

2011 Alabama A&M University and Auburn University Combined Extension Plan of Work

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I. Plan Overview

1. Brief Summary about Plan Of Work

THE ALABAMA COOPERATIVE EXTENSION SYSTEM FY 2011-2015 NIFA PLAN OF WORK ALABAMA A&M UNIVERSITY AUBURN UNIVERSITY

OVERVIEW STATEMENT

Alabama A&M University and Auburn University continue to provide Extension educational outreach as a unified Cooperative Extension System. The Alabama A&M University (AAMU)-funded portion of the System focuses its resources on serving urban and nontraditional clientele; the Auburn University (AU)-funded portion of the System focuses its resources on serving rural and traditional clientele.

Alabama is unique in that three institutions are host to Cooperative Extension entities. The Alabama Cooperative Extension System and the Tuskegee University 1890 Cooperative Extension Program share a positive and productive administrative and programmatic relationship. Utilization of joint resource allocation (Extension and Research) is evident in, for example, small ruminant programming and in-service training, with careful scrutiny designed to prevent duplication of effort.

To address the effects of various internal and external factors, most notably the loss of revenue due to continued proration, and yet continue the tradition of the provision of educational programs of excellence to Alabama residents a major restructuring was necessitated. Fundamental to this restructuring effort was a shift from a 'county based' programming focus to a 'regional' orientation—that is, a transition from single-county based agents to teams of educators serving multi-county regions. However, with fewer employees working across larger multi-county geographic regions, the methodology for the provision of educational services to the public has, of necessity, also changed. The primary emphasis is now on regional educational programs and group activities that allow the System to provide educational services to a maximum number of residents within the constraints of limited human and fiscal resources.

SYSTEM PROGRAMS: PLANNING FOR OUTCOMES AND IMPACTS

Alabama Cooperative Extension System educational efforts are aligned along six umbrella areas of emphasis (base programs). These programs are: Agriculture, Forestry and Natural Resources, Urban Affairs and New Nontraditional Programs, Family and Individual Well Being, Community and Economic Development, and 4H and Youth Development. A brief overview of each area of emphasis follows below.

Agriculture: Today there are roughly 45,000 farms in Alabama. Extension helps Alabama's farmers create and maintain healthy, profitable, and environmentally sustainable operations. Regional Research and Extension Centers in the Tennessee Valley, the Black Belt, the Wiregrass, the Gulf Coast, Sand Mountain, and Chilton areas address the specific needs of each region. Home gardening and urban horticulture are also major Extension priorities.

Forestry and Natural Resources: Alabama is rich in natural resources. Almost two-thirds of the state is covered in forests, and Alabama water resources are the envy of the nation. Forestry, fisheries, and wildlife bring billions of dollars into the state's economy and greatly enhance quality of life. Extension is committed to helping people safeguard and develop these resources for recreational, environmental and business enterprises.

Urban Affairs and New Nontraditional Programs: Two-thirds of Alabamians live in urban areas, and the Extension mission of taking the university to the people includes urban as well as rural citizens. Programs include the urban family network, workforce preparation, domestic violence prevention, teen leadership, health issues, and nontraditional agriculture. Eight Urban Extension Centers and two satellite offices help bring Extension education to the state's city dwellers.

Family and Individual Well-Being: One of Extension's key roles is helping families and individuals improve their quality of

life through food safety, proper nutrition, parenting, family financial management, and community health. Flagship programs include the Expanded Food and Nutrition Education Program (EFNEP), begun in Alabama more than 30 years ago and since adopted by all other states, and the federally mandated Nutrition Education Program (NEP), which focuses on educating food stamp recipients.

Community and Economic Development: Extension plays a leading role in revitalizing Alabama communities, especially where declining farm populations have resulted in such problems as dwindling revenue bases and youth flight. Extension programs focus on economic and leadership development, environmental quality and community health, and public policy and strategic planning.

4-H and Youth Development: Alabama's 4-H program offers young people opportunities to develop their interests and expand their awareness of our world. Extension educators, volunteers, and the young people themselves work together to provide a wide range of hands-on, minds-on experiences that develop each individual's four H's—head, heart, hands, and health.

The real impacts and outcomes of System programming are generated via a subset of the above mentioned areas of emphasis. The Alabama Cooperative Extension System 'Priority Program Areas' and related 'Extension Team Projects' serve as the central programming focus. Each of the Priority Program Areas generates a subset of Extension Team Projects. The Extension Team Projects (ETPs) serve as the primary program implementation tools for the System. Alabama Cooperative Extension System Specialists organize their educational programming in ETPs associated with one of the Priority Program Areas. System Agents are required to allocate at least one-half of their planned program time to Extension Team Projects; the remainder of Agent time is devoted to one or more of the Priority Program Areas.

NIFA PRIORITIES AND SYSTEM PLANNED PROGRAMS

The Priority Program Areas serve as the Planned Programs for the NIFA Plan of Work. The Alabama Cooperative Extension System, fully cognizant of the necessity to address the new NIFA Priorities, has modified the prior Planned Program list to include each of the NIFA Priorities. Additional modifications, designed to more comprehensively address the NIFA Priorities, will be evident in the FY2012-2016 Plan of Work (and Annual Report). For the FY2011-2015 Plan of Work the Alabama Cooperative Extension System has identified the following Priority Program Areas:

- 1. Agronomic Crops**
- 2. Global Food Security and Hunger (NIFA PRIORITY)**
- 3. Aquaculture and Recreational Pond Management**
- 4. Family and Child Development**
- 5. Community Resource Development**
- 6. Consumer Science and Personal Financial Management**
- 7. Farm Management and Agricultural Enterprise Analysis**
- 8. Food Safety (NIFA PRIORITY)**
- 9. Forestry, Wildlife and Natural Resource Management**
- 10. Commercial Horticulture**
- 11. Home Grounds, Gardens and Home Pests**
- 12. Childhood Obesity (NIFA PRIORITY)**
- 13. 4-H and Youth Development**
- 14. Poultry**
- 15. Climate Change (NIFA PRIORITY)**

16. Sustainable Energy (NIFA PRIORITY)

As required, the above list of Planned Programs for the Alabama Cooperative Extension System FY 2011-2015 Plan of Work fully accounts for the expenditure of all Formula Funds and the required matching funds. Full details of each Planned Programs are provided in the respective Planned Program sections of the Plan of Work software.

Estimated Number of Professional FTEs/SYs total in the State.

Year	Extension		Research	
	1862	1890	1862	1890
2011	292.6	30.0	0.0	0.0
2012	292.6	30.0	0.0	0.0
2013	292.6	30.0	0.0	0.0
2014	292.6	30.0	0.0	0.0
2015	292.6	30.0	0.0	0.0

II. Merit Review Process

1. The Merit Review Process that will be Employed during the 5-Year POW Cycle

- Combined External and Internal University External Non-University Panel

2. Brief Explanation

PROGRAM REVIEW PROCESS

The review process for the Alabama Cooperative Extension System's FY2011-20115 Plan of Work includes several phases, which will continue yearly for the duration of the Plan. The first phase of review is conducted by the Co-Chairs of the Priority Program Areas (PPA). Each of PPA Co-Chairs reviewed their respective programs to ensure that they accurately represented and addressed critical needs of Alabama residents. In addition, each PPA team completed a through reexamination of the Extension Team Projects (ETP) associated with each of PPAs.

A second phase of review was conducted by the Assistant Directors. Working with the PPA Co-Chairs the Assistant Directors checked each program area and related ETPs for: relevancy, ability of Extension to adequately address the issues, duplication with other Extension Team Projects, potential for / inclusion of Multistate Extension Activities / Integrated Research and Extension Activities, and the inclusion of measurable impact / outcome indicators.

The third phase of Plan of Work review was conducted by the System Administrative Team. That team (Director / 1890 Administrator/ Associate Directors, CFO, HRO) reviewed the Plan relative to:

- Consistency with System / University missions
- The inclusion of approved PPAs (and related ETPs),
- The adequacy of fiscal / human resource allocations needed for successful implementation of included programs,
- The capacity to offer educational services to a broad spectrum of Alabama residents, rural / urban, and across diverse demographic parameters,
- The degree to which the Plan adequately reflected the consideration and inclusion of stakeholder and advisory inputs.

As the fourth phase of the review process, relevant University administrators (Alabama A&M University / Auburn University) were afforded the opportunity to review and comment on the FY2007-2011 Plan of Work. Deans, Department Heads, and others were critical to the review process given that many of the System specialists are housed in the Academic Departments.

The final phase of review centers on scrutiny of the Plan of Work by the various state-wide Priority Program Area Advisory Councils. These Advisory Councils assist each Priority Program Area in the identification of critical issues and in setting specific System programming priorities. Specific roles for the Priority Program Area Advisory Councils include: 1) insure that the included programs address real needs of Alabama citizens; 2) promote the System's programmatic efforts and accomplishments to key stakeholder / clientele groups / decision makers; 3) provide guidance and assistance in obtaining statewide support for included programs; 4) identify critical issues and problems which might be best addressed by System educational outreach; and 5) expand the collaboration and networking capabilities of the System in support of existing and proposed programs.

III. Evaluation of Multis & Joint Activities

1. How will the planned programs address the critical issues of strategic importance, including those identified by the stakeholders?

The educational programs conducted by the Alabama Cooperative Extension System were not created in a vacuum. Traditionally the Alabama Cooperative Extension System has had a very comprehensive stakeholder input process. The foundation of this process has been the statewide network of sixty-seven County Extension Advisory Boards (CEABs) and the hundreds of county and state-level program advisory committees. Alabama seeks to address the following: Who will be involved? How will they be structured? What are the requirements? When will we begin? How will we report input? Extension Coordinators will lead County Extension Advisory Leader Councils which will focus on Advocacy for Extension, Volunteerism, and Community Development. Regional Extension Agents will lead Regional Extension Advisory Leader Councils which will have a programmatic focus. The Priority Program Area Team Coordinators will be responsible for getting grassroots program-related input through statewide Extension Advisory Leader Councils, commodity groups, listening sessions with stakeholders and the general public, and from reports generated by Regional Extension Agents and County Agent Coordinators. Specialists, Priority Program Area Team Coordinators, and Administrators will provide relevant information to councils, analyze input and adjust priorities / programs accordingly.

However, due to the changing environment in which the Alabama Cooperative Extension System now conducts its business and the related System restructuring and associated loss of human capital resources and static or decreasing fiscal resources it was deemed prudent that we seek to modify our advisory system to better fit our new way of doing business. The Southern Region developed SEAL-- Strengthening Extension Advisory Leaders & training has been conducted for System administrators, specialists and agents. SEAL is designed to provide curriculum to not only train Extension staff in how to better utilize their leaders, it also provides curriculum to help these leaders learn how to more effectively serve in their respective roles. The implementation of SEAL in the

The revised process will see a three tier advisory structure. The county level will be led by County Agent Coordinators; the regional advisory groups will be led by Regional Extension Agents and the statewide advisory groups will be led by Priority Program Team Coordinators.

County

County and Regional Extension Advisory Leader Councils will have ten to fifteen members from different parts of the county/region, be representative of the different socio-economic levels within the community, encompass the ethnic diversity of the area, and members will rotate off every 3 years.

In addition, the Alabama Cooperative Extension System has modified the Stakeholder input section of this template and will require that each specialist / agent complete the form each year to more precisely define their relationship with stakeholders and how such input affects the nature and composition of their programs.

2. How will the planned programs address the needs of under-served and under-represented populations of the

All planned programs contained in the Alabama Cooperative Extension System's FY2010-2014 Plan of Work are

developed within the context of educational service delivery to all residents of Alabama who may benefit from the information or service. This commitment is without regard to any personal characteristics, to include age, ethnic origin, gender, religion, sexual orientation, or geographic location. Alabama population are included, as appropriate, in the program development process. As a part of the program development process, each of the System Extension Team Projects, which serve as the grass roots program delivery mechanism, detail the intended audience(s) for the given System program. As a part of the review process, before approval of a given Extension Team Project, the respective Assistant Directors are charged with ensuring that the intended audience(s) for each Project includes the spectrum of potential recipients. Alabama population. For example, in recognition of the rapidly increasing Hispanic populations in Alabama, many of the System publications are now available in Spanish while other programs specifically target the Spanish speaking residents. Other System programs target 'at risk' youth, low income urban residents, small and minority farm producers, and the elderly.

Given the above (also reference the stakeholder input sections of this Plan of Work) it should be noted that the perspective of all segments of the

The System, does however, have programs, or program components, designed to target specific audiences, to include under-served and under-represented segments of the

3. How will the planned programs describe the expected outcomes and impacts?

The real impacts and outcomes of System programming are derived from the performance of the System's Priority Program Area Teams and the related Extension Team Projects. The Alabama Cooperative Extension System 'Priority Program Areas' and related 'Extension Team Projects' serve as the central programming focus. Each of the Priority Program Areas generates the primary program implementation tool for the System's set of Extension Team Projects. An Extension Team Project is defined as a combination of clearly related, preplanned educational activities which occur over a specified period of time (usually several years), and geographic area (usually statewide) and which involve several Extension-funded employees working together to accomplish specific, highly-focused, measurable results. It is at this level of Extension programming that the necessity for, and inclusion of, outcome and impact statements are paramount. The Extension Team Projects are, by definition and construction, designed to be an elite subset of Alabama Cooperative Extension System programs inherently capable of producing quantifiable measures of System educational productivity.

Similar emphasis is placed on many 'specially funded' System programs, many of which come with their unique measurement tools. These programs include special CSREES funded programs such as NEP, EFNEP, IPM, and RREA as well as programs funded partially or in whole by grants, contracts, or other extramural sources of funds.

The ability to answer the question 'So What?' is a driving force in the Alabama Cooperative Extension System program planning / planning development process. All levels of Extension administration continually issue the challenge to first, insure that expected outcomes and impacts are clearly evident in program design, and second, that if not realized, the programs will undergo such modifications as needed to increase the potential for achievement of desired outcomes and impacts. As such, ALL included Planned Programs in the FY2007-2011 Plan of Work have been closely scrutinized to ensure that the related Extension Team Projects include provisions to obtain measurable impact and outcome data.

4. How will the planned programs result in improved program effectiveness and/or efficiency?

As discussed in the Overview Statement, the Alabama Cooperative Extension System has been forced to deal with a host of internal and external factors, many of which have generated serious impacts on how the System conducts its' business. To effectively and efficiently confront the internal and external factors impacting the System, major changes were implemented in how both fiscal and human resources are allocated. These changes have greatly altered the manner in which the Alabama Cooperative Extension System provides educational services to its' publics as well as internally to Extension professionals.

In order to pragmatically address the effects of internal and external factors and yet continue the tradition of the provision of educational programs of excellence to Alabama residents a major restructuring was necessitated. Fundamental to this restructuring effort was a shift from a 'county based' programming focus to a 'regional' orientation—that is, a transition from single-county based agents to teams of educators serving multi-county regions. However, with fewer employees working across larger multi-county geographic regions, the methodology for the provision of educational services to the public has, of necessity, also changed. The primary emphasis is now on regional educational programs and group activities that allow the System to provide educational services to a maximum number of residents within the constraints of limited human and fiscal resources.

Again, the System's Priority Program Areas and associated Extension Team Projects are central to this effort. Employing the regional programming philosophy coupled with a commitment to optimal utilization of technological advances all Planned Programs in this Plan of Work will realize much improved efficiency and effectiveness. In addition, the System as a whole is better postured to provide a more focused, critical issue oriented, set of educational programs, albeit with constant or shrinking fiscal resources and a much smaller human capital base. Economies of scale are readily evident via the application of regional and commodity/issue specific advisory councils; the 'team' approach to program design, implementation, delivery, and evaluation; greater dependence on technologically generated program delivery, to include web-based on-demand learning protocols and simultaneous, multiple site application of educational outreach; greater dependence on technology and distance education for in-service training; and efficiencies and enhanced effectiveness gained from an increased emphasis on multistate, multidisciplinary, integrated research and Extension, and inter-institutional programming efforts. Related efficiencies will be derived from innovations such as 'print on demand' publications available from county offices or which may be obtained by clientele online, and from eXtension and the related Communities of Practice which allows for the aggregation of expertise from multiple sources while also allowing clientele to obtain state specific information to address their problems.

IV. Stakeholder Input

1. Actions taken to seek stakeholder input that encourages 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
- Survey of traditional stakeholder groups
- Survey of traditional stakeholder individuals

Brief explanation.

We seek stakeholder from multiple levels. Each of our county Extension office has a county-level Extension Advisory Council that provides grass-roots county-level stakeholder input. These county-level councils are required to meet at least twice annually. Each regional extension agent is expected to develop and implement a regional stakeholder input process. This can be in the form of a face-to-face meeting with stakeholders or through some other method such as a survey. At the next level, each of our statewide priority program teams is required to implement a statewide stakeholder input mechanism specific for that priority program area (i.e., agronomic row crops, animal sciences, 4-H/youth development, etc.). Each of the three colleges and schools in which we have Extension-funded faculty also have advisory boards either specific to Extension or with sub-committees for Extension. In addition to the advisory groups described above, we also conduct formal listening sessions at various locations around the state on a periodic basis. The most recent of these were conducted in 2005. About every 10 years we do a formal survey of the general public and of specific targeted clientele to determine their knowledge of and general level of satisfaction with ACES.

2(A). A brief statement of the process that will be 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
- Needs Assessments

Brief explanation.

Members of county extension advisory councils are selected by the county extension coordinators with input from the county staff. Data is collected on the membership of the county extension advisory councils each year to ensure these groups are diverse and represent the broad interest of the county. Each regional extension agent is responsible for selecting members to serve on their subject-matter specific advisory board. Data is collected on these advisory groups as well to ensure they are diverse. Members of the REA advisory group are to be individuals

who are recognized as local/regional leaders within their respective subject-matter area. The advisory groups for the statewide priority program areas/teams are most often commodity groups that operate at a statewide level such as the Alabama Cattlemen's Association. Etc. The listening sessions that are conducted on a periodic basis are well advertised through the public media and are open to any and everyone who wishes to attend. The members of the college and school advisory boards are selected and appointed by the respective deans with the advice of the faculty.

2(B). A brief statement of the process that will be 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
- Survey specifically with non-traditional groups

Brief explanation.

Methods for collecting stakeholder input are explained in the previous sections and they included meetings with individual traditional stakeholders as well as stakeholder groups, surveys of individual stakeholders and surveys of non-traditional groups.

3. A statement of how the input will be considered

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

Brief explanation.

Our programs are planned by 16 different priority program teams. These teams include county agents, county coordinators (directors), regional agents and state specialists. The teams receive input from the various levels of membership (county, regional, and state) based on the input from the advisory groups at each level. The teams are responsible for doing the strategic planning and operational programming planning for their specific subject-matter area based on the input received from all levels and the research being generated from the two universities involved (Alabama A & M university and Auburn University), as well as from other land-grant universities and reputable sources. Our goal is to have approximately 50% of the programming designed to be reactive to the needs identified by the stakeholders and the other 50% to be proactive programming based on new research finding that have potential for improving the quality of life for Alabama residents. We also collect data on the subject-matter areas for which we receive the most requests for information and this data is used to drive staffing decisions.

V. Planned Program Table of Content

S. No.	PROGRAM NAME
1	Childhood Obesity
2	Climate Change
3	Food Safety
4	Global Food Security and Hunger
5	Sustainable Energy
6	Forestry, Wildlife, and Natural Resources
7	Home Grounds, Gardening, and Home Pests
8	4-H and Youth Development
9	Family and Child Development
10	Economic and Community Development
11	Consumer Science and Personal Financial Management
12	Commercial Horticulture
13	Agronomic Crops
14	Farm Management and Agricultural Enterprise Analysis
15	Aquaculture, freshwater, and marine resources
16	Poultry Production and Processing

V(A). Planned Program (Summary)

Program # 1

1. Name of the Planned Program

Childhood Obesity

2. Brief summary about Planned Program

This Priority Program Area is part of the national Nutrition, Diet and Health base program area and is open to Regional Extension Agents, Urban Regional Extension Agents and County Extension Coordinators as well as Specialists working in this area. All Agents working in this area of specialization as well as the Specialists who support this area will form the Extension Human Nutrition, Diet and Health Team. The mission of this program area is to teach people how to apply research-generated information and knowledge to ensure healthy lifestyles based on sound nutritional information and proper exercise. This area of specialization also includes the Healthy People...Healthy Communities national initiative and the Metropolitan Health and Nutrition program. Team members may also be involved in specially funded educational programs in the areas of nutrition (to include both the special federally-funded Expanded Food and Nutrition Education Program and the grant-funded Nutrition Education Program for food stamp recipients), and all areas of health (to include diabetes, obesity, and cancer). This team will meet several times annually and will develop the strategic plan for Nutrition, Diet and Health. The team will collectively develop the specific statewide Extension Team Projects for this program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in the areas of nutrition and health. Team members should have academic training and/or recent job experience in human nutrition, health or some other closely aligned area.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
701	Nutrient Composition of Food	20%	20%		
702	Requirements and Function of Nutrients and Other Food Components	20%	20%		
703	Nutrition Education and Behavior	20%	20%		
704	Nutrition and Hunger in the Population	10%	10%		
723	Hazards to Human Health and Safety	10%	10%		
724	Healthy Lifestyle	10%	10%		
805	Community Institutions, Health, and Social Services	10%	10%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

Five of the 10 leading causes of death are associated with diet coronary heart disease, some types of cancer, stroke, diabetes mellitus, and atherosclerosis. Half of Alabamians will die of heart and blood vessel diseases; one-third will die of

cancer. In addition, one out of four has high blood pressure and diabetes that is sharply on the rise. Although obesity is a risk factor for all leading causes of death in Alabama, high blood cholesterol and high blood pressure are also risk factors. Poor diet and physical inactivity are the two primary reasons why the percentage of people who are physically inactive is almost twice the national average. Proper nutrition is important during all phases of the lifecycle—from the very young to the senior citizen. Nutritional adequacy is imperative to the 18% of Alabamians living below the federally defined poverty level. This major program area will encompass issues of nutrition and chronic disease, changing lifestyle behaviors such as physical activity, weight management, and nutrition throughout the lifecycle with special interest targeting limited resource audiences. In keeping with the mission and goals of the national Healthy People Healthy Communities Initiative, Alabama's health major program area has three broad goals: to educate and empower individuals and families to adopt healthy behaviors and lifestyles, to educate consumers so they can make informed healthcare decisions, and build community capacity to improve health. Working in partnerships with state and local government agencies, professional and civic organizations, businesses, and health care and public health professionals and institutions, Extension will make unique educational and community development organizing contributions involving urban and rural, moderate and limited resource individuals, families, and communities. This program area will encompass issues of chronic disease prevention and control; community based health promotion; county health council/coalition formation, maintenance and expansion; health care access; economics of health care infrastructures; health literacy, mental health, environmental health; agricultural health, maternal and child health; family health; and youth health.

2. Scope of the Program

- In-State Extension
- In-State Research
- Multistate Research
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Human Nutrition, Diet, and Health will continue to be an important sub-component of the Family and Consumer Sciences area within CSREES.

2. There will continue to be new research-based information in the area of Human Nutrition, Diet, and Health from Auburn University, Alabama A&M University and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented. Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

3. The

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to teach people how to apply research-generated information and knowledge to ensure healthy lifestyles based on sound nutritional information and proper exercise.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	22.0	3.5	0.0	0.0
2012	22.0	3.5	0.0	0.0
2013	22.0	3.5	0.0	0.0
2014	22.0	3.5	0.0	0.0
2015	22.0	3.5	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are 10 statewide Extension Team Projects. These are:

- ETP21A - Arthritis and Osteoporosis Prevention and Control
- ETP21B - Cancer Prevention and Control Education
- ETP21C - Cardiovascular Health Awareness
- ETP21D - Diabetes and Obesity Prevention and Control
- ETP21E - EFNEP
- ETP21F - Environmental Health
- ETP21H - Metropolitan Health, Nutrition and Wellness - U&NNTP
- ETP21I - Nutrition Education Program (NEP)
- ETP21J - Urban Nutrition Education Program (UNEP) - U&NNTP
- ETP21L - Healthy Families, Healthy Communities

Each project includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites

3. Description of targeted audience

The primary target audience is the general public.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	160000	340000	50000	100000
2012	160000	340000	50000	100000
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior "outcome activities and methods sections." The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:10 2012:10 2013:0 2014:0 2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	<p>Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements: Why: Explain the reason the program was done, or the situation or problem that the program addressed What: Specifically what was done and how it was done. When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began. Where: Specific location-- the county or counties involved. Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served. So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p> <p>Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.</p>
2	<p>Major outcome measures in Human Nutrition, Diet, and Health will be the decrease in diseases which are directly related to nutrition, and the decrease in the percent of obese adults and children. The yearly targets below are percentage decreases in diseases.</p>

Outcome # 1

1. Outcome Target

Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.

2. Outcome Type : Change in Condition Outcome Measure

2011:18	2012:18	2013:0	2014:0	2015:0
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3. Associated Knowledge Area(s)

- 701 - Nutrient Composition of Food
- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 704 - Nutrition and Hunger in the Population
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 805 - Community Institutions, Health, and Social Services

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Major outcome measures in Human Nutrition, Diet, and Health will be the decrease in diseases which are directly related to nutrition, and the decrease in the percent of obese adults and children. The yearly targets below are percentage decreases in diseases.

2. Outcome Type : Change in Condition Outcome Measure

2011:15

2012:15

2013:0

2014:0

2015:0

3. Associated Knowledge Area(s)

- 701 - Nutrient Composition of Food
- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 704 - Nutrition and Hunger in the Population
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle
- 805 - Community Institutions, Health, and Social Services

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Appropriations changes
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Description

Programs in Human Nutrition, Diet, and Health are largely affected by all of the areas checked above.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Human Nutrition, Diet, and Health includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Human Nutrition, Diet, and Health is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- On-Site
- Observation

Description

Human Nutrition, Diet, and Health includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Human Nutrition, Diet, and Health are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Climate Change

2. Brief summary about Planned Program

The Climate Change Priority Program area is part of the national Agriculture base program area. This program is open to regional extension agents, county extension coordinators, specialists, and supporting staff who work in areas that might be impacted by climate variability and climate change (e.g., agriculture, forestry, water management, and livestock). The Extension Climate Change Team will be made up of regional extension agents, county extension coordinators, specialists working with row crops, fruits and vegetables, forestry, water management, and/or livestock. The primary goal of this program priority area is to educate those involved in these areas how to apply research-generated information and knowledge to sustain crops and livestock production as well as forest and water resources, using best management adaptation practices that can contribute towards environmental sustainability. The underlying principle of this program is to ensure that Alabama stakeholders: (a) integrate climate variability and climate change into resource use and management decisions, (b) understand how climate variability and climate change might affect their systems, and (c) what they should be doing and planning in response to anticipated changes in climate. In addition this program is intended to increase capacity/ ability/ capability of extension staff enabling integrating climate and weather information into agricultural production and natural resource management. Subject matter expertise areas in this program include but are not limited to climatology, agrometeorology, hydrology, soils and fertility, land preparation, land use, tillage systems, irrigation systems, water conservation, variety or hybrid selection, livestock management and nutrition, pest and diseases management (to include insects, pathogens, and weeds, as well as integrated pest management). Team members may also be involved in educational programs in the areas of weather and climate, soil carbon sequestration, fertilizer sources and management, and youth development as the need arises. Team members will have academic training and/or practical experience and knowledge in agronomy, plant science, plant pathology, entomology, ecology, forestry, horticulture, livestock production, or some other closely aligned field of expertise.

3. Program existence : New (One year or less)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

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	15%	15%		
111	Conservation and Efficient Use of Water	10%	10%		
112	Watershed Protection and Management	5%	5%		
125	Agroforestry	5%	5%		
131	Alternative Uses of Land	5%	5%		
132	Weather and Climate	20%	20%		
205	Plant Management Systems	15%	15%		
211	Insects, Mites, and Other Arthropods Affecting Plants	15%	15%		
212	Pathogens and Nematodes Affecting Plants	10%	10%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

The croplands, pastures and forests are progressively being impacted from increased climatic variability and, in the longer run, to climate change. The US southeast region is subject to seasonal droughts, seasonal extreme temperatures, hurricane activity, and flooding rainfall events having implications which are not completely understood. Between the bio-physical climate change implications that could be mentioned are physiological effects on crops, pasture, forests and livestock (quantity, quality), changes in land, soil and water resources (quantity, quality), and increased weed, insects and pathogens dynamics. Some of the socio-economic implications could be a decline in yields and production and fluctuations in world market prices. Therefore, a better understanding of one's influence on climate and climate's influence on society, the magnitude of these changes and potential impacts, as well as the development and implementation of adaptation and mitigation strategies are key to reduce production risks.

In the US, climate variability in most cases has been linked to the phase of El Niño - Southern Oscillation (ENSO). El Niño, ENSO warm phase, is characterized by lower winter temperatures, high winter-spring rainfall Gulf Coast states and dry summers along the Atlantic Coast and from north Texas to northern Alabama. El Niño has been related to winter yield reductions of tomato and bell pepper (18%), corn (10%), and cotton in the Southeast. In Alabama, corn yield has been historically low under El Niño conditions. Different from El Niño, La Niña (ENSO cold phase) tend to be warmer and drier than the normal from fall through spring. In La Niña years, yields tend to be higher than the average (14% increase for corn). In southern Georgia, it has been observed high June precipitation under La Nina resulting in corn yield increments because of the correspondence with the tasseling period. In addition, the life cycle of crop pest and diseases are also impacted in the ENSO phases, for example, under La Niña, infestation of fall armyworm in corn usually increases.

Frequently, the interannual climate variability causes high uncertainty on a stakeholder's management decisions as weather and climate have a direct impact on crop yield and natural resources, or through indirect effects from changes in pests and pathogens dynamics, fertilizer efficiency or prices. Especially for new growers, which in some cases have moved to non-traditional agricultural land, the impacts of climate on crop productions may be even higher. In Alabama for example, the number of growers with two years or less on-farm experience grew by 54% between 2002 and 2007 according to the U.S. Department of Agriculture

farm census. Additionally, the area planted with grain crops has increased; 54% for corn grain between 2004 and 2007 and 100% for winter wheat between 2004 and 2008. Many of these changes are due to ethanol demand increases and a decrease in area devoted to cotton production.

The primary programming objectives of this program are: a) increase climate literacy of clientele, b) educate stakeholders (farmer, scientists, consultants) about how climate information should be used to support management decisions, c) help clientele understand inter-relationships between climate, agriculture, natural resources and society based on future climate change projections, d) disseminate science-based information on regional climate change and associated societal response options to a diverse audience, e) characterize potential impact of climate change and evaluate various adaptations strategies, f) identify critical gaps in our knowledge and research efforts to fill them.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

Agronomic crops, forages, and forest which could be potentially impacted by climate change will continue to be an integral component of Alabama's agricultural economy as a source of revenue and support for local, rural communities and as an important domestic source of food and fiber for its citizens statewide;

Climate change will continue to be primary program area addressed in the future U. S. Farm Bills;

Sustainability of agricultural production will continue to be primary program area addressed in the future U. S. Farm Bills;

Auburn University, Alabama A&M University, and land-grant universities in the Southeast will continue to provide research-based information to the citizens and industry including producers, consumers, and associated private enterprises;

The Alabama Cooperative Extension System will continue to receive adequate federal and state matching funds to support work in the Agronomic Crops program priority area, and will also continue to fund state and regional extension agents, county extension agents, and specialists who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goal of the Climate Change Program Priority Team is to provide research-based decision support tools (e.g., education, information) to ensure that Alabama agriculture systems maintains productivity and profitability under climate variability and change scenarios. This is expected to support state and local communities and consumers decisions toward the development and implementation of adaptation and mitigation strategie, the latter providing even economic and environmental advantages.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	1.0	0.0	0.0	0.0
2012	2.0	0.0	0.0	0.0
2013	2.0	0.0	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2014	2.0	0.0	0.0	0.0
2015	2.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

Planned program activities in this area will be multi-faceted to meet the needs of this diverse program area. Continuous interactions with stakeholders will provide information about their needs and concerns as related to climate change. This information will be used to develop Extension Team Projects - ETPs. The ETPs are individual programs that target specific areas of relevance and interest to a particular community, in this case agricultural and environmental communities around climate change aspects. Regional extension agents, county extension agents, and specialists are required to devote at least 50% of their Extension appointment directly to specific ETPs. Each participant is also required to file an annual report on their activities with those projects for which they are participants.

The main activities planned for this program are:

Increase stakeholders (farmers, county and faculty extension specialists, consultants) literacy on climate variability and change. This will be achieved through in-service training sessions, multi-state conferences, workshops, development of news letter and extension bulletins, and participation in outreach activities.

Evaluate at state level, climate change projections developed for the Southeast which will improve skill of summer and fall forecasts.

Identification of potential adaptation strategies to reduce the impact of climate change on agricultural systems. This is expected to be achieved through in-service training sessions combined with panel discussions with participation of farmers, agribusiness representatives, commodity associations, cooperatives, water management districts, and county and state governments.

Evaluation of changes in pest/diseases as consequence of climate change - Monitoring and management of row crops, fruits and vegetables pest education.

Evaluation of changes in water resources as consequence of climate change - Education on monitoring and management of water resources.

Evaluate the scenarios for agricultural trade at international/regional levels under different climate change scenarios to understand potential implications for agricultural and trade policy as a result of climate change.

Development of Decision Support Systems.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferences) 	<ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites

3. Description of targeted audience

The activities of the Climate Change Program Priority Team will target the following groups of stakeholders: 1) row crop and fruit-vegetable producers and their representatives groups that include, but are not limited to, the Alabama Cotton Commission, Alabama Peanut Commission, Alabama Soybean Producers, Alabama Wheat and Feed Grains Committee, and the Alabama Fruit and Vegetable Producers; 2) row crop and fruit-vegetable advisors including ACES agents and specialists, public and private crops advisors; 3) governmental agency personnel including USDA, NRCS, federal crop insurance and risk managers, and State of Alabama Soil and Water Conservation Committee; 4) public policy makers requesting information that impact Alabama's agricultural and water resources communities, 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.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	30000	80000	2000	5000
2012	30000	80000	2000	5000
2013	30000	80000	2000	5000
2014	30000	80000	2000	5000
2015	30000	80000	2000	5000

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	1	1
2012	1	2	3
2013	0	0	0
2014	1	2	3
2015	1	0	1

V(H). State Defined Outputs

1. Output Target

- - Distribution of basic information about climate variability and climate change not only for Alabama but also for the Southeast. Most of the information will be related to differences between climate variability and change, maps of the average spatial variability of the most important climatic variables (e.g., rainfall and temperature), forecasts provided by US official weather service (NOAA). Several methods of notification (email-Timely Information Sheets, articles in popular press, climate variability/ climate change web site specifically designed for the program, etc) will be used to disseminate information.

- Specific outputs include:

- 1) News and current information posted on the Climate web site as well as agronomic crops web site (www.alabamacrops.com).

2011:3

2012:3

2013:2

2014:1

2015:1

- - Meetings, in-service trainings, and workshops, will include information on the relationships between agriculture/natural resources and climate change as well as potential impacts, relationships between pest/diseases changes in relation to climate variability and climate change.
- Specific outputs include: 1) Multi-state conferences on climate change and the implications for agriculture and natural resources, 2) In-service training meetings for target audiences (e.g., row crops producers, fruit and vegetable producers, soils and water conservationists, etc).

2011:2

2012:2

2013:1

2014:1

2015:1

- - Reports based on reviews of current knowledge about the relationships between agriculture and climate change and potential impacts.

2011:0

2012:1

2013:1

2014:1

2015:0

- - Recommendations for adaptation strategies for row crops/fruit and vegetables will be development to reduce the risks of climate variability and climate change.

- Specific outputs include: a) Guidelines for agronomic management under various climate variability and climate change scenarios and b) Hard copy publications for use in production meetings and trainings where deemed appropriated.

2011:0

2012:1

2013:1

2014:1

2015:1

V(I). State Defined Outcome

O. No.	Outcome Name
1	<p>Members of the ACES Climate Change team will be required to provide a success story on an annual basis describing the program activity which they felt best demonstrated the impacts of their work. These success stories contain the following elements: a) why the program was conducted or the situation/problem that was addressed; b) specifically what and how it was done; c) the time period involved; d) the specific locations involved; e) who was impacted; f) how many people were served; and g) the final impacts.</p> <p>Short-term outcome: The most immediate outcomes are: 1) Increased understanding of the potential impacts of climate variability and climate change on row crops, fruits and vegetables;</p>
2	2) Increased information about the impact of ENSO phases on row crops, fruits and vegetables;
3	3) Alabama stakeholders trained/educated in climate variability and climate change topics;
4	4) Alabama growers, extension agents and extension specialists trained in using agroclimatic decision support tools
5	5) Capacities strengthened for integrating climate change risks and opportunities into state and regional development assistance
6	6) Capacities strengthened to access and use resources effectively to reduce risks associated with climate variability and climate change
7	7) Capacities strengthened to understand and manage water or natural resources in the context of climate vulnerability
8	8) Identification of the most profitable row crops management practices by ENSO phase
9	9) Identification of adaptation strategies to reduce climate change impacts.
10	10) increased awareness of the impacts of climate on agricultural Production.
11	Medium-term outcomes: The medium-term outcomes of the Climate Change Extension Program are: 1) implementation of a new system of management practices for row crops and vegetables according to ENSO phase
12	2) Improved agronomic management row crops and vegetables
13	Long-term outcomes: The long-term outcomes of the Climate Change Extension Program are: 1) increased profitability of Alabama growers
14	2) improved soil conditions
15	3) reduced environmental impacts
16	4) competitive Auburn and ACES Agronomic Research, Extension and Education system.

Outcome # 1

1. Outcome Target

Members of the ACES Climate Change team will be required to provide a success story on an annual basis describing the program activity which they felt best demonstrated the impacts of their work. These success stories contain the following elements: a) why the program was conducted or the situation/problem that was addressed; b) specifically what and how it was done; c) the time period involved; d) the specific locations involved; e) who was impacted; f) how many people were served; and g) the final impacts.

Short-term outcome: The most immediate outcomes are: 1) Increased understanding of the potential impacts of climate variability and climate change on row crops, fruits and vegetables;

2. Outcome Type : Change in Knowledge Outcome Measure

2011:20000 2012:50000 2013:150000 2014:200000 2015:300000

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 112 - Watershed Protection and Management
- 125 - Agroforestry
- 131 - Alternative Uses of Land
- 132 - Weather and Climate
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

2) Increased information about the impact of ENSO phases on row crops, fruits and vegetables;

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate
- 211 - Insects, Mites, and Other Arthropods Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 3

1. Outcome Target

3) Alabama stakeholders trained/educated in climate variability and climate change topics;

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 4

1. Outcome Target

4) Alabama growers, extension agents and extension specialists trained in using agroclimatic decision support tools

2. Outcome Type : Change in Knowledge Outcome Measure

2011:10 2012:10 2013:20 2014:20 2015:20

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 5

1. Outcome Target

5) Capacities strengthened for integrating climate change risks and opportunities into state and regional development assistance

2. Outcome Type : Change in Knowledge Outcome Measure

2011:20 2012:50 2013:100 2014:200 2015:200

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate
- 205 - Plant Management Systems

- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 6

1. Outcome Target

6) Capacities strengthened to access and use resources effectively to reduce risks associated with climate variability and climate change

2. Outcome Type : Change in Knowledge Outcome Measure

2011:50 2012:100 2013:150 2014:200 2015:250

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 7

1. Outcome Target

7) Capacities strengthened to understand and manage water or natural resources in the context of climate vulnerability

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:15 2013:50 2014:100 2015:150

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 8

1. Outcome Target

8) Identification of the most profitable row crops management practices by ENSO phase

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:2 2013:2 2014:5 2015:5

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 9

1. Outcome Target

9) Identification of adaptation strategies to reduce climate change impacts.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:1 2013:2 2014:2 2015:1

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 131 - Alternative Uses of Land
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 10

1. Outcome Target

10) increased awareness of the impacts of climate on agricultural Production.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:50 2012:100 2013:200 2014:200 2015:200

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 11

1. Outcome Target

Medium-term outcomes: The medium-term outcomes of the Climate Change Extension Program are: 1) implementation of a new system of management practices for row crops and vegetables according to ENSO phase

2. Outcome Type : Change in Action Outcome Measure

2011:2 2012:5 2013:10 2014:15 2015:15

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 131 - Alternative Uses of Land
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 12

1. Outcome Target

2) Improved agronomic management row crops and vegetables

2. Outcome Type : Change in Action Outcome Measure

2011:5 2012:10 2013:10 2014:20 2015:20

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 131 - Alternative Uses of Land
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 13

1. Outcome Target

Long-term outcomes: The long-term outcomes of the Climate Change Extension Program are: 1) increased profitability of Alabama growers

2. Outcome Type : Change in Condition Outcome Measure

2011:20 2012:100 2013:200 2014:300 2015:400

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 131 - Alternative Uses of Land
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 14

1. Outcome Target

2) improved soil conditions

2. Outcome Type : Change in Condition Outcome Measure

2011:20 2012:50 2013:100 2014:200 2015:25

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 131 - Alternative Uses of Land
- 132 - Weather and Climate
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 15

1. Outcome Target

3) reduced environmental impacts

2. Outcome Type : Change in Condition Outcome Measure

2011:1 2012:2 2013:2 2014:2 2015:2

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 112 - Watershed Protection and Management
- 125 - Agroforestry
- 131 - Alternative Uses of Land
- 132 - Weather and Climate

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 16

1. Outcome Target

4) competitive Auburn and ACES Agronomic Research, Extension and Education system.

2. Outcome Type : Change in Condition Outcome Measure

2011:15 2012:30 2013:50 2014:50 2015:100

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water

- 112 - Watershed Protection and Management
- 125 - Agroforestry
- 131 - Alternative Uses of Land
- 132 - Weather and Climate

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

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

Description

The external factors include but not limited: natural environmental disasters, input costs, commodity prices, Farm Bill regulations, the economic environment across the world, technology introduction and adoption rates, associated costs of production, and many others that are unforeseen. Failure of climate change predictions and impacts could affect education programs as well as suggested adaptation and mitigation strategies. Resilience of farmers to climate variability and climate change might reduce the success and impacts of the program. Unpredictable weather conditions (hurricanes, tropical storms, droughts, etc.) can affect erosion, runoff, and movement of water-borne sediments within the environment. The overall impact can result in its affecting water quality, crop planting, grow and development during the season, and ultimately may reduce crop yields and revenue.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)
- During (during program)
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

Description

The evaluation methods to assess the impacts of the Climate Change project will be:

- Number of REAs (Regional Extension Agents) and other Extension personnel who incorporate weather and climate information and climate decision support tools into their own programming efforts. Number and type of climate change adaptation strategies implemented by the farmers. Acreage change by management practice (e.g., conservation tillage) used as adaptation/mitigation climate change strategy will be documented. Documentation of direct positive impact on a producer or local production area as a result of REAs' interaction with stakeholders. This will include acreage and financial information as supporting evidence. In addition, an attempt will be made to measure the number of Extension clientele who benefit from the training provided to

Extension personnel. The benefit may come in the form of the adoption of information or in the assistance of its use.

2. Data Collection Methods

- Mail
- Telephone
- On-Site
- Structured
- Unstructured

Description

Data Collection: Survey and interview data will be collected by participants who serve leadership roles within specific extension team projects and programs. Survey instruments will be developed by programming leaders and supporting committees and tailored to fit the interaction dynamics of the program, whether in a formal group or individual informal setting. Type of information collected will be basic knowledge of weather and climate, basic needs from participants for climate information and forecasts, interest on climate change issues and willingness to participate of the Climate change program and implement future adaptation strategies. This information will be collected at regional or county production meetings, workshops, in-service trainings, conferences.

Identification of potential adaptations will be collected a various meetings with two different groups: a) extension agents/extension specialists, researchers and agricultural consultants; and b) growers. The meetings will be organized for three pilot farmer groups (five per group) selected with respect to the level of adoption/use of information technology-IT (group 1: advanced IT, group 2: moderate IT, group 3: none use of IT). The idea of different meetings is to evaluate the comprehensiveness of growers on the use of climate information and forecast, identify what type of decision support tools should be develop to support climate change education and how existing decision support tools should be modified for a better comprehension and use by the growers, identify alternative designs or management practices that may enable them to better cope with climate variability and change, and evaluate farmer's willingness to adopt new management practices.

The data described above will be collected from different groups, locations and events. However, it will be the support for the climate change program development, implementation as well as the evaluation of potential economic and environmental impacts of the program.

Data and derived information can be collected from: 1) Regional or county production meetings and 2) Workshops, in-service trainings, conferences. The data collected from regional or county will be used to determine producer numbers, acreage represented, overall economic interests represented from the participating farming operations, and predict the economic impact of the information presented. In addition, the data collected at workshops, in-service trainings, and/or conferences will be used to define the areas/topics of interest (subject areas) represented, provide input to organizers for ensuring relevance to producers, contact key producers in their county or region, determine the predicted economic impact of the information gained.

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Food Safety

2. Brief summary about Planned Program

This Priority Program Area is part of the national Food Safety base program area and is open to Regional Extension Agents, Urban Regional Extension Agents and County Extension Coordinators as well as Specialists working in this area. All Agents working in this area of specialization as well as the Specialists who support this area will form the Extension Food Safety, Preparation and Preservation Team. The mission of this program area is to ensure a safe and high quality food supply, to educate the general public on how to avoid food-borne diseases, and to educate food handlers and processors on how to apply research-generated information and knowledge to ensure safe food products. This area of specialization also includes the Food Safety and Quality national initiative. Team members working in this area will also be involved in educational programs in the areas of safe food handling and safe home food preservation. This team will meet several times annually and will develop the strategic plan for Food Safety, Preparation and Preservation. The team will collectively develop the specific statewide Extension Team Projects for this program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in food safety, preparation and preservation programs. Team members should have academic training and/or recent job experience in food safety, human nutrition, food technology or some other closely aligned area.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
501	New and Improved Food Processing Technologies	10%	10%		
503	Quality Maintenance in Storing and Marketing Food Products	10%	10%		
504	Home and Commercial Food Service	10%	10%		
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	35%	35%		
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	35%	35%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

An estimated 76 million cases of food borne disease occur each year in the United States. The majority of these cases is mild and cause symptoms for only one or two days. Some cases are more serious, and CDC estimates that there are 325,000 hospitalizations and 5,000 deaths in the United States related to food borne diseases each year. The most severe cases tend to occur in the very old, the very young, those who have an illness already that reduces their immune system

function, and in healthy people exposed to a very high dose of an organism. Robert L. Scharff a former Food and Drug Administration economist estimates the total economic impact of foodborne illness across the nation to be a combined \$152 billion annually. In Alabama that total cost of foodborne illness is 2.321 billion. In Alabama, food borne pathogens cause illness and deaths each year. About 1, 500 cases from pathogenic microorganisms are reported yearly to the Department of Public Health in the state of Alabama. It is also estimated that approximately 60 percent of the food borne illness occurs as a result of eating in retail foodservice operations. In 2000, the Food and Drug Administration conducted a study to determine the frequency of unsafe food handling practices in retail food service operations. Practices that contributed to the incidences of food borne illnesses were: potentially hazardous foods held at temperatures above 41 degrees F and below 140 degrees F, commercially processed potentially hazardous ready to eat foods not properly dated and marked when stored, surfaces and utensils not properly cleaned and sanitized, and improper and inadequate hand washing.

Proper food preservation and preparation can also contribute to deaths from improperly canned or processed food products. Therefore, part of our priority team area is in the area of home food preservation and preparation.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Food Safety, Preparation, and Preservation will continue to be an important sub-component of the Family and Consumer Sciences area within CSREES.
2. There will continue to be new research-based information in the area of Food Safety, Preparation, and Preservation from Auburn University, AlabamaA&MUniversity and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented. Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.
3. The

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to ensure a safe and high quality food supply, to educate the general public on how to avoid food-borne diseases, and to educate food handlers and processors on how to apply research-generated information and knowledge to ensure safe food products.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	11.0	0.0	0.0	0.0
2012	11.0	0.0	0.0	0.0
2013	11.0	0.0	0.0	0.0
2014	11.0	0.0	0.0	0.0
2015	11.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are 2 statewide Extension Team Projects. These are:

ETP17A - Food Safety Training for Food Service Workers

ETP17B - Home and Commercial Food Processing

Each project includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations • Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> • Newsletters • Web sites

3. Description of targeted audience

The primary target audience is food service workers and food processors.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	20000	1500000	10000	1000000
2012	20000	1500000	10000	1000000
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0

Year	Research Target	Extension Target	Total
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior “outcome activities and methods sections.” The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:2

2012:2

2013:2

2014:2

2015:2

V(I). State Defined Outcome

O. No.	Outcome Name
1	A major outcome will be the number of food service workers who participate in Extension sponsored Food Safety Training.
2	<p>Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:</p> <p>Why: Explain the reason the program was done, or the situation or problem that the program addressed</p> <p>What: Specifically what was done and how it was done.</p> <p>When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.</p> <p>Where: Specific location-- the county or counties involved.</p> <p>Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.</p> <p>So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p> <p>Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.</p>

Outcome # 1

1. Outcome Target

A major outcome will be the number of food service workers who participate in Extension sponsored Food Safety Training.

2. Outcome Type : Change in Condition Outcome Measure

2011:600 2012:600 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 501 - New and Improved Food Processing Technologies
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 504 - Home and Commercial Food Service
- 711 - Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
- 712 - Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:18 2012:18 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 501 - New and Improved Food Processing Technologies
- 503 - Quality Maintenance in Storing and Marketing Food Products

- 504 - Home and Commercial Food Service
- 711 - Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
- 712 - Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

4. Associated Institute Type(s)

- 1862 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Competing Programmatic Challenges

Description

Programs in Food Safety, Preparation, and Preservation are largely affected by all of the areas checked above. Less face to face meetings are being conducted due to financial constraints. However, the use of technology has allowed for workshops and trainings to continue to take place.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Food Safety, Preparation, and Preservation includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Food Safety, Preparation, and Preservation is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- Whole population
- Mail
- On-Site
- Structured
- Observation

Description

Food Safety, Preparation, and Preservation includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Food Safety, Preparation, and Preservation are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)**Program # 4****1. Name of the Planned Program**

Global Food Security and Hunger

2. Brief summary about Planned Program

This Priority Program Area is part of the national Agriculture base program area and is open to Regional Extension Agents, Urban Regional Extension Agents and County Extension Coordinators as well as Specialists working in this area. All Agents working in this area of specialization along with the Specialists who support this area will form the Extension Animal Science and Forages Team. The mission of this program area is to teach animal producers and owners how to apply research-generated information and knowledge to facilitate animal production and management systems based on best management practices that are environmentally safe and promote commonly accepted animal welfare standards. The subject areas covered in this area of specialization include genetics, reproduction, nutrition (to include forage production), disease and health issues (to include parasites and insect control), economics (to include BCIA and DHIA), and all types of regulatory issues. This area of specialization includes both commercial production of food animals (beef, dairy, swine, poultry, sheep, goats, ratites, rabbits, etc.) and non-commercial management of companion and pet animals (horses, dogs, etc.). Team members working in this area will also be involved in educational programs in the areas of water quality, nutrient and waste management and the Urban and Nontraditional Animal Science program. This team will meet several times annually and will develop the strategic plan for Animal Science. The team will collectively develop the specific statewide Extension Team Projects for this program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in the animal sciences areas to include livestock shows and horse shows. Team members should have academic training and/or recent job experience in animal science or some other closely aligned area.

3. Program existence : Mature (More than five years)**4. Program duration :** Long-Term (More than five years)**5. Expending formula funds or state-matching funds :** Yes**6. Expending other than formula funds or state-matching funds :** Yes**V(B). Program Knowledge Area(s)****1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
205	Plant Management Systems	15%	0%		
216	Integrated Pest Management Systems	5%	0%		
301	Reproductive Performance of Animals	5%	10%		
302	Nutrient Utilization in Animals	20%	20%		
303	Genetic Improvement of Animals	10%	20%		
307	Animal Management Systems	20%	20%		
311	Animal Diseases	20%	20%		
315	Animal Welfare/Well-Being and Protection	5%	10%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

Currently there are 28,183 farms producing over \$500 million in annual sales of beef, dairy, swine, sheep, goats and horses. The issue is being able to maintain a sustainable livestock industry in Alabama. The management practices and decisions made by the producers on these producers have a significant impact not only on local economies, but equally important, on the environmental and water quality of much of rural Alabama. So, it is accurate to say that all Alabama residents are impacted indirectly by decisions and management practices of Alabama livestock producers. History has shown that these producers rely on information and recommendations from the Alabama Cooperative Extension System and are very willing to implement research-based best management practices that come from land grant universities.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Livestock production will continue to be an important sub-component of Alabama agriculture, and an important area within future US Farm Bills.
2. There will continue to be new research-based information in the area of livestock production from Auburn University, Alabama A&M University and other land-grant universities that will be beneficial to individual producers and to society as a whole if it is implemented.
3. The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to teach animal producers and owners how to apply research-generated information and knowledge to facilitate animal production and management systems based on best management practices that are environmentally safe and promote commonly accepted animal welfare standards.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	23.0	4.5	0.0	0.0
2012	23.0	4.5	0.0	0.0
2013	23.0	4.5	0.0	0.0
2014	23.0	4.5	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2015	23.0	4.5	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are 5 statewide Extension Team Projects. These are:

- ETP11A - Dogs as Companion Animals - U&NNTP
- ETP11B - Goat, Sheep and Rabbit Production Systems - U&NNTP
- ETP11C - Beef Cattle Performance Programs to Enhance Profitability
- ETP11H - Forage based Livestock Production
- ETP11M - Master Meat Goat Herdsman Program - U&NNTP

Each project includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations • Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> • Newsletters • Web sites

3. Description of targeted audience

The primary target audience is livestock and forages producers. Secondary target audience is consumers of meat products. Tertiary target audience is horse and dog owners.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	92000	320000	12000	40000
2012	92000	320000	12000	40000
2013	92000	320000	12000	40000
2014	92000	320000	12000	40000
2015	92000	320000	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior "outcome activities and methods sections." The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:9 2012:9 2013:9 2014:9 2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	<p>Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:</p> <p>Why: Explain the reason the program was done, or the situation or problem that the program addressed</p> <p>What: Specifically what was done and how it was done.</p> <p>When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.</p> <p>Where: Specific location-- the county or counties involved.</p> <p>Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.</p> <p>So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p> <p>Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.</p>

Outcome # 1

1. Outcome Target

Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:15

2012:15

2013:15

2014:15

2015:0

3. Associated Knowledge Area(s)

- 301 - Reproductive Performance of Animals
- 302 - Nutrient Utilization in Animals
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 311 - Animal Diseases
- 315 - Animal Welfare/Well-Being and Protection

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Appropriations changes
- Government Regulations
- Competing Programmatic Challenges

Description

Programs in animal sciences and forages are largely affected by the farm bill and by natural disasters.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Animal Sciences and Forages includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Animal Sciences and Forages is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- On-Site
- Observation

Description

Animal Sciences and Forages includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Animal Sciences and Forages are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)**Program # 5****1. Name of the Planned Program**

Sustainable Energy

2. Brief summary about Planned Program

The Sustainable Energy Program Area is a key part of the Alabama Cooperative Extension programming effort. The primary effort of this program priority area is to educate farmers, home owners, municipalities, entrepreneurs (business), fleet managers and forest workers in energy conservation, utilization and production by utilizing research-based knowledge. These goals were set after contacts with farmers, home owners, businessmen starting up energy related businesses, fleet managers, city officials, loggers and forest owners and utilization of result demonstrations, experimentation station and laboratory research trials by research colleagues across the world. The underlying principle of this planned program is to reduce imported oil usage in a manner that is environmentally friendly and economically sustainable. Subject matter expertise areas in this program area include but are not limited to biosystems engineering, forestry, agronomy, biotechnology, agriculture economics, forestry economics, fleet management, mechanical engineering, chemical engineering, aquaculture and best management and regulatory practices for energy conservation and production. Team members will have academic training and/or practical experience and knowledge in biosystems engineering, agricultural education, agronomy, agriculture economics or some closely aligned field of expertise.

3. Program existence : Intermediate (One to five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
101	Appraisal of Soil Resources	10%	0%		
102	Soil, Plant, Water, Nutrient Relationships	20%	0%		
216	Integrated Pest Management Systems	20%	0%		
402	Engineering Systems and Equipment	20%	0%		
403	Waste Disposal, Recycling, and Reuse	20%	0%		
603	Market Economics	10%	0%		
	Total	100%	0%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

Alabama has abundant energy sources. It has a lot of conventional and unconventional natural gas reserves, huge deposits of coal and several rivers capable of hydroelectric generation. Alabama generates a lot of the country's nuclear energy. Alabama is fifth among states in nuclear power production. Alabama is one of the highest producers of hydroelectric power. Alabama produces 1% of the U.S. natural gas.

The state does have one demonstration scale cellulosic ethanol facility that is capable of producing other types of liquid fuels. According to the U.S. Energy Information Administration, in 2008, Alabama consumed over 45 million gallons of

ethanol or 1.7% of the states volume of gasoline sold. The state has 175 million gallons of annual biodiesel production capacity. 95% plus of this capacity is not being utilized due to feedstock and biodiesel prices.

2. Scope of the Program

- In-State Extension
- In-State Research
- Multistate Extension
- Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

1. Alabama and the U.S. will continue to need energy.
2. Alabama farmers, foresters and energy entrepreneurs will continue to have opportunities for profit in sustainable energy.
3. Sustainable energy will be a primary program area in the future U.S. Farm Bills.
4. Land-grant universities will continue to provide research-based information to producers, consumers and energy entrepreneurs.
5. The Alabama Cooperative Extension System will continue to receive adequate federal and state funds to support work in this program area.

2. Ultimate goal(s) of this Program

1. To provide research-based production management tools to enable Alabama feedstock to be produced economically and environmentally sustainable.
2. To provide municipalities and other public groups with the information they need to produce biodiesel from used cooking oil.
3. To assist energy entrepreneurs with their start up and production process.
4. To provide Alabama citizens with research-based information about sustainable energy options and energy conservation.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	1.0	0.0	0.0	0.0
2012	2.0	0.0	0.0	0.0
2013	2.0	0.0	0.0	0.0
2014	2.0	0.0	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2015	2.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The project will consist of programs and demonstrations that 1) increase production of energy feedstocks (corn, soybeans, rapeseed, cottonseed, peanuts, wheat and biomass); 2) work with municipalities, counties and other public organizations to produce biodiesel from used cooking oil; 3) work with entrepreneurs to develop renewable energy manufacturing plants; 4) work with petroleum distributors, farmers and the general public to increase usage of renewable fuels; 5) work on renewable energy opportunities including chicken litter to electricity; and 6) increase crop production fuel efficiency.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> • Workshop • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Web sites

3. Description of targeted audience

The activities of the sustainable Energy Program will target the following groups of stakeholders 1) feedstock producers and their representative groups that include, but are not limited to, the Alabama Soybean Producers, the Alabama Wheat and Feed Grains Producers, the Alabama Soybean and Corn Association and the Alabama Forestry Association; 2) fleet managers; 3) energy entrepreneurs; 4) municipalities, county governments and other public organizations; 5) feedstock production advisors including ACES agents and specialist, public and private agronomy advisors; 6) public policy makers requesting energy information; 7) governmental agency personnel including ADECA, DOE, USDA and NRCS; and 8) homeowners and others interested in energy conservation.

All educational programming efforts will target audiences without exclusion or discrimination, as specifically defined by ACES policy guidelines.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	1600	4000	0	0
2012	1600	4000	0	0
2013	1600	4000	0	0
2014	1600	4000	0	0

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2015	1600	4000	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	3	3
2012	0	3	3
2013	0	3	3
2014	0	3	3
2015	0	3	3

V(H). State Defined Outputs

1. Output Target

- Participants reached

2011:1600 2012:1600 2013:1600 2014:1600 2015:1600

- video produced

2011:1 2012:1 2013:1 2014:1 2015:1

- web pages developed

2011:1 2012:1 2013:1 2014:1 2015:1

V(I). State Defined Outcome

O. No.	Outcome Name
1	Knowledge gained
2	recomendations addopted
3	Energy saved and produced

Outcome # 1

1. Outcome Target

Knowledge gained

2. Outcome Type : Change in Knowledge Outcome Measure

2011:500	2012:500	2013:500	2014:500	2015:500
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3. Associated Knowledge Area(s)

- 101 - Appraisal of Soil Resources
- 102 - Soil, Plant, Water, Nutrient Relationships
- 216 - Integrated Pest Management Systems
- 402 - Engineering Systems and Equipment
- 403 - Waste Disposal, Recycling, and Reuse
- 603 - Market Economics

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 2

1. Outcome Target

recomendations addopted

2. Outcome Type : Change in Action Outcome Measure

2011:50	2012:50	2013:50	2014:50	2015:50
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3. Associated Knowledge Area(s)

- 101 - Appraisal of Soil Resources
- 102 - Soil, Plant, Water, Nutrient Relationships
- 216 - Integrated Pest Management Systems
- 402 - Engineering Systems and Equipment
- 403 - Waste Disposal, Recycling, and Reuse
- 603 - Market Economics

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 3

1. Outcome Target

Energy saved and produced

2. Outcome Type : Change in Condition Outcome Measure

2011:5000 2012:5000 2013:5000 2014:5000 2015:5000

3. Associated Knowledge Area(s)

- 101 - Appraisal of Soil Resources
- 102 - Soil, Plant, Water, Nutrient Relationships
- 216 - Integrated Pest Management Systems
- 402 - Engineering Systems and Equipment
- 403 - Waste Disposal, Recycling, and Reuse
- 603 - Market Economics

4. Associated Institute Type(s)

- 1862 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect 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.)

Description

This program is built around the knowledge that external factors are always changing for producers and consumers and that it is our charge to help them adapt to those changes. The external factors include but are not limited to: natural environment disasters, input costs, energy and feedstock prices, Farm Bill regulations, the economic environment across the world, technology introduction and adoption rates, associated costs of production and many others that are unforeseen. Inclement weather conditions (hurricanes, tropical storms, droughts, ice storms, etc.) can affect energy usage and feedstock production. Government actions, both domestic and foreign, will have a dramatic effect on energy production and usage.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)

Description

and 3) can be translated to show a positive impact on a larger geographic area or to the greater public in general.

2. Data Collection Methods

- Unstructured
- Observation

Description

V(A). Planned Program (Summary)**Program # 6****1. Name of the Planned Program**

Forestry, Wildlife, and Natural Resources

2. Brief summary about Planned Program

The mission of this program area is to assist private landowners and resource managers (e.g., foresters, wildlife biologist, etc.) and the general public in applying research-generated information, and knowledge to enhance and improve their natural resources.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
123	Management and Sustainability of Forest Resources	30%	0%		
124	Urban Forestry	10%	80%		
125	Agroforestry	10%	0%		
134	Outdoor Recreation	25%	10%		
135	Aquatic and Terrestrial Wildlife	15%	10%		
136	Conservation of Biological Diversity	10%	0%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

The American Public Health Association indicates that almost 2/3 U. S. adults and 15 percent of children six-nineteen years of age are overweight. Alabama ranks high among those states with epidemic proportions of obesity. The United Health Foundation rankings for 2007 list Alabama as having an obesity rate of 30.5%, an increase of 12.3% since 1990 to third in the nation. Alabama has a high rate of deaths from cardiovascular disease: 377.4 deaths per 100,000. Overall, the report ranks Alabama 45 out of 50 in healthy lifestyles and outcomes. Sedentary lifestyles are a primary cause of weight gain and other associated health issues for Alabama youth and adults. Creating a greater appreciation of the physical, emotional, health and social benefits of the great outdoors is an important aspect of S.T.A.R.'s urban forestry outreach. One changing factor in the American landscape over the past fifty years is the reduction in open spaces for people to use for public and private consumption. According to one research scholar, access to physical and visual open spaces is essential for those growing up in the "urban hardscape." Their appreciation of all types of nature should be stronger if their environment includes treeless streets, paved play grounds and unkempt parks and back yards. Older adults engage in better use of neighborhood open space when walking paths have water features, flowers, trees and other greenery. According to scientific studies done at the University of Chicago, Urbana-Champaign, attention restoration and everyday stress reduction are significantly impacted by green views and access to green spaces. Saving Towns thru Asset Revitalization is a statewide

asset-based greenspace development project designed to promote the human dimensions of urban forestry and greenspace development. In addition to providing programs to help people live healthier lifestyles, ACES provides research-based information to help people be better stewards of the natural resources in our state. The citizens of Alabama are blessed with a wide array of natural resources. However, many individuals do not feel so blessed and experience damage from certain species. The AL A&M and Auburn University Forestry, Wildlife and Natural Resources team strive to serve all Alabamians, be they a pulpwood cutter, a deer hunter, or an elderly lady who has a problem with a nuisance woodpecker.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are: 1) Forestry, Wildlife, and Natural Resources will continue to be an important components of Alabama's economy, and important areas within future Farm Bills; 2) S.T.A.R. will enable Alabama residents to become more knowledgeable and engaged in natural and built green assets through expanding the number of program offerings that promote outdoor ties; 3) There will continue to be new research-based information in the areas of Forestry, Wildlife, and Natural Resources from Auburn University, AlabamaA&MUniversity and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented; 4) The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to teach client groups how to manage their resources in a way that increase the positive values of an organism or a forest, while reducing the negative values.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	17.0	4.0	0.0	0.0
2012	17.0	4.0	0.0	0.0
2013	17.0	4.0	0.0	0.0
2014	17.0	4.0	0.0	0.0
2015	17.0	4.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are 3 statewide Extension Team Projects. These are: 1) ETP18A - Saving Towns Through Asset Revitalization (STAR) - U&NNTP: Organization of nontraditional greenspace and human dimension approaches in diverse settings targeting intergenerational audiences; 2) ETP18B - Wildlife Management - 2 broadcategories:wildlife enhancement (e.g., food plots for deer, birdhouses for bluebirds) and wildlife damage management (e.g., squirrels in the attic, beaver flooding timber, feral pigs destroying crops; and 3) ETP18F - Urban and Community Forestry - This ETP will reach out to Alabama communities and citizens interested in developing and/or strengthening an organized approach to city tree management through educational programs, including tours, seminars, workshops and trainings in urban forestry. It targets diverse audiences of professionals, laymen, volunteers and youth, as well as encourages participation in the Tree City, USA program, Arbor Day Contests and observances, Tree & Beautification Board Academy, and other continuing education and professional development offerings. Each project includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites

3. Description of targeted audience

The clientele is extremely diverse for this ppt. The clientele range from those experiencing damage to their property to deer hunters, from urban tree husbandry to commercial forestry operations, nontraditional programming to address urban issues to traditional extension programming related to managing fish ponds and more.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	65000	177000	32600	98000
2012	65000	180000	32600	98000
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0

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

2011:0

2012:0

2013:0

2014:0

2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- The goal of S.T.A.R. is to promote nature-based opportunities for intergenerational families in urban and community forest settings through outreach efforts with a variety of collaborators and partners. Through the provision of knowledge on the human dimensions of greenspace development, audiences will gain information that will allow them to become more environmentally aware citizens and will enhance their capacity to support organizations and community services that reconnect people to built and natural outdoor forestry and wildlife resources.

The following toolkit programs will be used to achieve a greater synergy between curative effects of the social forest on the emotional, economic, psychological, spiritual and social well-being of Alabama residents in nine target counties:

- * Using GPS & STAR Geocaching to Promote Physical Activity and Tree Education
- * Building Exposure to Nature with Intergenerational Families through Traditional Street Games
- * Faith Gardens: A Green Pathway to Community Revitalization
- * Promoting Songbird Recovery Project in Under-served Neighborhoods
- * Honey Bee Preservation in the Urban Forest
- * Monitoring Impact of Human Activity on the Greater Mobile Bay
- * Portable SOD Toolkit: Environmental Education for Congested Urban Settings
- * Tree City USA: Strengthening Economic Development Efforts in Depressed Communities

2011:0

2012:0

2013:0

2014:0

2015:0

- When Babe Turns to Beast: These workshops are designed to help farmers and landowners manage wild pigs. These feral pigs threaten crops and the ecological balance of Alabama forestland. In Alabama, wild pigs were once limited only to the southwest region of the state; however, they have expanded into virtually all of Alabama's 67 counties. ACES has planned, coordinated, and conducted workshops on feral pig management statewide. The first workshop was in what is considered ground zero--southwest Alabama. The workshop attracted some 50 participants, including farmers. Workshops are planned for next year. These new workshops are designed to show farmers and landowners the best ways to reduce pig numbers.

2011:0

2012:0

2013:0

2014:0

2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	A major outcome will be the increase in active, viable county forestry and wildlife committees.
2	<p>Desired outcomes are improved knowledge in the human dimensions of green space development among intergenerational families, enhanced neighborhood participation in urban forestry activities, increased use of environmental stewardship practices and greater engagement with the urban forest as a recreational asset, health and wellness resource and a source of emotional and physical well-being.</p> <p>Knowledge Gained - 90% gain in knowledge of human dimensions of green space development and the importance of the urban forest in post-survey results from workshop/training programs in one or more of the 8 toolkit areas.</p> <p>Change in Behavior - 25% change in behaviors based on application of knowledge gained from S.T.A.R. workshops and training programs in one or more of the 8 toolkit areas.</p> <p>Change in Culture - 15% change in organizational and community functions based on one or more of the toolkit areas.</p>

Outcome # 1

1. Outcome Target

A major outcome will be the increase in active, viable county forestry and wildlife committees.

2. Outcome Type : Change in Condition Outcome Measure

2011:67 2012:67 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry
- 134 - Outdoor Recreation
- 135 - Aquatic and Terrestrial Wildlife
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Desired outcomes are improved knowledge in the human dimensions of green space development among intergenerational families, enhanced neighborhood participation in urban forestry activities, increased use of environmental stewardship practices and greater engagement with the urban forest as a recreational asset, health and wellness resource and a source of emotional and physical well-being.

Knowledge Gained - 90% gain in knowledge of human dimensions of green space development and the importance of the urban forest in post-survey results from workshop/training programs in one or more of the 8 toolkit areas.

Change in Behavior - 25% change in behaviors based on application of knowledge gained from S.T.A.R. workshops and training programs in one or more of the 8 toolkit areas.

Change in Culture - 15% change in organizational and community functions based on one or more of the toolkit areas.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 124 - Urban Forestry
- 134 - Outdoor Recreation
- 135 - Aquatic and Terrestrial Wildlife
- 136 - Conservation of Biological Diversity

4. Associated Institute Type(s)

- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

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

Description

Any educational endeavor is subject to external factors which may threaten the desired outcomes of a program, and the ACES programs in Forestry, Wildlife, and Natural Resources are certainly no exception. We will adjust our programming to minimize the negative impact of any of the above factors.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Forestry, Wildlife, and Natural Resources includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Forestry, Wildlife, and Natural Resources is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- Sampling
- Whole population
- On-Site
- Observation
- Tests

Description

The evaluation techniques marked above may be used individually to provide formative information to modify materials and/or methods as a program is still being conducted. These same techniques may be used individually or in concert with other methods to provide summative information to determine the success of a program. Based on the information gleaned from the evaluations (formative and summative), the programs may be modified or discontinued. We will take a dynamic approach to programming, assuming the philosophy that a program can always be modified for improvement. The data collection methods and requirements for Extension Team Projects (ETPs) within Forestry, Wildlife, and Natural Resources are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)

Program # 7

1. Name of the Planned Program

Home Grounds, Gardening, and Home Pests

2. Brief summary about Planned Program

a. The mission of the Traditional program area is to teach non-commercial gardeners how to apply research generated information and knowledge to resolve problems that they encounter in their homes, lawns and gardens, not only to improve their individual enjoyment of the immediate environment in which they live, but also to provide a safe environment for everyone through the wise and correct use of all resources (human, monetary and natural).

b. The Urban Program mission is to educate clientele and communities about environmental responsibility and provide resources for making changes and improve the lifestyles of nontraditional farmers and food security and conservation of water resources. Also involved are educational programs in the areas of nontraditional commercial production, noncommercial fruit, nut and vegetable production, high tunnels for IPM, ornamental horticulture, landscape plant production, turf production, water quality, waste management, horticulture job training, rainwater collection, horticulture therapy, and farmers' market development.

c. The subject areas covered for all Home Grounds programs include soils and fertility, irrigation systems/water mgt, variety and cultivar selection, harvesting and handling, and pest management (to include insects, weeds, nematodes, and diseases, as well as integrated pest management). The primary educational programs in this Priority Program Area are Master Gardener, Smart Yards, Urban Horticulture Initiatives, New and Nontraditional Horticulture Enterprises, and the Rainwater Collection, Water Conservation and Irrigation Methods Training program.

3. Program existence : Intermediate (One to five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

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	20%	25%		
111	Conservation and Efficient Use of Water	20%	30%		
125	Agroforestry	0%	10%		
205	Plant Management Systems	40%	10%		
216	Integrated Pest Management Systems	20%	10%		
608	Community Resource Planning and Development	0%	10%		
806	Youth Development	0%	5%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

Each year, county offices of the Alabama Cooperative Extension System receive over 150,000 office visits and calls. The largest majority of these visits and calls are related to home grounds, gardening, and home pests. Alabama residents rely on the

Each year, county offices of the Alabama Cooperative Extension System receive over 150,000 office visits and calls. The largest majority of these visits and calls are related to home grounds, gardening, and home pests. Alabama residents rely on the Alabama Cooperative Extension System as a primary source of research-based information related to home grounds, gardening, and home pests. The Master Gardener Program has become one of the most popular and recognized programs and has become a model for many other Extension programs. Home grounds, gardening, and home pests is the largest demand-driven program area within ACES.

The Urban Affairs and New Nontraditional Programs Unit addresses the needs of troubled youth by providing horticulture therapy programs aimed at creating stability, improving grades, increasing motivation to finish high school and continue their education, and offering a skill base that can be used to obtain jobs. Agents are also working with farmers, residents, and communities to reduce treated water consumption, flooding, stormwater pollution, and erosion utilizing rainwater collection, raingardens, native and low water use plants and environmental landscaping. On-farm programs and demonstrations are needed to improve production, returns and profit. Field days are planned to educate commercial producers about bees, organic production, high tunnels and IPM, farmer's markets, small fruits and rainwater collection for irrigation.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

a. Home Grounds, Gardening, and Home Pests will continue to be the area that generates the largest number of clientele initiated contacts within the Alabama Cooperative Extension System.

b. There will continue to be new research-based information in the areas of Home Grounds, Gardening, and Home Pests from Auburn University, Alabama A&M University and other land grant universities that will benefit individuals and the society as a whole if implemented.

c. The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional Specialist positions and Regional Extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

a. The ultimate goal of the Traditional Program is to teach non-commercial gardeners how to resolve problems that they encounter in their homes, lawns, and gardens, not only to improve their individual enjoyment of the immediate environment in which they live, but also to provide a safe environment for everyone through the wise and correct use of fertilizers, insecticides, herbicides and other chemicals.

b. The ultimate goal of the Urban Program is to teach individuals how to use horticulture as a tool for job training, horticulture therapy, entertainment, behavior modification and income generation; increase awareness of and knowledge about environmental horticulture issues, especially water conservation; and to increase nontraditional commercial horticulture farm income.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	26.0	4.0	0.0	0.0
2012	26.0	4.0	0.0	0.0
2013	26.0	4.0	0.0	0.0
2014	26.0	4.0	0.0	0.0
2015	26.0	4.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

- a. Master Gardener (MG) is designed to recruit & train volunteer leaders to assist county offices of the ACES in disseminating knowledge and information relative to landscaping and gardening applicable to their area of Alabama .
 - 1) Volunteer training consists of 10 to 14 weeks of training in garden related subjects such as: soil nutrition, pest ID and management, plant ID and management, water management, etc.Classes are a coordinated effort between the REA's, CEC 's, County Agents, and various MG associations
 - 2) MG Interns are expected to participate in the state-wide activity, Master Gardener Helpline.There are 14 MG offices in Alabama .
 - (1) ACES staff build and sustain partnerships with the local MG volunteer associations to maintain their support programs
 - (2) Printed training materials are provided
 - (3) A webpage is provided as support for the MG Helpline
 - (4) A web available database is provided for service records
- b. The Alabama Smart Yard (SY) program is created to provide current, research-based instruction through a series of subject-matter workshops.The objective is to provide in-depth instruction related to best management practices; managing pests, water, and soil, plant selection, and other resource inputs that affect both gardening success and surrounding environments.Master Gardeners will conduct demonstrations on the same topics for the public.
 - 1) Under the direction of HGGHP REAs, workshop/demo planning and implementation is a collaborative effort with CECs, Certified MG's, state Extension Specialists and possibly local professional horticultural experts.
- c. The Urban Horticulture Initiatives (UHI) program will provide horticulture job training, horticulture therapy activities and educational programs to increase student grades, graduation rates, number of participants getting jobs, tourism, health and well-being, and decrease recidivism. Improve property values and community development by providing horticulture activities for environmental horticulture education. The New Nontraditional Horticulture Enterprises (NNHE) program will provide training for small scale producers interested in alternative, nontraditional crops or markets. The objective is to increase the income of small scale, specialized producers by diversifying crops, using rainwater collection, demonstrating high tunnels, and adopting alternative markets. Education, training, publications, websites, field days for producers interested in alternative small-scale production. Education and demonstrations about rainwater collection and use for small-scale crop irrigation.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
----------------	------------------

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) ● Other 2 (Field days) | <ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites ● Other 1 (blogs) ● Other 2 (Publications) |
|--|--|

3. Description of targeted audience

- a. MG - The program is specifically designed to train community volunteers who will disseminate research-based information. Master Gardeners are essential to the mission of the ACES
- b. SY - the target audience is non-commercial gardeners
- c. UHI - the target audience will primarily be directed toward troubled youth and adults, elderly (nursing homes), and homeowners.
- d. NNHE - the target audience is small scale and/or limited-resource farmers.
- e. RWC - the target audience is Agents and extension trainers.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	4300	1524000	1000	0
2012	4300	1524000	1000	0
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	1	0
2012	0	0	0
2013	0	0	0
2014	0	0	0

Year	Research Target	Extension Target	Total
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- a. MG = 8.
 - 1) Increase public awareness of resource management related to home gardens, grounds and pests for 1,500 Helpline clients.
 - 2) 500 new volunteers for the ACES (sign the MOA, complete training, report minimum of 50 volunteer hours)
 - 3) 20 volunteer training classes
 - 4) Maintain 14 MG offices to support state-wide Helpline
 - 5) Maintain web based resources for volunteer records (service hours and Helpline call data)
 - 6) Volunteers conduct surveys of Helpline clients
 - 7) Maintain 1,300 partnerships with Certified MG's
 - 8) Encourage 140,000 volunteer service hours with the ACES and in local communities
- b. SY = 7.
 - 1) 25 Public workshops and demonstrations
 - 2) 1,000 workshop participants
 - 3) 6 Master Gardener volunteer trainings in subjects related to Smart Yards (water management, sustainable practices, IPM)
 - 4) 3 Agent trainings in Smart Yards material
 - 5) Media stories for increased public awareness
 - 6) Printed materials for participants
 - 7) Evaluate workshops & trainings with a pre/post tests

2011:0 2012:0 2013:0 2014:0 2015:0

- Volunteer hours for urban and new nontraditional horticulture programs

2011:10000 2012:10000 2013:10000 2014:10000 2015:10000

- \$ Value of volunteer time in urban and new nontraditional horticulture programs.

2011:148442 2012:85000 2013:85000 2014:85000 2015:85000

- \$ Value of grants funded for rainwater collection, shiitake production, horticulture therapy, IPM

2011:30000 2012:30000 2013:30000 2014:30000 2015:30000

- Meetings and workshops held about community gardening, ornamental gardening, environmental landscaping, rainwater collection, beekeeping farmers' markets, shiitake mushrooms, and high tunnels.

2011:120 2012:120 2013:120 2014:120 2015:120

- Attendance by clientele at small fruit, shiitake mushroom, rainwater collection, farmers' market, beekeeping, high tunnel, community gardening and other educational meetings.

2011:2500 2012:2500 2013:2500 2014:2500 2015:2500

- Donations received for farmers' market and rainwater collection workshops.

2011:2000 2012:2000 2013:2000 2014:2000 2015:2000

- Income generated from plant sales that sustain horticulture therapy programs.

2011:8000 2012:8000 2013:8000 2014:8000 2015:8000

- Number of beekeeping, shiitake mushroom, rainwater collection demonstrations.
Output Measure

2011:40 2012:40 2013:40 2014:40 2015:40

- Number of success stories written on urban and new nontraditional horticulture programs.

2011:10 2012:10 2013:10 2014:10 2015:10

V(I). State Defined Outcome

O. No.	Outcome Name
1	knowledge gain for MG Intern pre/post tests
2	volunteer support for local ACES programs from Certified MG's
3	volunteers change a resource management habit or start a new management technique in their home landscape
4	Helpline clients try a new management technique in their home landscape
5	knowledge gain for SY wksp/demo participants
6	knowledge gain for SY trainers
7	knowledge gain for all Urban program participants
8	adoption of rainwater collection system for non commercial garden
9	gallons of community water saved
10	Perceived value of horticulture therapy programs
11	new jobs for troubled youth
12	intermediate behavior change improvement in UHI youth, %/each
13	long term behavior change and adoption of water conservation methods by homeowners, %/each
14	% increase in activity levels of urban horticulture therapy participants
15	expand crop diversity for producers selling at Moulton and Guntersville markets (NNHE program, #crops/each/40
16	Acres of rainwater irrigated fruit and vegetables

O. No.	Outcome Name
17	increase sales and profits of fruit and vegetable growers at the Guntersville and Moulton farmers' markets, \$/yr
18	High Tunnels used extend fruit and vegetable market season resulted in profit increase, \$
19	Number of registered honeybee colonies in Birmingham metro, Morgan, and Lawrence Counties
20	Number of beekeepers added
21	Acres of fruit and vegetables pollinated by Alabama beekeepers.
22	Honey production by beekeeper demonstrators, Total pounds
23	Income generated from fruit, vegetable, rainwater, high tunnel demonstrators
24	increase the production of fruit, vegetable, mushroom, high tunnel crops irrigated with rainwater catchment (long range by 2014), \$
25	gallons of water collected (saved) and used on crops
26	Rainwater and raingarden workshops conducted
27	citizen adoption rate of rainwater collection systems (%)

Outcome # 1

1. Outcome Target

knowledge gain for MG Intern pre/post tests

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 2

1. Outcome Target

volunteer support for local ACES programs from Certified MG's

2. Outcome Type : Change in Action Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 3

1. Outcome Target

volunteers change a resource management habit or start a new management technique in their home landscape

2. Outcome Type : Change in Action Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 4

1. Outcome Target

Helpline clients try a new management technique in their home landscape

2. Outcome Type : Change in Action Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 5

1. Outcome Target

knowledge gain for SY wksp/demo participants

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 6

1. Outcome Target

knowledge gain for SY trainers

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 7

1. Outcome Target

knowledge gain for all Urban program participants

2. Outcome Type : Change in Knowledge Outcome Measure

2011:40 2012:40 2013:40 2014:40 2015:40

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems
- 608 - Community Resource Planning and Development
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 8

1. Outcome Target

adoption of rainwater collection system for non commercial garden

2. Outcome Type : Change in Action Outcome Measure

2011:10 2012:10 2013:10 2014:10 2015:10

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 9

1. Outcome Target

gallons of community water saved

2. Outcome Type : Change in Action Outcome Measure

2011:10000 2012:10000 2013:10000 2014:10000 2015:10000

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 10

1. Outcome Target

Perceived value of horticulture therapy programs

2. Outcome Type : Change in Action Outcome Measure

2011:60000 2012:60000 2013:60000 2014:60000 2015:60000

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 11

1. Outcome Target

new jobs for troubled youth

2. Outcome Type : Change in Condition Outcome Measure

2011:1 2012:1 2013:1 2014:1 2015:1

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 12

1. Outcome Target

intermediate behavior change improvement in UHI youth, %/each

2. Outcome Type : Change in Action Outcome Measure

2011:30 2012:30 2013:30 2014:30 2015:30

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 13

1. Outcome Target

long term behavior change and adoption of water conservation methods by homeowners, %/each

2. Outcome Type : Change in Action Outcome Measure

2011:20 2012:20 2013:20 2014:20 2015:20

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 14

1. Outcome Target

% increase in activity levels of urban horticulture therapy participants

2. Outcome Type : Change in Action Outcome Measure

2011:40 2012:40 2013:40 2014:40 2015:40

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 15

1. Outcome Target

expand crop diversity for producers selling at Moulton and Guntersville markets (NNHE program, #crops/each/40

2. Outcome Type : Change in Action Outcome Measure

2011:0	2012:0	2013:0	2014:0	2015:0
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3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 16

1. Outcome Target

Acres of rainwater irrigated fruit and vegetables

2. Outcome Type : Change in Action Outcome Measure

2011:2	2012:2	2013:2	2014:2	2015:2
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3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 17

1. Outcome Target

increase sales and profits of fruit and vegetable growers at the Guntersville and Moulton farmers' markets, \$/yr

2. Outcome Type : Change in Condition Outcome Measure

2011:10000 2012:5000 2013:5000 2014:1000 2015:1000

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 18

1. Outcome Target

High Tunnels used extend fruit and vegetable market season resulted in profit increase, \$

2. Outcome Type : Change in Condition Outcome Measure

2011:2000 2012:3000 2013:3000 2014:0 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 19

1. Outcome Target

Number of registered honeybee colonies in Birmingham metro, Morgan, and Lawrence Counties

2. Outcome Type : Change in Action Outcome Measure

2011:30 2012:30 2013:30 2014:40 2015:40

3. Associated Knowledge Area(s)

- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 20

1. Outcome Target

Number of beekeepers added

2. Outcome Type : Change in Action Outcome Measure

2011:2	2012:2	2013:2	2014:2	2015:2
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3. Associated Knowledge Area(s)

- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 21

1. Outcome Target

Acres of fruit and vegetables pollinated by Alabama beekeepers.

2. Outcome Type : Change in Action Outcome Measure

2011:10	2012:10	2013:15	2014:10	2015:5
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3. Associated Knowledge Area(s)

- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 22

1. Outcome Target

Honey production by beekeeper demonstrators, Total pounds

2. Outcome Type : Change in Action Outcome Measure

2011:10	2012:11	2013:10	2014:10	2015:12
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3. Associated Knowledge Area(s)

- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 23

1. Outcome Target

Income generated from fruit, vegetable, rainwater, high tunnel demonstrators

2. Outcome Type : Change in Condition Outcome Measure

2011:3000 2012:3000 2013:3000 2014:3000 2015:4000

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 24

1. Outcome Target

increase the production of fruit, vegetable, mushroom, high tunnel crops irrigated with rainwater catchment (long range by 2014), \$

2. Outcome Type : Change in Condition Outcome Measure

2011:0 2012:0 2013:0 2014:2000 2015:3000

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 25

1. Outcome Target

gallons of water collected (saved) and used on crops

2. Outcome Type : Change in Action Outcome Measure

2011:7000 2012:8000 2013:9000 2014:10000 2015:11000

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 125 - Agroforestry
- 205 - Plant Management Systems
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 26

1. Outcome Target

Rainwater and raingarden workshops conducted

2. Outcome Type : Change in Action Outcome Measure

2011:20 2012:20 2013:20 2014:10 2015:20

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 27

1. Outcome Target

citizen adoption rate of rainwater collection systems (%)

2. Outcome Type : Change in Action Outcome Measure

2011:5 2012:5 2013:5 2014:5 2015:5

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 608 - Community Resource Planning and Development

4. Associated Institute Type(s)

- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

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

Description

Natural disasters, climatic changes, change in economic conditions, change in fiscal or human resources, policy/budgetary changes, population dynamics, competition, etc. - all of these events/conditions affect the personal priorities that influence our clients' decisions which budget their time and money in day-to-day living

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)

Description

Home Grounds, Gardening, and Home Pests includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Home Grounds, Gardening, and Home Pests is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- Sampling
- Mail
- Telephone
- On-Site
- Observation
- Tests

Description

Home Grounds, Gardening, and Home Pests includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within

Home Grounds, Gardening, and Home Pests are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)

Program # 8

1. Name of the Planned Program

4-H and Youth Development

2. Brief summary about Planned Program

The mission of the 4-H and Youth Development Program is to create supportive environments in which culturally diverse youth reach their fullest potential and develop into productive and contributing members of society. A major focus of 4-H and Youth Development programming is to recruit, train, and manage volunteers to work with out-of-school and community 4-H Clubs and special events. 4-H programming national initiatives include: Science, Technology, and Engineering; Healthy Living; and Youth as Citizens. Alabama 4-H Extension Team Plans include program areas that reflect our major focus areas and our work in the national initiatives areas. Activities extend knowledge, teach life skills, and provide opportunities for belonging independence, mastery, and generosity. Life skills most often identified include goal setting, critical thinking, communication, and self-efficacy. Programming at the local, regional, and state level through 4-H project, club, school enrichment and other special events and activities supports outcomes. Target audience is 4-H youth 9-18. Success will be measured by contacts, hours, success stories, qualitative and quantitative measures such as surveys and focus groups.

Urban Youth Development programming is consistent with the mission of 4-H and Youth Development in its efforts to offer positive life changing and skill broadening programs however, the primary focus is placed on offering programs that are considered new and non traditional with greater emphasis on reaching urban audiences.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
704	Nutrition and Hunger in the Population	5%	0%		
724	Healthy Lifestyle	25%	0%		
802	Human Development and Family Well-Being	10%	0%		
806	Youth Development	60%	100%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

VOICES for Alabama's Children; Alabama Kids Count 2008 Data Book reports Alabama ranks 47th with regard to the composite ranking for the indicators related to health, education, safety and security. Unfortunately, in 2009 Alabama ranks 48th. We rank 46st in dropout rate, 39th in teen birth rate, 45th in percent children in poverty and 46th in percent single-parent families. Alabama youth need positive youth development opportunities. Environmental challenges facing Alabama families and youth will require improved lifeskills with relation to goal setting, critical thinking, communication, and self-efficacy. Specific needs associated with youth in Alabama include a focus on healthy lifestyles and workforce

Youth Development can play a positive role by offering opportunities for youth to improve their lives regarding youth obesity and diabetes. Our region has been referred to as the new Detroit of the south with automobile plants including Mercedes, Hyundai, and Honda in the state, and Kia just across the state line in Georgia and Volkswagen in Tennessee. Additionally, there are high tech support industries for the automobile industry along major corridors. We can play a valuable role in workforce readiness for future high tech, science-based jobs in these industries. Hence, programs focusing resources on issues associated with Science and Technology literacy, healthy lifestyles, and youth as citizens are needed to provide citizenship, leadership, and lifeskill opportunities for youth to be equipped to improve their lives to move beyond current socio-economic barriers and succeed in society. Alabama 4-H is a great place for youth to begin their journey to individual independence. Alabama 4-H offers youth opportunities to experience the four essential elements of positive youth development; belonging, independence, generosity, and mastery. Program delivery modes include in-school 4-H Clubs, community-based, volunteer-led 4-H Clubs, enrichment 4-H programming, and other activities, events, and conferences. The Urban youth programming initiative is designed to promote urban youth development by providing personal development, leadership, and service-learning programs that will empower youth to reach their fullest potential as positive and contributing members of an economically and socially diverse society.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for Alabama 4-H Youth Development:

1. There is a research-based, body of knowledge in the area of positive youth development that has been established by land-grant and other universities that is beneficial to individuals and to society if these positive youth development programs are implemented.
2. New research-based knowledge will be created in positive youth development and will be beneficial to individuals and to society if it is included in our positive youth development program implementation.
3. 4-H Youth Development is a valued component of the National Institute for Food and Agriculture and will remain important in future farm bills.
4. 4-H Youth Development programs (positive youth development) fill an important need with regard to Science and Technology Literacy, Healthy Lifestyles, and Youth As Citizens experiential or informal education to help prepare youth as assets to society as citizens, leaders, and valuable employees.
5. Trained and screened volunteers as well as staff can effectively deliver 4-H Youth Development programming.
6. Youth need a sense of belonging, opportunities for generosity, opportunities to gain independence, and opportunities to build mastery to experience positive youth development.
7. The Alabama Cooperative Extension System will continue to receive federal and state matching funds to support work in the 4-H Youth Development priority program area and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority program area.
8. The Urban Youth programming unit will continue to expand and offer programs that are designed to attract and engage urban audiences as a program priority with specific emphasis on life skill enhancement, volunteerism, and youth leadership development.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to create supportive environments in which culturally diverse youth can reach their fullest potential and develop into productive and contributing members of society.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	76.0	6.0	0.0	0.0
2012	76.0	6.0	0.0	0.0
2013	76.0	6.0	0.0	0.0
2014	76.0	6.0	0.0	0.0
2015	76.0	6.0	0.0	0.0

V(F). Planned Program (Activity)**1. Activity for the Program**

Activities planned for Alabama 4-H Youth Development:

4-H Volunteerism: Volunteers are vital to thousands of nonprofits and governmental agencies nationwide. As demands on organizations such as Extension have increased and the financial resources available to them have declined, the use of and resources provided to volunteers has become even more critical. Volunteerism through 4-H includes management, recruiting, training, supporting, evaluating, rewarding, retaining, and utilizing volunteers to reach a more diverse youth population with greater programmatic variety and social impact. Volunteerism and youth and adult partnerships foster a sense of BELONGING, one of the key essential elements of youth development. Volunteers provide caring relationships with youth as they learn to set goals, develop critical thinking skills, learn to communicate in a complex world and provide many opportunities for self efficacy. Successes will be measured by volunteer contacts, hours served, clubs chartered, qualitative and quantitative measures such as surveys and focus groups of both youth and adult participants.

4-H Science Explorations: To help youth improve literacy, knowledge, skills, and abilities in the sciences and technological applications:

Science & Technology - Improves understanding of and appreciation for science and technology and the capacity and ability to utilize related knowledge and skills. Resource Kits and "Challenges" allow youth to learn subject matter and showcase knowledge and skills.

Natural Resources & Environment - Offers various learning experiences in the areas of land and water management, outdoor recreation, and the urban environment. Youth critically examine information and make decisions by exploring their options, setting goals, and working together.

Biological Sciences - Includes **animal sciences**, providing opportunities for youth to develop leadership and life skills through learning about and caring for animals, animal health, behavior, nutrition, reproduction, breeds, and uses. It also includes **Plant & Soil Sciences**, which engages youth in study of plant growth, nutrients, water and soil in plant growth, and the importance of plants to society.

4-H Healthy Lifestyles: 4-H is committed to the physical, mental and emotional health of youth and is a leader in health-related educational issues including chemical health, mental and emotional health, foods and nutrition, physical health and safety. Four-H activities increase youth knowledge and/or cause action in: healthy lifestyle practices, valuing healthy relationships, improving mental health and managing stress, valuing service and effective consumer practices, adopting risk reducing behaviors to prevent substance abuse, adopting behaviors to maintain personal health, reduce childhood obesity, and safety and developing appropriate strategies to resolve conflict. The ultimate goal is an increased number of youth that are at a lower risk of serious disease and illnesses - physical/mental/emotional - leading to a reduction in medical costs and greater economic productivity. Programming at the local, regional, and state level through 4-H projects, clubs, school enrichment and other special events and activities supports anticipated outcomes. Success will be measured by qualitative and quantitative measures.

4-H Citizenship & Leadership: Youth gangs and guerilla movements recognize the capabilities of young people for leadership and sacrificial service. Citizenship must provide equally challenging, but constructive, opportunities to engage and extend youth capabilities in partnership with adults. Specific issues identified by local advisory councils to be addressed include: lack of communication between adults & youth, lack of opportunities for youth to lead, youth's lack of goals, citizen apathy, loss of work ethic, and insufficient parental involvement. 4-H has a long history of community service (club projects,

conference activity, and contest requirements), youth experiences in governance and leadership (club officers, county/regional/state councils, national conference) and youth-adult partnerships (pervasive throughout the 4-H program). Extending these opportunities to more youth is critical. Programming at the local, regional, and state level through 4-H projects, clubs, school enrichment and other special events and activities supports anticipated outcomes. Success will be measured by qualitative and quantitative measures.

4-H Communication and Expressive Arts: The arts are widely recognized as a means of providing not only self expression and emotional well-being, but also as an aid to academic, economic, and personal success. Through this project, youth and adult advisors will be introduced to music, theater, public speaking, and/or the visual arts, with appropriate opportunities to build and demonstrate their artistic growth. Programming at the local, regional, and state level through 4-H project, club, school enrichment and special events and activities supports anticipated outcomes. Success will be measured by qualitative and quantitative measures.

Youth Leadership and Community Service Learning is an educational program established to provide a framework for youth to learn and demonstrate leaderskills through the organization and implementation of community service projects.

Teen Making Impact is an informational and life skill building program that prepare teens with information that support the development of skills for making sound career decisions, engaging in effective communication, pursuing of healthier lifestyles, and understanding of issues that contribute to productive citizenship.

Volunteer In Urban Programs is designed to recruit, enroll and train volunteers for programming targeting urban audiences.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites ● Other 1 (Newspaper)

3. Description of targeted audience

The primary target audience is youth from age 5 through 18 years old and adult volunteer leaders who work with these youth.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	125000	500000	370000	750000
2012	125000	500000	370000	750000
2013	125000	500000	370000	750000
2014	125000	500000	370000	750000
2015	125000	500000	370000	750000

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0
2012	0	1	1
2013	0	1	1
2014	0	1	1
2015	0	1	1

V(H). State Defined Outputs**1. Output Target**

- Recruit, screen, orient, train, and support volunteers; number of volunteers in Alabama 4-H, direct and indirect

2011:2500	2012:2750	2013:3000	2014:3250	2015:3500
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- Club and group organization, management, and reporting, number of clubs in Alabama

2011:1500	2012:1500	2013:1500	2014:1500	2015:1500
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- After School 4-H; number of after school clubs.

2011:50	2012:50	2013:50	2014:50	2015:50
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- Enrichment programs; number reported by REAs in 2010.

2011:500	2012:500	2013:500	2014:500	2015:500
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- Operation Military Kids and Military Clubs

2011:15	2012:15	2013:15	2014:15	2015:15
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- Technology Support and Development (people hours of distance education and training per year)

2011:4000	2012:4000	2013:4000	2014:4000	2015:4000
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- Grant Development (percent of prorata budget)

2011:5	2012:7	2013:9	2014:10	2015:11
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- Marketing and Public Relations (media counts, presentations, enews, and newsletters)

2011:500	2012:500	2013:500	2014:500	2015:500
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- 4-H Camping and Environmental Education

2011:3500	2012:3500	2013:3500	2014:3500	2015:3500
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- Staff professional development; number of sessions, everyone ready, scopia, and PPT.

2011:15	2012:15	2013:15	2014:15	2015:15
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- Positive Youth Development Knowledge and Research (articles, curriculum development, teaching kits)

2011:2 2012:2 2013:2 2014:2 2015:2

- Leadership and community service programs/institutes

2011:10 2012:10 2013:10 2014:10 2015:10

- Teens Making Impact Annual Statewide Conference

2011:0 2012:0 2013:0 2014:0 2015:0

- Volunteers In Urban Programs' Annual Statewide Recognition

2011:0 2012:0 2013:0 2014:0 2015:0

- Teens Making Impact enrichment groups (after and in-school sessions)

2011:0 2012:0 2013:0 2014:0 2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	Volunteer led clubs will increase and membership in clubs community-based clubs will increase. Measure is community-based clubs, special interests, and military clubs total. Number of youth in contact reporting.
2	Help youth build Belonging, Independence, Generosity, and Mastery through the visual and performing arts. Number of youth in contact reporting.
3	Youth will improve literacy, knowledge, skills, and abilities in the sciences and technological applications: Number of youth in contact reporting.
4	Increase youth knowledge and/or cause action in: healthy lifestyle practices, valuing healthy relationships, improving mental health and managing stress, valuing service and effective consumer practices, adopting risk reducing behaviors to prevent substance abuse, adopting behaviors to maintain personal health and safety and developing appropriate strategies to resolve conflict. Number of youth in contact reporting.
5	Help youth learn citizenship and leadership, and improve lifeskills associated with citizenship and leadership. Number of youth in contact reporting.

Outcome # 1

1. Outcome Target

Volunteer led clubs will increase and membership in clubs community-based clubs will increase. Measure is community-based clubs, special interests, and military clubs total. Number of youth in contact reporting.

2. Outcome Type : Change in Condition Outcome Measure

2011:350 2012:375 2013:400 2014:425 2015:450

3. Associated Knowledge Area(s)

- 704 - Nutrition and Hunger in the Population
- 724 - Healthy Lifestyle
- 802 - Human Development and Family Well-Being
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 2

1. Outcome Target

Help youth build Belonging, Independence, Generosity, and Mastery through the visual and performing arts. Number of youth in contact reporting.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:25000 2012:25000 2013:25000 2014:25000 2015:25000

3. Associated Knowledge Area(s)

- 802 - Human Development and Family Well-Being
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 3

1. Outcome Target

Youth will improve literacy, knowledge, skills, and abilities in the sciences and technological applications: Number of youth in contact reporting.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:150000 2012:160000 2013:170000 2014:175000 2015:200000

3. Associated Knowledge Area(s)

- 802 - Human Development and Family Well-Being
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 4

1. Outcome Target

Increase youth knowledge and/or cause action in: healthy lifestyle practices, valuing healthy relationships, improving mental health and managing stress, valuing service and effective consumer practices, adopting risk reducing behaviors to prevent substance abuse, adopting behaviors to maintain personal health and safety and developing appropriate strategies to resolve conflict. Number of youth in contact reporting.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:55000 2012:55000 2013:55000 2014:55000 2015:55000

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 5

1. Outcome Target

Help youth learn citizenship and leadership, and improve lifeskills associated with citizenship and leadership. Number of youth in contact reporting.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:50000 2012:50000 2013:50000 2014:50000 2015:50000

3. Associated Knowledge Area(s)

- 704 - Nutrition and Hunger in the Population
- 802 - Human Development and Family Well-Being

4. Associated Institute Type(s)

- 1862 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Economy
- Appropriations changes
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

Description

Very few external factors will affect our work in 4-H and youth development. The biggest external factor

affecting our programs are funding constraints&mdashespecially local and county funding. Limited resources of participants in some metro locations may hinder travel ability to and from programs and statewide events for urban youth.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)

Description

4-H and youth development includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within 4-H and youth development is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet. Urban youth programs are administered with pre and post test evaluations which are included in detail for each team project via intranet.

2. Data Collection Methods

- Sampling
- Whole population
- Observation
- Other (Youth Applications)

Description

We employ age-appropriate surveys, post programming, that assess youth and adult perceptions of knowledge, behavior, and attitudes.

V(A). Planned Program (Summary)

Program # 9

1. Name of the Planned Program

Family and Child Development

2. Brief summary about Planned Program

This Priority Program Area is part of the national Family Development and Resource Management base program area and is open to Regional Extension Agents, Urban Regional Extension Agents and County Extension Coordinators as well as Specialists working in this area. All Agents working in this area of specialization as well as the Specialists who support this area will form the Extension Family and Child Development Team. The mission of this program area is to strengthen families by teaching all family members, but especially parents, how to apply research-generated information and knowledge to improve the quality of their lives and family relationships. This area of specialization also includes the Extension Cares ... for America's Children and Youth national program initiative and the Urban Family Development program. Team members will also be involved in educational programs in the areas of early childhood and adolescent development, parent education and parenting skills, divorce related family issues, child care provider training, and several other related areas. This team will meet several times annually and will develop the strategic plan for Family and Child Development. The team will collectively develop the specific statewide Extension Team Projects for this program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in personal development and family sciences programs. Team members should have academic training and/or recent job experience in family and child development, adolescent psychology, early childhood development or some other closely aligned area.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
802	Human Development and Family Well-Being	70%	70%		
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	10%	10%		
806	Youth Development	20%	20%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

In the State of Alabama and across the nation, the general well being of children and families has not changed significantly since 1997 according to research studies (Snapshots II: Findings from the National Survey of America's Families, 2000). Moreover, a look at data on Alabama families subsequent to the 2000 Census reflect a variety of characteristics and ongoing change, profiling a household quite different from that of even a decade ago. Because today's families are so diverse, educators must exercise caution in the way they respond to family diversity and offer solutions to family issues. The Family and Child Development PPT umbrella consists of a network of regional extension agents (AAMU and AU), county extension coordinators, specialists and outreach educators who are poised to offer comprehensive programs to help advance families in the twenty first century. In addition to specific Extension Team Project focuses that address research-based family and child

development issues, program outreach for the 2007-2011 program cycle includes but is not limited to: a) parenting, child development and family strengthening approaches designed to impact urban, new and nontraditional families, as well as traditional families and individuals in hard-to-reach, underserved communities throughout the state. b) family resiliency and conflict resolution programs for families in transition. c) a comprehensive legal education program for families across the lifecycle. d) web-based resources including "A Look at Alabama Families" www/ACES.edu/urban e) an Annual Family Conference.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Family and Child Development will continue to be an important sub-component of the Family and Consumer Sciences area and a national base program area within CSREES.
2. There will continue to be new research-based information in the area of Family and Child Development from Auburn University, Alabama A&M University and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented.
3. The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to strengthen families by teaching all family members, but especially parents, how to apply research-generated information and knowledge to improve the quality of their lives and family relationships.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	27.0	5.0	0.0	0.0
2012	27.0	5.0	0.0	0.0
2013	27.0	5.0	0.0	0.0
2014	27.0	5.0	0.0	0.0
2015	27.0	5.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are 6 statewide Extension Team Projects. These are:

ETP13A - Healthy Families, Health Communities to continue the Caregiver training and secure funds to provide additional resources and curriculum to the participants. The Caregiver curriculum will be presented to Virginia's Extension in October of 2010. Confirmed training to implement the Caregiving program in the state of Virginia and train their agents to organize classes, recruit participants, and build partnerships. Utilize current information posted from Family Caregiving Community of Practice

ETP13B - Child Care Provider Education to target audiences based which will connect the quality of care (in the home or in child care settings) that children experience prior to entering the formal educational environment with their subsequent academic and social trajectories. With the increasing number of parents of young children entering the workforce and requiring child care in order to work, training and education initiatives are key to increasing the quality of care being provided to children.

ETP13D - Grand RAPP Grandparents and Relatives as Parents Program - U&NNTP

ETP13E - Successful Aging Initiative - U&NNTP

ETP13G - Strengthening Relationships and Marriages to continue offering the RS+ curriculum to Alabama through school-based classes in Family and Consumer Science and in Health, and as part of after school programs throughout the state. A supporting curriculum, Bridging the Great Divide, for helping parents talk with their adolescent children about dating and related issues is in the process of being tested.

ETP13I - Parenting will continue to facilitate parenting competencies in parents of children between the ages of 0-5. Educators will focus on client identified needs and develop educational workshops and programs on a variety of parenting topics. Programming is guided by Extension-developed resources and programs, including but not limited to: Stay Connected, Nurturing Parenting, First Years Count, and Partners for Tomorrow.

Each project includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● Web sites

3. Description of targeted audience

The primary target audiences are parents, grandparents, caregivers, child care providers, married couples, unmarried couples, single parents, and youth.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	42000	165000	20000	75000
2012	42000	165000	20000	75000
2013	42000	165000	20000	75000
2014	42000	165000	20000	75000
2015	42000	165000	20000	75000

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior “outcome activities and methods sections.” The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:6 2012:6 2013:6 2014:6 2015:6

V(I). State Defined Outcome

O. No.	Outcome Name
1	A major outcome will be the number of parents who participate in Extension sponsored parenting training.
2	<p>Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:</p> <p>Why: Explain the reason the program was done, or the situation or problem that the program addressed</p> <p>What: Specifically what was done and how it was done.</p> <p>When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.</p> <p>Where: Specific location-- the county or counties involved.</p> <p>Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.</p> <p>So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p> <p>Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.</p>

Outcome # 1

1. Outcome Target

A major outcome will be the number of parents who participate in Extension sponsored parenting training.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:600 2012:600 2013:600 2014:600 2015:600

3. Associated Knowledge Area(s)

- 802 - Human Development and Family Well-Being
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:30 2012:30 2013:30 2014:30 2015:30

3. Associated Knowledge Area(s)

- 802 - Human Development and Family Well-Being
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect 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.)

Description

Programs in Family and Child Development are largely affected by all of the areas checked above.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Family and Child Development includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Family and Child Development is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- On-Site
- Observation

Description

Family and Child Development includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Family and Child Development are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)

Program # 10

1. Name of the Planned Program

Economic and Community Development

2. Brief summary about Planned Program

This Priority Program Area is part of the national Economic and Community Development base program area and is for all County Extension Coordinators and for Urban Regional Extension Agents working in the area of Workforce and Economic Development as well as for ECD Specialists. All CECs will automatically have an assignment in Economic and Community Development. All CECs, Urban Regional Extension Agents working in this area, Specialists who support this area and Economic and Community Development Institute (ECDI) staff members will form the Extension Economic and Community Development Team. The mission of this program area is to improve the long-term well-being of all communities throughout Alabama by promoting economic prosperity and improved quality of life. This will be accomplished by a four-pronged approach - education and training, research communication, connections and partnerships, and consultation and engagement. Education & Training: improve the practice of economic and community development in the state through targeted educational programs. Consultation & Engagement: help build and strengthen economic and community capacity in communities through leadership development, civic engagement, strategic planning, and economic development. Research Communication: disseminate research findings on issues related to economic and community development. Connections and Partnership: facilitate communication, coordination, and partnerships among the state's economic development community, Extension, and universities.

The economic and community development program provides research-based and experience-based education and facilitation for community groups. This area of specialization is also part of the Economic and Community Development and Volunteer Development and the Workforce Preparation national base program areas as well as the Urban Workforce Development program and the Urban Community and Economic Development Fundraising Management program. Team members will be involved in educational programs in the areas of community development, leadership training, economic modeling, entrepreneurship and other methods of economic development, early childhood and adolescent development, and several other related areas. This team will meet several times annually and will develop the strategic plan for Economic and Community Development. The team will collectively develop the specific statewide Extension Team Projects for this program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in community development, citizenship, and economic and community development programs.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
605	Natural Resource and Environmental Economics	15%	10%		
608	Community Resource Planning and Development	60%	50%		
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	13%	20%		
805	Community Institutions, Health, and Social Services	12%	20%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

Alabama, as part of the growing Southern regional economy, has the potential to be among the nation's economic leaders in the 21st Century. Successful efforts, which promote sustainability and revitalization, are dependent upon having skilled community leaders. The long-range economic stability of a community correlates positively with the quality of its organized economic and community development. Before economic development can take place, community development must precede it. Various studies and reports from the state department indicate that before significant progress can be achieved in community and economic development, a broad-based economic and community development infrastructure must be in place. Economic and community growth and development are educational processes, which support new and emerging leaders and alert citizens to the importance of promoting viable communities. Having a prepared cadre of leaders available for impacting constructive change in ensuring skilled and educated workforce to meet the challenges being brought by technology is essential. Economic and community development is at the central core of developing a state system capable of producing the energy needed to sustain and improve the state. Approaching economic and community development from a system's view means pulling from the diversity of the entire system - people from different community segments, race, gender, age and thought. Diversity within communities allows citizens to capitalize on the unique skills and expertise which their neighbors have to share. Effective and efficient community economic and community development also promotes communities and organizations working together on issues through organized collaborations and partnerships. Presently, a shift is occurring in the level of responsibility for public decision-making. Local government leaders are assuming more financial and management responsibilities for programs and services that were once provided by the state or federal government. This means that stronger, more competent public officials are required at the local levels. When leaders emerge and concerned citizens take a stand to make a difference, communities can mobilize to effect positive changes that will benefit the social, emotional, financial and physical needs of citizens. In today's world of constant change, communities need to be aware of networking procedures to acquire resources and build powerful linkages between individuals, groups, and organizations. Through organized efforts in a support atmosphere, agencies and organizations can systematically solve existing and emerging problems that could not be solved by a single group. Solving problems collaboratively means changing policies, laws and regulations to fit the needs of the people. Collaboration also encourages a goal to promote the development, management, and use of Alabama's natural resources consistent with sound environmental principles and ethics, awakening of the community spirit, an emerging trend.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Economic and Community Development will continue to be an important sub-component of the Rural Development area within NIFA.

2. There will continue to be new research-based information in the area of Economic and Community Development from Auburn University, AlabamaA&MUniversity and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented. Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

3. The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

4. All CECs and Extension District Directors will have an economic and community development assignment as part of their overall responsibilities.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to achieve economic prosperity and improved quality of life for communities throughout Alabama.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	17.0	5.0	0.0	0.0
2012	17.0	5.0	0.0	0.0
2013	17.0	5.0	0.0	0.0
2014	17.0	5.0	0.0	0.0
2015	17.0	5.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are individualized community, county and regional economic and community development programs plus 5 statewide Extension Team Projects. These ETPs are:

ETP14A - Welcome to the Real World: Career Exploration and Educational Planning - UANNP ETP14H - Hispanic/Latino Outreach and Programming - UANNP ETP14I - Smart Home Buying & Foreclosure Prevention - UANNPETP14J - Virtual Minority Business Development and Marketing - UANNPETP14K - Partnership for Community Economic Development - UANNPETP projects includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet. Alabama Community Leaders Network. Alabama. Alabama

Initiative and Resource Conservation & Development Councils grant programs. Alabama's top economic developers.

The planned program activities for the individualized community, county, and regional community and economic development programs include:

Administer the Alabama Community Leaders Network.

Explore development of the Black Belt Institute to include multi-state land grant institutions to coordinate programs throughout the black belt.

Provide leadership and support for Alabama Communities of Excellence.

Conduct Intensive Economic Development Training Course and Prosperity Forums, a series of courses that explores strategies that lead to economic prosperity.

Pursue the development of a commercial kitchen to serve central Alabama.

Administer the Extension funded Rural Alabama Initiative and RC&D Councils grant programs.

Develop the Small Town Institute to focus on entrepreneurship, leadership and tourism.

Provide administrative support for I-85 Corridor Alliance.

Publish and disseminate research on topics relevant to state economic and community development policy and practice.

Participate in the "Turning the Tide on Poverty" Project in association with the Southern Rural Development Center.

Conduct Alabama-Mississippi Rural Tourism Conference.

Conduct Impact Alabama Roundtable, a new executive economic development training program for Alabama's top economic developers.

Facilitate deliberative forums, roundtables and town meetings .

Participate on economic and community development advisory boards throughout the state.

Develop economic impact/forecast models for local communities using software from EMSI (Economic Modeling Specialists).

Facilitate community and regional strategic planning, assessment and asset mapping efforts throughout the state.

Support regional efforts to promote tourism and retiree attraction .

Assist in the Alabama Broadband Initiative to provide wireless capability to all communities in the state.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) ● Other 2 (Economic Modeling) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites

3. Description of targeted audience

The primary target audiences are current and future community leaders and local governmental officials in all communities across the state.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	75000	1000000	50000	500000
2012	75000	1000000	50000	500000
2013	75000	1000000	50000	500000
2014	75000	1000000	50000	500000
2015	75000	1000000	50000	500000

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	4	4
2012	0	4	4
2013	0	3	3
2014	0	3	3
2015	0	3	3

V(H). State Defined Outputs

1. Output Target

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior "outcome activities and methods sections." The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:4 2012:4 2013:0 2014:0 2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	Outcomes from this program area include: a) Number of community and economic development programs conducted, b) Community and economic development training resources developed, c) Number of community and economic development projects conducted
2	<p>Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:</p> <p>Why: Explain the reason the program was done, or the situation or problem that the program addressed</p> <p>What: Specifically what was done and how it was done.</p> <p>When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.</p> <p>Where: Specific location-- the county or counties involved.</p> <p>Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.</p> <p>So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p> <p>Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.</p>

Outcome # 1

1. Outcome Target

Outcomes from this program area include: a) Number of community and economic development programs conducted, b) Community and economic development training resources developed, c) Number of community and economic development projects conducted

2. Outcome Type : Change in Knowledge Outcome Measure

2011:300 2012:300 2013:300 2014:300 2015:300

3. Associated Knowledge Area(s)

- 605 - Natural Resource and Environmental Economics
- 608 - Community Resource Planning and Development
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 805 - Community Institutions, Health, and Social Services

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.

2. Outcome Type : Change in Condition Outcome Measure

2011:40 2012:40 2013:45 2014:45 2015:0

3. Associated Knowledge Area(s)

- 605 - Natural Resource and Environmental Economics
- 608 - Community Resource Planning and Development
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities

- 805 - Community Institutions, Health, and Social Services

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect 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.)

Description

Programs in Economic and Community Development are largely affected by all of the areas checked above. However, for the next two years the largest single factor is mostly likely to be the nation's and state's struggling economy.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Economic and Community Development includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Economic and Community Development is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- On-Site
- Observation

Description

Economic and Community Development includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Economic and Community Development are explained in detail within the data-collection and evaluation sections of the

Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)**Program # 11****1. Name of the Planned Program**

Consumer Science and Personal Financial Management

2. Brief summary about Planned Program

This program is part of the national Family Development and Resource Management base program area and the Financial Security in Later Life national Extension initiative. The mission of the Consumer Science and Personal Financial Management Program is to strengthen the capacity of families to obtain economic stability and financial security. Consumer Science and Personal Financial Management subject matter will include family financial management, consumer education, workforce development, and entrepreneurship. This integrative priority program area addresses systemic problems families face in their economic and financial lives. Team members will provide programs designed to teach adults how to manage financial resources wisely and make wise consumer decisions regarding purchases, budgeting, managing money, credit and debt management, saving, investing, retirement planning, and estate management. Additionally, consumer education programs will focus on identity theft, fraud & scams, LifeSmarts (a consumer education program for teens), and legal matters such as the urban Legal-ease program and urban programs on increasing access to and use of technology. Employment and career development programs address the need individuals have to provide for their financial needs through employment. The need to maintain a quality workforce in communities is also addressed. Team members will provide programs designed to increase career awareness among youth and to provide all age groups with the knowledge and skills to access and utilize labor market and career information to make effective employment and career decisions. Programs will address a range of job search and career planning issues, including using the Internet in a job search and employment strategies for diverse populations (e.g., disabled, ex-offenders, non-English speakers, etc.). Entrepreneurship programs address the need to obtain adequate information and preparation to successfully start a small business. Emphasis will be placed on home-based businesses and micro-enterprises. Training will focus on principles related to recognizing opportunity; business plan development; securing and managing finances; and entrepreneurial marketing. The team will meet several times annually and develop the strategic plan for Consumer Science and Personal Financial Management. The team will collectively develop the specific statewide Extension Team Projects for the program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in the area of consumer science. Team members should have academic training and /or recent job experience in economics, consumer education, financial management or some other closely aligned area. Further, as a temporary assignment the Consumer Science and Personal Financial Management PPT will address questions from clients on housing issues. Issues most frequently affecting clients are: Furniture care, stain removal and care of fabrics in the home. Mildew and mold relative to the home environment are also concerns.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

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	10%	10%		
607	Consumer Economics	20%	20%		
801	Individual and Family Resource Management	50%	50%		
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	20%	20%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

As a nation, we entered the 21st century with the highest national debt level in history, a staggering consumer debt load, and runaway health care costs—three major problems affecting all Americans. Also of great concern are low per capita incomes, overextended credit, limited savings and financial plans for retirement, limited life skills, inadequate job skills, high unemployment and underemployment, and public policy issues for urban and rural families including minorities, individuals, youth, elderly, farmers and displaced farmers. Americans today are setting financial records. Savings as a percent of disposable income are at a record low. The percentage of disposable income allocated to pay mortgage and consumer debt has reached a record high. Personal bankruptcy filings have also hit a new record with approximately one million cases. Recent studies indicate a growing need for families to become more sophisticated in their financial decision making skills. The management of personal finance has become very complex with intricate tax laws, fluctuating interest rates, and increase in the use of electronic technology by the financial industry and a proliferation of insurance products. With a proliferation of and technology in the marketplace and in the home limited resource families, individuals, homemakers and youth lack consumer education and life-long skills such as a decision-making, financial management, time management and care and maintenance of textile items, equipment and other resources. Public Issues Education Programs are more important than ever if Alabama Citizens are to make informed decisions or have an impact on the public decision making process. Extension's "public issues education" programs help people understand and use the "public issues education" process to address problems that impact the common good of a community such as environment, education, and health care. By the year 2025 the 65 and older age group will comprise 1/5 of the Alabama's population. Those older than 85 will grow from 58,000 in 1995 to 104,000 in 2025. Increased life expectancy is resulting in record numbers of people age 65 and older. One out of every six Alabamians is aged 60 or older. Of that number 24% live below the poverty level, and women constitute 71% of the elderly poor. The issues concerning older Alabamians today include outliving retirement benefits, threats to social security, asset transfer and estate management, elder care cost, affordable health insurance, and elder abuse. Increasingly new innovations in technology are finding their way into every day life and transactions of all Alabamians. Telephone/television/internet shopping is becoming more accessible to Alabamians and is being used. "Pay at the Pump" with credit/debit cards is quite common today. These new innovations create a need for educational programs relevant to how to use the innovations, decisions to use or not to use, purchase selections and recourse, protection against unlawful use and abuse of family's resources tapped by these innovations.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)**1. Assumptions made for the Program**

Assumptions for this program area are:

1. Consumer Science and Personal Financial Management will continue to be an important sub-component of the Family and Consumer Sciences area within NIFA.

2. There will continue to be new research-based information in the area of Consumer Science and Personal Financial Management from Auburn University, AlabamaA&M University and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented. Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to strengthen the capacity of families to obtain economic stability and financial security. Economic stability refers to the acquisition and effective use of material resources to manage a household and provide for the daily (short-term) needs of the family. Financial security refers to the ability to meet future needs (long-term) through income generation and appropriate money management practices. Economic stability depends on achieving financial security and financial security cannot be experienced fully without economic stability. Consumer Science and Personal Financial Management subject matter will include workforce development, entrepreneurship, family financial management, and consumer education. This priority program area is integrative in order to address systemic problems families face in their economic and financial lives.

V(E). Planned Program (Inputs)**1. Estimated Number of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2011	12.5	2.5	0.0	0.0
2012	12.5	2.5	0.0	0.0
2013	12.5	2.5	0.0	0.0
2014	12.5	2.5	0.0	0.0
2015	12.5	2.5	0.0	0.0

V(F). Planned Program (Activity)**1. Activity for the Program**

The primary activities in this area are 4 statewide Extension Team Projects. These are:

ETP15A - Employment and Entrepreneurship- This project will help individuals move toward self-sufficiency and improve quality of life through employment and entrepreneurship activities. Youth and adults with limited resources and/or minimal work experience will be targeted. Entrepreneurship activities will focus on home-based and micro business start-up. Career development activities will promote career awareness and job preparation skills.

ETP15C - Family Financial Security and Consumer - This project will increase the level of financial knowledge and

financial management skills of youth, adults and senior citizens statewide. Topics that will be taught include budgeting, heir property, retirement, estate planning, wise decision making related to credit, debt, savings, investments, retirement, and protection from fraud and identity theft.

ETP15D - Urban Family Financial Security and Consumer Education - U&NNTP

Each project includes a variety of educational activities. Detailed descriptions of the activities of these projects are available on the ACES intranet.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations • Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> • Newsletters • Web sites

3. Description of targeted audience

The primary target audience is the general public.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	20000	80000	8000	40000
2012	20000	80000	8000	40000
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0

Year	Research Target	Extension Target	Total
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior "outcome activities and methods sections." The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:3

2012:3

2013:0

2014:0

2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	Total number of people completing financial management education programs who actually adopted one or more recommended practices to decrease consumer credit debt, or increase investing and savings, and plan for retirement within six months after completing one or more of these programs.
2	<p>Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:</p> <p>Why: Explain the reason the program was done, or the situation or problem that the program addressed</p> <p>What: Specifically what was done and how it was done.</p> <p>When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.</p> <p>Where: Specific location-- the county or counties involved.</p> <p>Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.</p> <p>So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p> <p>Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.</p>

Outcome # 1

1. Outcome Target

Total number of people completing financial management education programs who actually adopted one or more recommended practices to decrease consumer credit debt, or increase investing and savings, and plan for retirement within six months after completing one or more of these programs.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:500 2012:500 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 602 - Business Management, Finance, and Taxation
- 607 - Consumer Economics
- 801 - Individual and Family Resource Management
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Each ACES employee is required to provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

Since this program area is very broad in scope and contains multiple Extension Team Projects which have different outcomes measures, the impacts for this program area are best measured in the number and quality of the success stories generated by the individuals who work on these projects. Therefore, one very significant outcome measure is the number of success stories generated.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:18 2012:18 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 602 - Business Management, Finance, and Taxation
- 607 - Consumer Economics
- 801 - Individual and Family Resource Management

- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect 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.)

Description

Programs in Consumer Science and Personal Financial Management are largely affected by all of the areas checked above.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Consumer Science and Personal Financial Management includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Consumer Science and Personal Financial Management is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- On-Site
- Observation

Description

Consumer Science and Personal Financial Management includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Consumer Science and Personal Financial Management are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)**Program # 12****1. Name of the Planned Program**

Commercial Horticulture

2. Brief summary about Planned Program

This Priority Program Area is part of the national Agriculture base program area and is open to Regional Extension Agents and County Extension Coordinators as well as Specialists who work in this area. All Agents working in this area of specialization as well as the Specialists who support this area will form the Extension Commercial Horticulture Team. The mission of this program area is to teach horticultural producers how to apply research-generated information and knowledge to sustain commercial horticultural production using best management practices that are economically sustainable and environmentally safe. Areas of specialization include soils and fertility, land preparation, tillage systems and equipment, irrigation systems, variety and cultivar selection, harvesting and handling, pest management (to include insects, weeds, nematodes, and diseases, as well as integrated pest management), farm safety, biotechnology, best management practices and regulatory practices for all types of commercial horticultural crops. Team members may also be involved in educational programs in the areas of commercial fruit, nut and vegetable production, ornamental horticulture, landscape plant production, turf production, water quality and nutrient and waste management. This team will meet several times annually and will develop the strategic plan for Commercial Horticulture. The team will collectively develop the specific statewide Extension Team Projects for this program area, and will be responsible for implementing these projects. Team members may also be involved in working with 4-H'ers in the plant sciences areas. Team members should have academic training and/or recent job experience in horticulture, plant sciences, plant pathology, entomology, weed science, or some other closely aligned area.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

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	25%	25%		
111	Conservation and Efficient Use of Water	5%	5%		
205	Plant Management Systems	50%	50%		
215	Biological Control of Pests Affecting Plants	10%	10%		
216	Integrated Pest Management Systems	10%	10%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

Horticulture is a diverse, multifaceted industry that touches the lives of every citizen in Alabama. From the food that is eaten to the recreational areas enjoyed around the home or at the parks, horticulture touches everyone. Monetarily, the economic impact is over 2 billion dollars. However, the value in improved health through better nutrition from fresh fruits and

vegetables locally grown and mental and physical health enjoyed by participation in a myriad of activities influenced by nursery, landscape, and turf production are more difficult to quantify. The turfgrass, nursery and greenhouse, lawn and landscape services, and retail sales employs over 31,000 individuals and alone has a total economic impact of 2.9 billion dollars (The Economic Impact of the Alabama's Green Industry: Green Industry Growing, Special Report No. 7, 2009).Fruit, vegetables and pecans combined cash receipts over 61 million dollars (2008, Alabama Agricultural Statistics-State Agr. Overview).Greenhouse, sod, and Nursery generated 264.8 million in cash receipts.Of the 48.5 thousand farms in Alabama it is estimated that 1/3 are involved in horticulture production. While less than 1% of Alabama's population are directly involved in agricultural production, all 4.5 million are impacted, especially through horticulture. Challenges facing the commercial horticulture industry include availability and cost of labor; Integrated Pest Management - input costs and environmental concerns; Marketing - value added, quantity, quality, and availability; Water and Nutrients - conservation and utilization; Increasing young horticultural producers and new horticultural operations.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Commercial Horticulture will continue to be an important component of Alabama's agricultural economy, and an important area within future US Farm Bills.
2. There will continue to be new research-based information in the area of Commercial Horticulture from Auburn University, AlabamaA&MUniversity and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented.
3. The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to teach horticultural producers how to apply research-generated information and knowledge to increase sustainable commercial horticultural production, promote safe food supply, and promote improved health through consumption of fresh fruits, vegetables, nuts, and green space activities.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	12.0	0.0	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2012	12.0	0.0	0.0	0.0
2013	12.0	0.0	0.0	0.0
2014	12.0	0.0	0.0	0.0
2015	12.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

Planned program activities in this area will be multi faceted to meet the needs of this diverse program area.ETP's (Extension Team Projects) will be developed based on stakeholder input
 Provide Best Mangement Practices for commercial horticulture industries through meetings, workshops, demonstrations.
 Grower commodity meetings covering nursery, greenhouse, turf, fruits, and vegetables.
 Horticulture training for Extension faculty and Master Gardeners, ex. Home Grounds Team, Master Gardener Lectures, Advanced Master Gardener Lectures
 On-farm demonstrations related to pest management, cultural practices, and new cultivars
 Multi-agency and industry associations conferences/ workshops for traditional and non-traditional clientele
 Commercial horticulture integrated pest management thrust - Web Conference IPM strategies, Monitoring and management of fruits and vegetables pest education

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites

3. Description of targeted audience

The primary target audience is commercial horticulture producers.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	31000	97000	2000	6000
2012	31000	97000	2000	6000
2013	0	0	0	0
2014	0	0	0	0
2015	0	0	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	4	4
2012	0	4	4
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs**1. Output Target**

- This program area will include numerous output activities and methods as part of the Extension Team Projects (ETPs) which are described/explained in the prior "outcome activities and methods sections." The success of many of these outcomes will be formally evaluated/measured by using individual activity evaluation forms designed specifically for each activity, the success of other activities and methods will be measured by the level of participation in the activity. In the target boxes below for each year, we are indicating the number of individual activities within the ETPs for this program area that will be formally evaluated using an evaluation instrument designed specifically for that activity.

2011:4	2012:4	2013:4	2014:4	2015:4
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- Management of exotic pests ex. Asian citrus psyllid

2011:1	2012:1	2013:1	2014:0	2015:0
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- Integrated pest management education/adoption

2011:5	2012:5	2013:5	2014:5	2015:0
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- In-state educational meetings

2011:10	2012:10	2013:10	2014:10	2015:0
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- On-farm demonstrations in pest management, new cultivar evaluations, and cultural practices

2011:6	2012:6	2013:6	2014:6	2015:0
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- Horticulture training for Extension faculty and Master Gardeners in fruits, vegetables, turf, and ornamentals

2011:15	2012:15	2013:15	2014:15	2015:0
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- Multi-state/agency planning and implementation of commodity meetings for experienced and novice producers

2011:2	2012:2	2013:2	2014:2	2015:2
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- On farm consulting

2011:500	2012:500	2013:500	2014:500	2015:0
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V(I). State Defined Outcome

O. No.	Outcome Name
1	<p>ACES employees will provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:</p> <p>Why: Explain the reason the program was done, or the situation or problem that the program addressed</p> <p>What: Specifically what was done and how it was done.</p> <p>When: If this was a one-time event, the date it occurred. If it is was a series of events, or an on-going program, when it began.</p> <p>Where: Specific location-- the county or counties involved.</p> <p>Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.</p> <p>So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.</p>
2	Integrated pest management adoption
3	Commodity educational meetings
4	Extension faculty and master gardener training
5	On-farm demonstrations
6	Multi-state/agency commodity meetings
7	Asian citrus psyllid and citrus greening disease education and management

Outcome # 1

1. Outcome Target

ACES employees will provide a success story on the program activity which they felt best demonstrates the impacts of their work. These success stories contain the following elements:

Why: Explain the reason the program was done, or the situation or problem that the program addressed

What: Specifically what was done and how it was done.

When: If this was a one-time event, the date it occurred. If it was a series of events, or an on-going program, when it began.

Where: Specific location-- the county or counties involved.

Who and how many: The "who" includes both who did the program and who were the clients of the program, as well as how many people were served.

So what: This is the part that gives the real meaning to "success". The basic question to be answered in this part is "what difference did this program make". The difference may be measured in terms of dollars, or in changes in habits, lifestyles or attitudes. Whenever possible use numbers to show the effect of the program. If it is not possible to use numbers, provide a qualitative measurement like client comments or another type of testimonial about the program.

2. Outcome Type : Change in Condition Outcome Measure

2011:5	2012:5	2013:5	2014:5	2015:5
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3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Integrated pest management adoption

2. Outcome Type : Change in Knowledge Outcome Measure

2011:100	2012:100	2013:100	2014:100	2015:0
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3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 3

1. Outcome Target

Commodity educational meetings

2. Outcome Type : Change in Knowledge Outcome Measure

2011:2500 2012:2500 2013:2500 2014:2500 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 4

1. Outcome Target

Extension faculty and master gardener training

2. Outcome Type : Change in Knowledge Outcome Measure

2011:300 2012:300 2013:300 2014:300 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 5

1. Outcome Target

On-farm demonstrations

2. Outcome Type : Change in Knowledge Outcome Measure

2011:200 2012:200 2013:200 2014:200 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 6

1. Outcome Target

Multi-state/agency commodity meetings

2. Outcome Type : Change in Knowledge Outcome Measure

2011:2500 2012:2500 2013:2500 2014:2500 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 7

1. Outcome Target

Asian citrus psyllid and citrus greening disease education and management

2. Outcome Type : Change in Knowledge Outcome Measure

2011:350 2012:350 2013:350 2014:350 2015:0

3. Associated Knowledge Area(s)

- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

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

Description

Programs in Commercial Horticulture are largely affected by the farm bill, adverse climatic conditions and by natural disasters.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

Commercial Horticulture includes many different activities and projects. Each of these has its own specific evaluation methods. The evaluation methods for Extension Team Project (ETP) within Commercial Horticulture is explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

2. Data Collection Methods

- On-Site
- Unstructured
- Observation

Description

Commercial Horticulture includes many different activities and projects. Each of these has its own specific data collection methods. The data collection methods and requirements for Extension Team Project (ETP) within Commercial Horticulture are explained in detail within the data-collection and evaluation sections of the Extension Team Project description sections on the ACES program planning, evaluation and reporting section of our intranet.

V(A). Planned Program (Summary)

Program # 13

1. Name of the Planned Program

Agronomic Crops

2. Brief summary about Planned Program

The Agronomic Crops Priority Program Area is an integral part of the national Agricultural base program area and plans to be associated with the following national initiatives: Climate Change, Sustainable Energy, and Global Food Security and Hunger. The Extension Agronomic Crops Team is made up of regional county agents, county extension coordinators, specialists, and supporting staff. The primary effort of this program priority area is to educate those involved in all areas of production row crop agriculture on management goals by utilizing research-based knowledge. Research colleagues have developed these goals after many years of experience with clientele, on-farm contacts, result demonstrations, and experiment station and laboratory research trials across the world. The underlying principle of this planned program is to ensure that the industry is centered upon field crop production practices that are based on proven "best management practices" shown to be environmentally sound and economically sustainable. Subject matter expertise areas in this program area include but are not limited to soils and fertility, land preparation, tillage systems and equipment, irrigation management, crop variety, hybrid, and cultivar selection, harvesting and handling, pest management including insects, weeds, nematodes, diseases, and integrated pest management, precision agriculture, farm safety, biotechnology, and best management and regulatory practices for all agronomic field crops. Team members working in this area will also be involved in educational programs in the areas of water quality, nutrient and waste management, and youth development as the need arises. Team members will have academic training and/or practical experience and knowledge in agronomy, plant sciences, plant pathology, entomology, weed science, or some other closely aligned field of expertise.

In addition, the precision agriculture team will be encouraged to further develop into areas outside of general row crop production. For example, a program to educate the general citizenry on GIS techniques for use in wildlife and sporting activities is under development and has been successful in its initiation. Special attention will also be given to the further testing and development of cropping systems in "Sustainable Energy" and "Climate Change" areas.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

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	15%	15%		
111	Conservation and Efficient Use of Water	10%	10%		
205	Plant Management Systems	15%	15%		
211	Insects, Mites, and Other Arthropods Affecting Plants	15%	15%		
212	Pathogens and Nematodes Affecting Plants	10%	10%		
213	Weeds Affecting Plants	15%	15%		
215	Biological Control of Pests Affecting Plants	5%	5%		
216	Integrated Pest Management Systems	15%	15%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

Row crop production is an integral part of the agricultural community of Alabama and must remain strong for the economic benefit of the state's citizenry. Currently there are 13,000 farms producing 1.3 million acres of harvested agronomic crops valued at over \$500 million in cash receipts each year received at the farm gate. Row crop agriculture generates approximately \$52.1 billion when gross output, related employment, value added, and export value added outputs are considered. As the interface of rural row crop agricultural enterprises and urbanization becomes more highly contested, pressure from the citizens of the state through federal, state, and local government regulations and legislation will increase to develop and implement sustainable, environmentally-sound cropping systems.

The Agronomic Crops Team is an interdisciplinary effort of agronomists, agricultural engineers, entomologists, plant pathologists, and research faculty aimed at providing educations and outreach programs. The target clientele of this program is considered a "traditional" agricultural audience composed of county agents, crop consultants, producers, industry representatives, and state and national cotton interests. In addition, our clientele includes private citizens who are involved in the production industry or where there are concerns at the farm/urban interface. Educational programs will be provided for producers and citizens interested in all major row crops including corn, cotton, peanuts, soybeans, and small grains as well as for alternative and bioenergy crops.

Extension agents and specialists have traditionally used a range of techniques to demonstrate new technologies and to aid producers in solving practical problems. Crop production meetings, field visits, and on-farm field projects provide practical, "face-to-face" information to producers, maintain the level of expertise needed to serve their needs, and demonstrate to the clientele our level of commitment to their industry. This Program Priority Area will serve as a cohesive programming effort to encompass these activities. Extension Team Projects (ETPs) were first developed by the Alabama Cooperative Extension System (ACES) in 1997-98 to provide central educational programming in several emphasis areas.

The primary programming objectives of this program are: 1) to develop and maintain profitable and environmentally sustainable crop production systems; 2) to ensure safe, environmentally sound pest management practices for Alabama row crop production; 3) to improve business decision-making skills to ensure viable food and fiber resources for future generations; 4) to increase use of emerging technology in production systems; and 5) to equip managers to operate in a market-driven economy where commodity and input prices are in constant flux. In 2011, programs will also be tailored to meet the national initiatives in Climate Change, Sustainable Energy, and Global Food Security and Hunger. While these have been issues that are typically addressed in a general sense by the Agronomic Crops programming efforts, more emphasis will be given to provide outputs addressing them.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are:

1. Agronomic Crops will continue to be an integral component of Alabama's agricultural economy as a source of revenue and support for local, rural communities and as an important domestic source of food and fiber for its citizens statewide;
2. Agronomic crops will continue to be a primary program area addressed in future U.S. Farm Bills;
3. Auburn University, Alabama A&M University, and other land-grant universities across the U.S. will continue to provide research-based information to the citizens and crops industry including producers, consumers, and associated private enterprises;
4. The Alabama Cooperative Extension System will continue to receive adequate federal and state matching funds to support work in the Agronomic Crops program priority area, and will also continue to fund state and regional extension agents, county extension agents, and specialists who work exclusively in this priority area;
5. Collaborations will be formed within the state and across national programs to address the following areas of the NIFA initiatives: Climate Change, Sustainable Energy, and Global Food Security and Hunger.

2. Ultimate goal(s) of this Program

1. The ultimate goal of the Agronomic Crops Program Priority Team is to provide research-based crop production management tools to ensure that Alabama row crop production is economically and environmentally sustainable for state and local communities and consumers of food and fiber;
2. In addition, the Agronomic Crops Program Priority Team is committed to program development and delivery that will ensure a safe, sustainable domestic food and fiber supply for Alabama citizens and to ensure that there will be for future generations;
3. Given the state of the world's population and hunger relief needs, a portion of the agronomic crops team effort will be directed towards programming in the Climate Change, Sustainable Energy, and Global Food Supply and Hunger areas to ensure that future generations have the same advantages that have been enjoyed by highly developed countries.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	24.5	0.0	0.0	0.0
2012	24.5	0.0	0.0	0.0
2013	24.5	0.0	0.0	0.0
2014	24.5	0.0	0.0	0.0
2015	24.5	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

2011 Agronomic Crops Extension Team Projects (ETP)

1. Geospatial Education and Precision Agriculture Programs: The use of geospatial technologies as a resource to Extension and University personnel, Alabama producers, and the general public continues to grow. The purpose of the Geospatial Technologies ETP is to educate extension personnel in the use of geospatial technologies including global positioning system (GPS) hardware, geographic information systems (GIS), and remote sensing. The ETP will include a combination of an in-service training session and self-paced, online tutorials to achieve the project goals.

2. Sustainable Peanut Production in Alabama: Peanuts are planted and managed each year on approximately 195,000 acres in Alabama. The Alabama Ag Statistics Service now identifies peanuts in 33 counties and supporting industries now account for approximately \$900 million of value-added income to the state. Expertise from many diversified disciplines is involved in peanut production. These include but are not limited to integrated pest management, agronomy and soil interrelations, development and verification of new production technologies, irrigation and water quality protection, soil conservation, sustainable production, and economic survival.

3. Herbicide Resistance Management Program: This project is designed to educate farmers about the threat of herbicide resistant weeds in their row crops and also act as an early detection system to try and limit spread of herbicide resistant weeds in Alabama. The proper use of herbicides, sprayer calibration, and crop rotation benefits will be the focus of the project. It will provide a method for farmers to report weeds in their fields that they think are resistant to foliar herbicides such as glyphosate (Roundup, etc.). This herbicide is currently is used on greater than 80 percent of our row crop acres. The entire state will be covered by this project. Herbicide resistant weeds have the potential to dramatically increase weed control costs (\$15-20 per acre estimate) for Alabama farmers. Success of the project will be determined by how well we are able to limit the spread of herbicide resistant weeds in Alabama. Pigweed is a major concern to Alabama farmers since a resistant species currently infests several fields in South Georgia. The ultimate goal of this ETP is to rapidly detect and limit the spread of herbicide resistant weeds by educating the farmers in methods designed to slow and/or prevent the occurrence and spread of herbicide resistant weeds. Herbicide resistance could cost Alabama cotton farmers alone over \$8,000,000 per year.

4. Asian Soybean Rust Project: Asian soybean rust is a relatively new disease in the United States and soybeans are very susceptible to this fungal pathogen. This project consists of a season-long monitoring program that provides an early warning system for soybean growers in Alabama and the Southeast. The project consists of team members monitoring 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.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
----------------	------------------

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Web Conferencing) | <ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites |
|--|---|

3. Description of targeted audience

2011 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.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	56000	210000	4500	16500
2012	56000	210000	4500	16500
2013	65000	240000	5000	17500
2014	65000	250000	5500	18000
2015	67000	275000	6500	18500

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	3	3	6
2012	3	3	6
2013	3	3	6
2014	3	3	6
2015	3	3	6

V(H). State Defined Outputs

1. Output Target

- 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) and through the Auburn University Soybean Rust telephone hotline;
- 4- Publications like the 2011 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;
- 6- Establishment of disaster responses when a natural environmental disaster occurs.

2011:5

2012:5

2013:5

2014:5

2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	Members of the ACES Agronomic Crops team is required to provide a success story on an annual basis describing the program activity which they felt best demonstrated the impacts of their work. These 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 Target**

Members of the ACES Agronomic Crops team is required to provide a success story on an annual basis describing the program activity which they felt best demonstrated the impacts of their work. These 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. Outcome Type : Change in Knowledge Outcome Measure

2011:20 **2012:20** **2013:12** **2014:12** **2015:0**

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2**1. Outcome Target**

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. Outcome Type : Change in Knowledge Outcome Measure

2011:100000000 **2012:100000000** **2013:100000000** **2014:100000000** **2015:0**

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants

- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 3

1. Outcome Target

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. Outcome Type : Change in Knowledge Outcome Measure

2011:200000000 2012:200000000 2013:200000000 2014:200000000 2015:0

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 111 - Conservation and Efficient Use of Water
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 215 - Biological Control of Pests Affecting Plants
- 216 - Integrated Pest Management Systems

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect 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.)

Description

There are numerous external factors that can impact the planned outcomes of the Agronomic Crops program. Programs within this group are built around the knowledge that external factors are always changing for producers and that it is our charge to help them adapt to those changes. The external factors include but are not limited to: natural environmental disasters, input costs, commodity prices, Farm Bill regulations, the economic environment across the world, technology introduction and adoption rates, associated costs of production, and many others that are unforeseen. Inclement weather conditions (hurricanes, tropical storms, droughts, etc.) can affect erosion, runoff, and movement of water-borne sediments within the environment. The overall impact can result in its affecting water quality, crop planting, grow and development during the season, and ultimately may reduce crop yields and revenue. Inclement weather can increase the spread of herbicide resistant pigweed, since high winds generated by such weather systems and moving from the east into Alabama from Georgia may move pollen from resistant plants hundreds of miles, as well as enhance the infection environment for the Asian soybean rust across the state. The results of large spread weather disasters can impact production and the general citizenry over an entire region of several states.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Retrospective (post program)
- Before-After (before and after program)
- During (during program)

Description

To this end, ETP participants will be required to at least 3 examples that: 1) Show the responsiveness of the Alabama Cooperative Extension System to clientele needs as it relates to agronomic crop producers including cotton, field corn, peanuts, and small grains, soybeans; 2) Document direct positive impact on a producer or local production area as a result of their interaction with those producers. This will include acreage and financial information as supporting evidence; 3) Can be translated to show a positive impact on a larger geographic area or to the greater public in general; 4) The metric for measuring the outcome of the ETP will be the number of REAs and other Extension personnel who incorporate information and technologies into their own programming efforts. In addition, an attempt will be made to measure the number of Extension clientele who benefit from the training provided to Extension personnel. The benefit may come in the form of the adoption of information or in the assistance of its use.

2. Data Collection Methods

- Sampling
- Mail
- On-Site
- Unstructured
- Observation

Description

Data Collection: Survey and interview data will be collected by participants who serve leadership roles within specific extension team projects and programs. Survey instruments will be developed by programming leaders and supporting committees and tailored to fit the interaction dynamics of the program, whether in a formal group or individual informal setting. Participants will keep the following records or data: Note: these data will be in very concise format and in table form where possible. 1. For regional or county production meetings: determine producer numbers, acreage represented, overall economic interests represented from the participating farming operations, and predict the economic impact of the information presented (note: this will be based on the following: (acreage represented X average yield/acre X average cotton and program price received X predicted percent yield increase or savings in inputs based on the agent's or specialist's

knowledge); 2. For regional or county field tours: define the areas of interest (subject areas) represented, provide input to organizers for ensuring relevance to producers, contact key producers in their county or region, determine the predicted economic impact of the information gained; 3. For on-farm trials and demonstrations: determine problem areas through personal contacts or surveys within their county or region, work with area specialists, state specialists, regional agents, or CECs to determine the success of demonstrations and programs conducted to solve those problems or to develop expertise in new technology.

V(A). Planned Program (Summary)

Program # 14

1. Name of the Planned Program

Farm Management and Agricultural Enterprise Analysis

2. Brief summary about Planned Program

This priority program area is an educational-service program designed to assist farmers in Alabama's 67 counties plus 6 Florida counties with improved record keeping, management, and decision-making to promote efficiency, profitability, and survivability of farms and viability of the farm and agribusiness sectors. Participating farm entities assemble and maintain complete and accurate farm business records. Economists oversee this process plus compile and analyze resulting information to develop standard financial and business analysis reports. Participating farm managers meet regularly with an economist for assistance with business record keeping and discussion of analysis of analytical data relative to problems, opportunities, and potential impacts, including profit potential and decision making relative to income tax consequences and estate planning and management. Economists counsel participating farmers so they use the business reports to make informed decisions to improve the efficiency and profitability of their farms. An Annual Summary Report is published from participating farmer data. This publication provides data for major agricultural enterprises produced in the State by major production areas. It provides benchmark data which is useful to both participating and other farmers plus lenders; governmental authorities; farm commodity organizations; tax consultants; accountants; teaching, research, and extension faculty; etc. Economists strive to address issues identified by these and other clientele so as to improve profitability of the farm sector and thus promote the viability of the farm and agribusiness sectors.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

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	45%	0%		
602	Business Management, Finance, and Taxation	35%	0%		
605	Natural Resource and Environmental Economics	10%	0%		
801	Individual and Family Resource Management	10%	0%		
	Total	100%	0%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

Currently, there are 43,000 farms in Alabama with 8.6 million acres in production. Value of crops sold, including nursery and greenhouse production, is \$590 million and value of livestock, poultry, and their products is \$2.68 billion, for a total contribution of \$3.27 billion. Thus, agribusiness is extremely important to Alabama's economy. Since farms are the base of this system, their profitability and viability have important impacts on local and State employment levels and economies. Farm economists use their expertise, experiences, and detailed data from about 275 farms to develop financial statements and relationships to analyze farm efficiency and profitability. Availability of this information and the knowledge and expertise of the economists will improve decision making by farmers, on-farm resource allocation will be more efficient, and viability of the

farm and agribusiness sectors will be enhanced. Also, educational efforts by economists to the various clientele groups will enable those who serve farmers to provide better service.

2. Scope of the Program

- In-State Extension
- In-State Research
- Multistate Research
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

- Farmers will continue to see the value of Farm Analysis and will continue to support their respective associations through membership and provision of data and payment of membership fees which partially support economists.
- The Alabama Cooperative Extension System will continue to receive sufficient Federal and State matching funding to support the priority program area and extension economists.
- The farm sector will continue to be a viable career alternative for our young people.
- We will be able to attract quality individuals to serve as economists for the Farm Analysis Associations.

2. Ultimate goal(s) of this Program

The ultimate goal of this program is to assist farmers in making the very best decisions possible relative to their farm operations at a point in time , given their resource availability and constraints; available technologies and markets; personal goals and aspirations; farm, tax, and related policies; and related legal and legislative environments. Thus, hopefully, they will be profitable and viable over the short and long terms.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	8.5	0.0	0.0	0.0
2012	8.5	0.0	0.0	0.0
2013	8.5	0.0	0.0	0.0
2014	8.5	0.0	0.0	0.0
2015	8.5	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are conducted relative to one Extension Team Project:ETP16D, Agricultural Business Management and Profitability. Detailed descriptions of the activities of this project are available on the ACES Intranet. In summary, Economists work with the Farm Analysis cooperators to assemble and maintain accurate farm records. They

compile and analyze these records and develop standard financial and business statements. They advise cooperators relative to their operations in areas such as feasibility of alternative enterprise mixes, alternative technologies, alternative markets and methods, and alternative resource mixes. Consideration is given to impacts on efficiency, finance, taxation, income, and estate planning. Individual farm level data are compiled into Association and State Summaries which focus on major farm enterprises in the State and major production areas. Analyses are provided for lower, middle, and upper thirds of farms so as to isolate practices and conditions that might relate to particular farms being better or worse than others. The better farms can potentially serve as benchmarks for other farms. Information and knowledge gained from working with participating farmers is used to advise others who might be interested in particular practices, technologies, or conditions that promote efficiency and profitability. Basically, the program involves much real world, one-on-one education and advisement.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Workshop ● Group Discussion ● One-on-One Intervention ● Other 1 (Electronic interaction) ● Other 2 (Web conferencing) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites ● Other 1 (Blogging-social networking)

3. Description of targeted audience

Primary focus and interaction is on cooperators in the State's four Farm Analysis Associations. However, data and information from these contacts will be used in conjunction with knowledge and expertise of Economists to guide and advise numerous other clientele, including but not limited to: other farmers; lenders; governmental authorities; tax consultants and accountants; research, teaching, and extension faculty; and leadership of agricultural commodity organizations. This program involves much education and training in farm management in the most broad terms, including decision making related to feasibility of enterprises, enterprise mixes, technologies, and/or alternative markets and methods; resource allocations; financial considerations; tax issues and ramifications; estate tax issues and ramifications; and family living conditions.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	8000	20000	100	500
2012	8000	20000	100	500
2013	8000	20000	100	500
2014	8000	20000	100	500
2015	8000	20000	100	500

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	0	0
2012	0	0	0
2013	0	0	0
2014	0	0	0
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- Direct advisement and counselling of roughly 275 association members.

2011:278 2012:280 2013:280 2014:280 2015:280

- Advise and counsel other, non-member, clientele

2011:600 2012:600 2013:600 2014:600 2015:600

- Publish Annual Summaries

2011:3 2012:3 2013:3 2014:3 2015:3

- Participate in tax and commodity meetings

2011:30 2012:30 2013:30 2014:30 2015:30

- Indirect impacts on decisions of those who attend meetings, read publications, and/or review blog listings or newsletters.

2011:6000 2012:6000 2013:6000 2014:6000 2015:6000

V(I). State Defined Outcome

O. No.	Outcome Name
1	Contacts will better understand the farm decision environment.
2	Direct and indirect contacts will make better, more informed, decisions.

Outcome # 1

1. Outcome Target

Contacts will better understand the farm decision environment.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:900 2012:900 2013:900 2014:900 2015:900

3. Associated Knowledge Area(s)

- 601 - Economics of Agricultural Production and Farm Management
- 602 - Business Management, Finance, and Taxation
- 605 - Natural Resource and Environmental Economics
- 801 - Individual and Family Resource Management

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 2

1. Outcome Target

Direct and indirect contacts will make better, more informed, decisions.

2. Outcome Type : Change in Action Outcome Measure

2011:6500 2012:6500 2013:6500 2014:6500 2015:6500

3. Associated Knowledge Area(s)

- 601 - Economics of Agricultural Production and Farm Management
- 602 - Business Management, Finance, and Taxation
- 605 - Natural Resource and Environmental Economics
- 801 - Individual and Family Resource Management

4. Associated Institute Type(s)

- 1862 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Other (Participation of farmers in Asso)

Description

Profitability of the agricultural sector is generally always affected to some degree by these factors. However, a reluctance of farmers to voluntarily participate in the Farm Analysis program would greatly hamper the effectiveness of the program, especially in terms of provision of a 'real world' data base.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- During (during program)
- Other (Participant evaluation)

Description

Farm Analysis participants will be asked to evaluate the value of the Program and their Economist to the success of their farm operation on a three year basis. Questions will cover such areas as: improvement in overall decision making, aid with marketing issues, aid with tax issues, aid with estate planning issues, aid in understanding financial relationships, etc

2. Data Collection Methods

- Whole population
- Mail

Description

Members of all four Associations will be given the opportunity to provide their input with surveys every three years. Also, boards of directors of each Association will provide input relative to the performance of their Economist on a continuous and annual basis at the annual meetings.

V(A). Planned Program (Summary)

Program # 15

1. Name of the Planned Program

Aquaculture, freshwater, and marine resources

2. Brief summary about Planned Program

The aquaculture, freshwater and marine resources team is part of the National Agriculture base program area and is staffed with the state and area aquaculture and fisheries specialists. The mission of this program area is to provide extension programming and leadership in the broad area of water-related issues including conservation, recreation, aquaculture, and economic development. This program area team works inclusively with the Alabama Sea Grant Program, which focuses on marine resources and coastal issues.

The Team will develop and maintain extension programs in aquaculture production and management systems. Efforts in this area will be focused on improving profitability based on management practices that are sustainable, environmentally safe and responsible. The subject areas covered in this area of specialization include genetics, reproduction, nutrition, disease and health issues, economics and all types of regulatory issues. This area of specialization includes commercial production of all types of freshwater and marine species (catfish, tilapia, shrimp, oysters, aquatic plants, etc.).

In natural resources, team members will develop and maintain efforts in recreational pond management, sportfishing and other aquatic recreational activities, water quality protection and management, and conservation. These efforts will include both freshwater and marine systems. Team members will collaborate with other Extension Program Priority Teams to develop extension supporting sustainable economic development using aquatic resources or land-based resources within watersheds that protects and conserves water quality and system integrity. In collaboration with the Forestry and Natural Resources program priority team support will be provided for Alabama Water Watch, a volunteer water quality monitoring program. Regional Natural Resource Agents will work closely with the Area and State Specialists on this team to provide programming in recreational sportfish pond management.

Development of specific youth education efforts in aquaculture and aquatic ecology will continue to be a significant specific focus of this Team. Aquaculture curricula for K-12 schools will be supported by this team. Team members may also be involved in working with 4-H'ers in the Sportfishing or other natural resource programs.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
111	Conservation and Efficient Use of Water	5%	15%		
112	Watershed Protection and Management	10%	20%		
134	Outdoor Recreation	15%	20%		
135	Aquatic and Terrestrial Wildlife	10%	5%		
136	Conservation of Biological Diversity	5%	5%		
302	Nutrient Utilization in Animals	5%	0%		
303	Genetic Improvement of Animals	5%	0%		
307	Animal Management Systems	15%	0%		
311	Animal Diseases	10%	0%		
601	Economics of Agricultural Production and Farm Management	5%	0%		
605	Natural Resource and Environmental Economics	5%	5%		
806	Youth Development	10%	30%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)**1. Situation and priorities**

- Aquascience/aquaculture educational support

Aquascience/aquaculture programs in secondary schools have shown great promise in vocational training and training in science, math, and other technical areas. Current programs require ongoing support as new problems arise. Loss of trained teachers can lead to canceled programs so training of new teachers remains important. Extension can supply curricula and new tools such as online virtual participation to involve more students around the state.

- Recreational Fish Pond Management

With well over 50,000 private ponds in Alabama issues surrounding the construction, stocking, and management of recreational fishing ponds continues to be a strong need in Alabama. Pond issues often dominate the calls received by our natural resource agents. New research in pond enhancements and basic management such continues to develop. Changing regulations also impact this constituency. As a team we provide consultative services and proactive educational efforts and materials such as workshops, traditional resource booklets, web-based literature and video.

- Improving Bait Survival in Bait Shops

Live bait is often a limiting resource to anglers particularly in the marine areas. Bait in shops often suffers extreme mortality. More bait dies and discarded than sold live to anglers. This loss is mostly due to poor water quality and poor handling by shop owners. Our team can provide the training needed to greatly improve profitability which could open new markets for live bait producers.

- Coastal Resources

Coastal watersheds are both some of our most sensitive to human disturbance and in the most demand for development. The rate of construction in our 2 coastal counties is among the highest in the U.S. Non-point source pollution is strongly impacting coastal waters. Extension works to increase awareness of these issues through mass media, web resources, and workshops. Our team collaborates with Mississippi-Alabama Sea Grant, the Mobile Bay National Estuary Program, and others to facilitate integration of approached and activities.

Alabama has little in the way of mariculture. Development of an environmentally and economically sustainable

mariculture industry would provide a new source of economic development. Mariculture would help support a seafood processing industry threatened by declining commercial fisheries and reduced working water-front.

- Aquaculture

The production of channel catfish dominates the aquaculture industry in Alabama. This industry is in crisis due to competition from cheap imports, high feed and energy costs, and inefficient production systems. While Extension cannot solve all these issues, we can help producers adopt new efficient production systems /hybrids, diversify production to depend less on catfish, and help them better market products.

-Water resources

The waters of Alabama support both human use and also highest biodiversity in the U.S. Expanding development is causing water quality and quantity problems across the state. Our team supports educational activities and citizen volunteer groups (Alabama Water Watch) to increase awareness and help maintain critical water ways.

2. Scope of the Program

- In-State Extension
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

Assumptions for this program area are: 1) Aquaculture, Freshwater, and Marine Resources will continue to be an important components of Alabama's economy, and important areas within future Farm Bills; 2) The Alabama Department of Education will continue to support the inclusion of Aquaculture and Aquatic Sciences in its approved curricula; 3) Sustainable management of aquatic resources (including responsible development, conservation, and protection) will continue to be a priority of State and Federal agencies and the public; 4) There will continue to be new research-based information in the areas of Aquaculture, Freshwater, and Marine Resources from Auburn University, Alabama A&M University and other land-grant universities that will be beneficial to individuals and to society as a whole if it is implemented; 5) The Alabama Cooperative Extension System will continue to receive adequate Federal and state matching funds to support work in this priority program area, and will continue to fund state and regional specialist positions and regional extension agents who work exclusively in this priority area.

2. Ultimate goal(s) of this Program

The ultimate goals for this program area are to provide the information and education to the relevant groups such that

1. Water resources are used wisely.
2. Outdoor recreation in freshwater and marine environments is enhanced
3. Aquaculture remains a viable enterprise in Alabama and become more profitable in the future

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	8.0	0.0	0.0	0.0
2012	8.0	0.0	0.0	0.0
2013	8.0	0.0	0.0	0.0
2014	8.0	0.0	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2015	8.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

The primary activities in this area are associated with 5 statewide focus areas and general activities of our Program Area. These are:

Aquaculture/Aquascience Education designed to support school teachers, administrators and others to establish and improve aquaculture/aquatic science programs within Alabama schools.

maintain education section of www.alearn.info web site

Conduct over school visits

Conduct field days and exhibitions of aquaculture and its potential as a career

Provide intensive training for teachers from AL, GA, and CT on recirculating aquaculture systems as tool to teach math and science

Conduct activities and camps for students interested in fisheries, aquaculture and aquatic ecology

Support K-12 programs with fish, supplies and equipment with funded grants

Improving the Survival of Live Bait in Bait Shops designed to train bait dealers in the proper care of live bait (fish and shrimp) to the reduce mortality and increase profitability

Water quality training

Training in proper handling techniques

Management of recreational sportfishing ponds designed to provide training and support to pond owners

public workshops and presentations involving pond management

Newspaper articles, radio spots, and television appearances

Maintain pond management section of www.alearn.info web site

Conduct surveys of pond owners to provide feedback to extension

Weed and water quality analyses and recommendations

Coastal resources program designed to address environmental and economic issues in the coastal zone.

Support for the oyster gardening program

analysis of working waterfronts

educational support for the clean marina program

Maintenance of the Auburn University Marine Extension and Research Center web site

Aquaculture extension to increase the viability and profitability of producers.

Development of and multiple training sessions involving intensive aquaculture systems

Maintenance of the aquaculture portion of the www.alearn.info web site

Responses to fish kills in aquaculture

Provide reactive services

Provide economic analyses and projections to the industry

General Activities of this team:

Training of agents in basic fish biology

Cooperation and participation with other agencies concerning timely aquatic resource issues

Provide angler education presentations

Collaboration with Forestry and Natural Resources in support of the Alabama Water Watch volunteer water quality monitoring program

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations 	<ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites ● Other 1 (newspaper columns) ● Other 2 (Radio spots)

3. Description of targeted audience

While our activities potentially impact everyone given the importance of water and water management, our focused audiences include: highschool math and science teachers and students, fish bait producers and dealers, recreational anglers, commercial fishers, recreational fish pond owners, aquaculture producers, aquatic conservation organizations, 4Her's involved in aquatic programs.

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	10000	3000000	3500	0

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2012	10000	3000000	3500	0
2013	10000	3000000	3500	0
2014	10000	3000000	3500	0
2015	10000	3000000	3500	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	0	5	0
2012	0	5	0
2013	0	5	0
2014	0	5	0
2015	0	5	0

V(H). State Defined Outputs

1. Output Target

- pond management workshops

2011:5 2012:5 2013:5 2014:5 2015:5

- Aquaculture workshops

2011:3 2012:3 2013:3 2014:3 2015:3

- Number of teacher trainings

2011:4 2012:4 2013:4 2014:4 2015:4

- Number of visits to our extension website www.ALEARN.info

2011:70000 2012:70000 2013:70000 2014:70000 2015:70000

V(I). State Defined Outcome

O. No.	Outcome Name
1	Aquaculture/Aquascience Education Short-term * Improve attendance and performance of students in school * Increase appreciation of both aquaculture and aquatic natural resources by students and teachers Long-term * Increase graduation rates * Produce better trained labor for aquaculture
2	Improving the Survival of Live Bait in Bait Shops Short-term * Train bait dealer in basic water quality and proper handling techniques * Increase profitability of bait dealers
3	Management of recreational sportfishing ponds Short-term * Increase the understanding of pond function and management by owners Long-term * Reduce improper management by consultants * Increase satisfaction and enjoyment of ponds by owners * Increase profitability of pay-to-fish operations
4	Coastal resources program Short-term * Increase public awareness of coastal environmental issues * Increase public awareness of loss of working waterfront Long-term * Establish a viable mariculture industry in Alabama
5	Aquaculture Short-term * Increase the knowledge of producers in more efficient practices * Expand the use of hybrid catfish in production Long-term * Diversify species produced in Alabama * Improve marketing of Alabama aquaculture products * Cause a shift in the industry to more efficient intensive production methods
6	General Activities * Increase the public understanding of water conservation * Increase public appreciation for watershed and wetland conservation and management * Improve angler education to increase understanding of fisheries management and increase enjoyment of angling

Outcome # 1

1. Outcome Target

Aquaculture/Aquascience Education

Short-term

- * Improve attendance and performance of students in school
- * Increase appreciation of both aquaculture and aquatic natural resources by students and teachers

Long-term

- * Increase graduation rates
- * Produce better trained labor for aquaculture

2. Outcome Type : Change in Condition Outcome Measure

2011:0	2012:0	2013:0	2014:0	2015:0
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3. Associated Knowledge Area(s)

- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 2

1. Outcome Target

Improving the Survival of Live Bait in Bait Shops

Short-term

- * Train bait dealer in basic water quality and proper handling techniques
- * Increase profitability of bait dealers

2. Outcome Type : Change in Condition Outcome Measure

2011:0	2012:0	2013:0	2014:0	2015:0
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3. Associated Knowledge Area(s)

- 134 - Outdoor Recreation
- 307 - Animal Management Systems
- 311 - Animal Diseases

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 3

1. Outcome Target

Management of recreational sportfishing ponds

Short-term

- * Increase the understanding of pond function and management by owners

Long-term

- * Reduce improper management by consultants

- * Increase satisfaction and enjoyment of ponds by owners
- * Increase profitability of pay-to-fish operations

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 134 - Outdoor Recreation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 605 - Natural Resource and Environmental Economics

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 4

1. Outcome Target

Coastal resources program
Short-term

- * Increase public awareness of coastal environmental issues
- * Increase public awareness of loss of working waterfront

Long-term

- * Establish a viable mariculture industry in Alabama

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 112 - Watershed Protection and Management
- 134 - Outdoor Recreation
- 135 - Aquatic and Terrestrial Wildlife
- 136 - Conservation of Biological Diversity
- 302 - Nutrient Utilization in Animals
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 311 - Animal Diseases
- 601 - Economics of Agricultural Production and Farm Management
- 605 - Natural Resource and Environmental Economics

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

Outcome # 5

1. Outcome Target

Aquaculture

Short-term

- * Increase the knowledge of producers in more efficient practices
- * Expand the use of hybrid catfish in production

Long-term

- * Diversify species produced in Alabama
- * Improve marketing of Alabama aquaculture products
- * Cause a shift in the industry to more efficient intensive production methods

2. Outcome Type : Change in Condition Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 302 - Nutrient Utilization in Animals
- 303 - Genetic Improvement of Animals
- 307 - Animal Management Systems
- 311 - Animal Diseases
- 601 - Economics of Agricultural Production and Farm Management

4. Associated Institute Type(s)

- 1862 Extension

Outcome # 6

1. Outcome Target

General Activities

- * Increase the public understanding of water conservation
- * Increase public appreciation for watershed and wetland conservation and management
- * Improve angler education to increase understanding of fisheries management and increase enjoyment of angling

2. Outcome Type : Change in Knowledge Outcome Measure

2011:0 2012:0 2013:0 2014:0 2015:0

3. Associated Knowledge Area(s)

- 111 - Conservation and Efficient Use of Water
- 112 - Watershed Protection and Management
- 134 - Outdoor Recreation
- 135 - Aquatic and Terrestrial Wildlife
- 136 - Conservation of Biological Diversity
- 605 - Natural Resource and Environmental Economics
- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension
- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Other (competing imports for seafood)

Description

Water related natural extremes affects the particular interests and needs of the public. Drought, for example, initially increases interest in pond management but as it deepens it causes people to quit managing their ponds. The economy affects both funding for agents and specialists to travel and clients as well. Imported competing seafood can strongly influence the success of aquaculture independent of the efficiency of production

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Other (randomized survey)

Description

Depending on the particular part of our program area, different types of evaluation are planned. For several of our trainings and youth camps we will do before-after testing to determine increase in knowledge from the activity. We are currently conducting a statewide randomized pond owners survey to determine (in part) to what degree our pond program reaches the broader public of pond owners. Yield verification studies are planned to evaluate the transfer of technology in aquaculture. To evaluate the training of bait shop owners in improved handling of live bait, we will do a follow up evaluation of survival of bait (a direct measure of success) in bait shops compared to that before training.

2. Data Collection Methods

- Sampling
- Telephone
- On-Site
- Structured
- Observation
- Tests

Description

Where possible we will collect objective data (ie changes in production, survival of bait, etc.).In many cases it is not possible to collect the ultimate data needed to determine the impact we wish to make.For example, while students that take the high school aquaculture program may experience increased math scores on standardized tests that change cannot necessarily attributed to our program alone.Therefore we often can only measure short-term changes in knowledge followed by subjective assessments by the participants.

V(A). Planned Program (Summary)

Program # 16

1. Name of the Planned Program

Poultry Production and Processing

2. Brief summary about Planned Program

In this effort, we intend to provide technical information to poultry growers, poultry industry technical personnel and allied industry personnel associated with the State's poultry industry in the areas of poultry health, management and processing/food safety. In addition, we will provide information and training for backyard poultry producers and gamebird producers.

3. Program existence : Mature (More than five years)

4. Program duration : Long-Term (More than five years)

5. Expending formula funds or state-matching funds : Yes

6. Expending other than formula funds or state-matching funds : Yes

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
307	Animal Management Systems	25%	25%		
311	Animal Diseases	25%	25%		
403	Waste Disposal, Recycling, and Reuse	25%	25%		
601	Economics of Agricultural Production and Farm Management	25%	25%		
	Total	100%	100%		

V(C). Planned Program (Situation and Scope)

1. Situation and priorities

Alabama has a large and thriving poultry industry, consisting primarily of broiler and commercial egg production companies. This industry brings in approximately 60 percent of the State's farm income and employs thousands. A bulk of our efforts involve support of the production management, animal health, waste management concerns and economic factors associated with this industry. In addition, we provide similar support and materials to smaller producers that have backyard birds or raise gamebirds for hunting preserves.

2. Scope of the Program

- In-State Extension
- In-State Research
- Multistate Research
- Multistate Extension
- Integrated Research and Extension
- Multistate Integrated Research and Extension

V(D). Planned Program (Assumptions and Goals)

1. Assumptions made for the Program

We intend to support the State's poultry producers with programs and materials (publications) that improve efficiency of production and health. In a normal year, this will involve programs that we provide in a preplanned way. Occasionally, issues arise during the course of the year that cause us to shift our efforts and outputs for an indefinite period of time.

2. Ultimate goal(s) of this Program

The ultimate goals of this program are to guide poultry producers and poultry industry personnel in their management techniques such that they increase profitability in their operations, remain viable, protect bird health and food safety for consumers and manage waste properly. In addition, we will spend a portion of our time supporting the large number of backyard producers in Alabama as small flock ownership increases with a national trend toward backyard or small scale agriculture.

V(E). Planned Program (Inputs)

1. Estimated Number of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2011	5.0	0.0	0.0	0.0
2012	5.0	0.0	0.0	0.0
2013	5.0	0.0	0.0	0.0
2014	5.0	0.0	0.0	0.0
2015	5.0	0.0	0.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

Our activities include state and regional training seminars organized by both our extension group, the Alabama Poultry and Egg Association and the U.S. Poultry and Egg Association. In addition, we produce popular press materials in the form of Extension publications, Timely Information Sheets and articles in trade journals to disseminate materials to producers. We also provide direct service to poultry companies when asked to do some. This takes the form of site visits and phone consultations. We also participate in result demonstrations to test field techniques of interest to poultry producers.

2. Type(s) of methods to be used to reach direct and indirect contacts

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Workshop ● One-on-One Intervention 	<ul style="list-style-type: none"> ● Newsletters ● Other 1 (Popular Press Pubs) ● Other 2 (Extension pubs)

3. Description of targeted audience

Target audiences include;
Poultry growers (farmers)

Poultry industry technical personnel
 Allied industry support personnel
 ackyard poultry flock owners
 Gamebird (quail, pheasant, chukor) producers

V(G). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	5000	75000	250	0
2012	5000	75000	250	0
2013	5000	75000	250	0
2014	5000	75000	250	0
2015	0	0	0	0

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

2011:0 2012:0 2013:0 2014:0 2015:0

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	5	0	5
2012	5	0	5
2013	5	0	5
2014	5	0	5
2015	0	0	0

V(H). State Defined Outputs

1. Output Target

- Train poultry industry personnel through workshops

2011:800 2012:800 2013:800 2014:800 2015:0

- Produce popular press publications

2011:200 2012:100 2013:100 2014:100 2015:0

V(I). State Defined Outcome

O. No.	Outcome Name
1	Increase producer awareness of methods to reduce waste management issues on farm
2	Increase producer confidence in litter management techniques
3	Train poultry industry personnel in poultry house technology and management
4	initiate Master Poultryman Program for broiler growers

Outcome # 1

1. Outcome Target

Increase producer awareness of methods to reduce waste management issues on farm

2. Outcome Type : Change in Knowledge Outcome Measure

2011:20 2012:20 2013:20 2014:20 2015:0

3. Associated Knowledge Area(s)

- 307 - Animal Management Systems
- 403 - Waste Disposal, Recycling, and Reuse

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 2

1. Outcome Target

Increase producer confidence in litter management techniques

2. Outcome Type : Change in Action Outcome Measure

2011:5 2012:5 2013:5 2014:5 2015:0

3. Associated Knowledge Area(s)

- 307 - Animal Management Systems
- 311 - Animal Diseases
- 403 - Waste Disposal, Recycling, and Reuse
- 601 - Economics of Agricultural Production and Farm Management

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 3

1. Outcome Target

Train poultry industry personnel in poultry house technology and management

2. Outcome Type : Change in Knowledge Outcome Measure

2011:50 2012:50 2013:50 2014:50 2015:0

3. Associated Knowledge Area(s)

- 601 - Economics of Agricultural Production and Farm Management

4. Associated Institute Type(s)

- 1890 Extension

Outcome # 4

1. Outcome Target

initiate Master Poultryman Program for broiler growers

2. Outcome Type : Change in Knowledge Outcome Measure

2011:2	2012:2	2013:2	2014:2	2015:0
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3. Associated Knowledge Area(s)

- 307 - Animal Management Systems
- 311 - Animal Diseases
- 403 - Waste Disposal, Recycling, and Reuse
- 601 - Economics of Agricultural Production and Farm Management

4. Associated Institute Type(s)

- 1890 Extension

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Government Regulations

Description

Natural disasters such as an outbreak of Avian Influenza or Exotic Newcastle Disease could drastically alter how we spend our efforts associated with this program. Drought, which affects raw material availability and price, may necessitate a shift in efforts to help producers find alternative materials and/or techniques to maximize effectiveness.

V(K). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)

Description

We conclude all training workshops with a survey.

2. Data Collection Methods

- Whole population

Description

Surveys on attendee opinions on each workshop are compiled by the Alabama Poultry and Egg Association and are reviewed by the planning committee in reviewing which topics were effective and what attendees want to see in the next workshop. Decisions on the next workshop are based on input from the previous workshop and ideas from the committee.