, volunteers, advisory committees, community service groups. ACCOMPLISHMENTS/EVALUATION: Limited-resource families participated in workshops on such topics as family recordkeeping, children and money and basic family budgeting. Many received instruction one-on-one through in home teaching. State developed questionnaires mailed to participants, telephone surveys and

direct observation were evaluation methods used to collect results.

	1984	1985	1986
Number of participants	407	414	546
Number reporting improvements:	1 172-190		
Made a written budget	134	109	123
	(32%)	(26%)	(23%)
Money management skills improved	79	93	271
Honey management extra timp (1)	(19%)	(22%)	(50%)
Improved recordkeeping practices	222	107	166
Improved recordicepting practices	(54%)	(25%)	(30%)
Use of credit improved	8	9	33
use of credit improved	(1%)	(2%)	(6%)
Increased funds for emergencies	28	43	69
Thereased runds for emergencies	(6%)	(10%)	(13%)
	(0/0)	(10/0)	(1070)

FUTURE IMPLICATIONS: Managing family income continues to be a problem for limited-resource families. Efforts to increase the number of families that make a budget will continue to be a prime concern.

^{*}CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Claudette L. Smith, Family Resource Management Specialist

P. O. Box 21928

Greensboro, NC 27420-1928

^{(919) 334-7956}

FY 84-87 Accomplishment Report - NARS

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NC95

Control No. State

North Carolina

Fiscal Year(s) Program Area(s) 1986 Home Economics

(List as many as apply)

Family Economic Stability and Security

Subject Matter Area Commodity/Subject

Financial Management

Audience

Limited-resource families, individuals, adults, young families

and youth

Methods

Seminars, workshops, demonstrations, special interest meetings,

bulletins, classes

Enter Measurable Impacts/Results - Keywords	Enter quantity — (economic or social)
QUANTIFIED IMPACTS	and diner businesss, volunteer, advise
Practices Adopted	123 made written budgets
Practices Adopted	107 improved recordkeeping practices
Skills Developed	271 improved money management skills
Skills Developed	69 increased funds for emergencies
Behavior Changed	33 use of credit improved
(400) (225) (401)	Para Line of the London Company Developed

Expended Time (FTE) on Program *EXPENDED FTE			*VOLUNTE	Scope of Program Number of Counties *\$COPE				
Year	Professional	Paraprofessional Para	Volunteer (optional) VO1	Year	No. Different Persons Pers	Dollar Value * (of volunteer time) Dollar	In the State Co in St 100	
1984	Prof	Fala	V	1984	MATERIAL ST	enthos I	Covered by this Report In Rept 11	
1985	. 1	2	1.	1985			Number of other Counti Producing Comparable Program Results	
1986				1986			Other	
1987			Terredo III	1987				

Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Tide (Include State Name in Title)

Family Economic Stability and Security - Marketplace Strategies in North Carolina

NC96 *TEXT

CONTROL NO.

SITUATION North Carolina families and individuals are concerned with how to be effective buyers and/or sellers in today's marketplace. Recent studies forecast continued fluctuations in consumer prices. Families also face quality variation in goods and services. To extend family enterprises and the marketing of products, consumers need to know how to better use their economic resources to provide for current needs.

OBJECTIVES North Carolina families and individuals learn to cope with marketplace strategies to enhance their economic status and security. Results expected include: 150,000 individuals realize more for money spent through improved shopping skills, 60,000 families become more proficient in food buying, 30,000 families increase awareness of housing options and selection criteria, 30,000 families utilize decision making skills to maximize housing dollars, 5,000 young consumers recognize quality construction in furniture and 90% increase their confidence level when buying furniture, 7,000 young families become more aware of the value and adaptability of furniture, 60,000 family members practice appropriate wardrobe planning and selection skills to extend clothing allowance by \$30,000. 64,000 adults/youth develop craft marketing and business management skills to help supplement family income by \$5 million, and 500 home sewers develop sufficient business management knowledge/skills to begin/maintain home sewing enterprises to contribute to their families' incomes.

RESOURCES - Volunteer leaders

ACCOMPLISHMENTS

Fifty-five counties had food buying educational programs reaching 31,981 persons with a value of \$32,513.000. 1,996 in 24 counties gained knowledge in selecting quality home furnishings. 46 counties reported 3,248 persons increased awareness of housing options including mortgage conversions. 343 families used Extension House Plans, valued at \$1,715. 50 counties reported 8,466 persons developing skills in wardrobe planning, extending income by \$97,691. 31 persons starting a Sewing For Pay business. 4,910 persons learned skills in producing/marketing crafts, increasing income by \$1,472.956.

EVALUATION

Mailed questionnaires (EV-2: F2, F4, C6 and EV4-1) county accomplishment reports, interviews, site observations and telephone surveys were used as the data base.

FUTURE IMPLICATIONS

Families will need help in making consumer decisions to meet their needs.

*CONTACT

v drugstra • California, to a complete pro • Telephore foretheir area true to a to the second • English on the Harriet Tutterow Jennings, Chm., Fam. Eco. Stab. & Secur. Subcommittee Extension Specialist, Clothing & Textiles Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770

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Other

Keywords are words and phroses that others will use when searching the data base. The keywords list can be used as a guide for selecting words, in addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase

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Knowledge Gained				6,529	persons home	furnishings,
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				Iamili	es House pla	ns, 91,715.
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1986

1986

Program Title (Include State Name in Title) *TTTLE

Family Economic Stability and Security - Marketplace Strategies -CONTROL NO. NC97 North Carolina, 1890

*TEXT SITUATION: For many limited-resource persons, cultural and educational barriers impede their abilities to operate as competent and responsible consumers. Nearly 80% of households at the poverty threshold and below are headed by persons with less than a high school education. Other factors play a role in denying this audience access to knowledge of the marketplace. A few are: unwillingness to change traditional shopping habits, avoidance of new experiences which could produce embarassing or risk situations, inexperience with marketplace terminology and operation, poor reading and math skills, and a means of transportation to get to market areas.

OBJECTIVES: Limited-resource families and individuals develop buying skills to be confident consumers in the marketplace by: (1) improving their consumer knowledge of marketplace terminology and operation, and their consumer rights, (2) exercising sound buying skills in the marketplace, and (3) utilizing shopping

skills and knowledge.

RESOURCES: Čity and County Parks and Recreation Departments, Public

Libraries, and Churches.

ACCOMPLISHMENTS: Wardrobe planning and consumer buying skills were taught to 475 limited-resource families and individuals. Follow-up evaluation with 350 people indicates:

Consumer Buying Skills (general) No. of participants	1984 102	1985 104	1986 97	
No. reporting improvements: Practice comparison shopping Made a shopping list	90 (88%) 90 (88%)			
Consumer Buying Skills (clothing) No. taught wardrobe planning/ consumer buying skills	100 4	263	378 268	
No. responding to evaluation No. gaining new knowledge		263 208(79%) 139(53%)	322(85%)	
No. developing clothing budgets	3-	139(53%)		

EVALUATION: Follow-up visits, telephone surveys and state developed

evaluation forms were used to collect data.

FUTURE IMPLICATIONS: Limited-resource people need to carefully consider necessary additions to their family wardrobes. By learning to plan in advance and how to shop for the best buys, family income can be extended. Continuous follow-up with families and individuals and training for field staff is essential.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Ellen P. Smoak, Clothing Specialist, Claudette L. Smith, Family Resource Management Specialist P. O. Box 21928

Greensboro, NC 27420-1928 (919) 334-7956

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*KEYWORDS

NC97

Control No. State

North Carolina

Fiscal Year(s)

1986

Program Area(s)

Home Economics

(List as many as apply)

Subject Matter Area

Family Economic Stability and Security

Commodity/Subject

Marketplace Strategies

Audience

Limited-resource audiences, adults, homemakers, young families,

youth

Methods

Home teaching visits, meeting. in-service training, workshops,

publications

Enter Measurable Impacts/Results - Keywords	Enter quantity — (economic or social)
*QUANTIFIED IMPACTS	Service and Servic
Knowledge Gained	by 322 limited-resource people
Clothing Budgets Developed	by 219 limited resource people
Wardrobe Plans Developed	by 241 limited-resource people
Practice Adopted	82 practice comparison shopping
Practice Adopted	15 made a shopping list
(2hd)rad (480)cer -	No. developing wardrobe plate

*EXP	Expende	d Time (FTE) on Prog	ram William	Selpapat Selpapat	*VOLUNTEER		Scope of Program Number of Counties *SCOPE
Year	Professional Prof	Paraprofessional Para	Volunteer (optional) VOI	Year	No. Different Persons Pers	Dollar Value * (of volunteer time) Dollar	In the State Co in St 100
1984	FIGE			1984			Covered by this Report In Rept 11
1985				1985			Number of other Counties Producing Comparable Program Results
1986	2	2		1986			Other
1987	real ed Latin	Self vil mer	Jana Tia	1987	Je (la Loen)	e producti j	

Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Title (Include State Name in Title)

Family Economic Stability and Security - Home Production and Renovation in North Carolina

NC98 *TEXT

SITUATION

CONTROL NO.

With the costs of goods and services continuing to rise, North Carolina families are finding it increasingly difficult to substitute and stretch resources to meet their needs. Without proper knowledge and skills of such home production techniques as construction, refurbishing and renovation, food preservation, and home repairs, families are unable to extend their incomes by do-it-yourself money-saving projects.

OBJECTIVES North Carolina families and individuals extend income and resources in home production and/or renovation to provide for family needs. Results expected include: 1) 75,000 improve home sewing skills, saving approximately \$1,000,000, 2) 425,000 garments repaired, saving \$212,500, 3) 1,125,000 people are utilizing safe food preservation procedures, 4) 75,000 families are making home repairs, 5) 3,000 families are refinishing old and/or unfinished furniture, saving 1,500,000, 6) 10,000 young families complete one or more do-it-yourself decorating projects, saving 2,000,000, and 7) 132,000 people are producing crafts. RESOURCES

Volunteer leaders ACCOMPLISHMENTS

Seventy-nine counties reported that 5,217 adults constructed 6,945 garments and accessories, valued at \$158,197; 75% improved sewing skills. Forty-three counties stated that 1,070 youth constructed 1,175 garments, valued at \$17,657. 265 youth and adult clothing leaders were trained and shared skills with others. Twelve counties reported 134 garments were tailored, valued at \$14,190. Twenty counties stated that 1,019 garments were repaired or renovated for a dollar value of \$24,121. Nine counties reported 230 persons refinished 335 pieces of furniture for a total dollar value of \$82,410; 552 persons in 32 counties refinished 828 pieces of furniture valued at \$203,688. 3,525 people in 45 counties completed do-it-yourself projects extending family income by \$514, 650. 5,790 persons in 32 counties made 1,328 home repairs, extending family income by \$35,402. The utilization of safe and approved food preservation methods resulted in a dollar value of \$4,066.308. 24,473 persons learned new skills in making crafts; 10,503 volunteers were trained to teach crafts.

EVALUATION

Mailed questionnaires (EV-2: C-1, C-2, C-5, F-3, H-1, H-2, H-6), county accomplishment reports, interviews, site observations and telephone surveys were used as the data base.

FUTURE IMPLICATIONS

Extension home production/renovation programs continue to be needed by families who have difficulty in extending the family income. Literature also suggests that learning these skills can help reduce stress.

*CONTACT

Harriet Tutterow Jennings, Chm., Fam. Eco. Stab. & Secur. Subcommittee Extension Specialist, Clothing & Textiles Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770

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*KEYWORDS

NC98

North Carolina

1986 Fiscal Year (s)

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Home Economics

Support Matter Acea Family Economics Stability and Security

CommonwySubject Home Production and Renovation

Adults, elderly, families, homemakers, volunteer leaders,

young families, youth

The state of the s

Leader training, workshops, seminars, in-service training,

videocassettes, meetings, television.

Measurable Impacts/Rosults - Measurable social or designatic constitute Sager Villagorothe Impacts Results - Keywords

*OUANTIFIED IMPACTS

Income Extended

Skills Learned

\$5,116,623

16.649 adults/youth developed skills in construction, household repairs, furniture refurbishing, do-it-yourself projects. 24,473 persons learned new skills in making crafts; 10,503 volunteers were trained to teach crafts.

Eater quantity + treatment or a cital

+ EVDE	Example NDED ETE	; Time (FTE) an etics	ramuj (g.a.) Data zandin	D . t=:	*VOLUNTEER	ionnatres (S	Score of Program Number of County *SCOPE 3
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1986				1986			Other:
1987	0073111100	úel Julian a	dela sette	1987			

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Program Title (Include State Name in Title)

Family Economic Stability and Security-Home Production and CONTROL NO. NC99 Renovation - North Carolina, 1890

*TEXT SITUATION: The continuing increase in the cost of goods and services is making it nearly impossible for the limited-resource families and individuals in North Carolina to substitute and stretch resources to meet their needs. It is crucial that these families develop skills in such home production techniques as clothing construction, refinishing and renovation in an effort to extend their limited incomes.

Limited-resource families and individuals in North OBJECTIVES: Carolina extend income and resources in home production and/or renovation to provide for family needs. Results expected are: (1) 8,000 people gain or improve home sewing skills saving \$120,000, (2) 1,100 families renovate or repair clothing items, saving \$3,200, and

(3) income is extended by \$133,200.

RESOURCES: County and City Parks and Recreation Departments, Youth Councils, 4-H Leaders, Fabric Manufacturers, County Schools, Public Libraries, Churches, Advisory Leadership Councils, and Volunteer Leaders .

ACCOMPLISHMENTS: Clothing Construction was taught to 592 people. Garment repair/renovation was taught to 72 people. Evaluation of all

participants indicated: 1984 1985 1986

1. Clothing construction	320	395	592
No. of participants			892
No. of garments completed	317	536	
Dollar value/savings	\$6521	\$8043	\$14,534
No. developing clothing	/	202/00	W1 F27/00%1
construction skills	298(93%		
No. improving thinking ability	147(46%) 233(59	%) 479(81%)
No. completing additional garmen	ts 250(78%) 253(64	%) 408(69%)
after workshops			
Total no. of garments completed	721	778	1289
2. Garment Repair/Renovation	1984	1985	1986
No. of participants	20	79	72
	100	194	181
No. of garments Dollar value/savings	\$1800	\$3158	\$3280
3. Total Income Extended	1984	1985	1986
Construction and repairs	\$8321	\$11,201	\$17,814
FVALUATION: Methods used include:	content/p	rocess an	alysis, pre-

and post-testing, state developed evaluation forms, home visits,

personal consultations, and observation.

FUTURE IMPLICATIONS: Limited-resource clientele need continued development of their clothing construction and renovation skills. Family income can be extended as evidenced by reported accomplishments. Family Education Agents and Aides need continuous training in both Clothing Construction and garment renovation in an effort to help limited-resource people realize even greater savings.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Ellen P. Smoak, Clothing Specialist

P. O. Box 21928

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*KEYWORDS Control No.

NC99

North Carolina

State Fiscal Year(s)

1986

Program Area(s)

Home Economics

(List as many as apply)

Subject Matter Area

Family Economic Stability and Security

Commodity/Subject

Home Production and Renovation

Audience

Limited-resource audiences, adults, youth

Methods

Home teaching visits, small group sessions, workshops,

publications RESOURCES: County and City Parks and Rec

Measurable Impacts/Results — Measurable socia	Enter quantity — (economic or social)		
*QUANTIFIED IMPACTS	persicipants indicased:		
Garments Constructed	1289 1-17749 70 -54		
Skills Developed or Improved	by 527 limited-resource people		
Improved Thinking Ability	by 479 limited-resource people		
Garments Repaired/Renovated	181 galselamas .qM		
Total Dollar Value/Savings	\$17,814		
THE RESERVE OF THE PARTY OF THE	esuppinization to .au		
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Expended Time (FTE) on Program *EXPENDED FTE			t not a	*volunte	Scope of Program Number of Counties *SCOPE		
Year	Professional Prof	Paraprofessional Para	Volunteer (optional) VO1	Year	No. Different Persons Pers	Dollar Value • (of volunteer time)	In the State Co in St 100
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1986		or fisher x es	re i Liuri	1986	in hit et		Program Results Other
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Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Title Unclude State Name in Title!

*TITLE Family Economic Stability and Security - Management of Resources in North Carolina NC100

*TEXT

SITUATION North Carolinians are facing critical decisions on how to best manage their their personal and economic resources. With 51 percent of the state's labor force being women with children under 6 years of age, the factors of time and work efficiency become important issues. With limited discretionary income, appropriate care, maintenance, and improvement practices for extending family resources to meet basic needs are crucial.

OBJECTIVES Families and individuals develop and improve their management skills to fully utilize and extend their personal and economic resources. Expected results include: 1) 24,000 families practice care and maintenance skills to extend their apparel and footwear life, 2) 5,000 families save \$500,000 on home improvements through knowledge and skills development, 3) 15,000 consumers utilize quick-change decorating ideas to save money in redecorating their homes, and 4) 25,000 two pay check families practice time management and work simplification procedures to lessen pressures of family, home, and job responsibilities. RESOURCES

Volunteer leaders

ACCOMPLISHMENTS

Twelve counties reported 3,187 adopted practices to better care for apparel and footwear, extending income by \$5,665. 1,738 persons gained knowledge in the care of home furnishings, including spot and stain removal. 9,067 persons in 73 counties developed knowledge and skills in home improvements resulting in dollar value of \$993,798. Fifteen counties involving 768 families indicated that one or more home improvement changes had been completed for a dollar value of \$210,682. One-third of the changes/improvements were in the kitchen or bathroom. EVALUATION

Mailed questionnaires (EV2-H4), county accomplishment reports, survey, and personal contacts.

FUTURE IMPLICATIONS

. S. 65 on two replaces previous providings

There needs to be a continued effort to educate individuals and families on better management practices, particularly in time management and work simplification for two pay check families and single heads of families. New program materials being developed in Family Resource Management, Clothing and Textiles, and Housing and House Furnishings should stimulate county programs in management of resources.

*CONTACT

Harriet Tutterow Jennings, Chm., Fam. Eco. Stab. & Secur. Subcommittee Extension Specialist, Clothing & Textiles Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770

*KEYWORDS

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	North Carolina				
Pisca Mariki	1986				
Program Areaisi	Home Economics			di was sombiti	
Lat as many as applied					
	Family Economic Stabili	ten and	Socurity		
Subject Matter Area					
Commodity/Subject	Management of Resources	al emplo			
Aug office	Families, two pay-check	k famili	es, individ	duals, and co	nsumers.
Memors #11049 her #11049 her #11049900 #110409001	Seminars, workshops, debulletins, classes.				
DI BED	Measurable Impacts/Results	Measterable			
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					Program Amura
1986		1986			Other

1987

1987

Program Title (Include State Name in Title) *TTTLE

CONTROL NO. | Family Economic Stability and Security - Management of Resources - North Carolina, 1890 NC101

*TEXT

SITUATION: Limited-resource families and individuals in North Carolina are faced with critical decisions and challenges on how best to manage their scarce personal and financial resources. Seventyseven percent of the households below poverty are headed by a person with less than a high school education. Most of these persons lack the income, skills and confidence to successfully manage their available resources in an efficient manner. It becomes crucial that they develop and improve practices that maintain and extend these resources to meet basic family needs.

OBJECTIVES: Limited-resource families and individuals develop and improve their management abilities to fully utilize and extend personal and economic resources. Results should include: 2500 families and individuals practice proper laundry care techniques of

their garments extending garment life by two years.
RESOURCES: Local YMCA'S, City and County Parks and Recreation
Departments, Churches, and Public Libraries. ACCOMPLISHMENTS: Proper laundry techniques and procedures were taught to 348 limited-resource people. Evaluation of 216 of the people involved in the teaching indicated:

	1984	1985	1986
	143	185	348
	87(61%)	148(80%)	216(62%)
	65(75%)	136(92%)	271(78%)
	64(74%)	117(79%)	240(69%)
No. adopting proper laundry practices Dollar value/savings	-	BUT NEG / AND	\$621(by 18 people)

EVALUATION: Follow-up visits, in-home observations, telephone surveys and a state developed evaluation form were used to collect

FUTURE IMPLICATIONS: Using proper laundry techniques is crucial to all families, regardless of income, but more so with limiteddata. resource families. Improper laundry procedures can quickly ruin garments, forcing strain on the budget if the garment must be replaced. With more women (including those with limited-resources) in the work force, it is becoming essential for the children in the family to learn proper laundry techniques in order to help with some of the clothing maintenance tasks.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Ellen P. Smoak, Clothing Specialist, 1890

P. O. Box 21928

Greensboro, NC 27420-1928

(919) 334-7956

FY 84-87 Accomplishment Report - NARS

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma - do not abbreviate keywords.

*KEYWORDS

NC101

Control No. North Carolina State

1986 Fiscal Year(s)

Home Economics Program Area(s)

(List as many as apply)

Family Economic Stability and Security Subject Matter Area

Management of Resources Commodity/Subject

Limited-resource families and individuals Audience

Seminars, workshops, demonstrations, special interest Methods

meetings, bulletins

Measurable Impacts/Results - Measurable social or economic consequences						
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Knowledge Gained	by 271 limited-resource people					
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Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Tixle Include State Name in Title!

Family Economic Stability and Security - Legal Concerns in North Carolina

NC102 *TEXT

SITUATION

The rising rate of lawsuits and the impact of law on North Carolinians have stimulated a demand for information on family law, property ownership, estate planning, bankruptcy, consumer law, and small business law. Such information is needed to enable individuals to recognize and prevent potential legal problems, and to ascertain when to seek legal advice. OB. JECTIVES

A. 5,000 adults plan for their estate distribution.

B. 3,000 adults gain knowledge about divorce, property division and child support laws.

C. 2,000 adults make informed decisions about bankruptcy and other legal debtor/creditor concerns.

D. 3,000 adults gain knowledge about consumer law.

E. 1,000 small businesses avoid legal problems of managing home enterprises.

RESOURCES

Volunteer leaders.

ACCOMPLISHMENTS

In 1985-86 23 counties enrolled 2031 adults in estate planning workshops. Ten counties using state-developed questionnaires reported as a result of the workshop that 74% of the participants reported getting answers to questions, 62% improved their planning techniques, 62% received help in decision making and almost 40% either wrote or revised their will. In 1985-86 approximately 4000 sets of estate planning factsheets were distributed upon request to county clientele.

In 1985-86 over 2483 adults participated in workshops on starting a small crafts business. Over \$572,956 was generated from the sale of crafts in 51 counties.

EVALUATION

State developed surveys (EV2M-5 Estate Planning) were mailed to participants in ten county estate planning seminars and 140 persons responded. In addition, thirteen counties developed their own evaluation procedure of estate planning. State developed questionnaires (EV2M-6 Small Business) and state developed surveys were used. FUTURE IMPLICATIONS

Clients continue to display strong interest in estate planning and good percentages are changing behaviors as a result of the estate planning program. Increased requests for legal information about small business enterprises indicate expansion and follow-up is needed.

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*CONTACT

Barrie Balzli Stokes Extension Specialist, Family Resource Management Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770

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Program Tigle (Include State Name in Title)

NC104

Foods, Nutrition and Health in North Carolina Summary

*TEXT

SITUATION - The incidence of many diet-related diseases in North Carolina is higher than the national average. Infant mortality rate is high. One of five poverty households shows inadequate nutrition. Children, teens, and the elderly present unique nutritional needs. Food buying and management are major problems. Shifting household roles are impacting on food management. There is renewed interest in home food preservation. Consumers have concerns about food safety. PROGRAM SEGMENTS

- . Eat Right for Life
- . Food Buying and Management . EFNEP
- . Food Preservation and Safety

OBJECTIVES.

The incidences of diet-related diseases will decline and the health status of North Carolinians will improve. Teens and adults will increase their awareness of the relationship between nutrition status and the misuse of dietary supplements, alcohol, drugs, and caffeine. North Carolina families will maximize food dollars. The incidence of foodborne disease in North Carolina will decrease. EFNEP families will improve their nutritional status and become more effective users of available resources.

ACCOMPLISHMENTS AND EVALUATION - Data from county accomplishment reports and other sources show as a result of nutritional programs: 1) 34,627 participants are better able to make food choices for themselves and family members. Of these, 4,295 learned the importance of food health practices in preventing or lessening the severity of osteoporosis. 2) 32,087 individuals changed eating habits consistent with USDA Dietary Guidelines and 937 adults and youth are aware of relationship between abuse and nutrition.

In Food Buying, county accomplishment reports show 31,981 individuals participated in food buying programs to maximize food dollars, yielding an estimated value of \$883,980; 28,743 individuals changed one or more food buying practices. Food buying information was also delivered via radio to an estimated 539,135 listeners. 1,208 Best Food Buys teletip calls were received. County accomplishment reports from counties indicated 29,466 individuals/families utilized safe and appropriate food preservation methods. The average dollar value of food preserved was \$128., which gives a calculated value of \$4,066,308 worth of food preserved by safe and appropriate methods. Nine additional counties trained 55 Master Food Preserver volunteers, who averaged 53 contacts each.

Entry and exit recalls of EFNEP homemakers reveal that only 51% of homemakers entering program compared to 77% of homemakers exiting program had one or more servings of four food groups. Six percent of entering homemakers compared to 28% of exiting homemakers reported consuming the recommended servings of the four food groups.

FUTURE IMPLICATIONS - Dietary habits appear to be changing; however, there is a need for more intensive efforts in wellness education. Unsafe and nonrecommended food preparation and preservation practices need correcting. Food buying and management remains important with changes, decreased farm incomes and changing family roles. New EFNEP curriculum. *CONTACT

> Nadine F. Tope Specialist in Charge, Foods and Nutrition Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770

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Keywords are service and phrases that others will use when searching the data case. The keywords list can be used as a quite for severally words, in addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase

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SATER NO. Foods, Nutrition and Health - Eating Right for Life in North Carolina

Program Tide (Include State Name in Title)

NC105 *TEXT

SITUATION

Heart disease, atherosclerosis, diabetes, hypertension, obesity and dental disease are major health problems in North Carolina. Our infant mortality rate is one of the highest in the country. The growing elderly population has unique nutritional needs including diet and drug interactions and substance abuse. OBJECTIVES

1) 150,000 individuals make food choices that comply with the 1980 RDA's. 2) 150,000 individuals modify their eating habits consistent with USDA's Dietary Guidelines. 3) 50,000 youth and adults become knowledgeable of the relationship between substance abuse and nutrition. 4) 50,000 individuals become evaluators of nutrition information.

ACCOMPLISHMENTS AND EVALUATION

A nutrition education campaign aimed at preventive nutrition was initiated in 1983 entitled "Eat Right for Life." Evaluation of the program included questionnaires (EV2F2) mailed to 1,019 individuals with 406 returned. Results indicate that 76% use less salt in food preparation, 69% limit their sweets, 74% use less fat in seasoning vegetables, 70% select leaner cuts of meat, 77% decreased amount of fried foods, and 71% used more high fiber foods. Data indicates nutritional status improved as well--33% lost weight and 25% decreased their blood pressure. Of 60 respondents to a "Motion for Life" program questionnaire, 42% lost weight and 40% increased their level of physical fitness. A new "Fitness for Life" adult fitness program evaluation indicates 74% of 34 respondents increased physical fitness, 50% lost weight and 35% lowered blood pressure. Evaluation results from 80 pregnant women participating in Maternal and Infant programs indicate 64% improved dietary habits.

Data from county accomplishment reports and other sources show: 1) as a result of participating in nutrition sessions, computer dietary analyses, Maternal and Infant and Preschool Nutrition Education programs, 34,627 participants are better able to make food choices for themselves and family members that meet the 1980 RDA's, of these 4,295 participated in programs on Osteoporosis; 2) 32,081 individuals have modified their eating habits consistent with USDA's Dietary Guidelines as a result of programs such as "Motion for Life," "Fitness for Life," "Cooking Light," "Microwave and Eat Right for Life;" and 3) 937 adults and youth have become aware of the relationship between substance abuse and nutrition.

FUTURE IMPLICATIONS

Dietary habits appear to be changing; however, there is a need for more intensive efforts in overall wellness education. Continued emphasis needs to be placed on weight control, and control of dietary factors such as sodium, cholesterol, fat, sugar and fiber.

*CONTACT

Nadine F. Tope Specialist in Charge, Foods and Nutrition Box 7605, NCSU Raleigh, NC 27695-7605 (919)737-2770

Keywords and parames that others will use when searching the data base. The keywords list can be used as a guide for senegring words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase

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Program Tixle (Include State Name in Title)

NC107

Foods, Nutrition and Health -Food Buying and Food Management in North Carolina

*TEXT

SITUATION

ONTROL NO.

A major problem of North Carolina families is food buying and food management. Increased numbers of women in the labor force, low income families, shifting household roles, and changing food technology have increased consumer's need for help with meeting dietary changes.

OBJECTIVES

1) 60,000 families will manage and maximize food dollars through selection of nutrient dense foods. 2) 20,000 elderly and 30,000 employed homemakers will utilize management skills in food selection, preparation, and storage. 3) 10,000 individuals will distinguish conventional foods and new food products in the marketplace in selecting foods that meet their needs.

ACCOMPLISHMENTS AND EVALUATION

Food Buying programs were evaluated by mailed questionnaires (EV2F4 and EV2F7), County accomplishment reports and Teletip calls. Results from the mailed questionnaires indicated 63% of 137 participants surveyed in Meat Buying programs purchase large pieces of meats and do some cutting at home to save money. The 137 participants surveyed reported that 72% considered the amount of bone or waste in selecting meat and 58% read label information and observed texture, color and marbling. 80% received new ideas and 88% improved planning and management. 67% developed greater skills and improved decision making when buying meat. The participants of the meat buying programs reduced their grocery bill by an average of \$28.00 per month. 51% of 406 respondents of mailed questionnaires "Eat Right for Life" (EV2F2) reported decreased grocery bills.

A new program on Food Buying (Cart \$marts) mailed questionnaires (EV2F7) preliminary data from 11 respondents reported 82% prepare a grocery list and read labels. 64% compare prices and 91% check foods on hand. 55% reduced grocery bill less than \$20 monthly while 18% decreased \$21-\$40 and 27% \$41-\$60.

Data from county accomplishment reports show 31,981 individuals in 55 counties participated in food buying programs to maximize food dollars through selection of nutrient dense foods with an estimated net value of \$883,980. Radio programs on food buying were presented over 42 local stations with 539,135 listeners. 1,208 Best Food Buys teletip calls were received. This bi-weekly message is used by state news media to advance its coverage.

FUTURE IMPLICATIONS
Shifting household roles, changing dietary habits and new food technology suggests more intensive efforts in helping consumers meet their dietary needs with minimum dollars.

*CONTACT

Rachel K. Kinlaw, Extension Foods Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919)737-2770 Keywords are words and phrases that others will use when searoning the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma – do not abbreviate keywords.

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NC109

Foods, Nutrition and Health
Food Preservation and Safety in North Carolina

*TEXT

CONTROL NO.

SITUATION

The Agricultural Extension Service is an identified reliable source of home food preservation information. With renewed interest in home preservation due to inflation and energy constraints, the need for updated and reliable information is critical. Also, concerns regarding additives, processing procedures, naturally occuring toxicants, sanitation and safe energy conservation are being voiced by consumers. Increased efforts by Extension educators to aid clientele in interpreting this information and applying it to daily living will help consumers to obtain benefits from science and technology.

OBJECTIVES

5,000 families preserving food at home follow correct procedures.
40,000 individuals follow safe food handling procedures in home and at group meal preparation sites.

ACCOMPLISHMENTS AND EVALUATION

Education in food preservation and safety focused on proper use of food preservation equipment, use of safe food preservation procedures, and selection of preservation preparations for reduced calorie and sodium dietary needs. Accomplishment data were collected in three ways: 1) A questionnaire (EV2F3) was mailed to 382 participants of selected food preservation education events. 42 percent (160) returned usable questionnaires. 81% gained answers to questions, 62% received new ideas, 49% reported greater skills, 52% reported increased confidence as benefits of the experience. 51% continued to use proper procedures for processing meats/vegetables, while 30% indicated a change to the proper technique. 57% reported continued use of proper processing of pickles/relishes with an additional 28% indicating a change to the recommended procedure. 35% reported prior use of processing for jelly and jam with 30% planning to adopt the procedure. 69% used proper processing times/procedures for tomatoes. 2) Individual county accomplishment reports contained data that at least 29,466 individuals/families utilized safe and approved food preservation methods. This data, with EV2F3 data, where the average dollar value of preserved food per respondent was \$128, gave a calculation of \$4,066,308 of food preserved by safe and approved methods. 3) Nine additional counties trained Master Food Preserver (MFP) volunteers. 57 volunteers entered the program with 55 (96%) graduating as MFP volunteers. In the first three months of volunteer work, 54 volunteers averaged 20 hours of volunteer time with 61 hours being the greatest time for a volunteer. Volunteers averaged 53 contacts. FUTURE IMPLICATIONS

Unsafe and nonrecommended food preservation practices are still being followed by some clientele. Nineteen percent of the respondents to the EV2F3 evaluation continued to use unsafe practices for meat/vegetables, and 31% were using outdated tomato processing times. Continued emphasis on changing these practices will be addressed in the food preservation area.

*CONTACT

Carolyn J. Lackey, Extension Food & Nutrition Specialist Nadine F. Tope, In-Charge, Extension Foods & Nutrition Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a somma—tip not abbreviate keywords.

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Foods, Nutrition and Health

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North Carolina Expanded Food and Nutrition Education Program

NC111 *TEXT

SITUATION

LONTROL NO.

Twenty-two percent of North Carolina households below the poverty level have indicated inadequate nutrition. Meager resources and low-income lifestyles carry the potential for poor dietary habits and related health problems. Milk, fruits, and vegetables are most often lacking in their diets. The State EFNEP program is presently conducted in 43 units with 158 aides employed on a three fourth's time basis to work with low income families and youth to improve their diets in normal nutrition.

OBJECTIVES

1) 40,000 enrolled EFNEP families consume diets that meet minimum number of recommended servings of each food group. 2) 40,000 youth, 6 to 19, participate in activities to improve dietary habits. 3) 6,000 volunteers develop leadership skills. 4) EFNEP units, a) increase participation parity, b) utilize EFNEP users in advisory capacities, and c) develop communication and cooperative relationships with relevant agencies.

RESOURCES

Volunteer leaders and cooperating agencies. ACCOMPLISHMENTS AND EVALUATION

Based on 1985-86 annual EFNEP reports, 7,103 enrolled EFNEP families were involved in learning experiences focusing on improving their nutritional status. Entry and exit recalls revealed that only 51% of homemakers entering the program, compared to 77% of homemakers exiting the program, had one or more servings of the four food groups. Six percent entering, compared to 28 percent exiting, reported consumption of recommended servings from each of the four food groups. 10,200 youth 6 to 19, participated in learning experiences designed to improve dietary habits. The EFNEP program was supported by 2,945 volunteers who received training and contributed their 32,421 hours and other resources to the development of youth and adult groups. Findings from comprehensive reviews conducted in one-fourth of the existing units this fiscal year revealed 90% have utilized EFNEP users in advisory capacities and all have established or designed a plan of action to communicate and cooperate with relevant agencies.

To increase the cost effectiveness of EFNEP, future efforts will be directed towards implementing more frequent family visits for graduation within 12 months, more group teaching for adults, use of a standardized curriculum and utilization of innovative program delivery methods such as adult day camps, newsletters and area meetings. Integration of EFNEP families into ongoing Extension program by group and media oriented experiences will be emphasized.

*CONTACT

Mary J. Whitmore, EFNEP Coordinator Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2782 Key words are words and phrases that others will use when searching the data base. The key words list can be used as a duide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a nomina - do not appreciate keywords.

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Expanded Food and Nutrition Education Program

EFNEP families, volunteers, 4-H EFNEP youth, professionals,

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Video, workshops, district, area and multi-county meetings, conference, computer assisted program, and home teaching

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NC111A

Foods, Nutrition and Health - North Carolina Expanded Food and Nutrition Program Directive: Senate Report (98-566)

*TEXT

SITUATION

The Senate Report (98-566) Appropriation Bill 1985 cited the Committee's concern for increased emphasis for nutrition advice for low-income families. The committee expects the Expanded Food and Nutrition Program to place more emphasis on assuring that all eligible individuals are made aware of the various federal nutrition programs.

OBJECTIVES

6,000 EFNEP families and other eligible individuals/families to be made aware of various federal nutrition programs.

Cooperating agencies included WIC, Food Stamps, School Lunch and Commodity Food Programs.

ACCOMPLISHMENTS AND EVALUATION

EFNEP professionals in 43 units made contacts with food stamp offices to review benefits, regulations and requirements and establish a structured referral system between agencies. Brochures entitled "Is EFNEP for You" were made available to WIC and Food Stamp offices. All EFNEP aides received in-service training on federal nutrition programs and distributed flyers "Facts about Food Programs" to all enrolled and potential EFNEP clientele. A pamphlet "EFNEP... Nutrition Education That Is Helping Families in North Carolina" was made available to agency representatives for public relations.

EFNEP units will continue to maintain mutual referral system with relevant agencies and keep updated on food program benefits and regulations. Food Stamp and other nutrition program personnel will be asked to participate in orientation and in-service training for aides on a regular basis.

*CONTACT

Mary J. Whitmore, EFNEP Coordinator Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2782

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1987

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NC112

Energy and The Living Environment in North Carolina -

*TEXT

SITUATION

CONTROL NO.

County Advisory Committees have identified several problems which affect how North Carolina families manage the environment in which they live. These include: high energy costs and increasing energy demand, using energy conservation strategies that are compatible with lifestyles, using available resources for energy retrofits and home designs, utilization of space to meet the needs of family members, and limited understanding of the value and appreciation of a well-designed home. PROGRAM SEGMENTS - (a) Lifestyles and Energy Management, (b) Energy Retrofits, (c) Energy Efficient Design, (d) Physiological Environment, and (e) Psychological Environment.

OBJECTIVES - 1) North Carolina families will use energy conservation strategies that are compatible with family lifestyles. 2) North Carolina families will plan and use energy-efficient and cost-effective conservation measures for existing homes. 3) North Carolina families will plan and select energy-efficient and cost-effective conservation measures for new homes. 4) North Carolina families select materials, styles, designs and plan arrangements for more efficient use of space in the home. 5) North Carolina families develop an understanding and appreciation for the value of a well-designed home to the psychological well being of all family members. RESOURCES - Volunteers, NCSU Solar Research and Demonstration House, N. C. Department of Energy, utility companies, local government weatherization agencies and Councils on Aging.

ACCOMPLISHMENTS

1) 15,732 families used energy conservation strategies such as installing auxiliary heating devices and energy-saving window treatments, improved energy habits and management skills, and reduced water consumption for a dollar value of \$6,020. 2) 20,402 families and youth implemented conservation measures in existing homes, used energy audits to increase knowledge, and gained knowledge of passive solar retrofit options resulting in dollar values of \$46,445 and a 10-20% reduction in consumption. 3) 42,232 families and youth built or bought new homes with at least one energy-cost efficient feature and increased their knowledge of passive solar designs and other alternative energy applications resulting in dollar values of \$12,500. 4) 28,919 families gained knowledge or used space stretching techniques, improved storage and kitchens to make their homes look and live larger for a dollar value of \$74,200. 5) 4,138 families completed do-it-yourself decorating projects such as painting, rearranging and refinishing furniture, constructing window treatments to improve the interior of the home for a dollar value of \$800,748. EVALUATION - County accomplishment reports, site observations, interviews, Extension Plan Service records, mailed surveys, telephone surveys, face-to-face contacts, and end-of-program surveys.

FUTURE IMPLICATIONS - More program emphasis on limited-resource families and elderly families. Families need additional help with decisionmaking in energy management, solar retrofits, applications and interiors, small space living, and planning space for children's needs.

*CONTACT

Glenda M. Herman, Sandra A. Dellinger, Wilma S. Hammett, Harriet T. Jennings, Judieth Mock Home Economics Extension Specialists Box 7605, NCSU, Raleigh, NC 27695-7605 (919) 737-2770 Keywords are viords and objects that others will use when searching the data base. The keywords list can be used as a guide for selecting words, in addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

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Program Title (Include State Name in Title)

NC113

Energy and The Living Environment - Lifestyles and Energy Management in North Carolina

SITUATION - Recent surveys indicate that many families would like to reduce home energy use through measures that don't compromise family lifestyles or well-being. The elderly and limited-resource families are especially concerned with the reduced energy or alternative energy choice. With any energy conservation measure or alternative energy choice, the family is faced with compromises based on economics, safety and quality of the home environment.

OBJECTIVE - Families will become more proficient in investigating, evaluating and implementing energy management strategies that are compatible with family lifestyles. Expected results include: 1) 25,000 families will increase their knowledge about selection, use, and energy efficiency of auxiliary heating devices. 2) 40,000 families will implement one or more energy conservation measures to improve the thermal characteristics of windows in the home. 3) 10,000 elderly and limited-resource families will select energy conservation measures and use energy management practices appropriate to maintain family well-being. 4) 10,000 families will increase their knowledge of the thermal properties of textiles to better select thermally comfortable clothing suited to their environment conditions. 5) 25,000 households will practice energy saving laundry methods that result in achieving acceptably clean laundry. ACCOMPLISHMENTS - 1) 1,678 families in 19 counties become more knowledgeable about selection and use of auxiliary heating devices. 50 families in two different counties reported safe installation practices and a 5-10% energy cost reduction from use of auxiliary devices. 92 families in five counties took measures to improve the air quality of their residences, and 718 families gained knowledge about residential air quality. 1,594 families in 12 counties became more knowledgeable about moisture control for their residences and 300 families made improvements valued at \$5,000 in moisture damages to homes. 2) 2,609 families in 20 counties gained knowledge, learned skills and increased the energy efficiency in windows in their homes through interior and exterior insulating and shading applications. 15 families in one county made energy improvements to 45 windows that resulted in a value of \$1,020. 3) 1,360 elderly and limited-resource families selected and used appropriate energy management skills to maintain well-being. 4) 630 elderly North Carolinians increased their knowledge about space heating requirements and clothing practices to prevent hypothermia. 5) 2,735 families in 14 counties gained knowledge of water conservation and 437 families in seven counties reduced consumption by water-saving practices. EVALUATION - Mailed questionnaires, county accomplishment reports, face-to-face contacts, and surveys used at end of programs.

FUTURE IMPLICATIONS - Additional programming emphasis should be directed toward limited-resource families and the aging. Air quality and moisture control programming needs to be increased, with evaluation tools needed to aggregate data in these areas. Water conservation programming should be increased.

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*CONTACT

Sandra A. Dellinger, Wilma S. Hammett Harriet T. Jennings, Judieth Mock Home Economics Extension Specialists Box 7605, NCSU, Raleigh, NC 27695-7605 (919) 737-2770 Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma – do not appreciate keywords.

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NC114

Energy and The Living Environment - Energy Retrofits in North Carolina

SITUATION - The U. S. Bureau of Labor indicated that energy costs increased 288.88% from 1970 to 1982. County problem reports cite increasing energy costs as a major problem for young families, the elderly, and those with limited resources. Families need to improve decision-making skills for energy conservation strategies that stablize or reduce home energy costs or consumption.

onsumption.

OBJECTIVES - Families will become more proficient in investigating, evaluating and implementing energy conserving measures in existing residences. Expected results include: 1) 20,000 families will implement one or more cost-effective energy conservation measure in the home to reduce energy consumption or increase energy savings. 2) 15,000 elderly and limited-resource families will implement one or more appropriate low-cost or no-cost conservation measure in the home. 3) 20,000 families and 3,500 youth will increase their knowledge or measuring home energy use before and after implementing energy conservation measures. 4) 30,000 families will increase their knowledge of passive solar retrofit applications for the home.

ACCOMPLISHMENTS

1) 12,904 families in 45 counties learned about and/or made cost-effective energy conservation measures for their homes. 2,415 families in 20 counties completed one or more weatherization project. In two counties, 368 mobile home residents insulated and weatherized their homes, with a resulting 10% reduction in energy costs. In five counties, home energy projects such as insulating the water heater and improving space heating systems were completed by 1,149 families and resulted in an estimated dollar value of \$33,245. 437 families in seven counties installed water-saving devices and 2,735 families gained knowledge about water conservation. 2) 1,096 elderly and 313 limited-resource families used at least one low-cost or no-cost conservation measure in their homes. In one county, 444 Extension Volunteer hours resulted in 75 homes of limited-resource families being insulated and weatherized, with \$6,700 energy reduction resulting. 461 elderly in two counties made weatherization improvements that resulted in a 10% drop in energy consumption, or \$4,500 in energy savings. 3) 1,005 families and 127 youth gained knowledge of home energy use, with 300 families in one county reducing consumption 10-15% after seminars on energy management. 30 families in this group enrolled in time-of-use programs offered by utilities; 60 enrolled for water heater control management, while 40 others insulated their water heaters. 72 youth learned meter-reading skills and monitored home energy use before and after making energy improvements. 4) 990 families in 9 counties increased knowledge of passive solar retrofit applications for homes. 30 families in 6 counties made appropriate decisions about the most effective passive solar improvement for their homes, with an estimated \$2,000 energy reduction resulting from the retrofit projects. EVALUATION - Mailed questionnaires, county accomplishment reports, telephone surveys, interviews, site observations, and end-of-program surveys. FUTURE IMPLICATIONS - Additional programs are needed for limited-resource families and the aging. Families need further assistance with evaluating passive solar retrofit options. A series of statewide solar seminars is being developed.

*CONTACT

Sandra A. Dellinger Extension Housing Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Keywords are words and chrases that others will use when searching the data lease. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct world or phrase with a normal — do not aphrayiate keywords.

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Energy and The Living Environment - Energy Efficient Design in North Carolina

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NC115 *TEXT

SITUATION - Space conditioning, water heating, and air infiltration account for at least 80% of North Carolina home energy costs. These costs could be substantially reduced in new homes by the use of energy efficient design and building practices. County reports document that families need to improve decision-making skills to incorporate energy efficient and cost-effective design strategies in new homes. OBJECTIVES - Families will become more proficient in investigating, evaluating and implementing energy efficient design strategies in new homes. Expected results include: 1) 15,000 families building new homes will include one or more energy and cost efficient design features in the home. 2) 20,000 families and 3,500 youth will increase their knowledge of alternative energy applications to new home design. 3) 5,000 families will live successfully with passive solar designs so that the designs function efficiently, are attractive and livable and the furnishings and their arrangement are appropriate. 4) 20,000 families buying new homes will select a home with one or more energy and cost efficient design features. RESOURCES - Volunteers, NCSU Solar Research and Demonstration House, North Carolina

Department of Energy.

ACCOMPLISHMENTS - 1) 1,531 families in 19 counties built homes that incorporated at least one energy and cost efficient design feature. 10 families in one county estimated a dollar value of \$12,500 as a result of Extension information. 14 families specified Extension energy-efficient house plans to be built and 10 families in 9 counties incorporated solar features in their homes as a result of Extension information. Two counties have Demonstration House projects underway. 2) 2,802 families, including 517 older adults, and 225 youth in 14 counties increased their knowledge of alternative energy applications to new home design. 84 out of 337 families in 7 counties who participated in Extension alternative housing tours indicated plans to incorporate techniques and ideas learned from the tours in the construction of their homes. 3) 935 people in 9 counties have increased their knowledge of passive solar design and its functional application to interior spaces. 27,000 persons increased their knowledge of passive solar design by touring the NCSU Passive Solar Demonstration House. 4) 1,073 families who bought new homes selected a house that had one or more energy and cost efficient design feature. One county held a 4-part series for 61 potential homebuyers. Housing tours in 7 counties helped 337 families gain new ideas about energy conserving features for new homes. EVALUATION - County accomplishment reports, site observations, interviews, Extension Plan Service records, NCSU Solar House records.

FUTURE IMPLICATIONS - Additional information on solar livability and decision-making about solar features is needed. Programming on energy-efficient house design that minimizes moisture and air quality problems is being developed. An evaluation tool

needs to be developed in this area.

*CONTACT

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Program Title (include State Name in Title)

NC116

Energy and The Living Environment - Physiological Environment: North Carolina Homes

*TEXT SITUATION

Housing decreased in size 9% between 1978 and 1980. By the mid-80's the average size house will be 1,400-1,500 sq. ft. This downsizing increases the importance of functional, efficient and attractive interiors. Many families who move into downsized housing especially older adults find adapting to the reduced space physiologically difficult. OBJECTIVES

1) 20,000 families use one or more techniques to make the space in their home appear larger and/or become more efficient through the selection and arrangement of furnishings, through decorating techniques and through improved management or addition of storage. 2) 15,000 elderly adults adapt physically to the reduced living space in downsized housing. 3) When buying furniture for their home 5,000 families choose furniture that is multi-functional and adapts well to their changing needs.

RESOURCES - NCSU Solar Research and Demonstration House, volunteers. ACCOMPLISHMENTS

2,431 families in 14 counties gained knowledge of techniques to make the space in their homes function more efficiently and appear larger. In two counties 325 people participated in a program on "Small Space - How To Make It Look Bigger." Over 62% or 201 people had improved their storage space by adding or converting storage space through building or remodeling and 26% or 85 people by adding storage devices. Over 50% or 165 people had improved the living space by rearranging furniture in one or more rooms to make better use of the space. After making improvements 50% or 163 people indicated they use the living space more and can have more activities in the same area. In decorating to improve the look of spaciousness over 44% or 143 selected window treatments to blend or match wall color, 41% or 133 painted the walls a light color and 32% or 104 selected simple window treatments to keep the windows from looking heavy. In another county 24 people reorganized the space, donated or sold unused items at yard sales and earned \$3,000.

Over 25,000 people who toured the NCSU Passive Solar Research and Demonstration House gained knowledge of how multi-purpose furniture, small scale furniture and small patterns can make small rooms look larger and be more functional.

Over 712 families in nine counties improved their kitchen or bathroom storage for an estimated dollar value of \$100/family. EVALUATION

EV-2, H-8 mailed survey was used in two counties. County accomplishment reports were used in all other counties. FUTURE IMPLICATIONS

A program on small space living for the elderly is in the developmental stage. Fewer counties are using EV-2 instruments to evaluate data.

*CONTACT

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Energy and The Living Environment - Psychological Environment: North Carolina Homes

Program Tide (Include State Name in Title)

NC117

SITUATION

Technological advances in the 80's will make it possible to live, work, play, and shop at home. Thus, the home is emerging as the main arena, yet its size is decreasing. Creating a functional, yet aesthetically pleasing and comfortable environment will be a challenge. Primary concerns will include the quality of the interior environment, space for privacy, space to encourage growth and development of children and the psychological adjustments of older adults to smaller spaces.

OBJECTIVES

1) 5,000 young families with children develop space(s) in the home to accommodate the personal needs and growth of both parent(s) and children. 2) 30,000 families make decorating changes in the interior of their home and recognize the importance of an attractive and comfortable environment to their own well-being. 3) 2,500 older adults adapt psychologically to the reduced living space in downsized housing.

RESOURCES - Volunteers.

ACCOMPLISHMENTS

782 people in 42 counties refurbished 1,163 pieces of furniture and 79% or 618 used the furniture to make their home more attractive. The dollar value of their efforts is estimated at \$268,098. Over 3,520 people in 45 counties completed do-it-yourself projects to improve the interior of their home and make it more livable. Over 65 families in four counties redecorated the den or family room while 55 families redecorated the kitchen. The most noticeable changes were changing the paint color (30%) and rearranging the furniture (9%).

Approximately 2,100 people in 14 counties developed decorating skills to make

their home more attractive.

Two counties reached 517 older adults with housing options information, i.e. living in smaller spaces, ways to make spaces safer and more comfortable. In one county where 360 older adults were reached, 67% or 241 adopted two or more practices. Over 50 older adults reported using the information to make housing decisions. EVALUATION

Surveys EV-2, H-1; EV-2, H-6; EV-2, H-8 and county accomplishment reports were used.

FUTURE IMPLICATIONS

A program on children's rooms is being developed presently.

*CONTACT

Wilma S. Hammett Extension Interior Design Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Reywords are words and phreses that others will use when searoning the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comparation of approximate keywords.

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Program Title (Include State Name in Title)

NC118

Family Strengths and Social Environment in North Carolina Summary

SITUATION - In spite of a general history of continuity for North Carolina families, the pace of social change makes it necessary to improve educational efforts to strengthen families and the social environment. Economic stress has devastated many of our farm families. The divorce rate is still high, and the number of one-parent families continues to increase. Other problem areas for families are poverty, adolescent pregnancy, drug abuse, poor relationships within families, and the growing number of older dependent parents or relatives. Educational programs must provide skills for interpersonal relationships in all types of changing families and households. Parenting knowledge and skills, child care, skills to deal with stress, and skills to prolong independent living for older adults are all pressing needs for families in the '80's.

PROGRAM SEGMENTS - 1) Family Interpersonal Relationships, 2) Stress, 3) Self-Esteem, 4) Parenting, and 5) Adult Growth and Development.

OBJECTIVES - 1) North Carolina couples and families use recommended communication skills to improve interpersonal relationships, 2) Families practice stress management and coping skills, 3) Families and household members enhance their own and others' self-esteem, 4) Working parents, child care workers, youth and community leaders deal effectively with family-work related problems and gain knowledge and skills in child care, growth and development, 5) Adults plan and adjust to retirement and the elder years.

RESOURCES - Volunteer leaders, cooperating agencies and groups.

ACCOMPLISHMENTS - 1) Out of 10,921 participants in 45 counties, 8,024 gained knowledge, and 2,698 changed some behavior related to interpersonal relationships.

2) Reports of stress programs from 56 counties showed 12,857 participants, 6,560 using skills, 8,803 gaining knowledge, and 4,773 changing attitudes. 3) Knowledge related to self-esteem was gained by 2,428 persons out of 5,958 participants in 26 counties. Behavior was changed by 1,534. 4) Parenting knowledge was gained by 11,731, skills were used by 7,013, and 2,140 changed behavior. 10,427 were reached through newsletters. 5) 5,646 adults gained some knowledge about retirement, with 3,023 changing some behavior. 4,822 gained knowledge about independent living, while 1,240 used at least one new skill for independent living. 10,468 adults took part in programs in this adult growth and development area. In all five segments a total of 2,001 volunteer leaders were trained to help.

EVALUATION - County accomplishment reports, EV-1 forms, EV-2 mailed questionnaires, telephone surveys and personal contact were all used to evaluate programs. FUTURE IMPLICATIONS - 1) In spite of some excellent work being done in many areas of the state, the task of strengthening families through education is always new and challenging. 2) The areas of parent education, family stress, and helping families cope with aging dependent relatives are great challenges for the next few years.

*CONTACT

Leo F. Hawkins, Human Development Specialist Cynthia E. Johnson, Human Development Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770

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Program Area(s)	Home Economics
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88 11831	Education, Adult Growth and Development
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Program Tixle (Include State Name in Title)

NC119

Family Strengths and Social Environment
Family Interpersonal Relationships: North Carolina

*TEXT

SITUATION

North Carolina's marriage and divorce rate seems to have stabilized, but the ratio of divorces to marriages is still around 50/100. More young adults are choosing to delay marriage, not get married, or not to have children. The number of one-parent families continues to increase and an increase is noted in households headed by divorcees, young people and the elderly. Two-career households have increased rapidly. The fastest growing group in the labor force is women.

All these changes mean that a workable marriage or a healthy relationship between individuals in a household depends upon skills that develop a satisfying relationship and not upon obligations involved in a traditional marriage. The necessity of teaching the skills of interpersonal relationships is greater than ever.

OBJECTIVES

4,000 persons learn and 3,000 family or household members utilize recommended skills related to communication and interpersonal relationships.

RESOURCES - Volunteer leaders, cooperating agencies and groups.

ACCOMPLISHMENTS

45 counties conducted educational programs on interpersonal relationships including Extension Homemaker programs, classes conducted in a series, seminars conducted for young adults and teen-agers, and special programs designed for widow groups and civic clubs. 10,921 participants took part in these programs and 8,024 reported gaining some knowledge. 4,872 learned a skill and 2,698 reported a change in behavior. 502 leaders were trained to prepare for and conduct these programs. 36,450 newsletters were mailed and 135,892 people were reached through radio and newspapers. EVALUATION

In some counties a questionnaire was mailed to participants approximately two months after the program. In all counties agents completed an accomplishment report from data collected at meetings and from telephone surveys.

FUTURE IMPLICATIONS

Personal life satisfaction studies still show that the majority of people depend upon intimate relationships in a family or household for primary life satisfaction. At the same time family and household changes make it difficult for many people to reach a desired level of interpersonal security and satisfaction. Extension educational efforts in this area must seek creative ways to help fill part of this gap.

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*CONTACT

Leo F. Hawkins Human Development Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Keywords are words and phrases that others will use when searching the data hase. The keywords list can be used as a guide for relecting words. In addition, words not supearing on the keyword list may also be used. Separate each distinct word or phrase

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Family Strengths and Social Environment

NC120

Stress: North Carolina

SITUATION

The number of North Carolina farms has dropped from 90,000 in 1981 to 73,000 in 1986 - a 19% drop in five years. A February, 1986 survey by the Crop and Livestock Reporting Service shows that about 19% more farmers are under financial stress. An economic analysis shows that by January, 1987, perhaps 1/3 of North Carolina farmers could have a debt/asset ratio of 40% or more and/or have cash flow problems. If this assumption is valid, 23,000 North Carolina farmers could be experiencing some form of financial distress.

In addition to economic stress among farm families, there are fewer jobs in the textile industry than at any time since records were kept in 1947. The North Carolina average rate of unemployment remains slightly below the national average,

but in some specific counties the unemployment rate is above 20%.

Other evidence of stress upon North Carolina families are divorce, one-parent families, teenage pregnancy, aging dependent relatives, human abuse and drug abuse. OBJECTIVES

7,500 family and household members use coping skills to reduce or to deal with personal and social stresses of life.
RESOURCES

Volunteer leaders, cooperating agencies and groups. ACCOMPLISHMENTS

Out of a reported participation of 12,857 in organized programs, classes and special seminars dealing with family stress, there were 6,560 who used some coping skill to reduce or deal with personal and social stresses in life. In addition, 8,803 gained knowledge about dealing with stress and 4,773 changed some attitude. The entire program trained 704 volunteer leaders who helped with the programs. Specific farmers who were identified as helped in these programs were 1,263 in meetings and 225 by telephone. In one specific sample of 68 respondents, 47% changed behavior related to exercise, 68% adopted meditation, 74% improved communication, and 69% reported lower stress.

Agents used: 1) county accomplishment reports, 2) EV-1 forms for programs when they were presented, 3) EV-D2 forms mailed some weeks after the programs, 4) telephone checks, and 5) personal observation and reports.

FUTURE IMPLICATIONS

The problem of family stress, especially farm family stress is not expected to be eased for several years. Economic stress on farms, change of jobs away from industry, family change, and the pace of current living are expected to provide a challenge for new approaches to this problem in the near future.

*CONTACT

Leo F. Hawkins
Human Development Specialist
Box 7605, NCSU
Raleigh, NC 27695-7605 919-737-2770

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*TITLE Program Title (Include State Name in Title)

CONTROL NO. | Family Strengths and Social Environment - Stress Management, NC121 | North Carolina, 1890

*TEXT

SITUATION: A major problem of families and individuals in North Carolina, as identified by the Extension Advisory Leadership Committee, was the inability to cope with stress resulting from social and economic pressures. Mental and physical abuse between family members, alcohol and drug abuse and low self-esteem were cited as problems associated with family stress. The literature suggests that the poor experience comparatively more stress and that the impact of that stress is more severe for poor families than for middle and upper income families. Family members need to develop an awareness of stress as a factor influencing the quality of life and to learn and practice wholesome stress management skills.

OBJECTIVES: Four thousand limited-resource family members practice wholesome stress coping and management skills to minimize or reduce family and

personal stresses.

RESOURCES: Public Libraries, Churches, Recreation Departments, Community

Centers and Organizations.

ACCOMPLISHMENTS: Four hundred thirty-six individuals (125 prison inmates and 310 limited-resource persons) participated in a variety of small group and one-to-one learning experiences on stress managament. Follow-up evaluations revealed the following.

	1985	1986
Number increased knowledge	233(72%)	327(75%)
Number improved skills	233(72%)	318(73%)
Number practiced skills learned	185 (57%)	283 (65%)

EVALUATION: Evidence of accomplishments was acquired through pre and post tests, telephone interviews with samples of participants, and a state prepared evaluation form (EVI).

FUTURE IMPLICATIONS: Since stress can have a significant impact on the quality of life, continued emphasis will be placed on helping families to better manage their stress.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail 1D (when appropriate)

The Image J. Feaster

Family Education Council and an Alberta Council and a Council an

Family Education C:ordinator/Human Development Specialist P. O. Box 21928, Greensboro, NC 27420-1928

(919) 334-7956

FY 84-87 Accomplishment Report - NARS

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

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Control No. NC121

State North Carolina Fiscal Year(s) 1986

Program Area(s) (List as many as apply)

Home Economics

Subject Matter Area

Family Strengths and Social Environment

Commodity/Subject

Stress Management

Audience

Limited-resource youth and adults

Methods

Home visits, small group session, special interest workshops

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Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Type (Include State Name on Type)

Family Strengths and Social Environment Self-Esteem: North Carolina

NC122

SITUATION

Perhaps the largest factor in causing low self-esteem in North Carolina, is poverty. The proportion of the state's population in poverty has been growing, from 15% in 1980 to 17% in 1984, and by 1986 including one of every four children. The chairman of a special report (7-6-86) said, "The consistent theme you see throughout the spectrum of poverty is people who are losing hope." In a success oriented society one of the most humiliating situations for children is to live in poverty.

Another factor is the difficulty adolescents have in growing toward maturity. An alarming proportion of North Carolina teenagers drop out of school, commit crimes, are unemployed, become pregnant, abuse drugs and alcohol, commit suicide or die of injuries.

At the other end of the age groups, about 192,000 of the state's residents over 62 years of age have incomes below the poverty level.

OBJECTIVES

- 2,000 family and household members practice specific techniques to enhance the self-esteem of themselves and others.
- 2,000 family and household members gain knowledge designed to help enhance the self-esteem of themselves and others.

RESOURCES

Volunteer leaders, cooperating agencies and groups. ACCOMPLISHMENTS

County accomplishment reports show that 5,958 adults and youth participated in programs related to self-esteem. Of that number, 2,428 gained knowledge that was helpful and 1,541 practiced some skills to enhance self-esteem. Some behavioral change was reported for 1,534 persons. 26 counties participated in self-esteem programs and trained 327 leaders for volunteer help in teaching groups. 30,000 people were reached by radio. An example of 62 participants in two counties were sampled and revealed 68% worked on a specific developmental task, 50% enhanced their own self-esteem, and 37% helped another person to improve self-esteem. EVALUATION

Participant responses at meetings, telephone surveys, and questionnaires mailed weeks after the programs, were used for evaluation. FUTURE IMPLICATIONS

Self-esteem will continue to be important in Human Development programs, but it will probably be incorporated into programs such as The Rearing of Children, Intergenerational Relationships, and Adolescent Issues.

*CONTACT

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Kaywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for, selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase

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Program Title Unclude State Name in Titles

Family Strengths and Social Environment
Parenting Education: North Carolina

NC123

SITUATION - The continuing need for parent education in North Carolina is clearly indicated by the high rates of teenage births, infant mortality, child abuse and neglect, divorce, drug usage, single-parent families, stepfamilies, and working mothers with children under age 18. The vast majority of individuals and couples who bring a new child home have received very little or no training in the complicated art of parenting. In order that families be better prepared to socialize members, more educational programs in child development and child care are needed.

OBJECTIVES - 12,000 youth, expectant parents, parents with children of all ages, parents rearing children in limited resources or non-nuclear families and volunteer leaders acquire skills and gain knowledge in child care, growth and development.

4,500 parents, grandparents, youth and adolescent parents increase knowledge in child care, growth and development and practice skills in effective parenting. RESOURCES - Volunteer leaders, cooperating agencies and groups. ACCOMPLISHMENTS - Knowledge was gained by 11,731 parents, expectant parents, youth and volunteer leaders in child care, child development and effective parenting through classes in parenting, expectant parent classes, human abuse seminars, training for leaders to help latchkey children and scheduled classes of pre-release prisoners and incarcerated individuals. Of this number, 3,867 individuals reported acquiring skills of effective parenting while 2,140 individuals reported behavioral changes as a result of participating in parent education programs. 1001 parents, youth and teachers participated in programs on adolescent pregnancy, human sexuality and adolescent maturity.

Skills in parenting were also learned by 2,291 youth through 4-H projects in babysitting and child care and other special interest programs. 1,419 children were fingerprinted as part of the volunteer program in human development.

10,427 parents were reached through newsletters. 76 leaders were trained to teach parent education and 855 individuals improved parenting leadership skills.

Surveys of parenting classes for parents of infants and toddlers showed that 72% changed expectations of their children, 70% changed attitudes and habits, 72% increased knowledge of the principles of child growth and development and 54% increased their confidence as parents.

 ${\tt EVALUATION}$ - County accomplishment data followed by mailed questionnaires (EV-2 D-1) and a special evaluation that combined mailed questionnaires and telephone contacts

were used.

FUTURE IMPLICATIONS - Because of working mothers and those without transportation who cannot attend courses or classes, it still appears that more parents can be reached in prenatal and infancy stages of development whether they work or not. Newsletters, home study courses and other media approaches seem to be effective ways to reach parents and will need to be increased to reach specific groups of parents.

*CONTACT

Cynthia E. Johnson Human Development Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Keywords are words, and prieses that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma – do not abbreviate keywords.

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State	North Carolina							
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1987

Program Title (Include State Name in Title)

CONTROL NO. | Family Strengths and Social Environment in North Carolina - Parenting NC124 Education, 1890

*TEXT

SITUATION: The Extension Advisory Committee ranked lack of effective parenting skills among the top 10 problems of limited-resource families in North Carolina. Research has shown that a basic knowledge of child care. growth and development helps parents understand their children better, that parents can learn more constructive methods and techniques for handling child rearing concerns and problems, and that parenting education reduces problems such as educational and failure and child abuse.

Limited-resource parents, especially those with young children, need information on child care, growth and development, and successful parenting

practices.

OBJECTIVES: Four thousand five hundred parents, grandparents, youth and adolescent parents increase knowledge in child care, child growth and development and practice skills in effective parenting.

RESOURCES: Advisory Leadership Committee, Health and Social Services Department personnel, National Committee for Preventing of Child Abuse.

Family Life Council.

ACCOMPLISHMENTS/EVALUATION: A total of 582 individuals (378 or 65% limited-resource persons) participated in a variety of learning experiences in parenting and child development. Of the total number, 441 parents and grandparents (277 or 63% limited-resource persons) participated in a series of sessions on child care, guidance, behavior, abuse and neglect and effective parenting. Immediate feed-back, general observations, and pre and post tests revealed that 367 or 81% of the participants increased their knowledge and skills in effective parenting and preventive child abuse and neglect techniques. Also, 194 or 44% of the participants indicated that they are practicing the skills learned.

Fifty-two pregnant teens participated in a series of learning experiences on infant growth and development. Pre and post tests revealed that 44 or 85% of the teens increased their knowledge of infant growth and development.

Of the 89 youth who participated in a series of baby-sitting learning experiences, 77 or 87% increased their knowledge of characteristics and responsibilities of a baby-sitter, activities for small children, and safety and emergency techniques (evaluated by pre/post tests). A telephone survey of the participants revealed that 54 or 61% of the youth used the information learned.

FUTURE IMPLICATIONS: Efforts in this area will be continued.

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(919) 334-7956

^{*}CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Thelma J. Feaster

Family Education Coordinator/Human Development Specialist

FY 84-87 Accomplishment Report - NARS

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

*KEYWORDS

Control No. NC124

State North Carolina

Fiscal Year(s) 1986

Program Area(s) (List as many as apply)

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Subject Matter Area Family Strengths and Social Environment

Commodity/Subject Parenting education; child care, growth and development

Audience Young families with children, limited-resource families, youth, and

adolescent parents

Home Economics

Methods Home teaching visits, small group sessions

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367 parents, grandparents
194 parents, grandparents
194 parents, grandparents
44 pregnant teens
77 youth
54 youth

-	Expended Time (FTE) on Program *EXPENDED FTE			*VOLUNTEER			Scope of Program Number of Counties *SCOPE	
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^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Tiste (Include State Name in Title)

NC125

Family Strengths and Social Environment Adult Growth and Development: North Carolina

*TEXT

SITUATION - By the year 2,000 the 60 and over population in North Carolina is expected to increase by 25% to 1,244,624 from 992,809. The 80 and above population will swell by 71%. The percentage of older citizens in poverty is still above their proportion in the population. The state does not have adequate programs and money to serve the current population of elderly residents, and state officials, according to a task force study, have no comprehensive plan to cope with the increase. The middle-age population (age 40-60) will soon reach above 1,500,000. These midlife citizens need to be better prepared for retirement and older adults need to develop the health and relationship skills to prolong independent living. OBJECTIVES

- *7,000 adults gain information about financial, social and emotional preparation for retirement, and 2,000 adults use such information about retirement.
- *3,000 older adults use management, health and relationship skills to prolong independent living.
- *40 county groups cooperate to help improve services related to alternatives to institutional care.

RESOURCES - Volunteer leaders, cooperating agencies and groups. ACCOMPLISHMENTS - 54 counties reported 10,468 participants in classes and organized group programs related to adult growth and development. 5,646 of these gained some knowledge about retirement, with 3,023 using the information by changing some behavior. 4,822 adults gained knowledge about independent living, and 1,240 used some skill to prolong independent living. 54 counties cooperated with programs sponsored cooperatively by the Extension Service, the County Councils on Aging, and the area agencies on aging. Three counties in turn organized a "Coalition on Aging," a "Council on Aging," and a Senior Citizens Commission. In the total program of adult growth and development, 392 volunteer leaders were trained. 4,000 newsletters were mailed and 158,000 were reached through radio and newspaper. In a careful sample of 34 older adults, 86% gained knowledge and 68% used skills to prolong independent living.

EVALUATION - Evaluation forms were used in a variety of ways with some counties reporting shortly after the events and others waiting weeks or months. Data was gathered on accomplishment reports and on forms planned for computer calculations. Telephone surveys and observation reporting were used in a few situations. FUTURE IMPLICATIONS - Data from the State Data Center and reports from program participants indicate that more emphasis in the next long-range plan of work will need to be given to the problem of aging dependent parents or relatives. Approximately 12 county home economics groups have conducted educational programs on this concern during 1986.

*CONTACT

Leo F. Hawkins Human Development Specialist Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2770 Kaywords are words and encreas that others will use when searching the data base. The keywords list can be used as a quicle for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or obrase

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*TITLE Program Title (Include State Name in Title)

CONTROL NO. | Family Strengths and Social Environment - Adult Growth and Development North Carolina, 1890 NC126

*TEXT

SITUATION: According to the census data North Carolina is not only a growing state, but it is a growing older state. In March 1980 there were 792,420 persons over 60 in North Carolina. Three-fourths of these individuals are in the "young-old" age category of 61 to 75 years of age. There are 1.234.043 persons between the ages of 40 and 60 or 22.5 percent of the state's population. Aging is a natural process of life, yet, few people are prepared to deal with the emotional and social problems which accompany retirement and the process of growing old. There is a need for people, especially the adult population, to learn more about the process of aging, the needs and problems of the lederly and social and emotional preparation for retirement.

OBJECTIVES: 3,500 young adults, middle aged and older adults acquire knowledge and adopt practices recommended for a satisfying and enjoyable

retirement and senior years of life.

RESOURCES: Health and Social Services Department Personnel, Experience and Self Reliance Agency Personnel, Legal Aid, Parks and Recreation

Department Personnel, Funeral Directors.

ACCOMPLISHMENTS: A total of 969 individuals (649 or 67% limited-resource persons and 183 or 14% youth) participated in a variety of learning experiences and programs which focused on adult growth and development, retirement and independent living, death and bereavement and crime prevention. Follow-up evaluations and feed-back revealed the following.

	begin fever 1985 and 10 mm	1986
Number of program participants	411	558
Number increased knowledge of aging	(adults) 296(72%)	413(74%)
Number increased knowledge of aging		87 (45%)
Number increased knowledge retireme		Preyention As
planning	284 (69%)	440(79%)
Number increased recreation skills		
older adults	308(75%)	446(80%)
Number increased knowledge planning	for	
funeral costs	218(53%)	362(65%)
Number increased awareness of crime		T estimate
prevention for older adults	321 (78%)	441(79%)
proteinston for order address	521(70%)	(/5/0)

EVALUATION: Evidence of accomplishments was acquired through immediate feed-back, general observations and pre and post tests.

FUTURE IMPLICATIONS: The rapidly increasing number of senior adults suggests that more work is needed to help individuals become better prepared for this stage of life.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate) Thelma J. Feaster

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(919) 334-7956

FY 84-87 Accomplishment Report - NARS

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*KEYWORDS

Fiscal Year(s)

Control No. NC126

State North Carolina

1986

Program Area(s)
(List as many as apply)

Home Economics

Subject Matter Area

Family Strengths and Social

Commodity/Subject Adult Development, Retirement

Audience Limited-resource adults, elderly

Methods Home teaching visits, small group sessions and other appropriate

Extension teaching methods

Enter Measurable Impacts/Results — Keywords	Enter quantity — (economic or social)
*QUANTIFIED IMPACTS	ACCOMPLISHMENTS: A total of 969
Knowledge of Aging Increased	413 adults 87 youth
Knowledge of Retirement Planning Increased	440 adults
Recreation Skills for Older Adults Developed	446 adults
Funeral Planning Knowledge Increased	362 adults
Crime Prevention Awareness Increased	441 adults
not a	Number increased recreation skill

Expended Time (FTE) on Program *EXPENDED FTE			*VOLUNTEER			Scope of Program Number of Counties *SCOPE		
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^{*}Average local hourly wage for comparable work-not necessarily minimum wage-multiplied by hour equals dollar value.

CONTRAL NO.

*TITLE: Program Title Unclude State Name in Title)

NC127 Volunteerism/Leadership Development in North Carolina - Summary

SITUATION - North Carolina has developed a strong Extension Home Economics volunteer leadership program through North Carolina Extension Homemakers, Advisory Leadership Systems, Master Volunteer Programs, 4-H Youth Leaders, EFNEP, CVU, VEEP Programs, etc. However, 1) Volunteers need to be made more visible and contributions made by volunteers need to be recognized. 2) Volunteers do not receive adequate training to carry out specific jobs and/or responsibilities, and there is no method of matching volunteers with their specific interests and skills. 3) Volunteers may not recognize personal growth that takes place through volunteer efforts and often fail to understand the role and relationship between the volunteer and the professional staff members. 4) The present Extension Homemaker structure is not designed to encourage membership of the young, middle-aged and working homemaker groups. PROGRAM SEGMENTS: 1) Volunteer Visibility and Recognition, 2) Volunteer Leadership Development and Expertise, and 3) North Carolina Extension Homemakers Association. OBJECTIVES - 1) Citizens in North Carolina will increase awareness of the leadership opportunity, outreach efforts and educational information provided through Home Economics Extension volunteer programs and recognition of volunteer contributions will be expanded. 2) Extension Home Economics volunteers will have a high level of expertise in dissemination of educational information toward improving the quality of life of North Carolina citizens. 3) The Extension Homemakers Association will build flexibility in the present organizational structure to encourage involvement of new leadership and full participation of present members. RESOURCES - Volunteer leaders

ACCOMPLISHMENTS - Approximately 3,836,127 persons in North Carolina have had the opportunity to be made aware of the Extension Home Economics Volunteer Programs through mass media. Special emphasis has been placed on recognition of the volunteer and 15,265 volunteers have been recognized publicly. 85,386 volunteers were involved in home economics program planning, implementation and/or evaluation. 9,231 volunteers completed and used group leadership skills. 10,913 volunteers improved skills and demonstrated expertise at local Extension Homemaker meetings. The North Carolina Extension Homemakers Association has reviewed its current structure and is continuing to adapt the Extension Homemaker/Extension Service Task Force recommendations. Official handbook revisions are completed. EVALUATION - Home Economics survey reports (EV-3), agents' accomplishment reports, a mailed questionnaire, telephone interviews, group discussions and individual conferences.

FUTURE IMPLICATIONS - Continue to support and emphasize highly visible Extension Home Economics Volunteer Program with emphasis on recognition, Master Volunteers and Family Community Leadership Programs and Extension Homemaker Programs that will meet need of homemakers of all ages.

*CONTACT

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Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — to not appreciate keywords.

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NC128

Volunteerism/Leadership Development in North Carolina Volunteer Visibility and Recognition

*TEXT

SITUATION

Volunteerism has been identified nationally as a major program emphasis. In North Carolina progress has been made but there continues to be a lack of statewide working documentation of volunteerism and leadership development. Volunteers need to be made visible in Extension home economics programs and contributions made by volunteers to improve the quality of life need to be recognized. Volunteers need to be actively involved in program planning, program implementation and evaluation in home economics at all levels.

OBJECTIVES

1) 1,000,000 North Carolina citizens will become aware of Home Economics volunteer programs, 2) 260,000 Home Economics volunteers will be recognized and participate in opportunities involved with the Extension Home Economics programs. RESOURCES - Mass media/public service - newspaper articles, radio programs/spots, TV programs/spots, volunteer time, etc.

ACCOMPLISHMENTS

Reported opportunities for awareness through the mass media of the Extension Home Economics Volunteer Programs were made for 3,836,127 persons. Over eighty-five thousand (85,386) volunteers were involved and participated in home economics program planning, implementation and/or evaluation through Advisory Leadership Systems, Master Volunteer programs, lay leaders, Extension Homemakers, EFNEP, etc. 9,231 volunteers were recognized through special recognition activities and events for one or more achievements in the area of leadership development, membership, volunteer hours expended, outreach efforts and other individual special achievements.

Three Master Volunteer Programs (MVP) were implemented across the state with recognition of graduates. Fifty-seven (57) volunteers entered the Master Food Preserver (MFP) with 55 (96%) graduating. Twenty-two (22) graduates were recognized for completing the Master Money Manager (MMM) Programs. 152 graduates were recognized for completing the Master Volunteer in Yarn Skills Program.

From 26 counties, home economics agents reported recognizing volunteers through publicized volunteer resource profiles. 3,245 volunteers were recognized with special expertise in various areas of home economics. Thirty-four (34) volunteers received Certified Volunteer Unit (CVU) recognition totaling 28,000 hours. Currently over one thousand (2,000) volunteers are recording volunteer hours for recognition.

EVALUATION

Home Economics Evaluation survey reports (EV-3) with agent reported data and agent accomplishment reports were utilized to obtain data for evaluation purposes. FUTURE IMPLICATIONS

A Toppison Control of a control of the first to

Continue to support and implement highly visible Extension Home Economics Volunteer Program such as the "Master Volunteer Concept" and "Family Community Leadership" program with emphasis on increasing expertise and recognition of individual volunteers.

*CONTACT

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NC129

Volunteerism/Leadership Development in North Carolina - Volunteer Leadership Development and Expertise

*TEXT

SITUATION

ACCOMPLISHMENTS

North Carolina utilized volunteer leadership involvement through the Advisory Leadership System, Master Volunteer programs, 4-H youth leaders, Extension Homemakers and EFNEP, as well as many volunteers who serve as resource people to the programs. Each network of volunteers provide opportunity to develop leadership skills. However, volunteers do not receive adequate training to carry out specific jobs and/or responsibilities and there is no method for matching volunteers with their specific interests and skills.

OBJECTIVES

1) 10,000 Volunteers complete Master Volunteer program in specific home economics subjects; 2) 24,000 leaders trained in group leadership skills; and 3) 48,000 leaders improve their skills in home economics subject matter. RESOURCES - Volunteer leaders.

Three Master Volunteer Programs (MVP) were implemented across the state. Nine additional counties trained Master Food Preserver (MFP) Volunteers. 57 volunteers entered the program with 55 (96%) graduating as MFP Volunteers. In the first three months of volunteer work, 54 volunteers averaged 20 hours of volunteer time with 61 hours being the greatest time for a volunteer. The Master Money Manager (MMM) Program was piloted with four counties participating with 22 volunteers completing the program. Return hours for the Master Money Manager Program are currently being recorded. Nine additional counties are initiating the program. North Carolina participated in a national pilot effort involving Master Volunteer in Yarn Skills

A fourth Master Volunteer Program on "Grandparenting" has been written and previewed by agents. This program is planned to be implemented in Spring of 1987.

with excellent interest and participation. 152 volunteers in 23 counties have

completed the program, contributing 4,822 hours of volunteer time.

9,231 volunteers have completed group leadership skills training including effective group interaction, group dynamics, parliamentary procedure, motivation techniques, etc., and practice one or more of these concepts in Extension Homemakers, EFNEP, public and community service organizations, city and county government, etc. 80,913 volunteer leaders improved their skills in home economics subject matter areas through leader training efforts and demonstration expertise at local and county Extension Homemaker meetings.

Home Economics survey reports (EV-3) with agents reported data and agent accomplishment reports were utilized to obtain data for evaluation purposes. FUTURE IMPLICATIONS

Emphasis to be placed on promotion and implementation of Master Volunteer Programs and Family Community Leadership Programs in four program areas, group leadership training seminars, and Extension Homemaker leadership training efforts.

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*CONTACT

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Linda Flowers McCutcheon Associate State Leader, Home Economics Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2782 Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a quide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a sample —do not abbreviate Keywords.

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NC130 *TEXT

Volunteerism/Leadership Development in North Carolina - North Carolina Extension Homemakers Association, Inc.

SITUATION

The North Carolina Extension Home Economics program has developed strong volunteer leadership through the Extension Homemakers Association. The Extension Service recognizes this organization as an important vehicle for the delivery of home economics information to North Carolina families. However, volunteers may not recognize personal growth that takes place through volunteer efforts and often fail to understand the role and relationship between the volunteer and the professional staff members. Almost 75% of Extension Homemakers are 50 years old or older. Implications from the 1982 research report conducted in North Carolina indicated that there is a need toward increasing membership of the young, middle-aged and working homemaker group. The present Extension Homemakers Association structure even though improved still needs to promote leadership by these groups. **OBJECTIVES**

1) 1,600 Key Extension Homemaker leaders recognize the need for increased flexibility in the present Extension Homemakers organizational structure. 2) 400 Different and younger (less than 50 years of age) Extension Homemakers will hold key leadership roles at the county, district and state levels. RESOURCES

Volunteer leaders

ACCOMPLISHMENTS

The Board of Directors (135) have studied and addressed the issues of flexibility with the Extension Homemakers organization. Limited progress has been recognized. However, Extension Homemakers Handbook has been revised. 1,308 different and younger (less than 50 years of age) are providing leadership at the county, district and state levels. In addition, a vigorous membership campaign has been launched entitled "Golden Key Club" with 79 members completing requirements for special recognition. EVALUATION

A mailed questionnaire, telephone interviews, group discussion and input and an open forum at Extension Homemakers State Council meeting have been utilized. FUTURE IMPLICATIONS

Identify potential new and younger Extension Homemakers by meeting their needs as well as continuing to meet the needs and interests of the traditional homemaker. Support and implement recommendations from Extension Homemaker/Extension Service Task Force.

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*CONTACT

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Linda Flowers McCutcheon Associate State Leader, Home Economics Box 7605, NCSU Raleigh, NC 27695-7605 (919) 737-2782 Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for, selecting words, in addition, words not appearing on the keyword dist may also be used. Separate each distinct word or phrase

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4-H & YOUTH DEVELOPMENT ACCOMPLISHMENT REPORTS

No.	Title of Major Program for which Accomplishment Report is Attached
NC131	Developing Life Skills Through 4-H in North Carolina (1862)
NC132	Building Self Concept (1862)
NC133	Developing 4-H Adult and Youth Volunteers in North Carolina (1862)
NC136	North Carolina 4-H Expansion Program (1862)
NC139	4-H for Six-to-Fight Year-Old Youth in North Carolina (1890)
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NC143	Public Awareness and Support: Marketing 4-H (1862)

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CONTROL NO.

NC 131 DEVELOPING LIFE SKILLS THROUGH 4-H IN NORTH CAROLINA

*TEXT SITUATION

Development of life skills is the goal of 4-H. The life skills that research indicates are most critical could be classified as: (1) Competency - developing skills and knowledge, (2) Coping - dealing with stress, (3) Contributory - increasing sharing skills. Experts agree that secondary schools are not meeting the challenge of providing transitional skills for adolescents in our postindustrial society. Life skills are learning through participation in one or more of the delivery modes used in North Carolina. These include community clubs, project clubs, special interest groups, camping and retreats. The special interest mode is used primarily for outreach and recruitment of new members. Emphasis must continually be placed on organizing new community and project units and maintaining existing units to have a quality program statewide. OBJECTIVES

100% of 4-H club members to participate in life skills programs by 1987. At least 50% of the state's 4-H club members to learn the three basic life skills (competency, coping, contributory) by 1987. One-third of 4-H members to learn a more complex level of skill category as

tenure in 4-H increases.

RESOURCES

Development of the 4-H Discovery Curriculum Package and use of packaged curriculum in the Teens Reaching Youth Program has heightened emphasis in life skill development. **ACCOMPLISHMENTS**

Through participation in project work related to agricultural and home economics subject matter areas, youth developed primary life skills in categories of competency, coping, and contributory.

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Competency Indicators

* Animal Science 30,018 * Plants and Soils 11,843 * Environmental Awareness 29,094 * Home and Family 46,450	Leadership, Discovery Communicati	Citizenship , & Careers ons, Arts Science 24	43,293	
Youth presenting demonstrations/ speeches at district level Coping Indicators	1,172	1,111	913	
Participation in special interest activities Contributory Indicators	70,220	85,323	78,512	
4-H youth leaders Youth leaders receiving training EVALUATION	3,221 737	3,958 949	3,926 1,528	
LI TILLOTTI L'OLI				

Data summarized from Federal ES-237 reports, district activity day summaries, and reports from Teens Reaching Youth Program. .

FUTURE IMPLICATIONS

The impact of curriculum based lessons in relevant subject matter that can be utilized across delivery systems cannot be measured until said packages have been utilized for one year. However, most indicators in counties are increasing significantly to suggest development of competency and coping skills. The introduction of "Teens Reaching Youth," a pilot effort supported by Kellogg Funds, can be attributed for the increase in contributory skills.

*CONTACT . Name and title * Address made as Zig. Code;) * Telephone (include and code Caterian n.) * Electronic main ID (when in transmitted)

Sharon Runion Rowland, Extension 4-H Specialist Box 7606, NCSU

Raleigh, NC 27695-7606 (919) 737-3242

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*Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

*TITLE

Program Title (Include State Name in Title)

CONTROL NO.

NC 132 BUILDING SELF CONCEPT

*TEXT SITUATION

Needs assessment activities conducted with a cross section of youth professionals, 4-H volunteers, and teams charted the lack of self esteem as a top priority problem of young people. Indicators that support their beliefs include the high incidence of substance abuse and teenage pregnancy. Social science research supports that self concept is acquired through relationships with others. This affirms that social learning experiences are programming factors that contribute to the development of self esteem. Forty-three counties indicate a need to address the problem of self esteem. Many 4-H curricula have an element of self esteem already designed into the program. However, it was felt that a special curriculum designed specifically to enhance self esteem would have the potential to bring about more sustained change in levels of self esteem.

 For 75% of 4-H youth participating in the "I've Gotta Be Me" self concept program to change self esteem in a positive direction.

 For 100% of adults who give leadership to the self concept program to change their self esteem in a positive direction.

 For 10,000 youth to participate in the "I've Gotta Be Me" special interest program and 30,000 to complete the self concept project by 1987.

RESOURCES

Kellogg Grant for 4-H Teens Reaching Youth has heightened visibility of the "I've Gotta Be Me" curriculum package.

ACCOMPLISHMENTS

- 100% of the youth participating in "I've Gotta Be Me" program and had a positive growth experience. Agents reported 3,945 participants improve self esteem.
- 75% of counties in North Carolina are aware of the "I've Gotta Be Me" curriculum package and are using part or all of the program with 4-H audiences.
- 4,000 youth participated in "I've Gotta Be Me" special interest programs.
- 668 adults and youth volunteers developed leadership skills to plan and implement the self esteem program.

FUTURE IMPLICATIONS

The "I've Gotta Be Me" curriculum guide is a core element of the 4-H Teens Reaching Youth Program. Approximately 50% of the youth teachers in this program have expressed an interest in teaching this curriculum to younger youth audiences. The program will also be a core element of the 1986-87 State 4-H Council project that is undertaken by the 4-H youth leaders in clubs.

*CONTACE T • Name and title • Address produce Zife Code j • Felsolbore frechula area code or extension) • Electronic mail 10 (selecting a product)

Judy M. Groff, Extension 4-H Specialist Box 7606, NCSU Raleigh, NC 27695-7606 (919)737-3242 Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

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CHATRIL NO.

Program Title (Include State Name in Title)

NC 133 DEVELOPING 4-H ADULT AND YOUTH VOLUNTEERS IN NORTH CAROLINA

SITUATION

There are approximately 20,000 4-H adult volunteers in North Carolina who function in direct support of 4-H members or indirect service to the 4-H program. There are also approximately 2,500 youth volunteers or about 12% of the total. This number has remained relatively constant in North Carolina for a 10 year period with a 15% increase in 1984. A survey of counties indicated that all volunteers need systematic orientation and in-service training to develop self confidence to do their job and to foster

commitment to 4-H. Another survey indicates that only 68% of direct service volunteers actually receive formal leader training.

Youth volunteers function primarily in formal leadership roles through the county, district, and state 4-H councils. This group offers much potential to perform organizational, project, activity, and advisory leadership roles in the 4-H program, however, more leadership training training to their reads must be developed.

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OBJECTIVES

For the leader/member ratio to remain constant at a 1 to 6 level over

a 4 year period. By 1987 all club project and special interest volunteer leaders will be able to plan, sequence on a calendar, implement and evaluate an educational program.

By 1987 youth volunteers will represent 25% of the total volunteer 3. leadership system and will be able to organize units or activities and

teach subject matter.

RESOURCES

R.J. Reynolds support of master volunteers.

2. Farm Bureau support for literature.

New Leaders Only (curriculum package for recruitment and orientation). Kellogg Grant to implement the 4-H Teens Reaching Youth program. 3.

ACCOMPLISHMENTS Leader to member ratio of one to four

75 counties recruited 140 volunteers to participate in master volunteer training on the "New Leaders Only" curriculum package. Agents reported 3,085 new leaders received training and improved their leadership skills to deliver a quality 4-H program.

8 counties reported 422 leaders being actively involved in decision 3.

making.
7 officers of the North Carolina 4-H Council attended "Profiles for Tomorrow" and later conducting an educational program for 120 teen state project coordinators.

65 teens attended the Western District 4-H Leadership Conference. 60 5.

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Master volunteers in the New Leaders Only program and trainers in the 4-H TRY program are committed to a two year contract.

green the highest greet to resemble the remaining man to the miles of the Judy M. Groff, Extension 4-H Specialist Box 7606, NCSU Raleigh, NC 27695-7606

(919) 737-3242

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Judy M. Groff, Extension 4-H Specialist Box 7606, NCSU Raleigh, NC 27695-7606 (919) 737-3242

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CONTROL NO.

NC 136

North Carolina 4-H Expansion Program

* TEXT

Situation: The 4-H Expansion effort in North Carolina is primarily centered around: programing in SMSA's, family involvement, six to eight year old programs, latch key programs, 4-H work in public housing, and 4-H EFNEP programs. 4.7% of youth public housing audience participates in 4-H. 52% of N. C. youth population reside in SMSA counties. Youth professionals rate lack of parent support as the number 1 youth problem. 4,977 six-eight year old youths participate in the 4-H program. Latch-key programming is necessary because N. C. ranks first in the nation in the percentage of mothers who work. 4-H EFNEP has a target audience of youths ages 5-17 of 219,846 whose household income in below federal poverty standards.

Objectives: By 1987: 15,000 youths in public housing, 48,000 youths in SMSA counties, 10,622 youths in after school settings, 40,000 low income youths to be involved in 4-H programs, and 17,000 youth ages 6-8 will be involved in Partners in Learning programs.

Resources: Community grant funds, community schools, civic clubs, governmental agencies, media, volunteers, and extension program support.

Accomplishments: In 1986 more than 10,200 low income youths were involved in 514 4-H EFNEP groups. 2,228 public housing youths participated in 4-H. 15,627 youths from SMSA counties were enrolled in 4-H. Forty-nine counties reported involving 5,974 six to eight year old youths in their 4-H program. Eleven counties reported new involvement in family activities of 4100 families. Thirty counties reported organizing 200 new 4-H clubs.

Evaluation Procedures: ES-237 reports. Sampling of county accomplishment reports.

Future Implications: More targetting of expansion audiences needs to occur. Funding for expansion efforts must be provided to programs offering promise of specific, measurable program results.

* 60NTACET • Name and title • Address (mellide Zig. Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)

Michael A. Davis
Associate Extension State 4-H Leader, Specialist in Charge
Box 7606 NCSU
Raleigh, NC 27695-7606 919/737-3242

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* KEYWORDS 4-H and Youth, 4-H EFNEP, Nutrition, Latch-Key youth, After-school meetings

Six to eight year olds, involving families in 4-H, SMSA youth,

Size North Carolina Urban programs, expansion, youth in public housing

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Program Area (A) 4-H and Youth

Subject Matter Area 4-H EFNEP, Latch-Key, Six to eight year olds, SMSA, Urban Programs

Commonty/Subject Nutrition, after-school meetings

Andree Six to eight year olds, families, urban youth, youth in public housing

Methods.

Measurable Impacts Results - Newtonius social or ever mic consequences

Enter quantity - (consequences)

QUANTIFIED: IMPACTS:

Family projects completed

New groups organized

Volunteers utilized

\$580,075

New leaders trained

Life skills developed in new youth

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^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

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Program Title (Include State Name in Title)

NC 139

4-H FOR SIX- TO EIGHT-YEAR-OLD YOUTH IN NORTH CAROLINA

*IEXI

SITUATION:

Research indicates the six- to eight-year-old youth needs more interaction with adults. The Partners-In-Learning program was designed with these objectives as a foundation. There are 245,000 youth between the ages of six and eight in N.C. Two thirds of the state's one hundred and one county units reported the involvement of an excess of fifteen thousand youth in their youth programming efforts.

PROGRAM OBJECTIVES:

One hundred percent of the six- to eight-year-old youth learn about 4-H, learn simple subject matter, improve social skills, and exhibit attitudes of independence.

RESOURCES:

Fifty-three county 4-H agents; 5,000 parents, 1,500 adult volunteers, 225 youth volunteers.

ACCOMPLISHMENTS:

Over 10,000 youth learned about 4-H through the Partners-In-Learning program. They learned the meaning of the pledge, motto and colors. Volunteers indicated that there was a significant change in the social behavior of youth that participated in small group settings. The most significant change was their ability to share with others. The curriculum for this age group continued to expand. Youth were involved in acquiring simple subject matter through small community groups, county-wide special interest programs and through 4-H/P-I-L mini projects. Outdoor activities (play, exploring and collecting), small muscular developmental skills and safety were major curriculum emphasis for the past fiscal year.

EVALUATION:

Data reported was acquired through the ES237 Report form, a supplemental report form for Partners-In-Learning, personal interviews with volunteers and parents of youth involved in the Partners-in-Learning program.

FUTURE IMPLICATIONS:

Participation level in the Partners-In-Learning program continues to increase. Reporting discrepancies showed a decrease during the past fiscal year; however, more valid information obtained since the submission of the report showed an increase in participation. By 1987, we estimate reaching at least 10% of the potential youth in the state through this program effort. The subject matter being taught will continue to expand and become more diverse, thus enhancing the growth and development of youth involved, we anticipate an increase in the number of small units being organized, therefore, increasing the likelihood of improving social behavior.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)

Sheilda B. McDowell, 4-H Specialist P. O. Box 21928 Greensboro, NC 27420-1928 919/334-7956 AGS1775

FY 84-87 Accomplishment Report - NARS

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords.

*KEYWORDS

Fiscal Year(s)

Control No. NC 139

State North Carolina

1984, 1985, 1986, 1987

Program Area(s) 4-H and Youth

(List as many as apply)

Subject Matter Area Youth Development, 6 to 8 years old

Commodity/Subject Expansion

Audience 6 to 8 year olds, parents, other volunteers

Methods Small groups, parenting workshops, leadership workshops

Measurable Impacts/Results — Measurable social or economic consequences

Enter Measurable Impacts/Results — Keywords

*QUANTIFIED IMPACTS

Learning About 4-H

Improving Social Skills

Learning Simple Subject Matter

Learning Skills Improved

2,500

Expended Time (FTE) on Program *EXPENDED FTE		Expended Time (FTE) on Program *EXPENDED FTE				*VOLUNTEER			
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1985	x.x	x.x	x.x	1985	xxx	\$x.xxx	Number of other Counties Producing Comparable Program Results		
1986	x.x	x.x	x.x	1986	xxx	\$x.xxx	Other		
1987	x.x	x.x	x.x	1987	xxx	\$x.xxx			

Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

*TITLE Program Title (Include State Name in Title)

CONTROL NO.

NC141

4-H IN PUBLIC HOUSING IN NORTH CAROLINA

*TEXT

SITUATION:

Youth in public housing have special needs due to their relative income status and their general feeling of alienation from society as a whole. This audience was identified by the 4-H program committee as being in need of the 4-H program. Currently there are 7,025 youth or 4.7 percent of the potential who are actually involved in the 4-H program. Participation is primarily in the special interest delivery mode with 25 percent being involved in community club programs.

PROGRAM OBJECTIVES:

1. By 1987, 15,000 youth in public housing will be involved in the 4-H program (40 percent in community clubs and 60 percent in special interest.)

2. Each year 60 percent of the new 4-H units organized to be renewable so that by 1987 the total 4-H program will expand by 17 percent.

RESOURCES INVOLVED:

Over 1,000 adult and youth volunteers in 35 counties have been involved in program development to reach limited-resource audiences in urban public housing and targeted low-income areas. Funds from CBA have also been utilized.

ACCOMPLISHMENTS:

10,134 youth have been involved with 4-H public housing clubs (2300) and 4-H public housing special-interest programs (7,720.) This data indicates a 20 to 80 percent club/special interest ratio; over 5,500 youth volunteers have been involved in leadership development training; 26,000 public housing youth have been made aware through 4-H activities of 4-H opportunities and 310 new units established; data not available on units renewed for 1985.

EVALUATION:

Evaluation and accountability formats to supplement the ES237 reporting is being developed. Additional expansion will utilize impact data for reporting accomplishments

FUTURE IMPLICATIONS:

The overall reporting will be developed to create access data of accomplishments in the areas of (a) staff development for volunteers; (b) total enrollment in clubs and special-interest groups; (c) curriculum development--learning experience project enrollment workshop--of a random sample of clientele involvement.

*CONTACT • Name and title • Address (include Zip Code) • Telephone (include area code & extension) • Electronic mail ID (when appropriate)

Henry Revell, Jr., 4-H Program Coordinator/Specialist P. O. Box 21928 Greensboro, NC 27420-1928

919/334-7956 AGS 1775

FY 84-87 Accomplishment Report - NARS

Keywords are words and phrases that others will use when searching the data base. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma — do not abbreviate keywords..

*KEYW	IORDS			T		The second	
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State			th Carolina				DI 28
Fiscal Ye		1986	5				
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	NDED FTE	Time (FTE) on Pro	4	i imi: Malevao	*VOLUNTE		Scope of Program Number of Counties *SCOPE
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001	Prof	Para	Vo1		Pers	Dollar	Co in St 101
984			ujul anto an	1984		MANUAL TRANSPORTER	Covered by this Report In Rept 8
985	5	10	.6	1985			Number of other Countie
986			عطسيا	1986		18,000	Program Results Other
987		7-67-1		1987	4-14	SOKUL ROM	

Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Program Title this and State Name in Title!

CONTROL NO.

NC 143 PUBLIC AWARENESS AND SUPPORT: MARKETING 4-H

*TEXT

SITUATION: Successful marketing of 4-H requires a continuing and well programmed effort in the utilization of four basic forms of communicating the value of the 4-H program to present and potential 4-H'ers, volunteers, sponsors, and salaried staff. Those forms are mass media, targeted media, community and social gatherings, and one-on-one contacts. These four forms of communicating program value result in six basic outcomes; program awareness, knowledge, positive feelings, preference, conviction, and commitment. These forms of communicating and related outcomes occur in the context of four marketing dimensions: program design, place/delivery mode, promotion, and price/time-resources. OBJECTIVES

 By 1987, 100% of counties to be aware of and have access to "Public Awareness and Support: Marketing 4-H" resource materials package.

By 1987, 100% of 4-H agents be oriented to basic 4-H agent marketing competencies.

 By 1987, have established key groups for 4-H marketing network. RESOURCES

MARKETING 4-H: A State Position Paper

Teens Reaching Youth: A model curriculum/staffing

Marketing Package

You'll Love 4-H: Outdoor Advertising Campaign

"Pumpkins in the Snow": 4-H greeting cards 4-H For You For America - Television Production

ACCOMPLISHMENTS

Forty-eight counties reported 4-H public awareness/marketing in county accomplishment reports representing an increase of eighteen from 1985.

1. Most counties report integrated awareness/marketing programs including print, radio, and t.v. media.

2. Many 4-H and Youth Committees and county 4-H councils have taken on

increased marketing responsibility.
3. Ten counties have developed "Chris Clover" characters for general

promotion purposes.

Inter-agency networking for promotion is increasing.
 Club/unit level involvement in marketing efforts is increasing.

National 4-H Week and National Volunteer Week promotions are growing more "targeted."

EVALUATION

Most counties with a stable 4-H program manage an integrated marketing program. These programs are becoming much more "focused" as resources expand and marketing of network develops. FUTURE IMPLICATIONS

1. A November 4-H In-Service session will focus on integrating the 4-H Marketing Model "outcomes" with basic curriculum/staff development program design.

The outdoor advertising design will be continued.

*CONTACT T • Name and title • Address (include or Zig. cold.) • Telephone (include area code & extension) • Electronic man ID (a lice of propriete) Thearon T. McKinney Extension Specialist, 4-H Box 7606, NCSU

Raleigh, NC 27695-7606 919-737-3242

Keywords are words and prosess that others we lost when searching the dabibase. The keywords list can be overlar a soone for scleding words. In addition, words not appreading on the keyword list may also be used. Separate each distinct word or phrase with a comme - do not at last visits knywards.

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	1984-87	INA					
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1984	4.8	2.8	4.6	1984	1610	52,668	Coveraby the Report In Respt
		4	1				Number of other County

Percent of Clientelic yet to be Served (optional)

5.0

198€

1987

2020

64,668

1986

1987

10.5

Percent of Clientels yet to be Served (optional)

*Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Form-B Summary Sheet for Impact Study

State North	Carolina Institution	NCA&TSU FY 85-86	77.13
☐ Planned	Estimated Dates Start Completion	Completed Date	
mpact Study Titl	e (Include State Name in Title)	stranges margers	Ä
NC154IS The		rth Carolina A&T State University)
The conducti Agricultural NCA&TSU acad Agricultural employees to PROCEDURES/M The populati Opportunitie of the state	lemic departments, and NCA&TSU con Extension Program will also are assist with the collection, con ETHODS on of this study will consist of s Program participants that resi . Study participants will be rate personal interview method of con	esources available from NCA&TSU ltural Extension Service, selected omputer center. NCA&TSU range for the use of part-time mpiling and analysis of data. If present and former Farm ide in each of the three regions andomly selected. The researchers ollecting data.	S
	007,81		
Contact Person:		A.A. Ge	191
Address	Daniel M. Lyons, Coordinator of P. O. Box 21928, NCA&T State Un Greensboro, NC 27420-1928 (919) 334-7957	ANK	
Keywords:		The property of the state of th	- 17

Form-C

Civil Rights/Equal Opportunity Plan of Work/Report State NORTH CAROLINA Institution N.C. STATE UNIVERSITY Report

Civil Rights Narrative for (Check appropriate box(s))	Program Area (Check appropriate box (s))	Check a
 ☑ Program Planning and Participation ☐ Administrative Civil Rights Requirements ☐ Equal Opportunity Employment 	☐ ANR ☐ HE ☐ Combined report, all program areas	☐ 4-H ☐ CRD

Title PROGRAM PLANNING AND PARTICIPATION

Text: Because of Civil Rights litigation currently in appeal status, the N.C. Agricultural Extension Service is not required to provide data on Civil Rights Programs as set forth by Title VI. However, the following information is provided on the basis of commitment to these principles. Sex discrimination is being addressed in an effort to comply with Civil Rights laws.

SITUATION DESCRIPTION: The NCAES continues to enhance program access and opportunity for all socio-economic groups regardless of race, color, national origin, age, sex, handicap, or religion. The Long Range Program, "People's Plan '87", was developed by a 23,000 lay-member Advisory Leadership System, representative of the citizens of N.C. A five percent increase in minority representation has been achieved since 1982 in the lay-member Advisory Leadership System.

PROGRESS: An Affirmative Action Task Force is continuing to review and evaluate procedures in employment opportunity and program delivery at the county level. Affirmative Action training has been provided to 530 county faculty. This training focused on the expansion of: procedures to be used by county faculty to assure representativeness in the selection of Advisory Leadership System members; procedures to eliminate discrimination, including informing minorities of program opportunities, developing leadership among minorities, adjustments of programs, meeting schedules and locations, removal of economic barriers and adjustments of individual consultations.

Increased efforts to involve minorities included the Small & Parttime Farmers Program, the Managing for Tomorrow Program, the Minority Women's Leadership Program, the EFNEP Program, and, the 4-H Teen Volunteer Program.

Contact Person:

Dr. Elizabeth U. Meldau

Name and Title

District Extension Chairman

Address Box 7604

N. C. State University, Raleigh, N. C. 27695-7604

Telephone (919) 737-2789

□ Plan

Form-C

Civil Rights/Equal Opportunity Plan of Work/Report

State NORTH CAROLINA Institutio	n_N.C. STATE UNIVERSITY	. 🗵 Report
Civil Rights Narrative for (Check appropriate box(s))	Program Area (Check appropriate box (s))	Chill Rife
□ Program Planning and Participation □ Administrative Civil Rights Requirements ☑ Equal Opportunity Employment	☐ ANR ☐ HE ☐ Combined report, all program areas	☐ 4-H ☐ CRD

Title EQUAL EMPLOYMENT OPPORTUNITY

Text: Because of Civil Rights litigation currently in appeal status, the N.C. Agricultural Extension Service is not required to provide data on Civil Rights Programs as set forth by Title VI. The following information is provided on the basis of the organization's commitment to the principles of equal employment opportunity as set forth by Titles VII and IX.

SITUATION DESCRIPTION: The employment goal for all position groups--professional, paraprolessional, secretarial...has been for all employment-related decisions to reflect a commitment to racially and sexually representative human resource management within the NCAES.

PROGRESS: Within the non-professional positions, this has been achieved through a public notification plan and adherence to AA guidelines of the state and counties in hiring, training, and promoting. A statewide hiring freeze on non-professional positions was in effect for eight months of this period.

For all county professional positions, the NCAES recruited at the following universities who have degree programs in agriculture or home economics, and traditionally have a large number of minority students: A & T State Un., N.C. Central Un., Pembroke State Un., and Bennett College. A NCAES hiring freeze on county agent positions was initiated this year authorizing only certain positions deemed critical, to be released.

All applicants received equal access to employment opportunities as position vacancy notices were mailed monthly to all applicants for a period of six months after receipt of their application. Further, a TELETIP job vacancy listing was provided for anyone to call to receive a monthly update of vacancies. Training was designed and offered on the basis of equal opportunity for preparation for positions of greater responsibility. In-service training offered a free choice of training for employees for up to five days during State Training Conference.

Contact Person: Dr. Susan Y. Lyday

Name and Title Extension Personnel Development Specialist

Address Box 7602

N. C. State University, Raleigh, N. C. 27695-7602

Telephone (919) 737-2814

Form-C

an of Work/Report	Institution	on N.C. STATE UNIVERSIT	☐ Plan ☑ 图 Report
Civil Rights Narrative (Check appropriate box(s))	for	Program Area (Check appropriate box ((s))
Program Planning and Administrative Civil Ri	d Participation	☐ ANR ☐ HE ☑ Combined report, all program areas	□ 4-H □ CRD
Title ADMINISTR	ATIVE CIVIL RIGHTS	neruda ment. Table (V. p. 28	programs was in
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Action. As an educatin programs and emplosex, handicap, or rel PROGRESS: An Affirmathe organization's properties of the county level. Affaculty members in 10 Extension chairmen perogram review processory Extension in AA. An AA training a series of video tage AA issues. Affirmatical series of Affirmatical series of Affirmatical series of Affirmatical Series Affirm	: The NCAES remains, and guideline ional institution, yment, regardless igion. Attive Action Task Foredures in employ firmative Action to lumits. County Authority and the entire chairmen have the grogram is in places in Agr., CRD, Fore Action informations.	ns committed to the prints of the nation regarding the NCAES provides equal of race, color, national force is continuing to rement opportunity and privating has been provided data was reviewed as alls, and as part of the	ng Affirmative al opportunities l origin, age, eview and evaluate ogram delivery at ed all 530 county part of county bi-annual county ning new employee ents, including onnel, addressing agents and
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Statistical Information. Complete Table III, p. 24

Cover Sheet Listing

 Titles of major programs included in the report package. If a major program involves more than one program area, indicate this on the cover sheet list. Major program narratives will not necessarily reflect 100% of resources. Impact Studies completed
See page 18 for instructions.

Civil Rights/EEO Report

The Civil Rights/EEO report should be a selfcontained section of the state Plan of Work. Table VII must be submitted annually.

Major program accomplishment information report

Use Form D, pp. 26-27, to describe each major program reported.

- Earmark funded programs should be separately identifiable for reporting purposes.
 Use a separate Form D, pp. 26-27 for each.
- Annual reports required for the following programs also include:
 - pest management, Table IV, p. 28
 - pesticide applicator training, Table V, p. 29
 - pesticide impact assessment,
 Table VI. p. 30

Table III Expended Professional/Paraprofessional Staff Years By Program Area¹

Fiscal Year 1985-1986

State North Carolina

Institution North Carolina State University (1862)

(1862, 1890, Tuskegee)

Program Area	Professional	Paraprofessional
AG & NR	369.7	eni et ing 2.1 element (2002)
NR	on the file of the second of the second	new to the state of the series
CRD	34.4	. I mer indred arettetour
HE	174.9	90.2
4-H	137.8	34.5
Total	716.8	126.9

^{&#}x27;Staff year allocations account for total available FTE's Calculate to one decimal place. Staff resources allocated to administration, management, staff development, etc. are to be allocated to relevant program areas. This table should account for all staff years available in 1862 and 1890 Institutions.

Statistical Information.
Complete Table III, p. 24

Cover Sheet Listing

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 - pesticide applicator training, Table V, p. 29
 pesticide impact assessment,
 - Table VI. p. 30

Table III
Expended Professional/Paraprofessional Staff Years
By Program Area'

By Program Area'		
•		

Fiscal Year 86
State North Carolina institution 1890

(1882, 1890, Tuskegee)

Program Area	Professional	Paraprofessional
AG DEL		17.0
NR	1.0	1.0
CRD	1.30	The state of the s
HE	8.0	4.0
4H	6.0	7.0
Total	21.1	29.0

Impact Studies completed

CIVII RIGHTS/EEO Report

See page 18 for instructions.

The Civil Rights/EEO report should be a self-

contained section of the state Plan of Work.

Table VII must be submitted annually.

"Blaff year affocations account for total available FTE's Colculate to one decimal place. Staff resources affocated to administration, management, staff development, sic are to be allocated to relevant program areas. This table should associate for all staff years available in 1952 and 1980 institutions.

Table IV
Pest Management Programs—Annual Report
FY 1986

State N.C.

	1. Field*	2. Tree**	3. Christ-	4. Urban	5. Livestoc	Total
Program Costs (\$):	133,040	Fruits 8,024	3. Christ- mas tre 3,160	es & Jybf	85,623	
. Smith-Lever 3(d)	210,000	12,000	8,000	6,000	42,000	278,210
Other CES Funds		-				
. Grower Payments to	96,523	4.245	630	1,860	500	103,758
a. Extension Programs	1,500,000	75,000			Juhana	1,575,000
b. Private Consultants/firms	11 200		SAFE TO LOOK		Name of Street	11,200
c. Grower Organizations/co-ops_	75,000	4794	owner an man	ex tell airtad	Lagar Mala	75,000
Others	70,000		etroin north	62 Homesit		
			unterplial se	50 turfsit	05	med will
Acres or Units Handled by:	26,111	598	15_6		675,000	N/A
. Extension Sponsored Programs .	175,000	5,000	MG g V	alds Lined	regelfelen zer	180,000
Private Consultants/firms	2,800	- 6	a V slast pr	ortain to label	ngs abinize	2,800
. Growers Organizations/co-ops	10,000	1,000	Jner	transaction	000,000	N/A
Industry Fieldmen	D		FLH.		X a Brands	7
5. Others Influenced by Extension .						
CES Staff-Years:	12	3	3	1_	70	19.7
1. State Specialists					2	3
2. Multi-County Staff		2	1	.5		14.5
3. County Staff	10 Y 11 11 12	landinaal	lennana 9th		nified Per	
	172	1	1 -	22	35	
Number of Scouts Trained	1.500	12	15	850	260	2,637
Number of Producers Trained						
Number Providing IPM Service:	9	1	1	4	1436 7. 1	15
1. Extension Sponsored Programs	14	1				14
2. Private Consultants/firms	2	LHP4ZU		noted to the	# Froil	_ 2
3. Grower Organizations/co-ops					32	
4. Industry Fieldmen						_
5. Others Influenced by Extension	Trapett 1					
Number of Clientele Served:					1050	5079
1. Extension Sponsored Programs	150	_ 15	15	912	1350	15
2. Private Consultants/firms	14	1			_	$-\frac{15}{2}$
3. Growers Organizations/co-ops_	2	_		_ 1_1	7200	
4. Industry Fieldman	100				1200	1300
5. Others Influenced by Extension					'	
1 5 5						
State Advisory Committee:						18
No. People on Committee	18_					
No. Agencies and Departments						12
Represented	12					10
No Times Committee Met *Alfalfa, corn, cotton	10					

**Apples, blueberries

Note: An accomplishment information report is to be submitted with Table IV.

Table V Pesticide Applicator Training Program—Annual Report FY 1986

State North Carolina

Ben Manaa

no restri

Applicators Trained 8,845	Numbers	to be Trained 22,229	
wine productlege shirt	For Intita Certificat		For Recertification' (Applicable _x_YesNo)
Private Applicators Commercial Applicators	1,52 95		18,000
Expenditures for FY 1 86	nequalitation in per	nlylovní anolis	202
Source	Total Available for Fiscal Year	Expended	Balance Remaining
State Fund EPA Funds	\$146,400 26,481	\$146,400 26,481	

See Science and Education/Extension Service Administrative Handbook

"If recertification through training is not systematically required, check the box "no". Estimate the number of applicators expected to take enroll.

*States must provide 50 percent or more of the cost of the Pesticide Applicator Training Program provided from non-EPA sources in order to receive EPA pass through funds.

*For FY 82 up to 100 percent of the EPA evallable funds from FY 82 can be carried over into FY 83. Carryover funds in excess of 100 percent will be charged against the FY 81 allocation.

NOTE: A narrative accomplishment report is to be submitted with Table V.

A menual, wilde see and wides tage were concluded for use in our modern private applicator recentification program. Assistance was since pivon to cut bestiered Alecciarion in North Caralina in develop-

Form D Accomplishment Information Report

Brief Title (Include State Name in Title)

PESTICIDE EDUCATION ACCOMPLISHMENTS IN NORTH CAROLINA

Text:

During 1986 1040 private pesticide applicators were trained in local county meetings using a 4 hour classroom or Programmed Instruction method. Recertification classes will begin July 1, 1987 for over 50,000 persons certified since 1976 and must be completed by 1990. Hereafter, 2 hours of update training will be provided every 3 years. An estimated 18,000 farmers attended extension functions involving education in pest control and related projects.

During 1986, 955 commercial, public pesticide applicators and dealers attended 15 Regional 2 day schools for training (were actually licensed). 1750 persons attended recertification classes at over 200 locations to receive recertification credits. We successfully completed a recertification program for 3628 commercial applicators in 1985 and for 1280 dealers in 1986. Recertification of our 218 aerial applicators is completed every two years.

Data kept by the N. C. Department of Human Resources show that deaths from pesticides are at an all time low. Fewer people are being treated for severe pesticide poisoning, although more persons are responding about minor and possible effects of pesticides at the Duke Poison Control Center, Extension offices and at N. C. State University (a result of education?).

Extension specialists, county agents and others working with pesticide applicators report more selective and proper use of pesticides in North Carolina. Interest in calibration, equipment, pest control and safe use are at an all time high-especially with garden clubs, environmental groups, industrial companies, public health agencies and other public service organizations.

A manual, slide set and video tape were completed for use in our upcoming private applicator recertification program. Assistance was also given to our Pesticide Association in North Carolina in developing a slide set to inform the general public about pesticides.

Contact Person:

Name and Title John H. Wilson, Jr., Pesticide Coordinator

Address Box 7609, Dept. of Horticulture, N. C. State University, Raleigh, N. C. 27695 Telephone 919/733-3556

Form D

Keywords are words and phrases that others will use when searching the data base of accomplishment reports. The keywords list can be used as a guide for selecting words. In addition, words not appearing on the keyword list may also be used. Separate each distinct word or phrase with a comma, do not abbreviate keywords.

State North Carolina

Fiscal Year(s) 1986

Program Area(s) Pesticide Applicator Training (PAT) (List as many as apply)

Subject Matter Area Pest, Pesticides, Labels, Safe/Proper use, etc.

Commodity/Subject Pesticide Education

Audience Private/Commercial Applicator, Dealer, Consultant

Methods Classroom, self study

Impact/Results Safe Use, Proper Use, Legal Use

Accountability/Evaluation (C	Cost-Effectiveness Information)
------------------------------	---------------------------------

Qualified Impacts Measurable social or economic consequ	Scope of Program	
Re-enter Enter quantity (economic or social)		No. of Counties in the State
Private applicators	1040 trained	100
Commercial applicators 955 trained		No. of Counties Covered by this
Commercial recertificat:	ion 1750 attended	Program:
Dealers recertified	1250	100
Pesticide poisonings	fewer	No. of Other Counties Producing
Interest in pesticides	up	Comparable Program Results:
Training materials	for 52,000 ·	0

	Estimated Tir	Estimated Time (FTE) Volum		Volunteers (Optional)		
Year	Professional			No. Different Persons	Dollar Value* (of volunteer time)	
1984	3.4	0				
1985	3.2					
1986	3.0	1/2				
1987	5.0	1/2				

Percent of Clientele yet to be Served (optional)

^{*}Average local hourly wage for comparable work—not necessarily minimum wage—multiplied by hour equals dollar value.

Table VI
Pesticide Impact Assessment Program—Annual Report
FY 1986

17 · 12-41	Budget	Expended	Balance
Federal Funds State Funds Other	<u>\$66,956.87</u>		\$15,215.10
Total	deldes labels, Bafnjy noskilon	\$51,741.77	
Expenses		ff Year sivalents	Amount
Personnel Professional Clerical and Secr	M. Tooley, Ent.	ils Safe Uses Property	
Technicians Others (Specify)	Temporary Labor	Albert	5,000.00
Fringe Bene Travel Supplies Equipment	fits Afficiant to a simonated barthurt 0401	aroleoligus umrealigus	1,369.19 1,812.86 12,985.86
Printing Other (Specify)	Current Services Fixed Charges		1,142.23
Total	news)-	1.0	51,741.77

Tradition deregrals

Table VII Total Clientele Contacts by Racial-Ethnic Groups by Program Area¹

SS-86 3 1862 1890, Tuskegee	State		NORTH CAROLINA	NA			Check One:	Check One: 🖾 Professional			
Hispanic Origin Pacial Ethnic Composition Hispanic Origin Pacial Ethnic Composition Hispanic Origin Pacial Ethnic Composition Hispanic Hispanic Origin Pacial Pac	100	acitité.						☐ Paraprofess	lonal		
Racial-Ethnic Composition Hispanic American Hispanic Hispanic American Hispanic Hispanic Hispanic Alakkan Alakka				2, 1890, Tuske	_						
Racial-Ethnic Composition Hispanic Origin Aulan or Origin Not of Hispanic Not of Hispanic Origin Not of Hispanic Not of Hispanic Not of Hispanic Not of Hispanic Not of Origin Not of Ori											
Not of liganic Origin American Hispanic Origin Hispanic Origin American Native Islander Mative Islander<	7	85-{	86 2					417,690	73.990	800,49	
Voltion Indian or Origin American Hispanic Origin Hispanic Hispanic Origin American Hispanic Not of Indian or Islander Hispanic Hispanic Not of Indian or Indian or Indian or Indian or Islander Hispanic Not of Indian or Indian or Islander Hispanic Not of Indian or Indian or Islander Hispanic Not origin American Hispanic Not Indian or In	18	1	Racial-Ethnic	c Composition		- 0	0	0.007	- A		
Vehice Indian of Indian of Indian of Indian of Indian of Indian of Origin American Inspanic Indian of Indi			17.17		6.0						
No. 451,774 47,007 3,336 181 103 502,542 380,900 121,642 No. 451,774 47,007 3,336 181 103 502,542 380,900 121,642 No. 89.89 9.35 0.66 0.036 0.02 100.0 .76 .24 No. 79,322 15,491 1,117 4 9 95,985 51,230* 44,755 No. 82.63 16.139 1.164 0.004 0.009 431,890 69,903 361,987 No. 78.6 20.6 6 0.03 0.1 100.0 1.6 .84 No. 286,761 98,550 3,976 129 219 389,913 165,115 224,798 No. 73.5 25.27 1.019 0.033 0.056 100.0 42 58	4		White Not of Hispanic	Black Not of Hispanic	American Indian or Alaskan	Hispanic	Asian or Pacific	Total	Total Data b	y Sex	9 0
No. 451,774 47,007 3,336 181 103 502,542 380,900 121,642 % 89.89 9.35 0.66 0.036 0.02 100.0 .76 .24 No. 79,322 15,491 1,117 4 9 95,985 51,230* 44,755 % 82.63 16.139 1.164 0.004 0.009 431,890 69,903 361,987 % 78.6 20.6 .6 0.03 0.1 100.0 .16 .84 No. 286,761 98,550 3,976 129 219 389,913 165,115 224,798 % 73.5 25.27 1.019 0.033 0.056 100.0 .42 .58	A		Origin	Origin	Native		Islander		2	Ŀ	OTHER
% 89.89 9.35 0.66 0.036 0.02 100.0 76 24 No. 79,322 15,491 1,117 4 9 95,985 51,230* 44,755 % 82.63 16.139 1.164 0.004 0.009 431,890 69,903 361,987 No. 78.6 20.6 6 0.03 0.1 100.0 16 84 No. 286,761 98,550 3,976 129 219 389,913 165,115 224,798 % 73.5 25.27 1.019 0.033 0.056 100.0 42 58			451,774	47,007	3,336	181	103	502,542	380,900	121,642	141
No. 79,322 15,491 1,117 4 9 95,985 51,230* 44,755 % 82.63 16.139 1.164 0.004 0.009 100.0 .53 .47 No. 339,631 88,865 2,756 121 229 431,890 69,903 361,987 No. 78.6 20.6 .6 0.03 0.1 100.0 .16 .84 No. 286,761 98,550 3,976 129 219 389,913 165,115° 224,798 % 73.5 25.27 1.019 0.033 0.056 0.056 0.05 .42 .58	ANA		89.89	9.35	0.66	0.036	0.02	100.0	.76	.24	0.028
% 82.63 16.139 1.164 0.004 0.009 100.0 .53 .47 No. 339,631 88,865 2,756 121 229 431,890 69,903 361,987 % 78.6 20.6 .6 0.03 0.1 100.0 .16 .84 No. 286,761 98,550 3,976 129 219 389,913 165,115 224,798 % 73.5 25.27 1.019 0.033 0.056 0.056 0.05 .42 .58			79,322	15,491	1,117	4	6	95,985	51,230	44,755	42
No. 339,631 88,865 2,756 121 229 431,890 69,903 361,987 % 78.6 20.6 .6 0.03 0.1 100.0 .16 .84 No. 286,761 98,550 3,976 129 219 389,913 165,115° 224,798 % 73.5 25.27 1.019 0.033 0.056 0.056 0.056 120 .42 .58	CRO		82.63	16.139	1.164	0.004	0.009	100.0	.53	.47	0.041
% 78.6 20.6 .6 0.03 0.1 100.0 .16 .84 No. 286,761 98,550 3,976 129 219 389,913 165,115° 224,798 % 73.5 25.27 1.019 0.033 0.056 0.056 42 .58		ő	339,631	88,865	2,756	121	229	431,890	69,903	361,987	288
No. 286,761 98,550 3,976 129 219 389,913 165,115 - 224,798 % 73,5 25,27 1.019 0.033 0.056 42 .58	뿔	%	78.6	20.6	9.	0.03	0.1	100.0	.16	.84	ا:٦
% 73.5 25.27 1.019 0.033 0.056 8 100.0 .42 .58	;		286,761	98,550	3,976	129	219	389,913	165,115 "	224,798	278
	ţ		73.5	25.27	1.019	0.033	0.056	100.0	.42	.58	0.071

The number of lace to face contacts made in conduct of programs including consultations, workshops, conferences and seminars. The intent is to identify people whose race is discernible who have personal contact with Extension programs.

*To be submitted annually.

Table VII Total Clientele Contacts by Racial-Ethnic Groups by Program Area¹

						Chack One	Chack One. Professional			
State	1	NORTH CAROLINA	A				X Paraprofessional	lonal		
Instit	Institution	1862	(1862, 1890, Tuskegee)	(00)		21.4				
7	85-86	.						453,907	301,483	i g
					200 17	0.009	40,000			
		Racial-Ethni	Racial-Ethnic Composition	1771	-	Page 1	24,000	The state of the s	I	
		White	Black	American	Hispanic	Aslan	Total 408.0	Total Data by Sex	Sex	
Pro	Program	Not of Hispanic Origin	Not of Hispanic Origin	Alaskan Native	8	Pacific Islander	0007,540	2	L	OTHER
	4	Series been	027	0	c	0	2,105	1,586	519	0
ANA		1637	429		Machine		100.0	75	.25	0
	%	17.17	21.80	.43				12.55	10	0
	ò	777	21	0	0	0	CO	-		
CRO	%	69.69	32.31	0	0	0	0.000	85	15	
1	2	35.740	71,678	3,820	192	41	111,698	12,660	99,038	227
포	THE PERSON	0 00	64.2	3.4	.2	.03	100.0	.11	.89	.2
	2	25.0	71 080	1 394	171	84	101,038	37,900 "	63,138	96
+		36,207	200414	1 370	175	80.	100.0	38	.63	60.
	%	57.61	40.66	1.3/3			professional fit a			

^{*}The number of face to face contacts made in conduct of programs including consultations, workshops, conferences and seminars. The intent is to identify people whose face is discernible who have personal contact with Extension programs.

To be submitted annually.

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State	- decorate	NORTH CAROLINA	INA			Check One:		-	
100	lactitudion!	1890		100			M Paraprofessional	Onai	
		W.S. K	(1862, 1890, Tuskegee)	(998)					
	36	9							
۲	85-86	. 9					10, 703	2,534	\$ 260
1 8	1.	Racial-Ethni	Racial-Ethnic Composition		6	0 4	1,000	R	8
		White	Black Not of	American Indian or	Hispanic	Aslan	Total	Total Data by Sex	ž
P &	Program	Hispanic	Hispanic Origin	Alaskan	0	Islander	5,00%	3	L
	2	703 01	10.043	983	·	3	21,623	17,765	3,858
ANA		47C 'OT	C+0*/17	200	c	1000	100.0	.82	.18
	2	64.	610.	. CO.		0	1,746	815 - ?	931
CRD		21/	717,1	010		0	100.0	.47	.53
	2	.30	0/.	1.345) II	0	9,587	584	9,003
뿦	2 8	318	68	.14	.001	0	100.0	90.	.94
	2	989 6	11.890	12	0	17	21,605	9,465	12,140
‡		.45	.55	9000.	0	8000.	100.0	747	.56
	•	•			-		CHIPOTOGRAPHICAL THE		

OTHER

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To be submitted annually.

The number of face to face contacts made in conduct of programs including consultations, workshops, conferences and seminars. The intent is to identify people whose face is discernible who have personal contact with Extension programs.

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State		NORTH CAROLINA	A			Check One:	Check One: I Professional			
1	Detitution	1890	7	9090			☐ Paraprofessional	lonal		
		000	(1862, 1890, Tuskegee)	(00)						
	85.8									
7	FY (%)					0	9.360	288	100,8	
		Racial-Ethnik	Racial-Ethnic Composition	, 670	٥.	0	Elek	147	8	
		White	Black Not of	American Indian or	Hispanic	Asian	Total	Total Data by Sex	y Sex	
Are	Program	Hispanic	Hispanic Origin	Alaskan Native	0	Pacific	31,633	296.2	L	OTHER
1.1	Š	3677	1,387	16	0	0	5,082	3,862	1,220	2
ANA	%	.72	.27	.003	0	0	100.0	92.	,24	.0004
	è	1.315	2,301	10	0	0	3,626	1,360	2,266	0
CRD	%	.36	. 64	.003	0	0	100.0	.38	.62	0
	ģ	5,170	5,318	15	1	0	10,507	2,144	8,363	3
¥	8	67.	.51	.01	.0001	0	100.0	.20	.80	.0003
	Š	7,946	985,9	19	0	0	14,631	4,759	9,872	80
1	%	.54	.45	.001	0	0	100.0	.33	.67	900.

The number of lace to face contacts made in conduct of programs including consultations, workshops, conferences and seminars. The intent is to identify people whose race is discernible who have personal contact with Extension programs.

To be submitted annually.

Page:

Number

Total No. 4-H Youth Units Male Female Youth ***************************** 13417 18484 31901 1936 35750 42762 78512 2289 1. Youth in organized 4-H clubs. 2. Youth in 4-H Special Interest Programs 899 26152 49660 23508 *3. Youth in Other Educational Programs 2594 XXXXXXXXXX 1485 1109 4. Youth in 4-H Individual Study 0 1 XXXXXXXXX 5. Youth in a 4-H Instructional TV Series TOSTI 1 ****************************** 62731 113008 XXXXXXXXXX 50277 53469 96044 4225 7. TOTAL (With Duplications eliminated) 42575

8. Ages of all youth served by 4-H programs 9. 4-H participants by place of residence

Under 9 Age 9	17601 11904	Farm 12899
Age 10 Age 11 Age 12	13661 13368 12509	Town under 59453
Age 13 Age 14 Age 15	9667 6445 4082	Town 10,000 16124
Age 16 Age 17	3147 2109	Suburbs 2037
Age 18 Age 19 Over 19	1041 427 83	City over 50,000 5531
TOTAL	96044	TOTAL 96044

11. Integration of 4-H Units

	the same of the sa	n Racially-Ethnically n Racially-Ethnically n NON-Racially-Ethnica	mixed Communitative	integrated. not integrated.	1909 1363 953
с.	4 0			TOTAL	4225

Please note:

*1. Item 3 - Youth in Other Educational Programs

The figures in Item 3 are not included in the totals calculated in lines 6 and 7.

2. Item 10 - Use of 4-H Instructional T.V. Series

Item 10 can be found on page 8.

12. Distribution of Racial-Ethnic youth in integrated and non-integrated 4-H Units.

White	Black	American Indian	Hispanic	Asian	TOTALS
42654	25169	1020	396	204	69443
17307	7529	95	oblivioni il	4	24942
9630	6315	m) m/ (4 83 d	0	0	16028
1528	1053	2	2	9	2594
read the T	0	(d 0 ₃	0	0	1
71120	40066	1200	405	217	113008
60999	33652	880	340	173	96044
	42654 17307 9630 1528 1	42654 25169 17307 7529 9630 6315 1528 1053 1 0 71120 40066	White Black Indian 42654 25169 1020 17307 7529 95 9630 6315 83 1528 1053 2 1 0 0 71120 40066 1200	White Black Indian Hispanic 42654 25169 1020 396 17307 7529 95 7 9630 6315 83 0 1528 1053 2 2 1 0 0 0 71120 40066 1200 405	White Black Indian Hispanic Asian 42654 25169 1020 396 204 17307 7529 95 7 4 9630 6315 83 0 0 1528 1053 2 2 9 1 0 0 0 0 71120 40066 1200 405 217

13. 4-H Volunteers

Race & Sex		Adults	Youth	TOTAL
	Male	6046	1092	7138
1000 00	Female	10109	1640	11749
hite, not Hispanic	TOTAL	16155	2732	18887
			JATOT	
	Male	1151	401	1552
lack, not Hispanic	Female	4170	719	4889
ack, not hispanic	TOTAL	5321	1120	6441
	Male	1 89	11	100
	Female	202	25	227
nerican Indian	TOTAL	291	36	327
	Male	1 10	10	20
		21	16	37
ispanic	TOTAL	31	26	57
		. 5	4	2 2 2 2 3 9
	Male	14	8	. 22
sian or Pacific Islander	Female		12	31
	TOTAL	19	12	J.
*****************	Male	7301	1518	8819
		14516	2408	16924
TOTALS	Female	With the second	3926	25743
	TOTAL	21817	3920	25,45

14. Racial-Ethnic distribution of volunteers working directly with youth in 4-H units

ACCO CONTROL OF THE C	White	Black	American Indian	Hispanic Asian	Totals
Volunteers in integrated Units in racially-ethnically mixed communitites	5809	1941	134	9 7	7900
Volunteers in 4-H Units not integrated in racially-ethnically mixed communities	3309	1459		THE PRINCE TO SERVER BOTTON OF	4789
Volunteers in 4-B Units in non- racially-ethnically mixed communities	1820	860	18	0	2698
TOTALS	10938	4260	164	16 tould-to	15387

15. 4-H Curriculum Classification

ANIMAL AND POULTRY	Male	Female	TOTAL
	2391	1864	4255
AAAnimal Science	42	49	91
ABMeat Science	216	327	543
ACVeterinary Science	793	540	1333
ADBeef	1058	1277	2335
AEDairy	2374	5801	8175
AFHorses and Ponies	580	605	1185
AGSheep	866	703	1569
AHSwine	3214	3087	6301
AIEmbryology	521	542	1063
AJPoultry and Poultry Products	750	946	1696
AKDogs	268	250	518
ALRabbits	76	76	152
AMGoats	261	. 375	636
ANSmall Animals, Pets, Lab Animals	92	74	166
AOOther	72		
TOTAL ANIMAL AND POULTRY	13502	16516	30018

COMA - 15A1 TAIS LASSAGE & BROCK STRICKLYS MATOR

Male Female TOTAL PLANT SCIENCE AND CROPS 2132 2442 4574 BA--Plant & Soil Science 482 257 739 1357 1428 2785 960 1049 2009 BB--Crops & Crop Science BC--Gardens - Fruits and Vegetables BD--Ornamental Horticulture 955 1706 751 955 1706 13 17 30 BE--Flower Gardening & House Plants BF--Other TOTAL PLANT SCIENCE & CROPS 5695 6148 11843 MECHANICAL SCIENCE 1 3 statement and the CA--Engineering 299 49 348 19 0 19 CB--Tractors, Field Mach. & Equipment CC--Tractor & Machinery Certification 488 90 578 CD--Small Engines 374 856 482 CE--Automotive 2481 2428 4909 CF--Bicycle 1637 3116 1479 CG--Electric 29 65 36 CH--Electronics 707 189 896 CI--Aerospace CJ--Wood Science & Other Industrial Arts 665 536 1201 0 2 CK--Other _______ 5177 TOTAL MECHANICAL SCIENCE 6816 _______ NATURAL RESOURCES DA--Ecology & Environment 1857 3592 1735 195 181 376 DB--Geology & Minerals
DC--Entomology & Bees 789 708 1497 1251 2321 1757 3598 DD--Conservation of Natrual Resources 1070 1841 DE--Soil & Water Conservation 4975 2568 2407 DF--Forestry 5481 3103 2048 DG--Wildlife & Fisheries 2378 2232 4280 DH--Marine Science & Aquaculture 9 5 4 DI--Range 1492 DJ--Other 14846 14248 29094 TOTAL NATURAL RESOURCES ECONOMICS, JOBS AND CAREERS 606 678 1284 EA--Economics & Business 159 232 391 EB--Marketing 2920 1434 1486 EC--Career Exploration 98 42 56 TOTAL ECONOMICS, JOBS & CAREERS 2241 2452 - 4693

TIZENSHIP & COMMUNITY INVOLVEMENT	Male	Female	TOTAL
AKnow Your Community	1542	1799 -	3341
BKnow Your Government	1263	1454	2717
CCommunity Service & Action	2906	3866	6772
DLeadership Skills Development	1982	3184	5166
ECitizenship	1211	2023	3234
	92	234	326
FInternational Study GExchange Programs - International	678	772	1450
HExchange Programs - Domestic	155	222	377
	103	281	384
I Other			*******
TOTAL CITIZENSHIP & COMMUNITY	9932	13835	23767
EISURE & CULTURAL EDUCATION	AL & PARTE		
ALeisure Education (General)	2999	4575	7574
ALeisure Education (General)	2217	2869	5086
BExpressive Arts CSocial Recreation Skills	1328	1431	2759
CSocial Recreation Skills COutdoor Ed./Recreation Programs	3723	3898	7621
DOutdoor Ed./Recreation Flograms	4443	6495	10938
EHobbies & Collections	1659	2408	4067
FCultural Heritage	1510	1169	2679
GOther			
TOTAL LEISURE & CULTURAL ED.	17879	22845	40724
	ETRA MOTTA	SIMUNOS.	
NERGY (Company)	5750	5336	11086
IAEnergy (General)	436	487	923
HBHome Energy	12	0	12
CFarm Energy	11	7	18
HDTransportation	0	0	0
HEOther			*****
TOTAL ENERGY	6209	5830	12039
ECTIVITIES		STRUCKLER	
HEALTH & SAFETY	3813	5139	8952
IAHealth	1507	1750	3257
IBPhysical Fitness, Sports	1547	1797	3344
ICHome Nursing, First Aid	7891	8036	15927
IDSafety	62	101	163
IEOther	02		*******
		27,000	

Integrated Spice Asset Parks States Spice Transcription

INDIVIDUAL & FAMILY RESOURCES Male Female TOTAL 86 222 308 145 553 698 JA--Management - Personal & Home JB--Home Environent 630 1254 1667 733 6014 6747 5390 11805 17195 192 1195 1387 630 1254 1884 JC--Consumer Education JD--Clothing & Textiles JE--Food & Nutrition
JF--Food Preservation JG--Food Preservation

JG--Family Life Education

JH--Child Care, Babysitting

401 2376 2777

2514 925 1589 2514 JI--Personal Development JJ--4-H EFNEP 3941 4813 8754 TOTAL INDIVIDUAL & FAMILY 13969 32481 46450 COMMUNICATIONS ARTS & SCIENCES 688 1085 1773 KA--Public Speaking KB--Graphic Arts, Displays, Exhibits 685 1126 1811 763 1114 1877 KC--Photography KD--4-H Ambassadors, Public Rel. & Mass Media 793 1290 2083 KE--Using Computers 787 799 1586 TOTAL COMMUNICATION ARTS & SCIENCE 4023 5808 9831 INTRODUCTORY, GENERAL, MISCELLANEOUS INTRODUCTORY, GENERAL, MISUELLANGUOS

LA--Exploring 4-H

3276
3276
3835
7111 6813 8020 14833 GRAND TOTAL ENROLLMENTS 116745 150183 266928

16. Summary of Extension 4-H Youth Conducted Camps

Racial-Ethnic Characteristics of Youth Attending Camp Integrated White Black Indian Hispanic Asian 453 54 35 0 0 0 542 A. No. of Camps Sessions

ID-Physikan Faransa, Apairis 10-nama Amailia, fless dan 1897 1998

NCarolina.fma

16. Summary of Extension 4-H Youth Conducted Camps

			ial-Ethnic Characteristics of Youth Attending Camp						
	Integ	rated	White	Black	Indian	Hispanic	Asian	TOTAL	
B. Youth in attendance White Not Hispanic	by race M F	and s 3629 4146	354				XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Black Not Hispanic	M F	2106 2126	XXXXXXXXXXX				XXXXXXXXX XXXXXXXXXX		
American Indian	M F	76 79	XXXXXXXXXX				(XXXXXXXXXX (XXXXXXXXXXX		
Hispanic	M F	62 60	XXXXXXXXXX		(XXXXXXXXXX (XXXXXXXXXX		XXXXXXXXX XXXXXXXXX		
Asian Pacific Islander	M F	14 24			(XXXXXXXXXX (XXXXXXXXXX			1 2	
TOTAL YOUTH	M F	5887 6435	354 421	354 355	0 0	0 0	- 0 0	659 721	

C. Staff members assisting by race and sex

M	1210	121	0	0	0	0	133
F	2178	214	1	0	0		239
М	248	0	18	0	0	0	26
F	641	4	66	0	0	0	71
M	0	0	0	0	0	0	1
F	15	0	1	0	0	0	
M	1	0	0	0	0	0	
F	2	0	0	0 -	0	0	
M F	1 2	0 0	0 0	0 0	0 0	. 0	
м	1460	121	18	0	0	0	159
F	2838	218	68	0	0.	0	312
	F M F M F M F M F M F M F M F M M	F 2178 M 248 F 641 M 0 F 15 M 1 F 2 M 1 F 2 M 1460	F 2178 214 M 248 0 F 641 4 M 0 0 F 15 0 M 1 0 F 2 0 M 1 0 F 2 0 M 1460 121	F 2178 214 1 M 248 0 18 F 641 4 66 M 0 0 0 F 15 0 1 M 1 0 0 0 F 2 0 0 M 1 0 0 F 2 0 0 M 1460 121 18	F 2178 214 1 0 M 248 0 18 0 F 641 4 66 0 M 0 0 0 0 F 15 0 1 0 M 1 0 0 0 F 2 0 0 0 M 1 0 0 0 F 2 0 0 0 M 1460 121 18 0	F 2178 214 1 0 0 M 248 0 18 0 0 F 641 4 66 0 0 M 0 0 0 0 0 F 15 0 1 0 0 M 1 0 0 0 0 F 2 0 0 0 0 M 1 0 0 0 0 F 2 0 0 0 0 M 1460 121 18 0 0	F 2178 214 1 0 0 0 M 248 0 18 0 0 0 F 641 4 66 0 0 0 M 0 0 0 0 0 0 F 15 0 1 0 0 0 M 1 0 0 0 0 0 F 2 0 0 0 0 0 M 1 0 0 0 0 0 M 1460 121 18 0 0 0

10. Use of 4-H instructional TV Series in all delivery modes (Total doesn't have to add to total in Item 5)

	Series	N	o. Participating
b. '	Mulligan Stew Film Series Energy Conservation 4-H Videotape Instruction		129 181 17
		TOTAL	327