

**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%		
	<b>Total</b>		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
<b>Actual</b>	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

<b>Actual</b>	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.

<b>Year</b>	<b>Actual</b>
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**

<b>Year</b>	<b>Actual</b>
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**

<b>KA Code</b>	<b>Knowledge Area</b>
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.