

2011 Tuskegee University Extension Annual Report of Accomplishments and Results

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I. Report Overview

1. Executive Summary

Tuskegee University Cooperative Extension Program (TUCEP) has worked in cooperation with the Alabama Cooperative Extension System and in joint and integrated efforts with the George Washington Carver Agricultural Experiment Station to carry out a comprehensive statewide Extension Plan of Work. TUCEP continues to focus its major efforts around 12 Alabama Black Belt counties, but it has programs in other south central counties, in addition to Marshall County where the Cherokee Tribe of North East Alabama is primarily headquartered. Specialists also worked throughout the state of Alabama where requested and when needed in joint educational programming. TUCEP contributes to 3(d) program objectives as funds are made available. The mission of TUCEP is to help educate and provide research-based educational programs designed for life-long learning and to assist limited resources families, both urban and rural, and other groups and organizations, to improve their quality of life in a rapidly changing technological and global society.

The planned programs included Six Program Areas that constitute the core of TUCEP and serve as the measurable outcomes or impacts of the program. These Program Areas are well defined within the five priority goals of Extension outlined in the USDA, NIFA Strategic Plan. They provide a variety of research-based, outreach and educational programs designed to assist limited resource families--the targeted populations served. Also, specialists and agents contributed a significant amount of their time to the work unique to the counties in which they live and serve.

Following the recent adjustments to USDA-NIFA societal priorities, the seven Program Areas are, (1) Youth Entrepreneurial Initiative and Workshop Development, (2) Global Food Security, Small Scale Farming, and Landownership, (3) Enhancing Citizens Capacity to Transform Their Communities, (4) Sustainable Energy, and Integrated Natural Resources and Climate Change, (5) Childhood Obesity, Nutrition and Healthy Lifestyles, and (6) Food Safety.

The agents, specialists, as well as support staff for each program area, implemented educational workshops, training in small groups and individual technical assistance follow-ups, and included target audiences in major conferences such as the 15th Booker T. Washington Economic Summit, 66th Professional Agricultural Workers Conference, 119th Annual Farmers Conference, Youth Empowerment Summit, Goat Day, and summer camps which have become well tailored educational opportunities for limited resource families in the Alabama Black Belt counties. In addition, educational opportunities were taken to schools, community settings, other camps, and other venues as recommended by key stakeholders through the well established stakeholder input process primarily via the six -county advisory councils and a state Advisory council. The program reported activities resulted in more than 58,000 contacts for youth and adults to yield the highlights described below.

Youth Entrepreneurial Initiatives and Workforce Development

TUCEP conducted several entrepreneurship and leadership development camps, as well as science and technology educational programs, collegiate entrepreneurship and business development to reach more than 200 youth in the 12 county service area. These students have been exposed to a variety of entrepreneurial curriculums, programs, and models as well as being engaged in experiential hands-on-learning to increase knowledge and skills in entrepreneurship and business development, leadership and workforce development and science and technology. All the participants in the various programs demonstrated a significantly increased understanding of the basics of entrepreneurship and business

management, leadership development, money management, decision making and career choices. Additionally, students also demonstrated improved skills in science and technology systems applications and experiment design as well as self-esteem and team work efforts.

Global Food Security, Small Scale Farming, and Landownership

The issues of declining numbers of small-scale producers, land loss by small-scale producers, lack of resources, lack of marketing opportunities, low profitability, dying communities, and globalization are critical to small-scale agriculture. TUCEP helped farmers to face these challenges through a continuous program of education and technical assistance. In collaboration with state Department of Agriculture and Industries, TUCEP assisted farmers with funding and technical assistance in carrying out four (4) plasticulture vegetable demonstrations in Shorter, Cotton Valley, and Franklin communities. These sites have been used to provide hands-on resources on cultural and alternative production practices of pecans, peaches, plums and other small fruits. Producers expected thereafter to be able to make well-informed and research-based decisions, understand the nature of changes in agriculture, and be able to use applicable tools, strategies, and techniques to increase profitability and sustainability. TUCEP also provided valuable livestock production information and assistance to more than 275 meat goat producers and 56 cattle farmers in the State of Alabama during the year. Practical hands-on sessions have focused on the use of FAMACHA Card, Condition Score, De-worming, and fecal sample collection, processing, and examination as key aspects of parasite control and management. Eighteen (18) research and demonstration sites have been established within the Black Belt and surrounding counties to further teach sound management practices for goat producers in efforts to create alternative marketing strategies for quality goat meat and by-products. A good number of the meat goat producers have improved knowledge and skills in regards to sound production management to reduce mortality rates and reduce problems associated with internal parasites. Many have also adopted a cooperative marketing program to increase profits from the sale of their goats to contract buyers. Cattle producers have also improved their breeding stock by selecting purebred or high quality replacement bulls or heifers, as well as improved nutrition management through pasture improvement for overall higher market sale prices.

Tuskegee University's Small Farmer Outreach, Training and technical Assistance Project conducts outreach and technical assistance to encourage and assist socially disadvantaged farmers, ranchers and forest landowners (SDFRFLs) to own and operate farms and forestlands; to provide for a financially secure farm family; and to provide information on loan applications and farmer programs. Over the last five years alone, the Tuskegee University project has enabled farmers to access over 241 loans worth more than \$10.3 million, including 21 ownership (\$3.8 million), 60 operating (\$1.6 million), 61 housing (\$3.2 million), 33 equipment (\$628,000), 28 livestock (\$305,000), and 15 youth (\$75,000).

Enhancing Citizens Capacity to Transform Their Communities

Educational workshops, small group meetings and one-on-one technical assistance with individuals and community groups were conducted in the areas of workforce development, small business development, housing assistance, tax assistance and community leadership development. Nineteen scholarships were awarded to graduating seniors from Central and Calhoun high schools in Lowndes and Wilcox Counties for a total of two hundred eighty-nine (289) scholarships over the sixteen-year existence of the Wil-Low Dollars for Scholars Community Foundation. As a result of a 8 week housing educational training, 23 families were assisted with FEMA disaster assistance. Ten (10) families and individuals were able to establish saving plans and financial management plans, and debt tracking and management into their daily activities. Three (3) families were able to qualify for a new structure or home through the local USDA-Rural Development office in the amount of \$125,000 per individual or family for a total of \$375,000. Three (3) families and individuals received assistance in the amount of \$20,000 as well as \$7,500 in grant funds. Eighty-six low income households received about \$125,000 in income tax refunds and credits with an average of about \$1,400 per family while also receiving educational information on budgeting, saving, and credit management. Participation in this program doubled from the previous year and returning filers showed an increased understanding of the importance of saving as reflected in their intended uses of refund money

Sustainable Energy, Integrated Natural Resources and Climate Change

TUCEP provided youth and adults in the Lowndes and Wilcox County area with educational programs on land use planning and natural resource management to help increase their knowledge and awareness in land issues. Educational information and one-on-one sessions provided landowners and hunting groups with increased knowledge on wildlife management, soil testing, soil preparation and seed selection for food plots. There was a noticeable improvement in wildlife habitation as a result of implementing these suggestions. Thirty-four percent of clients that requested information and was assisted in one-on-one visit indicated an increase in monetary value of overall hunting leases. A series of water testing and water quality education workshops were conducted in Lowndes, Wilcox, Sumter, Marengo, Dallas and Perry Counties to cover such areas as watersheds principles, sources and effects of water contaminants, water testing, septic systems, and best management practices. The pre- and post-workshop tests showed that awareness level increased from 35% to 77%; knowledge gain increased from 57% to 71%; change in attitude towards water quality enhancement increased from 37% to 55%; while change in behavior towards community participation to protect water quality increased from 50% to 78%, after the workshop.

Childhood Obesity, Nutrition and Healthy Lifestyles

Obesity, poor nutrition, and limited physical activity continue to pose significant health concerns particularly for minority and low-income populations. TUCEP is involved in alleviating this problem through the EFNEP partnership, the "Skegee Fit" initiative, Summer Health and Fitness Academy (SHAFA), as well as the Senior Olympics and the Annual Nutrition, Health and Physical Activity Fair (NHPAF). TUCEP EFNEP reached 535 adults and 750 youth in 2011. Data reported through diet recalls show that EFNEP graduates eat more closely to My Pyramid recommendations. More than 90 percent of the adults have improved their diets, including consuming an extra cup of fruit and vegetables, improving their nutrition practices, better managing food resources, and food safety practices. Ninety-eight (98) kids from seven Black Belt Counties enrolled in the 2011 SHAFA camp gained knowledge in the areas of nutritious diets, and the importance of reducing fat and added sugar intakes and that of increasing daily physical activity. The youth participants were able to develop and practice strategies for making healthful food choices in real-life settings and to understand the importance of continued healthy physical activity. Additionally, health and fitness initiatives such as NHPAF, "Skegee Fit" and Senior Olympics have focused on providing resources and tools for improved health and wellness through nutrition and physical activity as part of the effort to promote awareness and education in the prevention of chronic diseases.

Food Safety

This new program area is being developed to focus its major efforts on Hazard Analysis Critical Control Points (HACCP) education primarily at the producer level among small and limited resource farmers in the Black Belt counties. Additional program activities will involve food safety education for children, youth as well as families at risk through the EFNEP and CYFAR programs. Preliminary surveys revealed that most limited resource vegetable farmers in Alabama were poorly informed about food safety and integrated pest management (IPM) concepts, techniques and practices. Methods such as training workshops, on-farm demonstrations, and direct pest management assistance were therefore employed to address the training needs of farmers and county extension agents. Food safety workshops were also organized for different clusters of farmers, especially those involved in the Wal-Mart initiative to buy locally produced vegetables and fruits. Post-tests revealed a significant improvement in knowledge on IPM and food safety practices. A number of participating farms and one produce-processing facility in AL were GAP-certified and currently supply Wal-Mart with fresh peas, watermelons, and collard greens. Evaluation of a range of organic/reduced risk insecticides for the management of cowpea insect pests has also started. Food safety education was also introduced in the classroom setting through the summer youth college, SHAFA, CYFAR programs.

Total Actual Amount of professional FTEs/SYs for this State

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	23.8	0.0	0.0
Actual	0.0	0.0	0.0	0.0

II. Merit Review Process

1. The Merit Review Process that was Employed for this year

- Internal University Panel
- External University Panel
- Expert Peer Review
- Other (Local Advisory Councils and State Advisory Council)

2. Brief Explanation

The Merit Review Process Committee which is now merged with the State Advisory Council, follows the guidelines outlined in the TUCEP Advisory Council hand book as well as reports and recommendations from key programs and meetings. The State Advisory Council holds its annual meeting in February each year for input from local county advisory councils and input from stakeholders as it relates to program relevance and impacts.

III. Stakeholder Input

1. Actions taken to seek stakeholder input that encouraged their participation

- Use of media to announce public meetings and listening sessions
- Targeted invitation to traditional stakeholder groups
- Targeted invitation to non-traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of traditional stakeholder groups
- Survey of traditional stakeholder individuals
- Survey of the general public
- Survey specifically with non-traditional groups

- Survey specifically with non-traditional individuals
- Survey of selected individuals from the general public

Brief explanation.

Stakeholders from our service area were encouraged to participate in all Extension activities, because of the knowledge and skills they could gain. Also, knowledge gained and skills learned from participating in Extension educational activities could help them to transform their communities, improve their leadership abilities and skills, and to improve their quality of life. Lastly, stakeholders serve as advocates for the Extension program and contribute to accountability. With input from stakeholders guiding our program planning, priority is given to areas with the greatest need.

2(A). A brief statement of the process that was used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Use Internal Focus Groups
- Use External Focus Groups
- Open Listening Sessions
- Needs Assessments
- Use Surveys

Brief explanation.

Several methods were utilized for identifying individuals and groups such as the use of local and state advisory councils, listening sessions, and other needs assessments. Methods vary according to Program Areas. In Small-Scale Farming and Global Food Security, the methods were identified by interest levels, e.g., those interested in vegetable production participated in vegetable production; those interested in beef cattle production participated in the same; those interested in forestry participated in forestry. Some individuals and groups (professionals leaders, elected officials, producers, and landowners) were tasked to serve on extension leadership teams, because they were aware of extension program goals and objectives and could provide quality input. Some individuals were targeted at the place where they transact business--producers at the farmers market--and their inputs were sought. Some demographic data on population were utilized to make contacts with new stakeholders and their input was sought. Collaborations with local, state and federal agencies such as FSA, NRCS, RC&D Councils, and other farm organizations as well as community-based organizations were used to identify new stakeholders and their input was sought. Additionally, agents, specialists, and administrative team worked together to identify individuals and groups that would add quality input into Extension programming, as they sought to improve program quality and development.

2(B). A brief statement of the process that was used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them

1. Methods for collecting Stakeholder Input

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Meeting with the general public (open meeting advertised to all)

- Survey of the general public
- Meeting specifically with non-traditional groups
- Survey specifically with non-traditional groups
- Meeting specifically with non-traditional individuals
- Survey specifically with non-traditional individuals
- Meeting with invited selected individuals from the general public
- Survey of selected individuals from the general public

Brief explanation.

The methods mentioned above were utilized by the TUCEP team to collect stakeholders' input. The meetings and surveys with traditional groups and individuals are necessary to maintain current program support and to make program modifications, if necessary. Meetings with the general public at conferences such as the Annual Farmers' Conference, the Annual Booker T. Washington Economic Development Summit, the Youth Empowerment Summit, and the Annual Professional Agricultural Workers Conference give participants the opportunity to inquire and receive information about TUCEP. These conferences present challenges and opportunities for program development. TUCEP continues to employ a full-time Community Resource Specialist to provide assistance and coordinate planning in conducting entrepreneurial initiatives that address needs of the Cherokee Tribe of Northeast Alabama, other Native Americans, and Hispanic groups in South Central Alabama.

3. A statement of how the input will be considered

- In the Budget Process
- To Identify Emerging Issues
- Redirect Extension Programs
- In the Action Plans
- To Set Priorities

Brief explanation.

Inputs from stakeholders were used to strengthen or change existing research-based Extension program activities as reflected in the 2012-2016 Plan of Work Update. Extension Teams Projects (ETPs) and special initiatives were added to Extension Program Areas where needed and area of services were extended to reach wider audiences in some counties. The goals of these changes are to improve the quality of life for the clients served and to improve the quality of programs Extension is offering to the public.

Brief Explanation of what you learned from your Stakeholders

TUCEP continues to be well received and considered a vital part of the communities in which it serves. The communities in which TUCEP serves support programs that meet needs and improve the quality of life. Stakeholders report sustainability and profitability (impacts) from their involvement in Extension. TUCEP learned of the need to support and fund programs that lead to higher yields in vegetable and fruit production, more efficient and effective budget and record keeping, reduction in the use of pesticides, implementing more of the best farm management practices, forest resource management practices, enhanced economic development practices, as well as the need to re-allocate some resources to impact producing programs in youth development, childhood obesity

prevention, food safety, and alternative energy use and technologies. Some stakeholders want more effective and efficient parenting educational activities, including early prevention of childhood obesity in their communities.

IV. Expenditure Summary

1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS)			
Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	2111016	0	0

2. Totaled Actual dollars from Planned Programs Inputs				
Extension			Research	
	Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
Actual Formula	0	1517461	0	0
Actual Matching	0	1414586	0	0
Actual All Other	0	561643	0	0
Total Actual Expended	0	3493690	0	0

3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous				
Carryover	436843	0	0	0

V. Planned Program Table of Content

S. No.	PROGRAM NAME
1	Youth Entrepreneurial Initiatives and Workforce Development
2	Small-Scale Farming, Landownership, and Global Food Security
3	Enhancing Citizens Capacity to Transform Communities
4	Integrated Natural Resources, Renewable Energy, and Climate Change
5	Childhood Obesity, Nutrition, and Healthy Lifestyles
6	Food Safety

V(A). Planned Program (Summary)

Program # 1

1. Name of the Planned Program

Youth Entrepreneurial Initiatives and Workforce Development

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
601	Economics of Agricultural Production and Farm Management		15%		
604	Marketing and Distribution Practices		10%		
801	Individual and Family Resource Management		25%		
806	Youth Development		50%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	3.0	0.0	0.0
Actual Paid Professional	0.0	3.0	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	188896	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	176090	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	20722	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The implementation of entrepreneurial and workforce development trainings as well as technology and science education were conducted in schools, on college campuses, in community settings, and in youth camps. There were pre- and post evaluations of participant's prior knowledge of entrepreneurship and or science and technology and an acquisition of selected skills.

One hundred thirty-five students were enrolled in Entrepreneurial and Financial management classes during the summer enrichment camps. Educational programs were presented in the areas of SMART Financial Goals, Decision Making, Budgeting, and Saving SMART. Other subjects presented were Turning Hobbies into Money Making Ventures, and Strategies for Success. More than 85 percent of students demonstrated decision making behaviors and practices through participation in classroom activities and assignments. Forty two percent of students exhibited self confidence in pursuing business ventures. Sixty five percent exhibited increased knowledge in financial management, saving, and spending. Two students reported opening saving accounts.

TUCEP was also part of a five day entrepreneurship camp held at the University of West Alabama in Livingston that provided seventeen (17) students from the Black Belt the opportunity to learn real-world business skills through an interactive curriculum and field trips. Camp participants learned the basic key elements of entrepreneurship and management which included the Four P's of Marketing (product, place, price and promotion), using websites to identify potential customers, and advertising techniques. Camp participants were also educated on the importance of maintaining good credit, money management, and budgeting principles. Furthermore, team building activities were introduced to camp participants to educate them on the importance of working together to accomplish a common goal. Over 90% of students demonstrated a measurable increase in awareness and knowledge gain in the various principles taught.

Another group of students participated in the Citizenship Washington Focus Program and had the opportunity to visit the nation's capital and to speak with congressmen, participate in Capitol Hill Day, and meet Alabama representatives. Moreover, they learned the true responsibilities of being a citizen and having sincere concerns for their communities, state, and the nation. These students were exposed to and demonstrated their public speaking skills and presented their opinions on issues of concern to diverse audiences. Students were also exposed to new surroundings and people, as well as a lifetime experience in the nation's capital, and an enhanced meaning of citizenship, leadership, and volunteerism.

Tuskegee University also hosted AgriTREK Summer Institute and AgDiscovery Summer Program for high school youth to explore careers in STEAM fields, with particular regard to their relation to agriculture. Twenty-six youth participated in educational and career information through leadership training and experiential learning about various careers in and related to agricultural sciences, such as Forestry, Wildlife Biology, Chemistry, Animal Science, Biotechnology, Plant/Soil Sciences, Veterinary Medicine, Agricultural Economics, and Engineering. Participants took part in wet labs, workshops, site visits and presentations. Reflective journals and surveys were used to determine increased self and career awareness. Findings suggest that the AgriTREK and AgDiscovery programs proved successful in significantly raising awareness about educational and career opportunities in STEAM fields, particularly agriculture.

TUCEP organized a local National Youth Science Day (NYSD) for two Macon County Schools to join millions of young people across the nation participating in the 4-H NYSD activities. Twelve youth enrolled in the Wired for Wind: 2011 National Science Experiment, which demonstrated how young people can implement alternatives to traditional energy production and have a positive impact on their communities and ecosystems. In all, a total of 62 students attended the National Youth Science Day event where the 12 project participants demonstrated their skills in prototype design, testing, and recording of findings in a presentation to the audience.

2. Brief description of the target audience

The targeted audiences are the rural and some urban youths, collegiate students, and young adults in the general population of the Alabama Black Belt.

3. How was eXtension used?

eXtension was used to acquire materials and resources on entrepreneurship program models and curriculums through interactions with participants from the communities of practice.

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	200	1000	1433	3000

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Schools, community centers, faith-based organizations, summer camps, extension personnel and youth service agencies.

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Youth and adults will explore entrepreneurship, economics, law, government and business ethics; and expand participant's jobs skills, as well as knowledge of math, public speaking, marketing, decision-making and business leadership.

Outcome #1

1. Outcome Measures

Youth and adults will explore entrepreneurship, economics, law, government and business ethics; and expand participant's jobs skills, as well as knowledge of math, public speaking, marketing, decision-making and business leadership.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

One of the issues being addressed in the Alabama Black Belt region is the lack of minority-owned small businesses. This is attributed to the lack of entrepreneurship education in the aforementioned region. The future of Alabama's Black Belt depends on the education and establishment of our future entrepreneurs. The deficiencies identified are therefore addressed through the youth entrepreneurship and workforce development programs.

What has been done

TUCEP conducted several entrepreneurship and leadership development camps, as well as science and technology educational programs, to reach more than 200 youth in the 12 county service area. These students have been exposed to a variety of entrepreneurial curriculums, programs, and models as well as being engaged in experiential hands-on-learning to increase knowledge and skills in entrepreneurship and business development, leadership and workforce development and science and technology.

Results

All the participants in the various programs demonstrated a significantly increased understanding of the basics of entrepreneurship and business management, leadership development, money management, decision making and career choices. Additionally, students also demonstrated improved skills in science and technology systems applications and experiment design as well as self-esteem and team work efforts.

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management

604	Marketing and Distribution Practices
801	Individual and Family Resource Management
806	Youth Development

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Public Policy changes
- Competing Programmatic Challenges

Brief Explanation

Program outcomes were affected by economic conditions in the region and competing programmatic challenges particularly where participants were required to pay a registration/enrollment fees.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Using experiential learning approach, 46 seventh to tenth graders participated in a weeklong training camp as part of an ongoing training to becoming YEP volunteers. Pre-training survey results showed 35% were physically active two days or less per week. Over a third (35%) spent five or more hours per day watching television. Almost half (48%) played video games or used computers for non-school related activities for five or more hours. Post-training comments showed participants' willingness to make positive impact on their communities. Actions participants want initiated include: creating awareness, starting after school clubs, and weekend church workshops, teaching young children, peers, and adults to make healthy choices.

One hundred and fifty students who were enrolled in 3 separate 5-day summer enrichment camps learned about key strategies for SMART Financial Goals, Decision Making, Budgeting, and Saving SMART. Financial management, marketing practices, advertising techniques and computer applications were also taught to students. The use of pre and post assessment tools helped identify the progress and efficacy achieved through this initiative. Over eighty percent of students demonstrated a measurable increase in awareness and knowledge gained in the various principles taught which even lead to some students starting their own savings accounts.

Key Items of Evaluation

Following reports from the Youth Empowerment Summit, its continued implementation as an annual conference will provide an opportunity to motivate and inspire youth in the region to have a positive outlook about their futures. The annual Youth Summit and the possible development of a "Center for Entrepreneurship" will remain the primary components of this program area. The Center would guarantee TU students the ability to gain a solid entrepreneurial educational base during matriculation and promote a national network of youths, adults, community organizations, business education, and

government agencies committed to advancing entrepreneurship education and implementation. The center will promote the development of entrepreneurial programs that empower youth to see and seize opportunities to respond to the social, political, and economic needs of their communities, their nation, and the world. The coalition will accomplish this through education, research, and the dissemination of information on the best practices of effective entrepreneurial programs.

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Small-Scale Farming, Landownership, and Global Food Security

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships		10%		
111	Conservation and Efficient Use of Water		10%		
123	Management and Sustainability of Forest Resources		10%		
131	Alternative Uses of Land		10%		
141	Air Resource Protection and Management		10%		
201	Plant Genome, Genetics, and Genetic Mechanisms		10%		
211	Insects, Mites, and Other Arthropods Affecting Plants		10%		
301	Reproductive Performance of Animals		10%		
501	New and Improved Food Processing Technologies		10%		
601	Economics of Agricultural Production and Farm Management		10%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	9.5	0.0	0.0
Actual Paid Professional	0.0	9.5	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	598168	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	557616	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	27457	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The program activities consisted of educational sessions, workshops, group discussions, one-on-one technical assistance, and field demonstrations. These activities were delivered in the areas of Sustainable Agriculture Beginning Farmer and Rancher Development Program, Small Ruminants and Livestock Management Program, Cooperative Marketing, and Forest Landowner Education and Youth Agricultural Programs.

TUCEP is helping farmers to face the challenges of land loss and declining farms, low profitability, lack of resources, lack of marketing opportunities and globalization and an through a continuous program of education and technical assistance. Extension and Ag & Industries have collaborated and assisted farmers with funding and technical assistance in carrying out four (4) plasticulture vegetable demonstrations in Shorter, Cotton Valley, and Franklin communities and information given on cultural and production practices of pecans, peaches, plums and other small fruits. In the long term, producers will be able to make well-informed and research-based decisions, understand the nature of changes in agriculture, and be able to use applicable tools, strategies, and techniques to increase profitability and sustainability.

The Small Farmer Outreach, Training and technical Assistance Project also provides outreach and technical assistance to socially disadvantaged farmers, ranchers and forest landowners (SDFRFLs). Through the use of one-on-one and larger group meetings, hands-on demonstrations and computer-assisted technology, project specialists provided assistance with farm production planning, record keeping, farm loan applications and marketing assistance to small farm families. Over the last five years alone, the Tuskegee University project has enabled farmers to access over 241 loans worth more than \$10.3 million, including 21 ownership (\$3.8 million), 60 operating (\$1.6 million), 61 housing (\$3.2 million), 33 equipment (\$628,000), 28 livestock (\$305,000), and 15 youth (\$75,000)

In order to address the issue of parasites in goats, a workshop on Integrated Management of Internal parasite in Goats was conducted. About twenty (20) individuals attended this educational and hands-on workshop which covered such topics as, Major Internal Parasites of Goats and Parasite Life-cycles, Pasture and Grazing Management for Parasite Control, Nutrition, Feeding and Immunity against Parasites, and FAMACHA and Smart Drenching. A practical hands-on session on the use of FAMACHA Card, Condition Score, De-worming, and fecal sample collection, processing, and examination was also conducted. Follow-up visits indicated that a number of the farmers that attended the workshop are using the information and they expressed that the information has made a major difference in their operations.

Tuskegee Extension and Research with assistance from NRCS, SARE and AALGUA grant assistance were able to provide valuable production information and assistance to more than(275) meat goat producers in the State of Alabama during the past year. Approximately 85percent of these goat

producers contacted during farm visits were new producers or producers that have been in business less than 2-4 years. Research has established Eighteen (18) research and demonstration sites within the Black belt and surrounding counties to further teach and demonstrate sound management practices for goat producers in our efforts to create alternative marketing strategies for quality goat meat and by-products. About 50% of the meat goat producers have improved knowledge and skills in regards to sound production management by attending and participating in the master goat producer's workshop. Goat producers continue to reduce mortality rates and reduce problems associated with internal parasites and an increasing numbers of them are taking soil test more often in efforts to evaluate the availability of trace minerals for goat herds. Several goat producers have also adopted a cooperative marketing program to increase profits from the sale of their goats to contract buyers.

Since its inception in 2008, 130 individuals have participated in the Master Goat Producer Certification (MGPC) program at minimum Level One which involves a comprehensive three-day intensive session on topics such as marketing, enterprise budgets, record keeping, facilities, livestock evaluation, parasite management, pasture management, nutrition, reproduction, predator management and more. An increase in post-test scores compared to pre-test scores, indicated increased knowledge that could result in improved herd management. About 20% of the participants have also proceeded to complete Level Two training.

2. Brief description of the target audience

The targeted audience primarily consisted of small-scale producers and landowners in the 12 Black Belt and surrounding counties in Alabama as well as youth in underserved communities across the State.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	3724	5000	378	1800

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
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Actual	5	0	0
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V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- The output target will consist of training in Integrated Pest Management, Plasticulture, Organic Farming, Forest Management, Animal Management and Marketing involving farmers, landowners, homeowners, senior citizens, youth farmer organizations, federal and state agencies and private industry.

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	The output target will consist of training in Integrated Pest Management, Plasticulture, Organic Farming, Forest Management, Animal Management and Marketing involving farmers, landowners, homeowners, senior citizens, youth farmer organizations, federal and state agencies and private industry.

Outcome #1

1. Outcome Measures

The output target will consist of training in Integrated Pest Management, Plasticulture, Organic Farming, Forest Management, Animal Management and Marketing involving farmers, landowners, homeowners, senior citizens, youth farmer organizations, federal and state agencies and private industry.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The issues of declining numbers of small-scale producers, land loss by small-scale producers, lack of resources, lack of marketing opportunities, low profitability, dying communities, and globalization are critical to small-scale agriculture. TUCEP is helping farmers to face these challenges through a continuous program of education and technical assistance.

What has been done

TUCEP assisted farmers with funding and technical assistance in carrying out four (4) plasticulture vegetable demonstrations in Shorter, Cotton Valley, and Franklin communities. TUCEP also provided valuable livestock production information and assistance to more than 275 meat goat producers and 56 cattle farmers in the State of Alabama during the past

Results

A good number of the meat goat producers have improved knowledge and skills in regards to sound production management to reduce mortality rates and reduce problems associated with internal parasites. Cattle producers have also improved their breeding stock by selecting purebred or high quality replacement bulls or heifers, as well as improved nutrition management through pasture improvement for overall higher market sale prices.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
111	Conservation and Efficient Use of Water

123	Management and Sustainability of Forest Resources
131	Alternative Uses of Land
141	Air Resource Protection and Management
201	Plant Genome, Genetics, and Genetic Mechanisms
211	Insects, Mites, and Other Arthropods Affecting Plants
301	Reproductive Performance of Animals
501	New and Improved Food Processing Technologies
601	Economics of Agricultural Production and Farm Management

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Government Regulations
- Competing Public priorities

Brief Explanation

Program outcomes were particularly affected by extreme weather conditions and the economy. A number of planned field demonstrations were cancelled due to bad weather and number of participants were lower than expected for some workshop and training sessions that required registration fees.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

About 50% of meat goat producers have improved knowledge and skills in regards to sound production management by attending and participating in the master goat producer's workshop. Goat producers continue to reduce mortality rates and reduce problems associated with internal parasites and an increasing numbers of them are taking soil test more often in efforts to evaluate the availability of trace minerals for goat herds. Several goat producers have also adopted a cooperative marketing program to increase profits from the sale of their goats to contract buyers.

Key Items of Evaluation

Research has established Eighteen (18) research and demonstration sites within the Black belt and surrounding counties to further teach and demonstrate sound management practices for goat producers in our efforts to create alternative marketing strategies for quality goat meat and by-products. A SSARE-funded on-farm research project is also underway to identify suitable winter legumes for goats.

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Enhancing Citizens Capacity to Transform Communities

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
602	Business Management, Finance, and Taxation		25%		
608	Community Resource Planning and Development		50%		
805	Community Institutions, Health, and Social Services		25%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	4.4	0.0	0.0
Actual Paid Professional	0.0	4.4	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	277047	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	258265	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	168251	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Extension activities included business and leadership development skills workshops, resource development and proposal writing, business and personal finance planning workshops, one-on-one technical assistance for loan applications, short-term skills training, county leadership development, home ownership, tax assistance and personal finance management in collaboration with other community agencies.

TUCEP assisted citizens in Wilcox and Lowndes counties to establish the Wil-Low Dollars for Scholars Community Foundation and has supported it over its 16 years of existence. The Foundation awarded 19 scholarships to graduating seniors from Central and Calhoun high schools for the year 2011. A total of two hundred eighty-nine (289) scholarships have been awarded over the past sixteen years.

Two hundred and forty seven (247) Adult Education students who were enrolled in 20 Workforce Development classes were presented with lessons in Visual, Oral, and written communication, Social Learning, Self-Esteem Building Blocks, and Parenting. Teachers responding to the communication and self-esteem program assessment indicated that, more than 90% of students increased their knowledge in each area of the communication, and 85% increased their knowledge in each area of self esteem, while 72% increased their skills level in both areas. More than 75% of students utilized or demonstrated the value of their self worth and expressed it through their communication skills learned in classroom activities.

TUCEP worked through a collaborative effort with the local USDA Rural Development office, to provide local families and individuals an eight (8) week educational training program in the areas of home management, household budgeting, dwelling maintenance, credit and debt management, long and short term goal setting skills, and credit repair and maintenance. As a result of the eight (8) week educational training, twenty-three (23) families were assisted with FEMA disaster assistance. Ten (10) families and individuals were able to establish saving plans and financial management plans, tracking and debt management into their daily activities. Three (3) families were able to qualify for a new structure or home through the local USDA-Rural Development office in the amount of \$125,000 per individual or family for a total of \$375,000. Three (3) families and individuals received assistance in the amount of \$20,000 plus \$7,500 were provided to all 3 families/individuals in grant funds.

The volunteer income tax assistance (VITA) site sponsored by Tuskegee University Cooperative Extension Program provides tax preparation and financial management assistance to low income tax payers in Macon County and neighboring towns. During the 2011 tax filing season, 86 households and individuals received about \$125,000 in income tax refunds and credits with an average of about \$1,400 per family. Of this amount, a total of about \$42,000 was received in earned income tax credits by 26 families boosting their refunds by an average of \$1,600. An additional 18 tax payers qualified for the child tax credit, and 12 tax payers qualified for educational credit with averages of \$800 and \$1,200 respectively. About 70% of the tax payers indicated they would either save a portion of their refund or use a portion to pay off their debts. This is positive indication that low income tax payers are beginning to appreciate the importance of saving and money management.

2. Brief description of the target audience

The target audiences were start-up entrepreneurs, existing business owners, low-income households, leadership from civic and social community organizations and leadership from faith-based organizations.

3. How was eXtension used?

eXtension was used to identify materials and resources as well as best practices indicated by other extension programs in related activities.

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	2000	3000	560	1000

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Participants will be trained in leadership skills development, business planning and management, and how to access loans and other resources.

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Seventy five will acquire business and leadership development skills. Thirty five will develop business plans, and 15 will have business loans approved.

Outcome #1

1. Outcome Measures

Seventy five will acquire business and leadership development skills. Thirty five will develop business plans, and 15 will have business loans approved.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Most low income households in the Black Belt communities are faced with financial management issues such as poor credit, lack of savings, and poor management of household resources. Many fall victim to predatory lending practices and are drawn into a never ending cycle of debt.

What has been done

TUCEP worked through a collaborative effort with the local USDA Rural Development office, to provide local families and individuals an eight (8) week educational training program in the areas of home management, household budgeting, dwelling maintenance, credit and debt management, long and short term goal setting skills, and credit repair and maintenance.

Results

As a result of the eight (8) week educational training, twenty-three (23) families were assisted with FEMA disaster assistance. Ten (10) families and individuals were able to establish saving plans and financial management plans, tracking and debt management into their daily activities. Three (3) families were able to qualify for a new structure or home through the local USDA-Rural Development office in the amount of \$125,000 per individual or family for a total of \$375,000. Three (3) families and individuals received assistance in the amount of \$20,000 plus \$7,500 were provided to all 3 families/individuals in grant funds.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

Program activities were affected by factors such as weather conditions, economy appropriation changes and competing programmatic challenges.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Teachers responding to the communication and self-esteem program assessment indicated that, more than 90% of students increased their knowledge in each area of the communication, and 85% increased their knowledge in each area of self esteem, while 72% increased their skills level in both areas.

Ten (10) families and individuals were able to establish saving plans and financial management plans, tracking and debt management into their daily activities. Three (3) families were able to qualify for a new structure or home through the local USDA-Rural Development office in the amount of \$125,000 per individual or family for a total of \$375,000. Three (3) families and individuals received assistance in the amount of \$20,000 plus \$7,500 were provided to all 3 families/individuals in grant funds.

During the 2011 tax filing season, 86 households and individuals who used TUCEP's free tax assistance site, received about \$125,000 in income tax refunds and credits with an average of about \$1,400 per family. Of this amount, a total of about \$42,000 was received in earned income tax credits by 26 families boosting their refunds by an average of \$1,600. An additional 18 tax payers qualified for the child tax credit, and 12 tax payers qualified for educational credit with averages of \$800 and \$1,200 respectively. About 70% of the tax payers indicated they would either save a portion of their refund or use a portion to pay off their debts. This is positive indication that low income tax payers are beginning to appreciate the importance of saving and money management.

Key Items of Evaluation

TUCEP has continued to strengthen its efforts in providing small business development and technical assistance programs as a way of promoting community economic development. As much as housing assistance, personal finance management, and job skills development remain key aspects of this program area, additional effort is being geared towards organizational finance and record keeping in order to assist community

based organizations to improve their financial record keeping practices to be able to attract outside funding and expand the services that they offer to the community. Our resource staff has designed and implemented an organizational finance course that follows a step-by-step approach to understanding organizational finance and cash flow systems. Participating organizations that have followed the recommended practices, have reported financial savings for their organization, and have become eligible recipients of grants based on the knowledge and skills provided by this training.

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Integrated Natural Resources, Renewable Energy, and Climate Change

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
104	Protect Soil from Harmful Effects of Natural Elements		10%		
111	Conservation and Efficient Use of Water		10%		
112	Watershed Protection and Management		10%		
123	Management and Sustainability of Forest Resources		15%		
125	Agroforestry		10%		
131	Alternative Uses of Land		10%		
132	Weather and Climate		15%		
133	Pollution Prevention and Mitigation		10%		
141	Air Resource Protection and Management		10%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	2.0	0.0	0.0
Actual Paid Professional	0.0	1.7	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	107041	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	99784	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	9317	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The program activities involved the Annual Forestry Camps, Annual Water Festival and Water Quality education program which also involved private well testing/wellhead protection, small acreage water resource management, and environmental protection. Other activities included workshops on farm eco-systems management for small-scale producers, home energy education and energy audits and climate change.

Extension agents in conjunction with the NRCS and Alabama Forestry Commission were able to assist landowners and hunting groups with information relative to improving and enhancing wildlife habitat through educational one-on-one visit to assist with information on the following: wildlife management, food plot information and prescribe burns, soil testing, soil preparation and seed selection food plots. Landowners and hunting groups received timely information and recommendations through one-on-one visits and group visits in the following: soil testing, location of wildlife and plots, soil preparation and seed selection for food plots. There was a noticeable improvement in wildlife habitation as a result of implementing these suggestions. Thirty-four percent of clients that requested information and was assisted in one-on-one visit indicated an increase in monetary value of overall hunting leases

A Water Quality Educational Meeting was held in the Wilcox County area to inform landowners and homeowners of the importance of water quality. There were approximately thirty people in attendance at the half-day meeting. Those in attendance received needed educational information on Watershed and Our Waters, Water Pollution in Rural Watersheds, Sources and Effects of Physical, Chemical and Biological Contaminants, Water Testing, Monitoring Resources and Action, Possible Cost Share Programs to Enhance Water Quality and a group style discussion on Rural Water Quality Concerns.

TUCEP also provided youth and adults in the Lowndes and Wilcox County area with educational programs on land use planning and natural resource management to help increase their knowledge and awareness in land issues. Some of the program components included:

Managing Nuisance Wildlife Control; where one-on-one visits were made to ten landowners to provide information on how to control Wild Hogs, Beavers, and Coyotes. Other aspects of the program were Tree Identification, Youth educational meeting, and land use planning meetings.

TUCEP also partnered with Alabama Forestry Commission, the Alabama Cooperative Extension System and Federation of Southern Cooperatives to hold the annual Alabama Forestry Camp targeting underserved high school students. The week-long camp presents students with various educational activities intended to increase their knowledge and skills in the areas of Tree Identification, Wildlife Management, and Forest Measurements. Students also participate in various group competitions, forestry tours, and industry tours which expose them to career opportunities in the field as well as team work and increased self confidence. The time spent with forestry professionals as well as vocational and four year college representatives always serve as a strong motivation for these youth to pursue college degrees,

and to make better career choices.

2. Brief description of the target audience

The target audience consist of youths and adults, rural and urban agriculture clientele with needs in the areas of natural resources, water quality and environmental management, including environmental health and justice issues, as well as issues in climate change and sustainable energy.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	1000	1500	500	520

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Underserved Black Belt area grade school students will be exposed to specific age appropriate educational activities designed to reinforce current classroom instructional curriculums. While targeting the youth, parents, volunteers and community leaders will also be provided necessary instructions in responsible environmental stewardship practices and principles, including information on climate change and sustainable energy.

2011 Tuskegee University Extension Annual Report of Accomplishments and Results

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Youth participants will acquire knowledge, skills and awareness regarding well head protection, point/non-point source pollution, environmental stewardship, management of natural resources and water conservation, as well as climate change and sustainable energy. Adult participants will incorporate skills/knowledge and change behavior related to: pollution prevention, management of water resources, litter disposal and waste management, conservation and recycling of natural resources and safe and effective use of fertilizers and pesticides. Awareness will be acquired in climate change and sustainable energy.

Outcome #1

1. Outcome Measures

Youth participants will acquire knowledge, skills and awareness regarding well head protection, point/non-point source pollution, environmental stewardship, management of natural resources and water conservation, as well as climate change and sustainable energy. Adult participants will incorporate skills/knowledge and change behavior related to: pollution prevention, management of water resources, litter disposal and waste management, conservation and recycling of natural resources and safe and effective use of fertilizers and pesticides. Awareness will be acquired in climate change and sustainable energy.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

More than 50% of rural residents in Alabama use groundwater as their main domestic water source. Private Wells in rural areas are not regulated by the Safe Drinking Water Act (SDWA); hence rising levels of contaminants often go undetected. Tuskegee University initiated a water testing program to serve the rural residents in Alabama Black Belt Counties (BBCs).

What has been done

A series of workshops were conducted as well as dissemination of educational resources in six BBCs, including Lowndes, Wilcox, Sumter, Marengo, Dallas and Perry. A broad range of topics were covered including watersheds principles, sources and effects of water contaminants, water testing, septic systems, and best management practices.

Results

Participatory approaches as well as pre-and post-tests were used to assess short- and medium-term outcomes. The pre-test/post-test results were used to evaluate the awareness level, knowledge gain, and change in attitude and behavior. Awareness level increased from 35% to 77%; knowledge gain increased from 57% to 71%; change in attitude towards water quality enhancement increased from 37% to 55%; while change in behavior towards community participation to protect water quality increased from 50% to 78%, after the workshop. The conclusion is that there are positive outcomes of the Tuskegee University water quality educational program in Alabama BBCs.

4. Associated Knowledge Areas

KA Code	Knowledge Area
104	Protect Soil from Harmful Effects of Natural Elements
111	Conservation and Efficient Use of Water
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
125	Agroforestry
131	Alternative Uses of Land
132	Weather and Climate
133	Pollution Prevention and Mitigation
141	Air Resource Protection and Management

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

Activities scheduled for this program area were affected by extreme weather conditions causing some field activities to be cancelled and competing programmatic challenges which led to lower participation rates for some workshops.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Over 400 students from various Black Belt counties participated in the annual Forestry camp, land use planning workshop for youth, and other environmental education programs. Seventy-five percent of these students show improved understanding and increased knowledge in environmental issues. Forty-five percent also indicated an interest in pursuing future careers in forestry and related areas. Also, 80% of farmers who participated in a Silvopasture and grazing management workshop indicated an improved awareness as well as significant increase in knowledge on Silvopasture and related practices. Participants in the water quality education program also showed an increase in awareness level from 35% to 77%; increase in knowledge gain from 57% to 71%; change in attitude towards water quality enhancement increased from 37% to 55%; while change in behavior towards community participation to protect water quality increased from 50% to 78%, after the workshop.

Key Items of Evaluation

As much as efforts in forestry and other natural resources management education continues, more emphasis is being laid on renewable energy and energy audit education, water quality education and environmental protection for youth and adults.

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Childhood Obesity, Nutrition, and Healthy Lifestyles

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
703	Nutrition Education and Behavior		20%		
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources		20%		
722	Zoonotic Diseases and Parasites Affecting Humans		20%		
723	Hazards to Human Health and Safety		20%		
724	Healthy Lifestyle		20%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	4.0	0.0	0.0
Actual Paid Professional	0.0	4.0	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	251861	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	234786	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	329136	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

TUCEP established the Summer Health and Fitness Academy (SHAFA), a five-day camp that targets youth in grades 5-9 with a curriculum of hands-on learning activities on healthy diets and lifestyles. The program was expanded to educate kids on career choices, money management, basic social etiquettes, and the importance of physical exercise through dance or other sporting activities. Ninety-eight (98) kids from seven black-belt counties were registered for the 2011 camp (Macon 10, Bullock 19, Lowndes and Wilcox 29, Green and Hale 26, and Sumter 14). Participants gained knowledge in the areas of nutritious diets, to include fruits and vegetables, whole grain, calcium and the importance of reducing fat and added sugar intakes. The youth participants were able to develop and practice strategies for making healthful food choices in real-life settings and to enhance daily physical activity and understand the importance of continued healthy physical activity.

TUCEP recognizes the continuing need for programs to increase understanding and knowledge among citizens on the prevalence and prevention of cancer, heart disease, high blood pressure, and high cholesterol. The Fourth Annual Nutrition, Health and Physical Activity (NHPAF) Fair themed "Eat Smart, Be Active, Live Well" was an effort to promote awareness and education in the prevention of chronic diseases. The event included nutrition screenings, food preparation demonstrations, availability of Farmer's market fresh fruit and vegetable produce, fun types of physical activity, free nutritious food and clinical health screenings. Clinical screenings covered blood pressure, blood glucose, cholesterol, body fat percentages, hydration level, weight, vision, foot health, hearing, waist and hip measurements and breast self exams.

TUCEP EFNEP also reached 535 adults and 750 youth in 2011. Data reported through diet recalls show that EFNEP graduates eat more closely to My Pyramid recommendations. More than 90 percent of the adults have improved their diets, including consuming an extra cup of fruit and vegetables, improving their nutrition practices, better managing food resources, and food safety practices.

TUCEP provided two hundred and ninety eight seniors (298) from Greene and Hale County with USDA recommended nutritional educational information and demonstration of training in fitness, sports, and social involvement at the 2011 Senior Olympics event. The participants gained knowledge in motivation, movement and how to maintain physical fitness along with healthy nutrition and eating behaviors. Similar events were held for seniors in Lowndes, Macon, and Sumter Counties to help seniors adapt and maintain a moderately active lifestyle by engaging in age appropriate physical activity which can provide significant health benefits.

"Skegee Fit" was also initiated as a wellness education initiative that uses social media to target Cooperative Extension Cooperative personnel, other Tuskegee University faculty and staff, as well as close family members and friends. A closed Facebook group was developed under the Extension main page and has 42 members, including six county agents and other field staff in our service area. An additional email list of 52 has elected to participate in the initiative outside of the Facebook medium. About 100 individuals have thus received health and fitness challenges and tips as posted weekly online. Bi-monthly fact sheets have been posted as well on nutrition, fitness, and wellness. A "Line Dance Kick-off to Fitness and Healthy Living" was held on campus where approximately forty-five participants actively engaged in energetic and fun dances, while simultaneously being provided relevant science-based information

2. Brief description of the target audience

The target audience will consist of under-served and under-represented youth and adult populations in the twelve Black Belt counties of Alabama.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	1200	2300	970	3400

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Measures will include: Participants will incorporate skills and change behaviors; the number of people who follow exercise guidelines on most days 60-minutes, 5 days a week; the percent of participants using food guide pyramids and dietary guidelines and the percent of participants reporting improved quality of life will increase.

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Participants will incorporate skills and change behavior; the number of people following guidelines on most 60-minutes, 5 days a week will increase; the percent of participants using food guide pyramids and dietary guidelines will increase and the percent of participants reporting improved quality of life will increase.

Outcome #1

1. Outcome Measures

Participants will incorporate skills and change behavior; the number of people following guidelines on most 60-minutes, 5 days a week will increase; the percent of participants using food guide pyramids and dietary guidelines will increase and the percent of participants reporting improved quality of life will increase.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Obesity, poor nutrition, and limited physical activity are significant health concerns particularly for minority and low-income populations. TUCEP is involved in alleviating this problem through the EFNEP partnership, Head Start/Healthy Start By Kindergarten, and the Summer Health and Fitness Academy (SHAFA) to target low-income families with young children and low-income youth.

What has been done

Through a series of assessments (of behavior, of the environment, and then of specific local factors), an ecological approach helps to diagnose the underlying causes of excessive weight gain in children. An intervention based on this approach is more likely to be effective because it focuses on changes needed at the local level to support healthy eating and active living.

Results

Head Start Staff and Center food preparers cooperate to offer preschoolers, their families, and their communities? opportunities for healthier eating, appropriate portion sizes, more physical activity, and community integration of gardening activities. SHAFA participants also gained knowledge in the areas of nutritious diets, to include fruits and vegetables, whole grain, calcium and the importance of reducing fat and added sugar intakes and were able to develop and practice strategies for making healthful food choices.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior

711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
722	Zoonotic Diseases and Parasites Affecting Humans
723	Hazards to Human Health and Safety
724	Healthy Lifestyle

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

Program outcomes were affected by economic conditions as many parents who indicated they could not afford the registration fees. Participation rates were thus significantly lower compared to the previous year.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

TUCEP EFNEP reached 535 adults and 750 youth in 2011. Data reported through diet recalls show that EFNEP graduates eat more closely to My Pyramid recommendations. More than 90 percent of the adults have improved their diets, including consuming an extra cup of fruit and vegetables, improving their nutrition practices, better managing food resources, and food safety practices. Head Start Staff and Center food preparers now offer preschoolers, their families, and their communities' opportunities for healthier eating, appropriate portion sizes, more physical activity, and community integration of gardening activities. The program has successfully implemented technology that has also allowed for teachers to reinforce preschooler's nutrition concepts in the classroom, develop critical skills in coordination, and use of computer technology. Ninety-eight (98) SHAFAs camp participants also gained knowledge in the areas of nutritious diets, to include fruits and vegetables, whole grain, calcium and the importance of reducing fat and added sugar intakes.

Key Items of Evaluation

Senior Olympics is evolving into a yearlong approach to promote increased physical activity and increased maintenance of healthy lifestyles for our Senior Citizens. Yearlong activities include home gardening, creating value added products in the home environment, fitness for the weather, tips, and field trips to area attractions. Over 500 Seniors representing ten of Alabama's Black Belt and adjacent counties have received valuable instruction from topics presented during the Senior Olympics events. Preliminary feedback received from the "Skegee fit" kick-off event also indicated an increasing number of "likes" from Facebook participants, and a clear sign and evidence that health information is acting as a catalyst toward healthier lifestyle pursuit. County offices have been calling for

inclusion of Skegee Fit in their regularly scheduled workshops, and campus-based personnel have demanded for weekly guided sessions on aerobics and line dances

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Food Safety

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
703	Nutrition Education and Behavior		25%		
722	Zoonotic Diseases and Parasites Affecting Humans		25%		
723	Hazards to Human Health and Safety		25%		
724	Healthy Lifestyle		25%		
	Total		100%		

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	4.0	0.0	0.0
Actual Paid Professional	0.0	1.5	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	94448	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	88045	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	6760	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Methods such as training workshops, on-farm demonstrations, and direct pest management assistance were therefore employed to address the training needs of farmers and county extension agents. Food safety workshops were also organized for different clusters of farmers, especially those involved in the Wal-Mart initiative to buy locally produced vegetables and fruits. Post-tests revealed a significant improvement in knowledge on IPM and food safety practices. A number of participating farms and one produce-processing facility in AL were GAP-certified and currently supply Wal-Mart with fresh peas, watermelons, and collard greens. Evaluation of a range of organic/reduced risk insecticides for the management of cowpea insect pests has also started. Food safety education was also introduced in the classroom setting through the summer youth college, SHAFA, EFNEP and CYFAR programs.

2. Brief description of the target audience

This program primarily targets small and limited resource producers in the 12 Blacc Belt Counties and neighboring towns as well as youth and adults for low-income and at-risk families in the region.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	200	300	283	400

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- This ETP will follow Outcome Evaluation Methods by Green and Kreuter, 1991. This type of evaluation will provide data concerning short-term effects of the program, including increased awareness and knowledge, expressed intentions to make recommended changes, and responses to public service announcements. The measures can be self reported (interviews with the intended audience) evident changes in the number of people eing screened for a cardiovascular (CVD) risk factor at a localhealth fair or a comparative study (comparing CVD knowledge of participating audience and of similar group that did not receive the intervention.

Year	Actual
2011	0

Output #2

Output Measure

- Producers will increase knowledge and awareness and also follow recommended food safety and HACCP control measures. Youth and adults will also show improved food safety practices to include freezing and thawing food and also cooking food at recommended temperatures.

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	The outcome is to decrease the risk of degenerative diseases, improve the quality of life, maintain reasonable weight by monitoring caloric consumption, control disease through diet, exercise, medication, and stress management.
2	The outcomes of this program will involve following HACCP measures at the producer level to provide safe and healthy foods for consumers. It will also include reduced level of chemicals and pesticides in processed foods as well as increased awareness and knowledge on food safety measures among youth and adults.

Outcome #1

1. Outcome Measures

The outcome is to decrease the risk of degenerative diseases, improve the quality of life, maintain reasonable weight by monitoring caloric consumption, control disease through diet, exercise, medication, and stress management.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Majority of limited resource farmers in Alabama grow vegetables and yet surveys indicated that an unacceptably high percentage of these farmers were poorly informed about integrated pest management (IPM) concepts, techniques and practices as well as food safety measures.

What has been done

Methods such as training workshops, on-farm demonstrations, and direct pest management assistance following a hands-on approach was employed to discuss topics such as vegetable production systems, insect-identification, diseases of vegetables, pesticide use and safety, trap-cropping, and pheromone trap-based scouting systems.

Results

Participants were awarded continuing education credits and given the opportunity to take the requisite tests to obtain/renew restricted use pesticide permits. Post-tests revealed a significant level of improvement in knowledge on IPM and food safety concepts. A number of participating farms and one produce-processing facility in AL were GAP-certified and currently supply Wal-Mart with fresh peas, watermelons, and collard greens.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
723	Hazards to Human Health and Safety
724	Healthy Lifestyle

Outcome #2

1. Outcome Measures

The outcomes of this program will involve following HACCP measures at the producer level to provide safe and healthy foods for consumers. It will also include reduced level of chemicals and pesticides in processed foods as well as increased awareness and knowledge on food safety measures among youth and adults.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
723	Hazards to Human Health and Safety
724	Healthy Lifestyle

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Government Regulations
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

Program outcomes were affected by weather conditions and economic challenges.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Initial program evaluations show significantly increased levels of awareness and knowledge in food safety concepts and practices particularly for vegetable producers who participated in the food safety workshops and farm demonstrations. A number of participating farms and one produce-processing facility in AL were GAP-certified and currently supply Wal-Mart with fresh peas, watermelons, and collard greens.

Key Items of Evaluation

Food safety education is being introduced in the classroom and adult education settings through the summer youth college, SHAFSA, EFNEP, and CYFAR programs. Youth and adult participants will be presented with educational materials on principles of freezing, thawing, and cooking food correctly as well as reading food labels.