

# 2012 Louisiana State University Combined Research and Extension Plan of Work

**Status: Accepted**  
**Date Accepted: 06/23/2011**

## I. Plan Overview

### 1. Brief Summary about Plan Of Work

The mission of the LSU Agricultural Center is to enhance the quality of life for the people of Louisiana through research and educational programs that develop the best use of natural resources, conserve and protect the environment, enhance the development of existing and new agricultural and related enterprises, and develop human and community resources. In order to accomplish this mission, Louisiana Agricultural Experiment Station scientists will continue to serve stakeholders by conducting relevant research and Louisiana Cooperative Extension Service faculty will continue to deliver high-quality research-based educational programs, all designed to address the issues of importance to the people of the state.

Limited resources at all levels will continue to make it increasingly difficult to maintain vital LSU AgCenter programs. It is likely that dollars available for extension and research programming will continue to decline, further threatening programs. Continued reduction in personnel coupled with reduced operating and travel budgets will mean that some programs may be eliminated, combined with others or drastically reduced. New ways of conducting business will become the norm to meet the ever-changing needs of our clients. Increased reliance on new technologies and tools such as social media, increased external funding and funding from local entities and even greater dependence on trained volunteers will become increasingly important as we attempt to continue to deliver quality programs.

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

Year	Extension		Research	
	1862	1890	1862	1890
2012	240.0	0.0	147.0	0.0
2013	235.0	0.0	145.0	0.0
2014	233.0	0.0	143.0	0.0
2015	230.0	0.0	141.0	0.0
2016	225.0	0.0	139.0	0.0

## II. Merit Review Process

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

- Internal University Panel
- External University Panel
- Combined External and Internal University Panel
- Expert Peer Review

## 2. Brief Explanation

During the next 5 years rigorous merit review of all programs will be critical as the LSU AgCenter continues to make every effort to insure it is conducting business in the most effective and efficient way possible. Comprehensive NIFA departmental reviews will continue to be held on a rotating basis. Peer reviews of proposed research activities of individual scientists will continue according to NIFA guidelines. Review comments will be solicited from peer scientists and state extension specialists, and the comments and a synthesis of recommendations will be provided to the originating scientist by administration. State-level commodity groups meet at least annually, and LAES and LCES faculty will continue to make presentations and receive comments/suggestions regarding future research and educational programming needs from these key groups. External extension advisory councils continue to validate LCES programs. Internal AgCenter Exchange (ACE) groups made up of multi-disciplinary faculty provide review and focusing of statewide research and extension efforts. Internal program reviews will continue to assess program effectiveness and establish program priorities.

## 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?

Both extension and research programs regarding critical issues of strategic importance are addressed after identification and prioritization by stakeholder groups and consideration by state-level extension specialists and research scientists. Following identification of the issue/problem, LSU AgCenter personnel coordinate efforts in a systematic way to address the need. At this stage parish-level extension agents then become the frontline educators, working through their parish stakeholder groups to plan, implement, and evaluate strategies for addressing the problems. Logic models are developed and constantly refined for all major program areas to insure that critical issues of strategic importance are appropriately addressed.

### 2. How will the planned programs address the needs of under-served and under-represented populations of the State(s)?

Extension and research faculty serve all of the people of Louisiana. Major emphasis is placed on publicizing all educational opportunities. On the parish level, stakeholders are reached through direct mail, telephone, electronic mail, radio, newspaper, and other mass media as well as through social media outlets such as Facebook, Twitter and blogs. Also, stakeholder advisory groups assist with pre-program publicity. Minority stakeholders are well-represented on advisory committees, and will continue to be important representatives of the community in all programming initiatives. A major effort is underway to address the particular needs of minority youth in the 4-H program, diversify youth development outreach and address issues regarding equity in access to extension programs. The LSU AgCenter has also been

involved in the SERA 37 project to better position ourselves to address the needs of the growing Hispanic population in the state. Community nutrition and parenting programs continue to target low income and underserved residents of the state.

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

Planned programs will describe short term learning outcomes, medium term behavior changes and longer term environmental, policy and societal outcomes based on the issue prompting the planned program. Additionally the benefit to the public, beyond program participants, must be clearly communicated as an impact of all programs. Description of these outcomes and impacts by both extension and research may be expressed in terms of economic benefits, change in quality of life and/or public value in addition to the basic knowledge gained, attitudes changed, skills acquired or behavior changed.

### **4. How will the planned programs result in improved program effectiveness and/or**

With limited resources, planned programs cannot afford to be anything but effective and efficient. Scaling back on program efforts by focusing on only those key issues identified by stakeholders for which the AgCenter has resources, will help to insure that only the most critical programs are conducted.

Using a logic model to guide the development and evaluation of program efforts, it is more likely that program effectiveness and efficiency will be achieved. By beginning the program planning process with the focus on the end result in mind, one is forced to "think backwards" to the various steps needed to accomplish this final goal. As one is required to "think backwards," one is much more deliberate about determining the requirements for reaching the goal, or solving the problem. This approach to programming invariably results in improved program effectiveness and/or efficiency. Programming in this manner by extension and research results in better use of time for both faculty and volunteers, and also serves as a blueprint for repeating the program. A concerted effort will be made to strengthen the evaluation elements of each program and the effective use of well-developed logic models dictates constant process evaluation to improve and expand program effectiveness and efficiency.

## **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
- Targeted invitation to selected individuals from general public
- Survey of traditional stakeholder groups
- Survey of traditional stakeholder individuals

**Brief explanation.**

Stakeholder input for the most part is accomplished through advisory committees thus making the issue-identification process virtually stakeholder-driven. To encourage stakeholder recruitment, extension and research faculty often use targeted invitations to both traditional and non-traditional stakeholder groups and individuals. Often mass media also is employed to seek additional advisory committee members. In some cases faculty conduct a survey of advisory committee members to better understand their needs from a recruitment standpoint. To encourage participation in the advisory committee meeting, faculty often have the committee elect officers, and allow them to conduct the committee meeting. In addition, extension and research faculty maintain very close working relationships with commodity groups and other community groups in an effort to engage them in this process. Stakeholders are engaged in not only the planning, but also the implementation and evaluation of program efforts. There will be a continued increase in the use of technology to engage stakeholders, especially using social media strategies such as Facebook, Twitter and blogs.

**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 External Focus Groups
- Open Listening Sessions
- Needs Assessments
- Use Surveys

**Brief explanation.**

Various methods are used to identify individuals and groups to have input into the programming process. One-on-one contact is an often-used means by extension and research of identifying individuals and groups which have interest and needs in keeping with programming. Advisory committee members are a great help in identifying other stakeholders. The key is insuring that the stakeholders who are included represent the total target population so that the needs of all can be considered. A concerted effort will be made to allow various individuals to participate in the process by rotating advisory committee members while maintaining equal representation of the target audience on the stakeholder committees.

**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 individuals

- Meeting with invited selected individuals from the general public
- Survey of selected individuals from the general public

**Brief explanation.**

Input is collected from stakeholder groups and individuals in through the advisory committee process for all key program areas, through external focus groups on various issues and by using various needs assessments and surveys. Advisory committee meetings with traditional and non-traditional stakeholder groups continue to be used most frequently. Surveys of both traditional and non-traditional stakeholder groups are being used more frequently to gather such input. Utilizing Web-based survey tools has become the method-of-choice to collect input from stakeholders who cannot always participate in meetings. Occasionally focus group meetings and meetings with key individuals in a community are used to garner input. The nominal group technique or some modified version thereof is typically used to identify and prioritize issues in advisory committee meetings.

**3. A statement of how the input will be considered**

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

**Brief explanation.**

The major means of utilizing stakeholder input is to assist faculty in identifying emerging issues and in helping to evaluate ongoing programs. Stakeholder advisory groups serve by helping to redirect extension programs and research projects when necessary. Prioritization of issues needing attention is a major role of advisory committees. Input from the parish (county) level is often directed to one or more state level faculty for their consideration. Also, state-level advisory groups provide input directly to state specialists, and this information then goes back to the parish groups for their consideration. In the current economic climate, stakeholder input is also being used to redirect program resources from programs having less impact to those with greater impact or impact potential.

**V. Planned Program Table of Content**

S. No.	PROGRAM NAME
1	Global Food Security and Hunger
2	Climate Change
3	Sustainable Energy
4	Childhood Obesity
5	Food Safety
6	Consumer Horticulture, Ornamentals & Turf
7	Family Development
8	Youth Development
9	Forestry and Forest Products
10	Community Development
11	Human Nutrition and Food
12	Family Resource Management

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

### **Program # 1**

#### **1. Name of the Planned Program**

Global Food Security and Hunger

#### **2. Brief summary about Planned Program**

Teaching agricultural producers in Louisiana to use emerging technologies to increase sustainability of production through increased efficiency and increased output is the goal of the LSU AgCenter's Global Food Security and Hunger program. Targeted in this initiative are the producers and agri-businesses associated with the production food and fiber in the state, primarily those in the areas of animal and animal production systems; crops and crop production systems; and aquaculture and fisheries.

The goals of the program are to continually improve adoption rates of recommended practices which contribute to the sustainability of food and fiber production. Clientele are primarily reached by producer meetings, result demonstrations, farm visits and through Web-based media and social media tools.

**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

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
102	Soil, Plant, Water, Nutrient Relationships	5%		5%	
201	Plant Genome, Genetics, and Genetic Mechanisms	0%		5%	
202	Plant Genetic Resources	0%		5%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	0%		5%	
204	Plant Product Quality and Utility (Preharvest)	5%		5%	
205	Plant Management Systems	25%		10%	
211	Insects, Mites, and Other Arthropods Affecting Plants	5%		5%	
212	Pathogens and Nematodes Affecting Plants	5%		10%	
213	Weeds Affecting Plants	5%		5%	
215	Biological Control of Pests Affecting Plants	5%		5%	
216	Integrated Pest Management Systems	5%		5%	
301	Reproductive Performance of Animals	5%		5%	
302	Nutrient Utilization in Animals	5%		5%	
303	Genetic Improvement of Animals	0%		5%	
307	Animal Management Systems	15%		10%	
311	Animal Diseases	5%		5%	
601	Economics of Agricultural Production and Farm Management	5%		5%	
704	Nutrition and Hunger in the Population	5%		0%	
	<b>Total</b>	100%		100%	

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

Louisiana's cropping systems pose agronomic, economic, and environmental challenges. Variable soils, climatic conditions, and pest pressures affect crop yield and input costs, and commodity price instabilities promote producer concerns about sustainability of agricultural enterprises. Major crops include corn, cotton, rice, grain sorghum, soybeans, sugarcane, sweet potatoes, and wheat. Research in variety development, plant nutrition, pest management, cultural practices, and farm management are necessary to sustain crop production as a viable economic industry. Extension outreach will include continued efforts in the Master Farmer Program and Pesticide Certification.



Poor economic conditions threaten sustainability of many Louisiana livestock operations. Moreover, Louisiana's hot, humid climate creates challenges of heat-stress, high parasite populations, poor reproduction, disease pressures, impaired water quality and low forage quality. Assessing animal adaptability and designing effective production systems that manage the relationships among genetics, physiology, nutrition, and environment are key concerns. Improving the safety, quality, functionality and consumer acceptance of animal products is an ongoing concern. Extension efforts will include continued efforts in the Master Cattle Producer Program.

Due to the state's high rate of poverty, many citizens do not have access to and/or consume nutritious foods. Poverty rates are higher among African Americans and children under 18. Louisiana ranks 13th among states for Food Stamp Program participation with approximately 74% of the state Food Stamp eligible. Only 25% Louisiana adults consume 5 servings of fruits and vegetables daily. Access to fresh fruits and vegetables is a concern for this population.

**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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
  - Resources and personnel will be available for continued research and extension effort on this topic.
  - Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
  - Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

The ultimate goals of the program are to continually improve adoption rates of recommended practices which contribute to the sustainability of food and fiber production and to educate limited resource populations on how to gain access to, prepare and consume healthy foods.

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

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

Year	Extension		Research	
		1862	1890	1862

Year	Extension		Research	
	1862	1890	1862	1890
2012	50.0	0.0	93.0	0.0
2013	48.0	0.0	90.0	0.0
2014	48.0	0.0	90.0	0.0
2015	48.0	0.0	90.0	0.0
2016	48.0	0.0	90.0	0.0

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

**1. Activity for the Program**

Specific subject matter areas included in this initiative are:

- Animals and animal production systems
- Crops and crop production systems
- Commercial fruit and vegetable production systems
- Aquaculture production systems and coastal fisheries
- Food insecurity and hunger

Activities include extension outreach using group and individual methods and mass media, research experiments; result demonstrations; and field days, all incorporating the latest technological advances and use of social media.

**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"> <li>• Education Class</li> <li>• Workshop</li> <li>• Group Discussion</li> <li>• One-on-One Intervention</li> <li>• Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>• Public Service Announcement</li> <li>• Newsletters</li> <li>• TV Media Programs</li> <li>• Web sites other than eXtension</li> <li>• Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

Livestock producers; row crop producers; crop consultants; commercial fruit and vegetable producers; agribusinesses; crawfish farmers; members of the coastal fishing sector; commercial and private pesticide applicators; consumers of food and fiber; and Louisiana families and individuals living in poverty.

## **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web page views
  - Number of Web page visits
  - Number of new pesticide certifications (private and commercial) issued
  - Number of pesticide applicator certifications (private and commercial) renewed
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Adoption of recommended practices by Louisiana livestock producers
2	Adoption of recommended practices by Louisiana row crop producers
3	Adoption of recommended practices by Louisiana commercial fruit and vegetable producers
4	Adoption of recommended practices by Louisiana aquaculture producers
5	Percentage of Louisiana individuals below poverty level who adopt 3 or more practices regarding the use of limited resources to prepare and consume healthier foods.

**Outcome # 1**

**1. Outcome Target**

Adoption of recommended practices by Louisiana livestock producers

**2. Outcome Type : Change in Action Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**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
- 601 - Economics of Agricultural Production and Farm Management

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 2**

**1. Outcome Target**

Adoption of recommended practices by Louisiana row crop producers

**2. Outcome Type : Change in Action Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 201 - Plant Genome, Genetics, and Genetic Mechanisms
- 202 - Plant Genetic Resources
- 203 - Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- 204 - Plant Product Quality and Utility (Preharvest)
- 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
- 601 - Economics of Agricultural Production and Farm Management

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 3**

**1. Outcome Target**

Adoption of recommended practices by Louisiana commercial fruit and vegetable producers

**2. Outcome Type : Change in Action Outcome Measure**

<b>2012:70</b>	<b>2013:70</b>	<b>2014:70</b>	<b>2015:70</b>	<b>2016:70</b>
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**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 201 - Plant Genome, Genetics, and Genetic Mechanisms
- 202 - Plant Genetic Resources
- 203 - Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- 204 - Plant Product Quality and Utility (Preharvest)
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 213 - Weeds Affecting Plants
- 216 - Integrated Pest Management Systems
- 601 - Economics of Agricultural Production and Farm Management

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 4**

**1. Outcome Target**

Adoption of recommended practices by Louisiana aquaculture producers

**2. Outcome Type : Change in Action Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**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
- 601 - Economics of Agricultural Production and Farm Management

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 5**

**1. Outcome Target**

Percentage of Louisiana individuals below poverty level who adopt 3 or more practices regarding the use of limited resources to prepare and consume healthier foods.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:40                      2013:40                      2014:40                      2015:40                      2016:40**

**3. Associated Knowledge Area(s)**

- 704 - Nutrition and Hunger in the Population

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Public Policy changes

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

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}



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

### **Program # 2**

#### **1. Name of the Planned Program**

Climate Change

#### **2. Brief summary about Planned Program**

The LSU AgCenter Research and Extension program strives to educate agricultural producers and others about the effective management and preservation of the state's abundant natural resources and environment through time-honored program delivery methods. Specific subject matter areas included in this initiative are:

- Animal waste handling and utilization
- Water quality
- Environment and natural resources
- Sustainable housing
- Wetland plants

**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	5%		15%	
112	Watershed Protection and Management	15%		0%	
132	Weather and Climate	10%		0%	
136	Conservation of Biological Diversity	5%		5%	
201	Plant Genome, Genetics, and Genetic Mechanisms	0%		15%	
202	Plant Genetic Resources	0%		5%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	0%		15%	
205	Plant Management Systems	35%		0%	
206	Basic Plant Biology	0%		15%	
403	Waste Disposal, Recycling, and Reuse	5%		20%	
404	Instrumentation and Control Systems	10%		10%	
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	15%		0%	
	<b>Total</b>	100%		100%	

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

## 1. Situation and priorities

Over 70 percent of LA's waterways are listed on EPA's 303d list as impaired and not suitable for fishing or swimming. Many of these impairments are thought to result from non-point pollution emanating from watershed land use practices such as agriculture, forestry, individual sewage treatment, home landscape and construction practices.

Animal waste handling and utilization presents a challenge to producers. While manure can be source of nutrients in agricultural operations, its delivery can be unreliable, potentially pollutant and often uneconomical for farmers. Louisiana waters are reported as impaired because of agricultural runoff. Methane, nutrients and pathogens released from manure are among the leading causes of environmental contamination. Improved manure handling and application methods need to be developed.

Wetland deterioration caused by climate change and/or human activities plagues the Northern Gulf of Mexico Basin, especially Louisiana. Louisiana's coastal plains are the largest expanse of wetlands in the contiguous United States & one of the world's most significant wetland areas. The long term social, environmental, and economic consequences of extensive wetland loss and sea level rise affect our nation's security & deprive individual states & the nation of wetland-related economic & environmental benefits.

The need for energy efficiency to reduce dependence on non-renewable energy, environmental preservation and pollution prevention, disaster mitigation, family health, safety and economic stability, and

state and community economic recovery are driving educational efforts in sustainable housing. Rising from the nation's and Louisiana's greatest natural disaster (hurricanes Katrina and Rita), the opportunity remains to rebuild sustainable homes that are not only stronger and safer, but also energy efficient, "green" and healthy. This produces an unprecedented chance to raise the bar of housing sustainability. The Louisiana House will continue to be used as a valuable teaching tool for both in-state and out-of-state visitors.

The well-being of Louisiana's citizens depend on its resource-based economy. Louisiana's natural capital assets must be efficiently managed for both current and future generations. Effective resource management implies more than utilization. It also calls for a careful analysis of resource allocation decisions made today and their current and future positive and negative impacts. While research and extension efforts related to natural resource conservation, use, and management have increased in recent years, efforts have been fragmented and widely dispersed. Improved coordination of these efforts is critical.

**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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior
  - Resources and personnel will be available for continued research and extension effort on this topic.
  - Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
  - Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

The ultimate goal of this program is to provide transformational education that is necessary to achieve sustainable management of the state's abundant natural resources and protect the environment.

**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
2012	25.0	0.0	8.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2013	25.0	0.0	7.0	0.0
2014	25.0	0.0	7.0	0.0
2015	25.0	0.0	7.0	0.0
2016	25.0	0.0	7.0	0.0

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

**1. Activity for the Program**

Specific subject matter areas and programs included in this initiative are:

- Animal waste handling and utilization
- Water quality
- Environment and natural resources
- Sustainable housing
- Wetland plants
- Louisiana Master Farmer Program

Activities include extension outreach using group and individual methods and mass media, research experiments; result demonstrations; and field days, all incorporating the latest technological advances and use of social media.

**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"> <li>• Education Class</li> <li>• Workshop</li> <li>• Group Discussion</li> <li>• One-on-One Intervention</li> <li>• Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>• Newsletters</li> <li>• TV Media Programs</li> <li>• Web sites other than eXtension</li> </ul>

**3. Description of targeted audience**

Coastal managers, Louisiana wetlands stakeholders, commercial and recreational fishermen, participants in the Louisiana Master Farmer and Master Cattle Producer programs, other agricultural producers, livestock producers and Louisiana homeowners, builders and retrofitters.

## **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web page views
  - Number of Web page visits
  - Number of individuals who toured LaHouse
  - Number of building professionals involved in LaHouse educational events
  - Number of consumers involved in LaHouse events
  - Average number of energy-saving measures adopted by consumer audiences
  - Average number of building practices adopted by building and retrofitting professionals.
  - Number of farmers certified through the Louisiana Master Farmer program
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Increased adoption of high performance building and retrofitting practices
2	Reduce the impact of animal waste on the environment
3	Increased adoption of recommended practices to reduce non-point source pollution in Louisiana waterways
4	Increased coordination of research and extension activities to address environment and natural resource concerns across the southeastern U.S.
5	Reduce coastal erosion through the establishment of viable wetland plants.
6	Determine ways to reduce the impact of animal waste on the environment through research discovery and development.

**Outcome # 1**

**1. Outcome Target**

Increased adoption of high performance building and retrofitting practices

**2. Outcome Type : Change in Action Outcome Measure**

**2012:50                      2013:50                      2014:50                      2015:50                      2016:50**

**3. Associated Knowledge Area(s)**

- 804 - Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 2**

**1. Outcome Target**

Reduce the impact of animal waste on the environment

**2. Outcome Type : Change in Condition Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**3. Associated Knowledge Area(s)**

- 112 - Watershed Protection and Management
- 403 - Waste Disposal, Recycling, and Reuse

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Increased adoption of recommended practices to reduce non-point source pollution in Louisiana waterways

**2. Outcome Type : Change in Action Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**3. Associated Knowledge Area(s)**

- 101 - Appraisal of Soil Resources
- 112 - Watershed Protection and Management
- 132 - Weather and Climate
- 205 - Plant Management Systems
- 403 - Waste Disposal, Recycling, and Reuse

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 4**

**1. Outcome Target**

Increased coordination of research and extension activities to address environment and natural resource concerns across the southeastern U.S.

**2. Outcome Type : Change in Condition Outcome Measure**

**2012:1                      2013:1                      2014:1                      2015:1                      2016:1**

**3. Associated Knowledge Area(s)**

- 112 - Watershed Protection and Management
- 132 - Weather and Climate

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 5**

**1. Outcome Target**

Reduce coastal erosion through the establishment of viable wetland plants.



**2. Outcome Type : Change in Condition Outcome Measure**

**2012:1                      2013:1                      2014:1                      2015:1                      2016:1**

**3. Associated Knowledge Area(s)**

- 101 - Appraisal of Soil Resources
- 112 - Watershed Protection and Management
- 132 - Weather and Climate
- 201 - Plant Genome, Genetics, and Genetic Mechanisms
- 205 - Plant Management Systems

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 6**

**1. Outcome Target**

Determine ways to reduce the impact of animal waste on the environment through research discovery and development.

**2. Outcome Type : Change in Condition Outcome Measure**

**2012:1                      2013:1                      2014:1                      2015:1                      2016:1**

**3. Associated Knowledge Area(s)**

- 112 - Watershed Protection and Management
- 403 - Waste Disposal, Recycling, and Reuse

**4. Associated Institute Type(s)**

- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

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

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

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 3**

**1. Name of the Planned Program**

Sustainable Energy

**2. Brief summary about Planned Program**

It is important that ag landowners, producers and managers understand their options for sustainable ways to grow biomass and how they can reduce their own energy needs through the use of more efficient technology and conservation. The LSU AgCenter Research and Extension program educates its clients about energy conservation and renewable energy use in agricultural production systems, homes, businesses, community buildings and schools. The overarching goal of this initiative is to assist agricultural producers in understanding how they can contribute to the nation's supply of biofuels by producing the biomass necessary to produce that fuel and to lead others in the adoption of new technologies that will reduce the demands on our current energy supply.

**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
402	Engineering Systems and Equipment	10%		20%	
403	Waste Disposal, Recycling, and Reuse	10%		10%	
511	New and Improved Non-Food Products and Processes	70%		60%	
512	Quality Maintenance in Storing and Marketing Non-Food Products	10%		10%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

The Energy Independence and Security Act of 2007 called for at least 12.95 billion gallons of renewable fuels to be used in the U.S. in 2010 and 36 billion gallons (16 billion gallons of cellulosic biofuel) by 2022. The recent USDA Roadmap on Biofuels calls for production of 13.4 billion gallons of advanced biofuels from grassy crops. The rapid expansion of the biofuel's industry has occurred as a result, for the most part, of this country's growing dependence of foreign oil.

Agriculture underlies the country's push to sustainable energy, yet agricultural feedstocks are available only in a fixed window in time. Flexibility in operation of a biorefinery requires continuous feedstock delivery. The technical hurdles that block biofuel production in Louisiana range from finding multiple feedstocks for year round delivery, developing the tools for producers and processors to determine value of these crops, developing processing technologies for biofuels and finding supplemental high value products to improve the economics.

Biofuels derived from plant biomass can contribute substantially to improving energy independence of the United States. Louisiana has a long growing season and high vegetation diversity that can foster biomass production to support a biofuel industry. Maximizing biomass production potential for the state necessitates identification of crops and cropping systems capable of producing high biomass in an economically viable and environmentally sustainable manner. Extension faculty in the W.A. Callegari Center will continue to educate clientele in the production and use of biodiesel as an alternative fuel.

**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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
  - Resources and personnel will be available for continued research and extension effort on this topic
  - Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
  - Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

The goals of this program are to educate ag producers who can contribute to the source of biomass to create biofuels and to educate consumers regarding the adoption of energy-saving and alternative energy technologies.

**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
2012	4.0	0.0	5.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2013	4.0	0.0	5.0	0.0
2014	4.0	0.0	5.0	0.0
2015	4.0	0.0	5.0	0.0
2016	4.0	0.0	5.0	0.0

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

**1. Activity for the Program**

Activity will include research and extension efforts regarding biofuel development using Louisiana-produced crops and the production and use of biodiesel as an alternative fuel.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

Louisiana agricultural producers, consumers, extension faculty and scientists.

## **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of ag producers providing biomass as feedstock for fuels
  - Number of workshops conducted
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

<b>O. No</b>	<b>Outcome Name</b>
1	Increased knowledge regarding the use of agricultural feedstocks to generate biofuels.
2	Identification of crops and cropping systems capable of producing biomass.

**Outcome # 1**

**1. Outcome Target**

Increased knowledge regarding the use of agricultural feedstocks to generate biofuels.

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2012:50</b>	<b>2013:50</b>	<b>2014:50</b>	<b>2015:50</b>	<b>2016:50</b>
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**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 511 - New and Improved Non-Food Products and Processes

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 2**

**1. Outcome Target**

Identification of crops and cropping systems capable of producing biomass.

**2. Outcome Type : Change in Knowledge Outcome Measure**

<b>2012:0</b>	<b>2013:0</b>	<b>2014:0</b>	<b>2015:0</b>	<b>2016:0</b>
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**3. Associated Knowledge Area(s)**

- 402 - Engineering Systems and Equipment
- 511 - New and Improved Non-Food Products and Processes

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy



- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 4**

**1. Name of the Planned Program**

Childhood Obesity

**2. Brief summary about Planned Program**

Louisiana school-aged youth will participate in the Extension Smart Bodies program which includes an innovative approach to teaching nutrition and physical activity by integrating the program into core curriculum academics to promote child wellness and healthy lifestyles. Parents will learn the importance of healthy eating habits in order to improve overall family health. Nutrition efforts which focus solely on adults are reported in the Human Nutrition and Food section of this report.

**Note: The target for this outcome has changed from the number of individuals to the percentage of adoption.**

**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**

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
702	Requirements and Function of Nutrients and Other Food Components	0%		100%	
703	Nutrition Education and Behavior	50%		0%	
724	Healthy Lifestyle	50%		0%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Louisiana ranks 5th (20.7%) in childhood obesity in the nation and 5th in adult obesity (30.6%). Food choices of LA children lead to these individual being overweight which predisposes them to increased rates for many diseases, including diabetes, heart disease, and respiratory diseases. Underpinning these statistics is poverty. Louisiana has the 2nd highest poverty rate nationally (19.6%). Greater than 26% of its children live in poverty, the 2nd highest rate in the nation and highest in the South.

**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**

Obesity is a complex problem requiring a multi-faceted approach. Achieving a healthy weight requires a lifelong commitment to change and adoption of recommended practices for healthy eating and physical activity. Environmental factors are not conducive to following a healthy lifestyle. Additional assumptions include:

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
- Resources and personnel will be available for continued research and extension effort on this topic.
- Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
- Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

The ultimate goal of this program is for youth to increase the amount of time they spend on physical activity by 5% over their baseline, for them to be introduced to 3 new fruits and 3 new vegetables and for them to include at least one new fruit and one new vegetable as a part of their regular diet.

**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
2012	8.0	0.0	2.0	0.0
2013	8.0	0.0	2.0	0.0
2014	8.0	0.0	2.0	0.0
2015	8.0	0.0	2.0	0.0
2016	8.0	0.0	2.0	0.0

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

**1. Activity for the Program**

Smart Bodies is an innovative program of nutrition and physical activities that is integrated into core curriculum academics to promote child wellness. Smart Bodies consists of three components: Body Walk,

the OrganWise Guys (OWG), and Take 10! **Body Walk** Students explore the brain, mouth, stomach, small intestines, heart, lungs, muscles, bones, and skin stopping at learning stations to participate in interactive activities focused on the effects that the food has on each organ. **The OWG** are fun characters that help children understand physiology and healthy behaviors through books, games, dolls and informational videos. **The Take 10! Classroom Program** is a grade-specific educational tool that encourages short bouts of physical activity integrated with academic lessons. Parent newsletters are monthly themed and include tips for incorporating physical activity into family life and kid-friendly, low-cost recipes emphasizing fruits and vegetables.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

The target audience includes public and private elementary schools in Louisiana and their students in grades K-5 with emphasis on limited income youth. Participating schools' administrators, faculty, and parents are served indirectly through the program by receiving monthly newsletters, Body Walk activity books, and the OrganWise Guys and Take 10! curricula. Parents have the opportunity to volunteer and participate in the Body Walk when it visits their child's school.

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

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
  - Direct Adult Contacts
  - Indirect Adult Contacts
  - Direct Youth Contacts
  - Indirect Youth Contact
- Number of patents submitted
- Number of peer reviewed publications

Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web page views
- Number of Web page visits
- Number of youth reached with Smart Bodies Program
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Louisiana youth and their caregivers adopt healthy lifestyle behaviors which will lead to reduced incidence of childhood obesity.

**Outcome # 1**

**1. Outcome Target**

Louisiana youth and their caregivers adopt healthy lifestyle behaviors which will lead to reduced incidence of childhood obesity.

**2. Outcome Type : Change in Action Outcome Measure**

<b>2012:50</b>	<b>2013:50</b>	<b>2014:50</b>	<b>2015:50</b>	<b>2016:50</b>
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**3. Associated Knowledge Area(s)**

- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**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**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 5**

**1. Name of the Planned Program**

Food Safety

**2. Brief summary about Planned Program**

The LSU AgCenter extension and research team works with food consumers to increase their knowledge of proper food selection, storage and preparation. This work is particularly important to low income families. Additionally, education of food producers, small food businesses and food handlers is critical to insuring a safe and secure food supply. The AgCenter plays a key role in providing training necessary for food safety certifications.

**Note: Outcome target has changed to a percent increase in knowledge.**

**3. Program existence :** Mature (More then 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
504	Home and Commercial Food Service	45%		0%	
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	10%		20%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	10%		50%	
723	Hazards to Human Health and Safety	35%		20%	
724	Healthy Lifestyle	0%		10%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Louisiana is subjected to violent weather events due to its close proximity to the coast. These events create power outages and flooding. This leads to increased opportunities for food borne illnesses especially in Louisiana's hot humid climate. Louisiana is a state that holds many warm weather festivals result can result in an increased likelihood of food safety issues. In Louisiana between 1980 and 2006 there were 182 outbreaks of food poisoning which is approximately 13.3 a year. The state also has a



passive surveillance reporting system for food borne illnesses and these numbers are probably low due to unreported food borne illnesses. Louisiana also has a large proportion of susceptible populations such as the elderly and economically challenged individuals: these individuals are least likely to seek care when experiencing food-borne illnesses and thus more likely to have more serious reactions to food poisoning. Research indicates that handling food correctly can prevent 90 to 95% of food borne illnesses. The need to develop a crisis communication response plan for the U. S. Sweet Potato Industry was identified.

Commercial processors of seafood, meat, poultry, and juice are required to be certified in principles of HACCP (Hazard Analysis and Critical Control Point). Companies, such as Wal-Mart, are requiring HACCP. Small companies and start-ups need help in meeting these requirements. Oyster companies that use a post-harvest treatment are required by the FDA to validate if their treatments adequately reduced Vibrio's in oysters. Seafood safety concerns, exacerbated throughout the U.S. following the 2010 Gulf oil spill, still exist.

## **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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
- Resources and personnel will be available for continued research and extension effort on this topic.
- Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
- Expanded knowledge will result in behavior change.

### **2. Ultimate goal(s) of this Program**

The ultimate goal of this program is to continually increase the adoption rate of safe food preparation and handling practices by clientele including commercial and non-commercial food- handlers, cooks and processors.

## **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
2012	2.0	0.0	4.0	0.0
2013	2.0	0.0	4.0	0.0
2014	2.0	0.0	4.0	0.0
2015	2.0	0.0	4.0	0.0
2016	2.0	0.0	4.0	0.0

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

**1. Activity for the Program**

Appropriate extension and research including result demonstrations, workshops, classes, certification programs, studies and effective use of a variety of media sources to address food safety-related issues.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

Consumers, commercial seafood processors, children and food handlers including restaurateurs and food vendors

## **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of individuals who received seafood, meat and poultry HACCP training
  - Number of individuals who received ServSafe training
  - Number of individuals who received Sanitation Control Protocol training
  - Number of individuals who received Better Process Control School training for canned and acidified foods
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Increase awareness, knowledge and/or skills regarding safe food handling and preparation by both commercial and non-commercial entities.
2	Identify ways to minimize food safety threats related to Louisiana-produced food products through research.

**Outcome # 1**

**1. Outcome Target**

Increase awareness, knowledge and/or skills regarding safe food handling and preparation by both commercial and non-commercial entities.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**3. Associated Knowledge Area(s)**

- 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
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 2**

**1. Outcome Target**

Identify ways to minimize food safety threats related to Louisiana-produced food products through research.

**2. Outcome Type : Change in Condition Outcome Measure**

**2012:0                      2013:0                      2014:0                      2015:0                      2016:0**

**3. Associated Knowledge Area(s)**

- 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
- 723 - Hazards to Human Health and Safety
- 724 - Healthy Lifestyle

#### **4. Associated Institute Type(s)**

- 1862 Research

### **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 Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

#### **Description**

{NO DATA ENTERED}

### **V(K). Planned Program - Planned Evaluation Studies**

#### **Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 6**

**1. Name of the Planned Program**

Consumer Horticulture, Ornamentals & Turf

**2. Brief summary about Planned Program**

AgCenter extension and research programs in horticulture focus on two distinct clientele: horticulture professionals and the consumer. The key in this effort is to provide timely, relevant, up-to-date, research-based, and environmentally friendly information to both clientele groups. Clientele are reached through education classes, workshops, one-on-one contact, newsletters, and mass media. The AgCenter web site is well-used by the consumer audience. Louisiana Master Gardeners continue to extend extension's outreach to clients. The LCES School Gardens initiative will expand.

**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
202	Plant Genetic Resources	5%		20%	
204	Plant Product Quality and Utility (Preharvest)	5%		20%	
205	Plant Management Systems	80%		40%	
213	Weeds Affecting Plants	10%		20%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Horticulture professionals seek to improve production efficiency, enhance marketing potential and reduce environmental impact associated with pesticide and fertilizer use. Home gardeners require information in the areas of species and cultivar selection, weed management and cultural practice improvements. Producers of bedding plants, landscapers and consumers encounter disposal issues with petroleum-based plastic containers once the plants are removed at transplanting. Container media availability and functionality were problems for nursery growers. Louisiana retail garden centers desired an ornamental plant promotion program.

Reduced personnel resources coupled with increased interest in consumer horticulture, home

gardening and home grounds has exacerbated the need for trained volunteers to assist in the delivery of quality educational horticulture programs. The Louisiana Master Gardener (LMG) program will continue to serve as a valuable resource in meeting this demand.

**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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
  - Resources and personnel will be available for continued research and extension effort on this topic.
  - Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
  - Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

- Commercial producers to maintain profitable enterprises in an environmentally-safe manner.
- Consumers to adopt recommended practices that improve home grounds and protect the environment.

**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
2012	13.0	0.0	5.0	0.0
2013	13.0	0.0	4.0	0.0
2014	13.0	0.0	4.0	0.0
2015	13.0	0.0	4.0	0.0
2016	13.0	0.0	4.0	0.0

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



**1. Activity for the Program**

Activity included appropriate extension and research activities such as result demonstrations, volunteer training, field days, studies, individual consultations, group meetings, mass media, publication development and extensive use of Web technology and social media outlets to reach target 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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media (blogs, etc.))</li> </ul>

**3. Description of targeted audience**

Horticulture professionals, home gardeners, nursery growers, Louisiana Master Gardener Volunteers, K-12 schools with gardens and related agribusiness clientele

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

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
  - Direct Adult Contacts
  - Indirect Adult Contacts
  - Direct Youth Contacts
  - Indirect Youth Contact
- Number of patents submitted
- Number of peer reviewed publications

Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web page views
  - Number of Web page visits
  - Number of Louisiana Master Gardeners completing training series
  - Number of service hours contributed by all Louisiana Master Gardeners
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Percentage of clientele adopting recommended practices
2	Louisiana Master Gardener volunteers supplement the delivery of consumer horticulture program to clients.

**Outcome # 1**

**1. Outcome Target**

Percentage of clientele adopting recommended practices

**2. Outcome Type : Change in Action Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**3. Associated Knowledge Area(s)**

- 202 - Plant Genetic Resources
- 204 - Plant Product Quality and Utility (Preharvest)
- 205 - Plant Management Systems
- 213 - Weeds Affecting Plants

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 2**

**1. Outcome Target**

Louisiana Master Gardener volunteers supplement the delivery of consumer horticulture program to clients.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:30                      2013:30                      2014:30                      2015:30                      2016:30**

**3. Associated Knowledge Area(s)**

- 205 - Plant Management Systems

**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
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 7**

**1. Name of the Planned Program**

Family Development

**2. Brief summary about Planned Program**

Research-based information in the family development area includes early childhood programs, and parenting classes. Too many Louisianans are experiencing social and emotional crises because of continued disaster recovery (Hurricanes Katrina, Ike and Rita and the 2010 Gulf oil spill) and economic conditions of the state--all resulting in reduced resources. Workshops and educational classes are especially effective in working with this clientele. Goals include teaching effective parenting skills, educating caregivers and child care providers and where and how to find reputable community resources. Strengthening families in Louisiana is critical, especially during stressful times.

**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	0%		30%	
610	Domestic Policy Analysis	0%		30%	
611	Foreign Policy and Programs	0%		20%	
801	Individual and Family Resource Management	10%		0%	
802	Human Development and Family Well-Being	90%		20%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Too many individuals and families are experiencing social and emotional crisis because of disasters, over 365,000 individuals in Louisiana were left homeless after recent hurricanes. Recovery is slow and stressful. Louisiana unemployment rates, particularly in rural areas, exceed national averages also causing stress. The Gulf oil spill of April 2010 added to the stress of the coastal families affected by the most recent disaster. Family life changes occurring in society at present pose special problems for family

members affecting their ability to handle stress and crises. The large number of children enrolled in child care facilities indicates considerable resources should be invested in making sure that care givers in these institutions provide quality care enhancing the development of children and preparing them for success in school. Brain development research supports the importance in the child care and the family environment of positive early experiences that enhance children's brain development. Collaboratives can offer the possibility of uniting communities to address the needs of families in an efficient and inclusive manner.

## **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**

- Family members learn skills to improve family resiliency.
  - Families use skills which lead to improved family resiliency
  - Community collaborative(s) formed to more effectively meet the needs of families and children.
  - Families learn about resources provided by provided by community collaboration.
  - Families use resources provided by community collaborative.
  - Parents/guardians learn positive parenting practices.
  - Early childhood educators (ECEs) learn the importance of providing developmentally appropriate experiences for children and youth.
    - Parents implement positive parenting practices.
    - Early childhood educators (ECEs) incorporate developmentally appropriate experiences for children and youth.
    - Early childhood educators (ECEs) provide high quality care for children and youth.
- Additional assumptions include:

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
- Resources and personnel will be available for continued research and extension effort on this topic.
- Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
- Expanded knowledge will result in behavior change.

### **2. Ultimate goal(s) of this Program**

Promote family resiliency, build family-related collaboratives in the community, and educate parents and early childhood educators regarding developmentally-appropriate practices for children.

## **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
2012	12.0	0.0	1.0	0.0
2013	12.0	0.0	1.0	0.0
2014	12.0	0.0	1.0	0.0
2015	12.0	0.0	1.0	0.0
2016	12.0	0.0	1.0	0.0

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

**1. Activity for the Program**

Appropriate extension and research activities focused on training childcare providers, improving parenting skills and helping families cope with crises. Methods included workshops, classes, and effective use of social media and mass media.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

General public including low income families, the elderly, youth, early childhood educators, parents/guardians/caregivers/, employers, business owners and the incarcerated.

Community leaders including educators, elected officials, AgCenter faculty, AgCenter partners, gatekeepers, local government, media representatives, policymakers, and master volunteers.



## **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web site page views
  - Number of Web page visits
  - Number of child care provider certificates issues
  - Number of child care provider trainings conducted
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Parents adopt positive parenting practices
2	Early childhood educators provide developmentally appropriate experiences.
3	Increased family resiliency in response to long-term stress and crisis

**Outcome # 1**

**1. Outcome Target**

Parents adopt positive parenting practices

**2. Outcome Type : Change in Action Outcome Measure**

**2012:50                      2013:50                      2014:50                      2015:50                      2016:50**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 2**

**1. Outcome Target**

Early childhood educators provide developmentally appropriate experiences.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:30                      2013:30                      2014:30                      2015:30                      2016:30**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**Outcome # 3**

**1. Outcome Target**

Increased family resiliency in response to long-term stress and crisis

**2. Outcome Type : Change in Action Outcome Measure**

**2012:50**

**2013:50**

**2014:50**

**2015:50**

**2016:50**

**3. Associated Knowledge Area(s)**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

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

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 8**

**1. Name of the Planned Program**

Youth Development

**2. Brief summary about Planned Program**

The focus of the Louisiana 4-H Youth Development program will continue to be on citizenship, healthy living and SET (Science, Engineering & Technology). In this state, 4-H continues to offer a broad range of learning opportunities for youth, including but not limited to traditional school club programs, school enrichment activities and community service learning. Delivery of educational programs other than in-school clubs will be emphasized. Youth will be guided in developing skills which result in effective decision-making, planning, and interacting with others.

**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
610	Domestic Policy Analysis	0%		70%	
724	Healthy Lifestyle	10%		0%	
806	Youth Development	90%		30%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Through educational programs delivered in organized clubs, special interest groups, after- school programs, school enrichment and other delivery methods, Louisiana 4-H offers a broad range of opportunities to develop life skills and leadership potential. Through these educational opportunities, youth become positive, productive, and capable citizens of their communities. Community, state, and national assessments through an advisory process facilitate providing meaningful, in-depth, quality program. Resources are allocated to areas where needs and potential for benefit can be maximized. Focus will be on Citizenship, Healthy Living and Science & Technology.

According to KIDS COUNT, Louisiana has ranked 49th in the nation on childhood health and well-being since 2002. A Pennington Biomedical Research Center study reported more than 47% of Louisiana children, ages of 2 -19, are overweight or obese. Louisiana received a D on the Report Card on Physical Activity and Health for Children and Youth. Most of the effort in this area will be reported under the NIFA

Childhood Obesity initiative area. Also, from 1995-2003, over 400,000 youth under 20 years of age across the country were injured in ATV crashes and treated for nonfatal injuries.

With national volunteer rates going up (26.8%), only 20% of Louisiana citizens volunteer leading to a rank of 47th in nation. While youth and adult volunteers are serving to make a difference, there remains an unclear yet blatant sense among most that volunteer efforts matter little to the civic life and health of communities. Americans express despair over the drift away from core civic values to emphasize "winning at all costs." Greed and selfishness eclipse family, community, and responsibility.

America faces a crisis in its ability to keep up with the increasing demand for professionals in science, engineering and technology (SET). Youth in Louisiana are ill-prepared to enter careers in SET. In Louisiana, the percentages of 4th graders with below basic test scores were: Basic Math-28%; Science-43% and Reading-48%. The percentages of 8th graders with below basic test scores were: Basic Math-38%; Science-53% and Reading-36%. Less than half (44%) of youth had computers in their home.

**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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
- Resources and personnel will be available for continued research and extension effort on this topic.
- Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
- Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

The Louisiana 4-H program will provide a mix of new and traditional programming emphasizing community service learning, science and technology and healthy living.

**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
2012	90.0	0.0	0.0	0.0
2013	90.0	0.0	0.0	0.0
2014	90.0	0.0	0.0	0.0
2015	90.0	0.0	0.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2016	90.0	0.0	0.0	0.0

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

**1. Activity for the Program**

Age appropriate educational experiences will be provided to youth in the following three focus areas: Citizenship, Healthy Living and Science and Technology.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

Louisiana youth ages 9-19 as well as youth and adult volunteers.

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

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
  - Direct Adult Contacts
  - Indirect Adult Contacts
  - Direct Youth Contacts
  - Indirect Youth Contact
- Number of patents submitted
- Number of peer reviewed publications

Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Youth reached
  - Number of Web page views
  - Number of Web page visits
  - Number of youth participating in service projects
  - Number of hours of service performed by youth
  - Number of teens serving on state leadership boards
  - Number of current NIFA 4-H Programs of Distinction designations
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.



**V(I). State Defined Outcome**

O. No	Outcome Name
1	Youth develop and strengthen skills which promote healthy living.
2	Percentage of youth who increase scientific and technology literacy through hands-on scientific learning and discovery.
3	Youth are engaged as contributing citizens within their community.

**Outcome # 1**

**1. Outcome Target**

Youth develop and strengthen skills which promote healthy living.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:60                      2013:60                      2014:60                      2015:60                      2016:60**

**3. Associated Knowledge Area(s)**

- 724 - Healthy Lifestyle
- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Percentage of youth who increase scientific and technology literacy through hands-on scientific learning and discovery.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:60                      2013:60                      2014:60                      2015:60                      2016:60**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 3**

**1. Outcome Target**

Youth are engaged as contributing citizens within their community.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:50**

**2013:50**

**2014:50**

**2015:50**

**2016:50**

**3. Associated Knowledge Area(s)**

- 806 - Youth Development

**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
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}

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

**Program # 9**

**1. Name of the Planned Program**

Forestry and Forest Products

**2. Brief summary about Planned Program**

Managing and sustaining forest resources and their products is extremely important to Louisiana's economy. A better understanding of the biology and ecology of forest ecosystems and the techniques necessary to improve and regenerate forest stands will benefit landowners and companies involved in these enterprises. Additionally, developing and marketing of new and improved wood products to increase forest resource value and provide more efficiently for consumer needs will stimulate economic development. Methods of dissemination of educational materials include landowner meetings, workshops, newsletters, conventional mass media, and an increasing use of the AgCenter web site. Further education will continue to be accomplished through the Master Logger and Master Tree Farmer Certification Programs. The overall aim of the program is to assist clientele in decision making regarding research-based, sustained management and use of forest resources and their products.

**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	5%		10%	
112	Watershed Protection and Management	5%		5%	
123	Management and Sustainability of Forest Resources	70%		35%	
135	Aquatic and Terrestrial Wildlife	15%		20%	
403	Waste Disposal, Recycling, and Reuse	5%		10%	
511	New and Improved Non-Food Products and Processes	0%		20%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

The southern U.S., including Louisiana, supports the most productive forestlands in the world. They provide many goods and services from water and air filtration, to employment opportunities, to wood

products, to recreational activities. However, societal and demographic changes, global competition, invasive species, land management shifts, urbanization and parcelization threaten the sustainability of these forests. Research and education is needed to identify both the benefits and threats to southern forest sustainability and to more clearly identify problems and potential solutions. In Louisiana, protection, management and utilization of coastal wetland forests, bottomland hardwood forests, and upland pine forests are all important.

Management effects on hydrology and water quality and their reciprocal effects on forests, degradation of coastal forests and restoration tools and incentives, and long term forest productivity remain concerns. Mills have closed from depressed housing markets. There are needs to improve processing production and efficiency, recycling, marketing and worker safety. Both managers and loggers seek continuing education from the LSU AgCenter forestry faculty.

**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**

- The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
- Resources and personnel will be available for continued research and extension effort on this topic.
- Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
- Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

Provide knowledge and expertise that assists the clientele to make wise decisions concerning sustained use of forest resources and provide knowledge and expertise to restore forest systems. Stakeholders use research-based information to improve management and sustainability of forest resources.

**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
2012	5.0	0.0	8.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2013	5.0	0.0	8.0	0.0
2014	5.0	0.0	8.0	0.0
2015	5.0	0.0	8.0	0.0
2016	5.0	0.0	8.0	0.0

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

**1. Activity for the Program**

Extension outreach efforts including workshops, result demonstrations, and individual consultations as appropriate; research experiments; publication development

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

Forest landowners, managers and loggers; arborists; participants in Master Logger Program and Master Tree Farmer Program.

### **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

### **V(H). State Defined Outputs**

#### **1. Output Measure**

- Number of Web page views
  - Number of Web page visits
  - Number of Master Tree Farmers and Master Loggers certified
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Percentage of clientele adopting recommended practices



**Outcome # 1**

**1. Outcome Target**

Percentage of clientele adopting recommended practices

**2. Outcome Type : Change in Action Outcome Measure**

**2012:65                      2013:65                      2014:65                      2015:65                      2016:65**

**3. Associated Knowledge Area(s)**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 112 - Watershed Protection and Management
- 123 - Management and Sustainability of Forest Resources
- 135 - Aquatic and Terrestrial Wildlife
- 403 - Waste Disposal, Recycling, and Reuse
- 511 - New and Improved Non-Food Products and Processes

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**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**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}



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

**Program # 10**

**1. Name of the Planned Program**

Community Development

**2. Brief summary about Planned Program**

Education is the key to breaking the poverty cycle in Louisiana, and research-based programs by community rural development (CRD) are offered to residents. CRD programs are comprehensive and accessible. Educational programs are centered around decision-making, leadership, rural entrepreneurship, and governance of community boards, such as rural hospitals, chambers of commerce, etc. The aims of the program are to assist sustainable rural development and to build the capability of the rural residents to make a positive difference in their communities, both presently and in the future. Educational programming is disseminated primarily by community group meetings, one-on-one dialogue, and small meeting presentations. Agritourism, the Rural Broadband Initiative and eCommerce are key initiatives in the state.

**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
610	Domestic Policy Analysis	0%		15%	
721	Insects and Other Pests Affecting Humans	10%		45%	
722	Zoonotic Diseases and Parasites Affecting Humans	0%		15%	
802	Human Development and Family Well-Being	0%		5%	
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	55%		5%	
903	Communication, Education, and Information Delivery	35%		15%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Persistent poverty is the greatest barrier to economic development in Louisiana communities. The

poverty rate in Louisiana is 7 percent higher than other states in the U.S. (19.6 compared to 12.4 percent), and rural poverty in Louisiana continues to be more severe than urban (24.2 compared to 18.1percent). According to the United States Department of Agriculture, twenty-four of sixty-four (or 38 percent) of rural parishes are considered 'persistent poverty' parishes, which means 20 percent or more of the population fell below the poverty line in 1970, 1980, 1990 and 2000 (as measured by the Census of Population Housing).

Although poverty is a complex phenomenon, research suggests education is the key to breaking the persistent poverty cycle. In rural Louisiana, community rural development (CRD) educational programs are offered to residents. CRD programs are comprehensive, practical and accessible. Currently, CRD educational programs aim to improve the decision making skills of rural residents in four priority areas: (1) workforce development; (2) leadership; (3) rural business and agribusiness entrepreneurship; and (4) governance and management of rural community boards (e.g., rural hospitals, agricultural cooperatives, chambers of commerce). These programs are being delivered through the innovative network among centers and academic groups, including: the LSU Agricultural Center, the Louisiana Center for Rural Initiatives, the Delta Rural Development Center and the Department of Agricultural Economics and Agribusiness at Louisiana State University

## **2. Scope of the Program**

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

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

### **1. Assumptions made for the Program**

- Information exists on researched-based best practices on how to educate rural residents concerning workforce development, rural business and agribusiness entrepreneurship, leadership and rural governance of community boards;
  - Rural community leaders, businesses and other stakeholders need access to CRD educational programs but do not have adequate resources to gain access;
  - Rural stakeholders value access to CRD programs; and
  - Funding will be secure, sufficient and steady throughout the course of CRD program production and delivery through the Louisiana Center for Rural Initiatives and the Delta Rural Development Center.

### **2. Ultimate goal(s) of this Program**

- Goal 1: Foster sustainable rural development.
- Objective 1: Promote value-added agriculture and agri-tourism.
- Objective 2: Promote rural tourism.
- Objective 3: Provide educational programming in entrepreneurship and workforce development.
- Objective 4: Implement broadband initiative in Delta region.

- Goal 2: Build the capacity of local citizens to be key players in the future of their communities.
- Objective 1: Increase individual and organizational leadership skills in communities.
- Objective 2: Increase widespread participation in community decision making.

**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
2012	4.0	0.0	4.0	0.0
2013	4.0	0.0	4.0	0.0
2014	4.0	0.0	4.0	0.0
2015	4.0	0.0	4.0	0.0
2016	4.0	0.0	4.0	0.0

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

**1. Activity for the Program**

Extension and research activities designed to reduce persistent poverty through entrepreneurship, agribusiness development, leadership and broadband educational programs. Louisiana Center for Rural Initiatives established. Additional external funding sought to support initiative.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

General public, elected officials, small business owners & governmental agencies, primarily in the Delta region of the state or northeast Louisiana.

### **V(G). Planned Program (Outputs)**

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
    - Direct Adult Contacts
    - Indirect Adult Contacts
    - Direct Youth Contacts
    - Indirect Youth Contact
  - Number of patents submitted
  - Number of peer reviewed publications
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

### **V(H). State Defined Outputs**

#### **1. Output Measure**

- Number of Web page views
  - Number of Web page visits
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Entrepreneurs and community leaders gain knowledge of sustainable economic development strategies in relationship to operating an e-business and leadership.

**Outcome # 1**

**1. Outcome Target**

Entrepreneurs and community leaders gain knowledge of sustainable economic development strategies in relationship to operating an e-business and leadership.

**2. Outcome Type : Change in Knowledge Outcome Measure**

**2012:0                      2013:0                      2014:0                      2015:0                      2016:0**

**3. Associated Knowledge Area(s)**

- 610 - Domestic Policy Analysis
- 721 - Insects and Other Pests Affecting Humans
- 722 - Zoonotic Diseases and Parasites Affecting Humans
- 802 - Human Development and Family Well-Being
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 903 - Communication, Education, and Information Delivery

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

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

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**





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

**Program # 11**

**1. Name of the Planned Program**

Human Nutrition and Food

**2. Brief summary about Planned Program**

Obesity and improper weight management are the leading causes of preventable death in the U.S. Heart disease, diabetes, cancer, and stroke are all linked to this widespread problem. Participants in weight-related, research-based educational programs will improve their knowledge and thus be encouraged to change their behavior in both eating habits and exercise routine. Research and extension will continue their goal of reducing the number of clientele who are overweight or obese and those with other chronic disease risk factors. In addition, functional foods will be emphasized because they contain bioactive products that may reduce chronic disease risks. Group discussion, educational classes, workshops, and one-on-one intervention are all proven methods of dissemination of educational information.

**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	0%		40%	
502	New and Improved Food Products	0%		30%	
503	Quality Maintenance in Storing and Marketing Food Products	0%		10%	
702	Requirements and Function of Nutrients and Other Food Components	0%		20%	
703	Nutrition Education and Behavior	100%		0%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Louisiana residents suffer from chronic diseases such as heart disease, stroke, cancer and diabetes at rates higher than the national average, while fruit and vegetable intake and participation in physical activity is below the national average. Approximately 7% of adults have been diagnosed with diabetes and 1 in 4 adults is obese. Louisiana has the fourth highest cardiovascular death rate in the nation, accounting

for almost 40 percent of all deaths in the state. Maintaining a healthy lifestyle by eating well and being physically active can impact greatly these startling statistics.

Obesity is a primary negative factor influencing resulting in Louisiana ranking 47th in overall health, 7th in diabetes and 8th in high blood pressure. Type 2 diabetes is increasing in youth at an alarming rate. The majority of the side effects of obesity are related to chronic inflammation. Excess body fat results in the development of pro-inflammatory cytokines. Compounds found in fruits, vegetables, coffee and chocolate can help prevent the formation of the inflammatory compounds. Unique approaches to delivery of these compounds will help delay the negative side effects of obesity.

**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

Participants will improve their knowledge and change their behaviors based on the improvement in knowledge. Participants will be willing and motivated to change their behaviors. FCS agents of the Nutrition Team will be engaged and fully participate in implementation nutrition programming efforts. LSU AgCenter will have the resources (personnel, facilities, materials, etc.) to conduct programming on these issues. There will be funding available for nutrition education programming and evaluation.

**2. Ultimate goal(s) of this Program**

Reduced percent of clients/participants with chronic disease risk factors, overweight and obesity. Client base that is educated on nutrition and health issues.

**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
2012	2.0	0.0	12.0	0.0
2013	2.0	0.0	11.0	0.0
2014	2.0	0.0	11.0	0.0
2015	2.0	0.0	11.0	0.0
2016	2.0	0.0	11.0	0.0

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

**1. Activity for the Program**

Extension activities to promote the maintenance of a healthy lifestyle by eating well and being physically active to adult audiences. Research to identify and/or develop familiar foods which are reformulated to deliver higher fiber and anti-inflammatory ingredients to help control obesity and the negative side effects of obesity while minimizing changes in food choices.

**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"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> <li>● Other 1 (Social media)</li> </ul>

**3. Description of targeted audience**

General public

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

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
  - Direct Adult Contacts
  - Indirect Adult Contacts
  - Direct Youth Contacts
  - Indirect Youth Contact
- Number of patents submitted
- Number of peer reviewed publications

Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web page views
  - Number of Web page visits
  - Number of individuals completing Smart Portions classes
  - Number of individuals completing DEAR classes
  - Number of families completing Smart Choices classes
  - Number of Master Nutrition Volunteers certified
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Participants are knowledgeable about and adopt healthy lifestyle and weight management practices
2	Identify and/or develop familiar foods which are reformulated to deliver higher fiber and anti-inflammatory ingredients to help control obesity and the negative side effects of obesity while minimizing changes in food choices.

**Outcome # 1**

**1. Outcome Target**

Participants are knowledgeable about and adopt healthy lifestyle and weight management practices

**2. Outcome Type : Change in Action Outcome Measure**

**2012:70                      2013:70                      2014:70                      2015:70                      2016:70**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 702 - Requirements and Function of Nutrients and Other Food Components
- 703 - Nutrition Education and Behavior

**4. Associated Institute Type(s)**

- 1862 Extension

**Outcome # 2**

**1. Outcome Target**

Identify and/or develop familiar foods which are reformulated to deliver higher fiber and anti-inflammatory ingredients to help control obesity and the negative side effects of obesity while minimizing changes in food choices.

**2. Outcome Type : Change in Condition Outcome Measure**

**2012:0                      2013:0                      2014:0                      2015:0                      2016:0**

**3. Associated Knowledge Area(s)**

- 501 - New and Improved Food Processing Technologies
- 502 - New and Improved Food Products
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 702 - Requirements and Function of Nutrients and Other Food Components

**4. Associated Institute Type(s)**

- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

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

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}



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

**Program # 12**

**1. Name of the Planned Program**

Family Resource Management

**2. Brief summary about Planned Program**

Through the family resource management area, research-based outreach efforts targeting financial management are conducted. Many Louisiana residents are experiencing financial crisis because of disasters (Hurricanes Katrina and Rita), inadequate savings, excessive debt, and poor stewardship of their resources. Workshops and educational classes are especially effective in working with clientele in these situations. Goals include self-sufficiency of clientele by learning the basics of money management.

**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
607	Consumer Economics	0%		100%	
801	Individual and Family Resource Management	100%		0%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Individuals and families are experiencing financial crisis because of disasters, inadequate savings, too much debt, and poor planning for potential major life events. Louisiana has a low rate of homeownership and over 365,000 individuals in Louisiana were left homeless after Hurricanes Katrina and Rita. Louisiana unemployment rates, particularly in rural areas, exceed national averages. Louisiana has the second highest rate of poverty in the nation and the highest in the south (U.S. Census Bureau). One out of four rural Louisianans lives below poverty. Roughly 3.5 million Louisiana families depend upon assistance from the Family Independence Temporary Assistance Program. Over 10% of mortgages are in some degree of distress and foreclosure rates continue to rise. High school students scored 45.3% on a national survey of personal finance. Residents lose many dollars each year by failing to claim the federal Earned Income Credit (EIC). High rates of recidivism among newly released offenders create great tax burden. Disasters, slow economic growth, business loss and economic crisis have impacted LA families.

**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

- Clientele achieves financial satisfaction (degree to which a person's desired standard of living matches his/her actual level of living)
  - Communities and families become more viable and sustainable
  - Economy stabilizes
  - No additional natural disasters occur
  - The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to changing behavior.
    - Resources and personnel will be available for continued research and extension effort on this topic.
    - Participants will be motivated to make behavioral changes based on their expectations of economic returns or improved quality of life.
    - Expanded knowledge will result in behavior change.

**2. Ultimate goal(s) of this Program**

The ultimate goal of this program is for all Louisiana residents to improve money management, reduce debt and better manage credit.

**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
2012	8.0	0.0	1.0	0.0
2013	8.0	0.0	1.0	0.0
2014	8.0	0.0	1.0	0.0
2015	8.0	0.0	1.0	0.0
2016	8.0	0.0	1.0	0.0

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

**1. Activity for the Program**

Extension outreach using group and individual methods and mass media as appropriate. Web-based technology, individual consultations, collaboration-building and sustainability efforts also

utilized. Educational outreach efforts in home-buyer education, financial management, saving, investing, and taxes.

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

<b>Extension</b>	
<b>Direct Methods</b>	<b>Indirect Methods</b>
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites other than eXtension</li> </ul>

**3. Description of targeted audience**

First time home buyers, high school teachers and students; prisoners/probationers/parolees; extension faculty; financial counselors

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

NIFA no longer requires you to report target numbers for standard output measures in the Plan of Work. However, all institutions will report actual numbers for standard output measures in the Annual Report of Accomplishments and Results. The standard outputs for which you must continue to collect data are:

- Number of contacts
  - Direct Adult Contacts
  - Indirect Adult Contacts
  - Direct Youth Contacts
  - Indirect Youth Contact
- Number of patents submitted
- Number of peer reviewed publications

Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

## **V(H). State Defined Outputs**

### **1. Output Measure**

- Number of Web page visits
  - Number of Web page views
  - Number of individuals reached with homebuyer education classes
  - Percentage of homebuyer education program graduates that became homeowners within 6 months of program completion
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

**V(I). State Defined Outcome**

O. No	Outcome Name
1	Percentage of participants who gain greater financial independence and literacy by learning and practicing improved management of financial resources.

**Outcome # 1**

**1. Outcome Target**

Percentage of participants who gain greater financial independence and literacy by learning and practicing improved management of financial resources.

**2. Outcome Type : Change in Action Outcome Measure**

<b>2012:50</b>	<b>2013:50</b>	<b>2014:50</b>	<b>2015:50</b>	<b>2016:50</b>
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**3. Associated Knowledge Area(s)**

- 607 - Consumer Economics
- 801 - Individual and Family Resource Management

**4. Associated Institute Type(s)**

- 1862 Extension
- 1862 Research

**V(J). Planned Program (External Factors)**

**1. External Factors which may affect Outcomes**

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

**Description**

{NO DATA ENTERED}

**V(K). Planned Program - Planned Evaluation Studies**

**Description of Planned Evaluation Studies**

{NO DATA ENTERED}