

# 2010 Louisiana State University Combined Research and Extension Plan of Work

**Status: Accepted**  
**Date Accepted: 07/06/09**

## 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 education 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 research relevant to the needs of the state, both directly and through the primary educational conduit of the Louisiana Cooperative Extension Service.

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

Year	Extension		Research	
	1862	1890	1862	1890
2010	250.0	0.0	151.0	0.0
2011	250.0	0.0	150.0	0.0
2012	250.0	0.0	149.0	0.0
2013	250.0	0.0	148.0	0.0
2014	250.0	0.0	147.0	0.0

## II. Merit Review Process

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

- Combined External and Internal University External Non-University Panel

### 2. Brief Explanation

Comprehensive CSREES departmental reviews will continue to be held on a rotating basis. Peer reviews of proposed research activities of individual scientists will continue according to CSREES 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.

## 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?

Research and extension programs regarding critical issues of strategic importance are addressed after identification by stakeholder groups and also by research scientists and state-level extension specialists. Following identification of the issue/problem, research and extension 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 strategy for addressing the problem.

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

Research and extension faculty serve all of the people of Louisiana. Major emphasis is placed on publicizing all meetings, field days, workshops, etc. On the parish level, stakeholders are reached through direct mail, telephone, electronic mail, radio, newspaper, and other mass media. 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.

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

When planning programs, "thinking through" the process actually begins with the expected outcomes and impacts. In other words, what do you intend to be the results of your programming efforts? What problem(s) do you expect to alleviate? What issue(s) do you expect to address? This all must be decided upfront. Description of these outcomes and impacts by both research and extension may be expressed in monetary terms, environmental impact, youth development, quality of life, etc

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

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 painstaking at 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 research and extension results in the better use of time for both faculty and volunteers, and also serves as a blueprint for repeating the program.

# **IV. Stakeholder Input**

## **1. Actions taken to seek stakeholder input that encourages their participation**

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

### **Brief explanation.**

Stakeholder input for the most part is accomplished through advisory committees. To encourage stakeholder recruitment, research and extension 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.

## **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 Surveys
- Needs Assessments
- Use Advisory Committees

**Brief explanation.**

Various methods are used to identify individuals and groups. One-on-one contact is an often-used means by research and extension 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. Surveys and needs assessments aid in identifying potential stakeholder advisory committee members. After recruitment, collecting information from stakeholders is vital. Using members to direct the committee, with faculty assistance as needed, is key.

**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
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Survey of traditional Stakeholder groups
- Meeting with invited selected individuals from the general public
- Survey of selected individuals from the general public

**Brief explanation**

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

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

**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 research projects and extension programs when need be. Prioritization of issues needing attention is a major role of advisory committees. Input from the parish 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.

**V. Planned Program Table of Content**

<b>S. NO.</b>	<b>PROGRAM NAME</b>
1	Animals and Animal Production Systems
2	Community Development
3	Crops and Crop Production Systems
4	Environment and Natural Resources
5	Family Development
6	Forestry and Forest Products
7	Horticulture
8	Nutrition and Food
9	Youth Development

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

Animals and Animal Production Systems

**2. Brief summary about Planned Program**

The LSU AgCenter will continue to be the primary source of unbiased, research-based information provided to producers for improving their livestock production. The livestock industry in Louisiana is large and diversified, with a wide range of clientele. Goals of the program are highlighted by the continuation of adoption of recommended practices, with focus on environmental stewardship and understanding and utilization of market economics. Clientele are primarily reached by producer meetings, result demonstrations, farm visits, and the AgCenter web site.

**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
301	Reproductive Performance of Animals	17%		17%	
302	Nutrient Utilization in Animals	21%		21%	
303	Genetic Improvement of Animals	15%		15%	
307	Animal Production Management Systems	24%		24%	
311	Animal Diseases	23%		23%	
	<b>Total</b>	100%		100%	

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

The animal industry in Louisiana is a very large and diversified industry, encompassing traditional livestock (cattle, horses, swine, and poultry) as well as varied aquaculture species (crawfish, catfish, alligators, and turtles). Economic conditions and economies of scale have created a very divergent clientele in terms of demographics. In most of the animal industries, a small number of the large producers control a majority of production and have adopted recommended management practices for breeding, growing and marketing livestock. On the other hand, a large percentage of the animal owners are small part-time farmers whose primary goals include personal satisfaction, life style and enjoyment of the industry. The two animal industries

that are growing in terms of economic impact and the number of producers is the poultry industry which is a very large integrated industry and the horse industry which is composed of a large recreational horse industry and approximately 7500 producers and horsemen that make their primary living in the horse industry. In order to meet the needs of these divergent animal industries it is important to create programs that develop economic sustainability, create new and expanding markets for the industry, encourage producers to adopt management practices, encourage the industry to be more proactive in the environmental arena, promote consumer awareness of the animal agricultural industries and the development and expand new products.

**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

1. The LSU AgCenter will continue to be the primary source of unbiased research information that will lead to improving livestock production.
2. Resources and manpower will be available for animal research and programming.
3. Livestock producers and owners will be motivated to make behavioral changes based on their expectations of economic returns or quality of life issues.
4. Expanded knowledge will result in behavioral change.
5. Demographic patterns will continue in like manner with large operations getting larger and an increasing number of small or part-time farms.

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

1. Producers will adopt research-based recommended production practices.
2. Animal producers and processors to increase awareness of and adopt environmental stewardship practices for long-term sustainability.
3. Animal industry to increase their understanding and utilization of marketing and economic sustainability techniques.
4. Stimulation and development of new animal industry opportunities and value added 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
2010	24.3	0.0	30.0	0.0
2011	24.3	0.0	30.0	0.0
2012	24.3	0.0	30.0	0.0
2013	24.3	0.0	29.0	0.0
2014	24.3	0.0	29.0	0.0

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

- Appropriate research experiments
- Result demonstrations
- One-on-One consultations as appropriate

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

**3. Description of targeted audience**

Livestock producers, youth and parents engaged in exhibiting livestock, agribusiness company representatives, governmental agencies, and the general consuming public.

**V(G). Planned Program (Outputs)****1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	70000	35500	35000	10000
2011	70000	35500	35000	10000
2012	70000	35500	35000	10000
2013	70000	35500	35000	10000
2014	70000	35500	35000	10000

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

2010 :2

2011 :2

2012 :2

2013 :2

2014 :2

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	50	45	0
2011	48	45	0
2012	45	40	0
2013	42	40	0
2014	40	40	0

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

**1. Output Target**

- Clientele reached

**2010** 20000

**2011** 20000

**2012** 20000

**2013** 20000

**2014** 20000



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

<b>O. No</b>	<b>Outcome Name</b>
1	Percentage of producers adopting extension recommended practices

**Outcome #1**

**1. Outcome Target**

Percentage of producers adopting extension recommended practices

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

**2010 :75                      2011 : 75                      2012 : 75                      2013 75                      2014 :75**

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

- 1862 Extension
- 1862 Research

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

- 301 - Reproductive Performance of Animals
- 302 - Nutrient Utilization in Animals
- 303 - Genetic Improvement of Animals
- 307 - Animal Production Management Systems
- 311 - Animal Diseases

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

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

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

**Description**

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

**1. Evaluation Studies Planned**

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

**Description**

Appropriate evaluation studies measuring knowledge gained and behavior changed will be conducted, analyzed and reported.

**2. Data Collection Methods**

- Observation
- Mail
- Structured
- Unstructured
- Sampling
- On-Site

**Description**

Data collection methods will be dependent on the type of evaluation studies being conducted.Primary methods will involve surveys and observations measuring an increase in knowledge and actual behavior changes,

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

**Program #2**

**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.

**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
803	Sociological and Technological Change Affecting Individuals, Families and Communities	10%		10%	
805	Community Institutions, Health, and Social Services	90%		90%	
	<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 Research
- In-State 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.

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
2010	11.0	0.0	5.0	0.0
2011	11.0	0.0	5.0	0.0
2012	11.0	0.0	5.0	0.0
2013	11.0	0.0	5.0	0.0
2014	11.0	0.0	5.0	0.0

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

**1. Activity for the Program**

Appropriate research activity; appropriate educational experiences, i.e. group meetings, mass media, etc.; Individual consultations as appropriate.

**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>● One-on-One Intervention</li> <li>● Workshop</li> <li>● Group Discussion</li> </ul>	<ul style="list-style-type: none"> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Public Service Announcement</li> <li>● Newsletters</li> </ul>

**3. Description of targeted audience**

General public; elected officials; governmental agencies

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	70000	3000	40000	0
2011	70000	3000	40000	0
2012	70000	3000	40000	0
2013	70000	3000	40000	0
2014	70000	3000	40000	0

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

**Expected Patent Applications**

2010 :0                      2011 :0                      2012 :0                      2013 :0                      2014 :0

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	5	6	0
2011	4	6	0
2012	4	6	0
2013	3	4	0
2014	3	4	0

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

**1. Output Target**

- Clientele reached

**2010** 2500

**2011** 2500

**2012** :2500

**2013** 2500

**2014** 2500

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

<b>O. No</b>	<b>Outcome Name</b>
1	Percentage of clientele who become more civically engaged

**Outcome #1**

**1. Outcome Target**

Percentage of clientele who become more civically engaged

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

**2010** :15

**2011** : 15

**2012** : 15

**2013** 20

**2014** :20

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

- 1862 Extension
- 1862 Research

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

- 803 - Sociological and Technological Change Affecting Individuals, Families and Communities
- 805 - Community Institutions, Health, and Social Services

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

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

**Description**

**2. Data Collection Methods**

- Observation
- Mail
- On-Site
- Sampling
- Structured

**Description**



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

**Program #3**

**1. Name of the Planned Program**

Crops and Crop Production Systems

**2. Brief summary about Planned Program**

Crops and Crop Production Systems is a broad agricultural area composed of an intricate balance of four major components: (1) crops; (2) soils; (3) pest management; and (4) environment. Additionally, insect, weed and disease control, as well as economics, record-keeping, and marketing play a major role in crops management. Adoption of unbiased, research-based recommended practices by crops producers statewide will continue to be a major focus of the LSU AgCenter. Agronomic production in Louisiana is diverse and includes a large percentage of state acreage. Research and extension education faculty work hand-in-hand to assist crops producers on both the state and parish level.

**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
201	Plant Genome, Genetics, and Genetic Mechanisms	12%		12%	
202	Plant Genetic Resources and Biodiversity	7%		7%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	7%		7%	
204	Plant Product Quality and Utility (Preharvest)	10%		10%	
205	Plant Management Systems	14%		14%	
211	Insects, Mites, and Other Arthropods Affecting Plants	14%		14%	
212	Pathogens and Nematodes Affecting Plants	16%		16%	
213	Weeds Affecting Plants	10%		10%	
216	Integrated Pest Management Systems	5%		5%	
601	Economics of Agricultural Production and Farm Management	5%		5%	
	<b>Total</b>	100%		100%	

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

#### 1. Situation and priorities

The row-crop and pasture/forage industry in Louisiana is located statewide, encompassing primarily sugarcane, cotton, rice, soybeans, corn, and pasture/forages. Crops producers vary widely as to educational level and economic standing. In most of the crops industry, larger farmers have widely adopted recommended cultural practices. Producers with fewer acres in crops also have adopted recommended practices, but in some cases at a lower adoption rate than the larger farmers. Crops systems have many components and require a high level of management by the producer. Proper stewardship of soil and water must be addressed as part of overall crops management. All crops farmers must be knowledgeable and up-to-date in the various aspects of production in order to remain in business. Research and extension faculty assist farmers by means of producer meetings, field demonstrations, one-on-one farm visits, mass media, and the AgCenter web site. It is crucial that research and extension know the needs of Louisiana crops farmers and work with them to help meet these needs. Working with crops farmers to maintain economic viability is the over-riding objective of research and extension faculty.

#### 2. Scope of the Program

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

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

**1. Assumptions made for the Program**

The LSU AgCenter will continue to be the primary provider of unbiased, research-based information that will enhance crops production.

Research and extension will continue to have needed resources, including quality research scientists and extension faculty.

Behavioral change must be the result of research and extension programs, and educators must motivate "learners" by imparting the knowledge necessary to bring about adoption of recommended practices.

Crops farmers are at varying levels of knowledge on cultural practices, and research and extension must be attuned to serving all crops farmers of the state, using appropriate teaching methods to reach all clientele.

Some crops farmers may resist the somewhat-new environmental measures, thus research and extension must take advantage of the "teachable moment" to impart knowledge on stewardship of our natural resources. Conservation tillage practices must be emphasized.

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

Crops producers to adopt unbiased, research-based recommended cultural practices.

Crops farmers to increase awareness and adoption of environmental stewardship for long-term sustainability, including primarily the proper management of soil and water.

Crops producers to coordinate with research and extension faculty, agricultural industry, banks, etc. to promote value-added dimension.

Crops farmers to work with research and extension faculty, businesses, local schools, 4-H clubs, scouts, etc. to promote youth awareness and knowledge of agriculture.

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

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

Year	Extension		Research	
	1862	1890	1862	1890
2010	27.0	0.0	56.0	0.0
2011	27.0	0.0	56.0	0.0
2012	27.0	0.0	55.0	0.0
2013	27.0	0.0	55.0	0.0
2014	27.0	0.0	55.0	0.0

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

**1. Activity for the Program**

Appropriate research experiments; Result demonstrations; Individual consultations as appropriate; Group meetings

**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>● Demonstrations</li> <li>● Workshop</li> <li>● One-on-One Intervention</li> <li>● Group Discussion</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Newsletters</li> </ul>

**3. Description of targeted audience**

Producers; agri-business company representative and government agencies

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	100000	100000	10000	0
2011	100000	100000	10000	0
2012	100000	100000	10000	0
2013	100000	100000	10000	0
2014	100000	100000	10000	0

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

**Expected Patent Applications**

2010 :1                      2011 :1                      2012 :1                      2013 :1                      2014 :1

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	50	100	0
2011	48	100	0
2012	45	100	0
2013	42	95	0
2014	40	95	0

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

**1. Output Target**

- Clientele reached

2010 :10000                      2011 :10000                      2012 :10000                      2013 :10000                      2014 :10000

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

<b>O. No</b>	<b>Outcome Name</b>
1	Percentage of producers adopting best management practices

**Outcome #1**

**1. Outcome Target**

Percentage of producers adopting best management practices

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

**2010 :75                      2011 : 75                      2012 : 75                      2013 75                      2014 :75**

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

- 1862 Extension
- 1862 Research

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

- 202 - Plant Genetic Resources and Biodiversity
- 203 - Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- 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

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

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

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

**Description**

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

**1. Evaluation Studies Planned**

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

**Description**

**2. Data Collection Methods**

- Structured
- Sampling
- Mail
- On-Site
- Observation

**Description**

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

Environment and Natural Resources

**2. Brief summary about Planned Program**

Farm management must be accomplished by research and extension education that is profitable for the farmer and of maximum benefit to the environment. In addition to agriculture, forestry, and fisheries, protection of the environment is essential to the health of all Louisianans. Goals include reduction of impairment of surface and ground water associated with erosion, runoff, and leaching from forested land. Improved public awareness and knowledge of research-based, environmentally friendly practices by the general public is paramount, including coastal wetlands, industry, agricultural producers, and homeowners.

**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	30%		30%	
112	Watershed Protection and Management	23%		23%	
133	Pollution Prevention and Mitigation	8%		8%	
135	Aquatic and Terrestrial Wildlife	22%		22%	
403	Waste Disposal, Recycling, and Reuse	7%		7%	
605	Natural Resource and Environmental Economics	10%		10%	
	<b>Total</b>	100%		100%	

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

Protection of our environment is essential to the health of Louisiana citizens, preservation of our natural resources, and the sustainability of agriculture, forestry and fisheries. Support alternative renewable bioenergy development by integrating research,

education and extension of environmental quality with new and expanded efforts to develop renewable energy sources. Develop plant materials, technology and other resources to preserve, restore or enhance ecosystem function in existing and restored fresh and coastal wetlands. Develop environmentally and economically sound management practices for the beneficial use of agricultural, municipal, homeowner and industrial wastes. Minimize the adverse environmental impacts of land use by supporting the

development and application of practical conservation practices that preserve and enhance our soil, water and air resources.

**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

The producer has control of production and environmental management. This management needs to be assisted by research, education and extension for maximum benefit to the environment. Successful control of point-source pollution from industry and other sources relies largely on compliance with mandated regulations. Implementing and successfully enforcing similar regulations to mitigate non-point source pollution from agriculture and other sources may be problematic if not impossible. Economic considerations dominate most management decisions. Environmental considerations must be economically feasible to be sustainable. Plant breeding and other traditional agronomic tools are essential for developing cost-effective strategies to offset the current rate of wetland loss in Louisiana. In the short-term, the economic viability of bioenergy production will depend upon government incentives and low-cost feedstocks whose current supply exceeds demand. In the longer-term, sustained profitability will depend largely upon technical advances and competitive advantages of locally available feedstocks. Economically sound bioenergy production is advantageous to the agricultural community and the country in general. Environmentally sound practices must address not only to the agricultural community but also urban, industrial and other non-farm audiences.

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

Reduce dependence on oil-based energy sources by increasing production of renewable bioenergy sources. Increase local markets for commodities suitable for bioenergy production. Reduce impairment of surface and ground waters associated with erosion, runoff and leaching from lands used for agriculture and forestry. Implementation of environmentally sound practices by agricultural producers, municipalities, homeowners and industry. Improvement or reduced degradation of the fresh and coastal wetlands. Long-term support for the environment attained by improved awareness, knowledge and implementation of environmentally friendly practices by all age groups and all areas of society.

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

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

Year	Extension		Research	
	1862	1890	1862	1890
2010	18.7	0.0	14.0	0.0
2011	18.7	0.0	14.0	0.0
2012	18.7	0.0	14.0	0.0
2013	18.7	0.0	14.0	0.0
2014	18.7	0.0	13.0	0.0



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

**1. Activity for the Program**

Appropriate research experiments; Result demonstrations; Individual consultations as appropriate; Group meetings

**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>● Group Discussion</li> <li>● Workshop</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> </ul>	<ul style="list-style-type: none"> <li>● Web sites</li> <li>● TV Media Programs</li> <li>● Public Service Announcement</li> <li>● Newsletters</li> </ul>

**3. Description of targeted audience**

Commercial and recreational fishermen; General public; Landowners;

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	62000	30000	30000	0
2011	62000	30000	30000	0
2012	62000	30000	30000	0
2013	62000	30000	30000	0
2014	62000	30000	30000	0

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

**Expected Patent Applications**

2010 :2                      2011 :2                      2012 :2                      2013 :2                      2014 :2

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	45	40	0
2011	42	40	0
2012	40	40	0
2013	40	35	0
2014	38	35	0

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

**1. Output Target**

- Clientele reached

**2010** 25000

**2011** 25000

**2012** :25000

**2013** 25000

**2014** 25000

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

<b>O. No</b>	<b>Outcome Name</b>
1	Clientele adopting recommended practices

**Outcome #1**

**1. Outcome Target**

Clientele adopting recommended practices

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

**2010 :** 65                      **2011 :** 65                      **2012 :** 65                      **2013 :** 65                      **2014 :** 65

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

- 1862 Extension
- 1862 Research

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

- 112 - Watershed Protection and Management
- 133 - Pollution Prevention and Mitigation
- 403 - Waste Disposal, Recycling, and Reuse

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

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

**Description**

**2. Data Collection Methods**

- Sampling
- Structured
- Unstructured
- Mail
- On-Site
- Observation

**Description**

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

**Program #5**

**1. Name of the Planned Program**

Family Development

**2. Brief summary about Planned Program**

Research-based information in the family development area includes financial training, affordable housing assistance, early childhood programs, and parenting classes. Too many Louisianans are experiencing financial crises because of disasters (Hurricanes Katrina and Rita), inadequate savings, too much debt, and poor stewardship of their resources. Workshops and educational classes are especially effective in working with this clientele. Goals include self-sufficiency of clientele by learning the basics of money management and also parenting skills, including early childhood education.

**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
801	Individual and Family Resource Management	43%		43%	
802	Human Development and Family Well-Being	57%		57%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

Too many 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. 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 the child care environment indicates considerable resources should be invested in making sure that environment provides quality care enhancing the development of children and preparation for school readiness. Brain development research supports the importance in the child

care and the family environment of positive early experiences that enhance childrens' 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
- 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). -Supply of affordable, sustainable housing stock is increased -Communities and families become more viable and sustainable. -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.

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

Promoting family resiliency

Building family-related community collaboratives

Educating parents and early childhood educators

Improve money management

Reduce debt and better manage credit

Workforce development

Improve housing stock

## **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
2010	25.0	0.0	5.0	0.0
2011	25.0	0.0	5.0	0.0
2012	25.0	0.0	5.0	0.0
2013	25.0	0.0	5.0	0.0
2014	25.0	0.0	5.0	0.0

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

**1. Activity for the Program**

Appropriate research activity; appropriate educational experiences, i.e. group meetings, mass media, etc.; Individual consultations as appropriate.

**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>● Workshop</li> <li>● Demonstrations</li> <li>● One-on-One Intervention</li> <li>● Education Class</li> <li>● Group Discussion</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● TV Media Programs</li> <li>● Newsletters</li> <li>● Web sites</li> </ul>

**3. Description of targeted audience**

Our clients will be the general public including: those with low income, the elderly, youth, and young families, early childhood educators, parent/guardians, farm families, employees, employers, business owners and business groups and the incarcerated.

Community leaders targeted include: educators, elected officials, AgCenter faculty, AgCenter partners, gatekeepers, local government, media representatives, policymakers, and master volunteers. Members of the financial community targeted include: bankers, insurance agents, mortgage companies, bankruptcy officials and filers. Regulatory and targeted building clients include: builders, building inspectors, DEQ, DNR, DOE, FEMA, DSS, homebuyers and first-time homebuyers, hurricane evacuees, hurricane impacted homebuyers, permit officers, and realtors

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	65000	30000	10000	0
2011	65000	30000	10000	0
2012	65000	30000	10000	0
2013	65000	30000	10000	0
2014	65000	30000	10000	0

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

**Expected Patent Applications**

2010 :0                      2011 :0                      2012 :0                      2013 :0                      2014 :0

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	5	100	0
2011	4	100	0
2012	4	100	0
2013	3	90	0
2014	3	90	0

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

**1. Output Target**

- Clientele reached

2010 :10000                      2011 :10000                      2012 :10000                      2013 :10000                      2014 :10000



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

<b>O. No</b>	<b>Outcome Name</b>
1	Parents implement positive parenting practices

**Outcome #1**

**1. Outcome Target**

Parents implement positive parenting practices

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

**2010** 50

**2011** : 50

**2012** : 50

**2013** 50

**2014** :50

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

- 1862 Extension
- 1862 Research

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

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

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

- Case Study
- Before-After (before and after program)
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

**Description**

{NO DATA ENTERED}

**2. Data Collection Methods**

- Observation
- Sampling
- Structured
- Portfolio Reviews
- Case Study
- On-Site
- Mail

**Description**

{NO DATA ENTERED}

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

**Program #6**

**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. 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
123	Management and Sustainability of Forest Resources	45%		45%	
511	New and Improved Non-Food Products and Processes	40%		40%	
604	Marketing and Distribution Practices	15%		15%	
	<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.

**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

Funding will be available to achieve stated outcomes. Forest resources stakeholders will continue to have a need and vested interest in the program. Sufficient research-based information exists, will be available, or can be generated to achieve stated outcomes. Agencies and NGOs will be receptive to innovative approaches to resource management or restoration approaches.

**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
2010	5.4	0.0	9.0	0.0
2011	5.4	0.0	9.0	0.0
2012	5.4	0.0	9.0	0.0
2013	5.4	0.0	9.0	0.0
2014	5.4	0.0	9.0	0.0

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

**1. Activity for the Program**

Appropriate research experiments; Result demonstrations; Individual consultations as appropriate; Group meetings

**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>● Demonstrations</li> <li>● One-on-One Intervention</li> <li>● Group Discussion</li> <li>● Education Class</li> <li>● Workshop</li> </ul>	<ul style="list-style-type: none"> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Newsletters</li> <li>● Public Service Announcement</li> </ul>

**3. Description of targeted audience**

Landowners; Forestry industry; General public

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	25000	20000	100000	0
2011	25000	20000	10000	0
2012	25000	20000	10000	0
2013	25000	20000	10000	0
2014	25000	20000	10000	0

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

**Expected Patent Applications**

**2010 :1                      2011 :1                      2012 :1                      2013 :1                      2014 :1**

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	20	35	0
2011	20	35	0
2012	18	35	0
2013	18	30	0
2014	18	30	0

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

**1. Output Target**

- Clientele reached

**2010 :10000                      2011 :10000                      2012 :10000                      2013 :10000                      2014 :10000**

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

<b>O. No</b>	<b>Outcome Name</b>
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

2010 :65                      2011 : 65                      2012 : 65                      2013 : 65                      2014 :65

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

- 1862 Extension
- 1862 Research

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

- 123 - Management and Sustainability of Forest Resources
- 511 - New and Improved Non-Food Products and Processes
- 604 - Marketing and Distribution Practices

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

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

**Description**

{NO DATA ENTERED}

**2. Data Collection Methods**

- Sampling
- Observation
- Mail
- Structured
- On-Site
- Unstructured

**Description**

{NO DATA ENTERED}

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

**Program #7**

**1. Name of the Planned Program**

Horticulture

**2. Brief summary about Planned Program**

AgCenter research and extension programs in horticulture focus on two distinct clientele: commercial horticulture and consumer horticulture. 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 especially promising with the consumer group. Goals include educational programs to assist commercial growers to remain profitable, and programs that increase the adoption by consumers of research-based cultural practices.

**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 and Biodiversity	8%		8%	
204	Plant Product Quality and Utility (Preharvest)	10%		10%	
205	Plant Management Systems	41%		41%	
211	Insects, Mites, and Other Arthropods Affecting Plants	13%		13%	
212	Pathogens and Nematodes Affecting Plants	28%		28%	
	<b>Total</b>	100%		100%	

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

**1. Situation and priorities**

**COMMERCIAL HORTICULTURE** Commercial growers to successfully market a sufficient volume of high quality horticulture products to maintain a profitable enterprise. Horticulture service business to conduct high quality horticulture activities that maintain a profitable enterprise. Commercial growers and horticulture service businesses to maintain profitable enterprise in a safe environmental manner. Lack of knowledge in consumer horticulture by clientele. Consumer horticulture maintains environmental quality.

**CONSUMER HORTICULTURE**



**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

COMMERCIAL HORTICULTURE ISSUE Provide up to date research based information to maintain profitable enterprises in a safe environmental manner. HORTICULTUE ISSUE Provide up to date information to allow clientele to maintain home grounds in a safe environmental manner. Continue traditional extension and research activities. Increase effort on the development of internet type materials. Increase efforts in multi-state extension and research activities. Maintain funding from traditional sources. Acquire funding from grants.

CONSUMER

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

COMMERCIAL HORTICULTURE Maintain profitable horticulture enterprises in a safe environmental manner. safe information to consumer horticulture clientele. Homeowners adopt recommended cultural practices that improve home grounds and protect the environment.

CONSUMER HORTICULTURE Provide up-to-date environmentally

**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
2010	30.6	0.0	23.0	0.0
2011	30.6	0.0	22.0	0.0
2012	30.6	0.0	22.0	0.0
2013	30.6	0.0	22.0	0.0
2014	30.6	0.0	22.0	0.0

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

**1. Activity for the Program**

Appropriate research experiments; Result demonstrations; Individual consultations as appropriate; Group meetings

**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>● Demonstrations</li> <li>● One-on-One Intervention</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● Education Class</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Newsletters</li> <li>● Web sites</li> <li>● TV Media Programs</li> </ul>

**3. Description of targeted audience**

Fruit, nut, and vegetable commercial producers; homeowners and home gardeners; nursery growers and related agribusiness

clientele.

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	100000	75000	15000	2000
2011	100000	75000	15000	2000
2012	100000	75000	15000	2000
2013	100000	75000	15000	2000
2014	100000	75000	15000	2000

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

**Expected Patent Applications**

2010 :1                      2011 :1                      2012 :1                      2013 :1                      2014 :1

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	17	165	0
2011	16	165	0
2012	15	165	0
2013	14	150	0
2014	13	150	0

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

**1. Output Target**

- Clientele reached

2010 25000                      2011 25000                      2012 :25000                      2013 25000                      2014 25000

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

<b>O. No</b>	<b>Outcome Name</b>
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

**2010 :70                      2011 : 70                      2012 : 70                      2013 :70                      2014 :70**

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

- 1862 Extension
- 1862 Research

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

- 202 - Plant Genetic Resources and Biodiversity
- 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

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

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

**Description**

{NO DATA ENTERED}

**2. Data Collection Methods**

- Structured
- Sampling
- Observation
- Mail
- On-Site

**Description**

{NO DATA ENTERED}

**V(A). Planned Program (Summary)****Program #8****1. Name of the Planned Program**

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 with chronic disease risk factors, overweight, and obesity. 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	45%		45%	
502	New and Improved Food Products	21%		21%	
503	Quality Maintenance in Storing and Marketing Food Products	12%		12%	
702	Requirements and Function of Nutrients and Other Food Components	12%		12%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	10%		10%	
	<b>Total</b>	100%		100%	

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

Nutrition education: The Dietary Guidelines 2005 recommend from two to six and a half cups of fruits and vegetables daily depending on caloric intake (Harvard School of Public Health) while the median fruit and vegetable intake is about half of that (National Cancer Institute). In addition, the largest contributor of energy from a single source is soft drinks. Three nutrient poor groups (sweets, desserts, and soft drinks) contribute almost 1/4th of all the energy consumed. Nutrition education is an

important way to try to improve dietary intake of individuals and to reduce obesity and other chronic diseases by focusing on increasing the intake of nutrient dense foods such as fruits, vegetables and whole grains. A high consumption of fruits and vegetables, especially of green leafy vegetables, can reduce the risk of major chronic diseases. For example, individuals consuming more than five servings of fruits and vegetables have a reduced risk for stroke. An increase of one serving per day of fruits or vegetables can result in a 6% lower risk of stroke (Journal of the American Medical Association). Improper weight management and obesity are the leading causes of preventable death in the United States. It is estimated that at least 64% of adults in the US or 110 million people are either overweight or obese (American Obesity Association). More than 300,000 deaths each year are attributed to obesity and the cost of obesity is more than \$117 billion dollars. Most recent statistics show that 23.3% of adults in Louisiana are obese compared to 20.5% for the country as a whole (Journal of the Louisiana State Medical Society). In 2001, Louisiana was 8th among the 50 states in obesity and overweight. Louisiana had 6.4% of its adult medical expenditures due to obesity which amounted to about \$1.3 Billion dollars in 2000 (Obesity Research). Obesity is a multi faceted disease resulting from a combination of poor nutrition, inadequate physical activity and inherited characteristics. Chronic disease prevention: Six of the top ten causes of death are due to chronic diseases that are diet related: heart disease, hypertension, obesity, diabetes, cancer and stroke. Seventy percent of all deaths each year are due to chronic diseases (CDC). Coronary heart disease is the single leading cause of death in America (American Heart Association). More than 90 million Americans live with chronic illnesses. The prolonged course of illness and disability from such chronic diseases as diabetes and arthritis results in extended pain and suffering and decreased quality of life for millions of Americans. The medical care costs of people with chronic diseases account for more than 75% of the nation's \$1.4 trillion medical care costs. The direct and indirect costs of diabetes are nearly \$132 billion a year. The direct medical cost associated with physical inactivity was nearly \$776.6 billion in 2000.

**2. Scope of the Program**

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

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

**1. Assumptions made for the Program**

Participants will improve their knowledge and therefore, 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
2010	18.0	0.0	9.0	0.0
2011	18.0	0.0	9.0	0.0
2012	18.0	0.0	9.0	0.0
2013	18.0	0.0	9.0	0.0
2014	18.0	0.0	9.0	0.0

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

**1. Activity for the Program**

Appropriate research activity; appropriate educational experiences, i.e. group meetings, mass media, etc.; Individual consultations as appropriate.

**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>● One-on-One Intervention</li> <li>● Demonstrations</li> <li>● Workshop</li> <li>● Education Class</li> <li>● Group Discussion</li> </ul>	<ul style="list-style-type: none"> <li>● Public Service Announcement</li> <li>● Web sites</li> <li>● Newsletters</li> <li>● TV Media Programs</li> </ul>

**3. Description of targeted audience**

General public

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

**1. Standard output measures**

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

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2010	185000	60000	200000	70000
2011	185000	60000	200000	70000
2012	185000	60000	200000	70000
2013	185000	60000	200000	70000
2014	185000	60000	200000	70000

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

**Expected Patent Applications**

2010 :1                      2011 :1                      2012 :1                      2013 :1                      2014 :1

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	45	130	0
2011	42	130	0
2012	40	130	0
2013	40	120	0
2014	38	120	0

## V(H). State Defined Outputs

### 1. Output Target

- Clientele reached

2010 :10000

2011 :10000

2012 :10000

2013 :10000

2014 :10000



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

<b>O. No</b>	<b>Outcome Name</b>
1	Participants are knowledgeable about and follow healthy weight management practices

**Outcome #1**

**1. Outcome Target**

Participants are knowledgeable about and follow healthy weight management practices

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

**2010** 200                      **2011** : 200                      **2012** : 200                      **2013** 200                      **2014** :200

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

- 1862 Extension
- 1862 Research

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

- 502 - New and Improved Food Products
- 702 - Requirements and Function of Nutrients and Other Food Components
- 712 - Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

- During (during program)
- Before-After (before and after program)
- Comparisons between program participants (individuals,group,organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

**Description**

{NO DATA ENTERED}

**2. Data Collection Methods**

- On-Site
- Structured
- Sampling
- Mail
- Observation
- Case Study

**Description**

{NO DATA ENTERED}

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

**Program #9**

**1. Name of the Planned Program**

Youth Development

**2. Brief summary about Planned Program**

One of the major goals of 4-H youth development is to develop volunteers leaders, with a positive outlook on volunteerism by youth and adults while offering a broad range of opportunities for youth, including traditional school club programs, community service learning, and preparation for the workforce. Delivery of educational programs other than in-school clubs will be emphasized. Research and extension will continue to work together to assist youth in decision-making, planning, and interacting with others. It's not the 4-H project itself which is paramount, but rather the positive development of the youth who completes the project.

**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
806	Youth Development	100%		100%	
	<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.

**2. Scope of the Program**

- In-State Extension
- Integrated Research and Extension

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

**1. Assumptions made for the Program**

4-H youth development faculty become youth development specialists and view themselves as lifelong learners. The number of contact hours is dramatically increased with the utilization of volunteers. Faculty will view themselves as program coordinators rather than program deliverers and increase collaborations. Through the use of volunteers, more diverse populations will be reached throughout Louisiana. Delivery methods other than school clubs will be viewed as a priority in reaching out to youth.

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

One of the major goals is to develop a spirit of volunteerism in youth and adults while offering a broad range of opportunities for youth. The Louisiana 4-H program will provide a mix of new and traditional programming emphasizing community service learning, preparing youth for the work force, and develop life skills which will assist in decision making, planning, and how to

interact with others.

**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
2010	90.0	0.0	0.0	0.0
2011	90.0	0.0	0.0	0.0
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

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

**1. Activity for the Program**

Age appropriate educational experiences will be provided to youth.  
 Appropriate adult education principles will be used to determine educational experiences for volunteers

**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>● Demonstrations</li> <li>● Group Discussion</li> <li>● Education Class</li> <li>● One-on-One Intervention</li> <li>● Workshop</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● Public Service Announcement</li> <li>● TV Media Programs</li> <li>● Web sites</li> </ul>

**3. Description of targeted audience**

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

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

**1. Standard output measures**

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

Year	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
	Target	Target	Target	Target
2010	115000	125000	700000	400000
2011	120000	125000	700000	400000
2012	120000	125000	700000	400000
2013	120000	125000	700000	400000
2014	120000	125000	700000	400000

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

**Expected Patent Applications**

**2010 :0                      2011 :0                      2012 :0                      2013 :0                      2014 :0**

**3. Expected Peer Review Publications**

Year	Research Target	Extension Target	Total
2010	0	90	0
2011	0	90	0
2012	0	90	0
2013	0	85	0
2014	0	85	0

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

**1. Output Target**

- Youth reached

**2010 200000                      2011 200000                      2012 :200000                      2013 200000                      2014 200000**

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

<b>O. No</b>	<b>Outcome Name</b>
1	Youth to be actively engaged in learning and given the opportunity for mastery Youth to become engaged members of the community Adults and youth gain knowledge and skills associated with personal, organization, & community leadership

**Outcome #1**

**1. Outcome Target**

Youth to be actively engaged in learning and given the opportunity for mastery Youth to become engaged members of the community Adults and youth gain knowledge and skills associated with personal, organization, & community leadership

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

**2010** 500                      **2011** : 500                      **2012** : 500                      **2013** 500                      **2014** :500

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

- 1862 Extension

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

- 806 - Youth Development

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

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

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

**Description**

{NO DATA ENTERED}

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

**1. Evaluation Studies Planned**

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

**Description**

{NO DATA ENTERED}

**2. Data Collection Methods**

- Mail
- Portfolio Reviews
- On-Site
- Observation
- Structured
- Sampling
- Case Study

**Description**

{NO DATA ENTERED}