

**V(A). Planned Program (Summary)**

**Program # 19**

**1. Name of the Planned Program**

Agronomic Crops

- Reporting on this Program

Reason for not reporting

As a result of refinements to the ACES program planning process, as noted in the 2013 Plan of Work, this program has been redefined consistent with the new FY2013 Planned Program list. The content of this program is now included in one of the FY2013 Planned Programs. Accomplishments for this program will be reported under the appropriate FY2013 Planned Program.

**V(B). Program Knowledge Area(s)**

- 1. Program Knowledge Areas and Percentage

**V(C). Planned Program (Inputs)**

**1. Actual amount of FTE/SYs expended this Program**

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	20.0	0.0	0.0	0.0
Actual Paid Professional	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
Actual Volunteer	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 Matching	1890 Matching	1862 Matching	1890 Matching
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 All Other	1890 All Other	1862 All Other	1890 All Other
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

**V(D). Planned Program (Activity)**

**1. Brief description of the Activity**

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#### 2012 Agronomic Crops State Program Initiatives 405 (SPI)

**Soil Quality Improvement.** Program will help improve soil quality for sustainable crop production and environmental improvement. Soil Quality Index for soil testing (long term); more info on Soil Test Report, and improved soil quality for sustainable crop production and environmental improvement will be attained. **Geospatial Education:** Geospatial technologies as a resource to Extension and University personnel, Alabama producers, and the general public continue to grow. Program will educate extension personnel in the use of geospatial technologies including global positioning system (GPS) hardware, geographic information systems (GIS), and remote sensing.

**Sustainable Energy:** This project is designed to aid in increasing the knowledge level of public and private interests in the area of energy feed stocks. the knowledge level of the general citizenry will be enhanced in order to make informed decisions concerning personal and policy-making choices.

4. **Retirement Planning:** This project will better prepare our agronomic crop producers for retirement. Series of retirement planning meetings will be held in an effort to increase the knowledge level of retirement options and strategies. This will be conducted in conjunction with the ACES Farm Analysis Team.

5. **Farm Succession and Sustainability:** While the previous project addresses retirement and estate planning, this project prepares younger farmers to take on leadership and management roles through a series of workshops and one-on-one sessions by the ACES Farm Analysis Team.

6. **Reduction of Climate Risk in Agronomic Crops:** Develop and implement educational programs to help Extension personnel, youth, and producers understand basic principles and/or drivers of climate variability as well as its inter-relationship with agriculture, natural, resources, and society. Project will be reported under a separate section in the NIFA POW and Report.

7. **Rapid Agronomic Response:** Project includes reactionary rapid response activities to provide response and recommendations during times of sudden duress. Objective is to increase overall farm productivity and profitability across the state accomplished through educational programs, field demonstrations, in-field visits, and various levels of individual responses.

8. **Consumer Food Workshops:** Workshops with Animal Science and Forages Team to increase consumers' knowledge of how food is produced and their understanding of terms like organic, natural, conventional, and other processes. Field days and educational efforts will also be conducted for the general public.

9. **Row Crop Insect and Disease Management Project:** Increase the adoption or awareness of: soybean IPM recommendations, new insect pests, increase use of "Peanut Rx" and aflatoxin risk index, and avoidance of aflatoxin.

10. **Herbicide Resistance Management Program:** Project is designed to educate farmers about herbicide resistant weeds in row crops and act as early detection system to limit their spread. Proper herbicide use, sprayer calibration, and crop rotations will be the focus.

11. **Precision Ag Program:** Increase the adoption of geospatial technologies and site-specific management strategies to improve producer profitability and environmental stewardship.

12. **Asian Soybean Rust Project:** Season-long monitoring program that provides an early warning system for soybean growers in Alabama and the Southeast. Team members will monitor soybean sentinel plots located throughout the state. When soybean rust is detected in a sentinel plot, soybean growers will be alerted of its presence via the Auburn University Soybean Rust Hotline and through the USDA-Soybean Rust Website.

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**2. Brief description of the target audience**

2012 Agronomic Crops Program Priority Team activities will include the following groups of stakeholders: 1) row crop producers and their representative groups that include, but are not limited to, the Alabama Cotton Commission, Alabama Peanut Commission, Alabama Soybean Producers, and the Alabama Wheat and Feed Grains Committee; 2) row crop advisors including ACES agents and specialists, public and private crop advisors; 3) governmental agency personnel including USDA, NRCS, and federal crop insurance and risk managers, 4) public policy makers requesting information that impacts Alabama's agricultural community, and 5) private citizens impacted by policies and practices used for the production of food, fuel, and fiber. All educational programming efforts will target audiences without exclusion or discrimination, as specifically defined by ACES policy guidelines.

**3. How was eXtension used?**

{No Data Entered}

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Actual</b>	0	0	0	0

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

**Patent Applications Submitted**

Year: 2012

Actual: {No Data Entered}

**Patents listed**

{No Data Entered}

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2012	Extension	Research	Total
<b>Actual</b>	3	3	0

**V(F). State Defined Outputs**

## Output Target

### Output #1

#### Output Measure

- Several outputs will be generated by this project including distribution of state and region-wide information on the occurrence of Asian soybean rust, insect pest management, field crop diseases, and potential herbicide resistance in crops around the state. Alternative control measures will be developed to reduce the impact of the problem pests on the current crop. Recommendations for a management plan for agronomic row crops will be developed. Several methods of notification (e-mail, Timely Information Sheets, articles in the popular press, etc.) will be used to disseminate information. Meetings, conferences, and trainings throughout the year will include resistant weed management, geospatial and precision agriculture information, soil fertility and fertilizer management, and in-season tours and field days will be used to provide local information on the problem. Other methods such as printed articles and web-site information will be distributed through e-mail and website publications to inform the farming community. Specific outputs will include: 1) In-service training meetings for target audiences and on-farm visits for cotton, soybean, Asian soybean rust, peanuts, field corn, and small grains production; precision agriculture techniques including geospatial technologies, herbicide resistance as well as integrated management of insect pests; 2) Response via phone, e-mail, internet, and on-farm visits at the request of the producer to diagnose and deliver agronomic crop production recommendations; 3) Information posted on the agronomic crops and the national Asian soybean rust website (i.e., [www.alabamacrops.com](http://www.alabamacrops.com)) and through the Auburn University Soybean Rust telephone hotline; 4) Publications like the 2010 IPM Guides and demonstration results reports for use by clientele groups; 5) Hard copy publications for use in production meetings and trainings where deemed appropriate; 5) Establishment of disaster responses when a natural environmental disaster occurs.

Year	Actual
2012	0

**V(G). State Defined Outcomes**

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	The ACES Agronomic Crops team is required to provide annual success stories detailing program activities that best demonstrated the impacts of their work. Success stories contain the following elements: 1) why the program was conducted or the situation/problem that was addressed; 2) specifically what and how it was done; 3) the time period involved; 4) the specific locations involved; 5) who was impacted; 6) how many people were served; and 7) the final impacts.
2	Short-term outcomes: The most immediate outcomes are: 1) to document the direct positive financial impact that our agents and specialists have on our clientele and their farming operations. For example, advice that leads a producer to consider a higher-yielding crop variety, use of available animal manures for fertilizer, or increased efficiency from prescription site-specific management of agricultural chemicals, seeding or fertilizers can result in increased income totaling millions of dollars across the state; and 2) to provide research information and recommendations that allow producers to control pests only when needed and save them money on unnecessary treatments or save their crop from destruction. In addition, directing producers to sustainable IPM for weeds, insects, and diseases can have a major positive impact on lessening the costs associated with herbicide resistant weeds, insecticide resistant insect pests, and devastating crop diseases such as Asian soybean rust.
3	Long-term outcomes: The long-term outcomes of the Agronomic Crops Extension program are: 1) to ensure the long-term economic viability of Alabama row crop producers; 2) to ensure that there is a stable, domestic source of food and fiber for the citizens of Alabama and their future generations; 3) to ensure that there will continue to be row crop farms operating in the state for many generations to come; 4) to ensure that the recommendations and resulting decisions that are made by the row crop industry in the state is environmentally and economically sustainable; 5) to ensure that the activities and outputs generated by the practices investigated and recommended by this team will benefit and serve to conserve natural resources for all agricultural and general citizen audiences

## **Outcome #1**

### **1. Outcome Measures**

The ACES Agronomic Crops team is required to provide annual success stories detailing program activities that best demonstrated the impacts of their work. Success stories contain the following elements: 1) why the program was conducted or the situation/problem that was addressed; 2) specifically what and how it was done; 3) the time period involved; 4) the specific locations involved; 5) who was impacted; 6) how many people were served; and 7) the final impacts.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

Change in Knowledge Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2012	0

### **3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**  
{No Data Entered}

**What has been done**  
{No Data Entered}

**Results**  
{No Data Entered}

### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
{No Data}	null

## **Outcome #2**

### **1. Outcome Measures**

Short-term outcomes: The most immediate outcomes are: 1) to document the direct positive financial impact that our agents and specialists have on our clientele and their farming operations. For example, advice that leads a producer to consider a higher-yielding crop variety, use of available animal manures for fertilizer, or increased efficiency from prescription site-specific management of agricultural chemicals, seeding or fertilizers can result in increased income totaling millions of dollars across the state; and 2) to provide research information and recommendations that allow producers to control pests only when needed and save them money on unnecessary treatments or save their crop from destruction. In addition, directing producers to sustainable IPM for weeds, insects, and diseases can have a major positive impact on lessening the costs associated with herbicide resistant weeds, insecticide resistant insect pests, and devastating crop diseases such as Asian soybean rust.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

Change in Knowledge Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2012	0

### **3c. Qualitative Outcome or Impact Statement**

#### **Issue (Who cares and Why)**

{No Data Entered}

#### **What has been done**

{No Data Entered}

#### **Results**

{No Data Entered}

### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
{No Data}	null

### **Outcome #3**

#### **1. Outcome Measures**

Long-term outcomes: The long-term outcomes of the Agronomic Crops Extension program are: 1) to ensure the long-term economic viability of Alabama row crop producers; 2) to ensure that there is a stable, domestic source of food and fiber for the citizens of Alabama and their future generations; 3) to ensure that there will continue to be row crop farms operating in the state for many generations to come; 4) to ensure that the recommendations and resulting decisions that are made by the row crop industry in the state is environmentally and economically sustainable; 5) to ensure that the activities and outputs generated by the practices investigated and recommended by this team will benefit and serve to conserve natural resources for all agricultural and general citizen audiences

#### **2. Associated Institution Types**

- 1862 Extension
- 1890 Extension

#### **3a. Outcome Type:**

Change in Knowledge Outcome Measure

#### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2012	0

#### **3c. Qualitative Outcome or Impact Statement**

##### **Issue (Who cares and Why)**

{No Data Entered}

##### **What has been done**

{No Data Entered}

##### **Results**

{No Data Entered}

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
{No Data}	null

### **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**

{No Data Entered}

### **V(I). Planned Program (Evaluation Studies)**

#### **Evaluation Results**

{No Data Entered}

#### **Key Items of Evaluation**

{No Data Entered}