

2011 Louisiana State University Combined Research and Extension Plan of Work

Status: Accepted

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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.

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

Year	Extension		Research	
	1862	1890	1862	1890
2011	281.0	0.0	147.0	0.0
2012	267.0	0.0	138.0	0.0
2013	267.0	0.0	133.0	0.0
2014	267.0	0.0	133.0	0.0
2015	267.0	0.0	133.0	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

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.

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 and prioritization by stakeholder groups and consideration 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 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

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. A major effort is underway to address the particular needs of minority youth in the 4-H program and to diversify youth development outreach and to 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?

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? Outcomes include short term learning outcomes, medium term behavior changes and longer term environmental, policy and societal outcomes. Furthermore, it is critical that the benefit to the public, beyond program participants, be clearly communicated as an additional impact of all programs. Description of these outcomes and impacts by both research and extension 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 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 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 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. 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 throughout.

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, 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. 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 such as 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 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. 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 research projects and extension programs when need be. 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	Consumer Economics

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 such as the LSU AgCenter Website.

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%		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%	
	Total	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	1890
2011	50.0	0.0	98.0	0.0
2012	48.0	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

V(F). Planned Program (Activity)

1. Activity for the Program

Extension outreach using group and individual methods, mass media, appropriate research experiments and result demonstrations; Web-based technology including 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"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites ● Other 1 (Social media)

3. Description of targeted audience

Livestock producers, row crop producers, commercial fruit and vegetable producers, crawfish farmers, Louisiana families living below the poverty level, Master Farmer participants, Master Cattle Producer participants.

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

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	150000	100000	60000	5000
2012	150000	100000	60000	5000
2013	150000	100000	60000	5000
2014	150000	100000	60000	5000
2015	150000	100000	60000	5000

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

2011:3

2012:3

2013:3

2014:3

2015:3

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	130	15	145
2012	125	15	140
2013	120	15	140
2014	120	15	140
2015	120	15	140

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

2011:1000000 2012:1000000 2013:1000000 2014:1000000 2015:1000000

- Number of Web page visits

2011:1000000 2012:1000000 2013:1000000 2014:1000000 2015:1000000

V(I). State Defined Outcome

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

Outcome # 1

1. Outcome Target

Percentage of Louisiana's livestock producers who adopt best practices

2. Outcome Type : Change in Action Outcome Measure

2011:70 2012:70 2013:70 2014:70 2015:70

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

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

Outcome # 2

1. Outcome Target

Percentage of Louisiana's crop producers who adopt best practices

2. Outcome Type : Change in Action Outcome Measure

2011:70 2012:70 2013:70 2014:70 2015:70

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

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

Outcome # 3

1. Outcome Target

Percentage of Louisiana commercial fruit and vegetable producers who adopt best practices

2. Outcome Type : Change in Action Outcome Measure

2011:70 2012:70 2013:70 2014:70 2015:70

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

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

Outcome # 4

1. Outcome Target

Percentage of Louisiana aquaculture producers who adopt best practices.

2. Outcome Type : Change in Action Outcome Measure

2011:70 2012:70 2013:70 2014:70 2015:70

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

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 management practices regarding the use of limited resources to prepare and consume healthier foods.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:40

2012:40

2013:40

2014:40

2015:40

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

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparison between locales where the program operates and sites without program intervention

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Whole population
- Mail
- On-Site
- Case Study
- Observation
- Tests
- Other (Electronic & social media)

Description

{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.

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	10%		10%	
122	Management and Control of Forest and Range Fires	5%		5%	
132	Weather and Climate	10%		10%	
133	Pollution Prevention and Mitigation	5%		10%	
201	Plant Genome, Genetics, and Genetic Mechanisms	0%		10%	
205	Plant Management Systems	35%		5%	
212	Pathogens and Nematodes Affecting Plants	5%		5%	
402	Engineering Systems and Equipment	5%		5%	
403	Waste Disposal, Recycling, and Reuse	5%		25%	
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	15%		0%	
	Total	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 daunting task to producers. A FAO report suggests that livestock production was responsible for 18% of all anthropogenic greenhouse gas emissions. Some Louisiana rivers and lakes are

reported on EPA's 303d list as impaired primarily by agricultural runoff. Nutrients and pathogens are among the leading causes of contamination. Yet, manure/litter management is often regarded as an expensive chore by food-animal production operators. Improved manure handling and treatment technologies need to be developed.

Wetland deterioration is a significant environmental problem in the Northern Gulf of Mexico Basin, especially in Louisiana. Louisiana's coastal plains are the largest expanse of wetlands in the contiguous United States and one of the world's most significant wetland areas. The long term social, environmental, and economic consequences of such extensive wetland loss affects our nation's security and deprives individual states and the nation of vitally important navigation, energy production, wildlife, and other wetland-related economic and environmental benefits.

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 health and 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.

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 climate and 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
2011	23.0	0.0	9.0	0.0
2012	22.0	0.0	8.0	0.0
2013	22.0	0.0	7.0	0.0

Year	Extension		Research	
	1862	1890	1862	1890
2014	22.0	0.0	7.0	0.0
2015	22.0	0.0	7.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

Research and extension outreach efforts on environment and natural resources, wetland plants, water quality, animal waste and sustainable housing and energy conservation.

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

Extension

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

3. Description of targeted audience

Coastal managers, Louisiana wetland stakeholders, commercial and recreational fishermen, participants in the Louisiana Master Farmer program and other agricultural producers, livestock producers and Louisiana homeowners, builders and retrofitters

V(G). Planned Program (Outputs)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	10000	25000	25000	3000
2012	10000	25000	25000	3000
2013	10000	25000	25000	3000
2014	10000	25000	25000	3000
2015	10000	25000	25000	3000

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

2011:9 2012:8 2013:8 2014:8 2015:8

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	17	3	20
2012	15	3	18
2013	13	3	16
2014	13	3	16
2015	13	3	16

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

2011:100000 2012:100000 2013:100000 2014:100000 2015:100000

- Numberof Web page visits

2011:250000 2012:250000 2013:250000 2014:250000 2015:250000

V(I). State Defined Outcome

O. No.	Outcome Name
1	Percentage of clientele who adopt recommended practices for building, retrofitting and maintaining sustainable homes
2	Percentage of clientele who adopt recommended practices regarding livestock waste handling and utilization
3	Adoption of recommended practices by certified Louisiana Master Farmers that lead to reduced non-point source pollution in Louisiana waterways
4	Coordination of research and extension activities addressing environment and natural resource economics across the southeastern U.S.including sea level rise in Gulf of Mexico
5	Determine the effects of various wetland plants in reducing wetland loss

Outcome # 1

1. Outcome Target

Percentage of clientele who adopt recommended practices for building, retrofitting and maintaining sustainable homes

2. Outcome Type : Change in Action Outcome Measure

2011:50 2012:50 2013:50 2014:50 2015:50

3. Associated Knowledge Area(s)

- 402 - Engineering Systems and Equipment
- 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

Percentage of clientele who adopt recommended practices regarding livestock waste handling and utilization

2. Outcome Type : Change in Action Outcome Measure

2011:70 2012:70 2013:70 2014:70 2015:70

3. Associated Knowledge Area(s)

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

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

Outcome # 3

1. Outcome Target

Adoption of recommended practices by certified Louisiana Master Farmers that lead to reduced non-point source pollution in Louisiana waterways

2. Outcome Type : Change in Action Outcome Measure

2011:100 2012:100 2013:100 2014:100 2015:100

3. Associated Knowledge Area(s)

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

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

Outcome # 4

1. Outcome Target

Coordination of research and extension activities addressing environment and natural resource economics across the southeastern U.S.including sea level rise in Gulf of Mexico

2. Outcome Type : Change in Condition Outcome Measure

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

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

Determine the effects of various wetland plants in reducing wetland loss

2. Outcome Type : Change in Condition Outcome Measure

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

3. Associated Knowledge Area(s)

- 101 - Appraisal of Soil Resources
- 112 - Watershed Protection and Management
- 122 - Management and Control of Forest and Range Fires
- 132 - Weather and Climate
- 201 - Plant Genome, Genetics, and Genetic Mechanisms

- 205 - Plant Management Systems

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 (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Mail
- On-Site
- Case Study
- Observation
- Tests
- Other (Electronic)

Description

{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 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	25%		5%	
511	New and Improved Non-Food Products and Processes	75%		95%	
	Total	100%		100%	

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

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

- 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
2011	4.0	0.0	6.0	0.0
2012	3.0	0.0	5.0	0.0
2013	3.0	0.0	5.0	0.0
2014	3.0	0.0	5.0	0.0
2015	3.0	0.0	5.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

Appropriate research regarding biofuel development using Louisiana-produced crops; education of producers regarding biomass production; education of consumers regarding alternative energy and energy conservation technologies.

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

Extension

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

3. Description of targeted audience

Louisiana agricultural producers; consumers

V(G). Planned Program (Outputs)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	100	200	0	0
2012	100	200	0	0
2013	100	200	0	0
2014	100	200	0	0
2015	100	200	0	0

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	2	5	7
2012	2	5	7
2013	2	5	7
2014	2	5	7
2015	2	5	7

V(H). State Defined Outputs

1. Output Target

- Number of ag producers providing biomass as feedstock for fuels

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

- Number of workshops conducted

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

V(I). State Defined Outcome

O. No.	Outcome Name
1	Identification and further development of Louisiana crops and cropping systems capable of producing biomass
2	Producers to gain knowledge regarding the use of agricultural feedstocks to generate biofuels.
3	Clientele to gain knowledge regarding the wise use of energy resources

Outcome # 1

1. Outcome Target

Identification and further development of Louisiana crops and cropping systems capable of producing biomass

2. Outcome Type : Change in Knowledge Outcome Measure

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

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

Producers to gain knowledge regarding the use of agricultural feedstocks to generate biofuels.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:100 2012:100 2013:100 2014:100 2015:100

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 # 3

1. Outcome Target

Clientele to gain knowledge regarding the wise use of energy resources

2. Outcome Type : Change in Knowledge Outcome Measure

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

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 Programmatic Challenges

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)
- Case Study

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Whole population
- Mail
- On-Site
- Structured
- Case Study
- Observation
- Other (Electronic)

Description

{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. By 2011, all of the extension effort in nutrition and health will be focused on this serious issue in the state. Thus no effort will be reported under the stated-defined outcome Human Nutrition and Food for extension.

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
502	New and Improved Food Products	0%		85%	
503	Quality Maintenance in Storing and Marketing Food Products	0%		15%	
703	Nutrition Education and Behavior	50%		0%	
724	Healthy Lifestyle	50%		0%	
	Total	100%		100%	

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

Obesity is a growing health problem carrying significant costs. Louisiana youth are among the unhealthiest in the nation; 36% of 10-17 year olds are overweight and 53% don't exercise regularly. Childhood obesity rates are a concern as children who are overweight are 70% likely to be overweight as an adult which increases risk for chronic diseases such as cardiovascular disease, type 2 diabetes, some cancers, sleep apnea, hypertension, and osteoarthritis (CDC). Priorities include educating parents and children regarding healthy lifestyle changes which can reduce this serious problem.

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
2011	60.0	0.0	1.0	0.0
2012	60.0	0.0	1.0	0.0
2013	60.0	0.0	1.0	0.0
2014	60.0	0.0	1.0	0.0
2015	60.0	0.0	1.0	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"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations | <ul style="list-style-type: none"> ● Newsletters ● TV Media Programs ● Web sites ● Other 1 (Social media) |
|--|---|

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)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	5000	0	200000	75000
2012	5000	0	200000	75000
2013	5000	0	200000	75000
2014	5000	0	200000	75000
2015	5000	0	200000	75000

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

2011:15 2012:15 2013:15 2014:15 2015:15

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	2	2	4
2012	2	2	4
2013	2	2	4
2014	2	2	4
2015	2	2	4

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

2011:17000 2012:17000 2013:17000 2014:17000 2015:17000

- Number of Web page visits

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

- Number of youth reached

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

- Number of elementary schools reached

2011:50 2012:50 2013:50 2014:50 2015:50

- Percentage of caregivers at participating schools who attend a series of Smart Choices lessons and/or receive newsletters

2011:25 2012:25 2013:25 2014:25 2015:25

V(I). State Defined Outcome

O. No.	Outcome Name
1	Louisiana youth and parents learn about and adopt healthy lifestyle habits which will lead to reduced chronic disease and health-related issues in later life.

Outcome # 1

1. Outcome Target

Louisiana youth and parents learn about and adopt healthy lifestyle habits which will lead to reduced chronic disease and health-related issues in later life.

2. Outcome Type : Change in Action Outcome Measure

2011:40000 2012:40000 2013:40000 2014:40000 2015:40000

3. Associated Knowledge Area(s)

- 502 - New and Improved Food Products
- 503 - Quality Maintenance in Storing and Marketing Food Products
- 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 (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparison between locales where the program operates and sites without program intervention

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Mail
- On-Site
- Structured
- Portfolio Reviews
- Journals
- Other (Electronic)

Description

{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 Research and Extension 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.

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	85%		0%	
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	10%		35%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	5%		65%	
	Total	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. Louisiana 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.

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.

2. Scope of the Program

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

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

1. Assumptions made for the Program

- 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
2011	2.0	0.0	2.0	0.0
2012	2.0	0.0	2.0	0.0
2013	2.0	0.0	2.0	0.0
2014	2.0	0.0	2.0	0.0
2015	2.0	0.0	2.0	0.0

V(F). Planned Program (Activity)

1. Activity for the Program

Appropriate research experiments, result demonstrations, workshops and classes, certification programs and effective use of mass media 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"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations | <ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites ● Other 1 (Social media) |
|--|--|

3. Description of targeted audience

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

V(G). Planned Program (Outputs)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	25000	1000	5000	0
2012	25000	1000	5000	0
2013	25000	1000	5000	0
2014	25000	1000	5000	0
2015	25000	1000	5000	0

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	6	2	8
2012	6	2	8
2013	6	2	8
2014	6	2	8
2015	6	2	8

V(H). State Defined Outputs

1. Output Target

- Number of food safety workshops conducted

2011:15

2012:15

2013:15

2014:15

2015:15

V(I). State Defined Outcome

O. No.	Outcome Name
1	Increase awareness, knowledge and/or skills regarding safe food handling and preparation by clientele in both the commercial and non-commercial sector.

Outcome # 1

1. Outcome Target

Increase awareness, knowledge and/or skills regarding safe food handling and preparation by clientele in both the commercial and non-commercial sector.

2. Outcome Type : Change in Knowledge Outcome Measure

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

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

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

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)
- Case Study

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Whole population

- Mail
- Telephone
- On-Site
- Structured
- Observation
- Other (Electronic)

Description

{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 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. 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
204	Plant Product Quality and Utility (Preharvest)	10%		5%	
205	Plant Management Systems	80%		85%	
213	Weeds Affecting Plants	10%		10%	
	Total	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 fertilize use. Home gardeners require information in the areas of species and cultivar selection, weed management and cultural practice improvements. Louisiana Master Gardeners are trained to provide this information to home gardeners to extend extension's outreach efforts. 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.

2. Scope of the Program

- In-State Extension
- In-State 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 a safe environmental 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
2011	15.0	0.0	5.0	0.0
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

V(F). Planned Program (Activity)

1. Activity for the Program

Appropriate research experiments, result demonstrations, individual consultations, group meetings; mass media (radio, television and newspaper), publication development; extensive use of Web technology including social media; use of Louisiana Master Gardeners to extend extension's outreach and an expansion of the School Gardens 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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Public Service Announcement • Newsletters • TV Media Programs • Web sites • Other 1 (Social media (blogs, etc.))

3. Description of targeted audience

Horticulture professionals, home gardeners, nursery growers, Louisiana Master Gardeners, K-12 schools

with gardens 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 Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	100000	75000	9000	1000
2012	100000	75000	9000	1000
2013	100000	75000	10000	1000
2014	100000	75000	11000	1000
2015	100000	75000	12000	1000

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	6	9	15
2012	6	9	15
2013	6	9	15
2014	6	9	15
2015	6	9	15

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

2011:800000 2012:800000 2013:800000 2014:800000 2015:800000

- Number of Web page visits

2011:600000 2012:600000 2013:600000 2014:600000 2015:600000

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

2011:70

2012:70

2013:70

2014:70

2015:70

3. Associated Knowledge Area(s)

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

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 Programmatic Challenges

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

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

Description

{NO DATA ENTERED}

2. Data Collection Methods

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

- Other (Electronic)

Description

{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 and Rita) and economic conditions of the state--both resulting in reduced 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 parenting skills, including early childhood education, and learning where and how to find reputable community resources. Strengthening families is also key in building needed support at all times, but particularly 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
724	Healthy Lifestyle	10%		20%	
801	Individual and Family Resource Management	25%		60%	
802	Human Development and Family Well-Being	65%		20%	
	Total	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 Hurricanes Katrina and Rita. Recovery is slow and stressful. Louisiana unemployment rates, particularly in rural areas, exceed national averages also causing stress. 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 the environment provides 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
2011	12.0	0.0	1.0	0.0
2012	10.0	0.0	1.0	0.0
2013	10.0	0.0	1.0	0.0
2014	10.0	0.0	1.0	0.0
2015	9.0	0.0	1.0	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, use of social media and electronic resources.

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

Extension

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

3. Description of targeted audience

Clients will be the general public including: those with low income, the elderly, youth, young families, early childhood educators, parents/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, policy makers and master 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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	35000	20000	5000	1000
2012	32000	18000	4500	900
2013	30000	16000	4000	800
2014	30000	16000	4000	800
2015	30000	16000	4000	800

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	10	2	12
2012	10	2	12
2013	10	2	12
2014	10	2	12
2015	10	2	12

V(H). State Defined Outputs

1. Output Target

- Number of Web site page views

2011: 140000	2012: 140000	2013: 140000	2014: 140000	2015: 140000
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- Number of Web page visits

2011: 100000	2012: 100000	2013: 100000	2014: 100000	2015: 100000
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V(I). State Defined Outcome

O. No.	Outcome Name
1	Percent change in knowledge regarding positive parenting practices by program participants
2	Percentage of early childhood educators who learn the importance of and implement developmentally appropriate experiences.
3	Percentage of families that learn and/or use skills to improve family resiliency in response to long-term stress

Outcome # 1

1. Outcome Target

Percent change in knowledge regarding positive parenting practices by program participants

2. Outcome Type : Change in Action Outcome Measure

2011:50 2012:50 2013:50 2014:50 2015:50

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 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

Percentage of early childhood educators who learn the importance of and implement developmentally appropriate experiences.

2. Outcome Type : Change in Knowledge Outcome Measure

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

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 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

Percentage of families that learn and/or use skills to improve family resiliency in response to long-term stress

2. Outcome Type : Change in Knowledge Outcome Measure

2011:50 2012:50 2013:50 2014:50 2015:50

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle

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

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

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

Description

{NO DATA ENTERED}

2. Data Collection Methods

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

Description

{NO DATA ENTERED}

V(A). Planned Program (Summary)

Program # 8

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. The focus of the youth development program will continue to be on Citizenship, Healthy Living (which will be reported under th Childhood Obesity initiative) and increasing the number of scientists by providing exposure to science and technology concepts and careers including programs such as Youth Wetlands.

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
806	Youth Development	100%		100%	
	Total	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.

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

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.

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

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, 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
2011	95.0	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
2015	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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Public Service Announcement • Newsletters • TV Media Programs • Web sites • Other 1 (Social media)

3. Description of targeted audience

Louisiana 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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	120000	44000	700000	200000
2012	120000	43000	700000	200000
2013	120000	42000	700000	200000
2014	120000	42000	700000	200000
2015	120000	42000	700000	200000

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

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

3. Expected Peer Review Publications

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

V(H). State Defined Outputs

1. Output Target

- Youth reached

2011:200000	2012:200000	2013:200000	2014:200000	2015:200000
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- Number of Web page views

2011:800000	2012:800000	2013:800000	2014:800000	2015:800000
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- Number of Web page visits

2011:600000	2012:600000	2013:600000	2014:600000	2015:600000
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V(I). State Defined Outcome

O. No.	Outcome Name
1	Percentage of youth who develop and strengthen skills that will lead them to be contributing citizens within their communities.
2	Percentage of youth who increase scientific literacy as well as become aware of career choice opportunities through hands-on scientific learning and discovery.

Outcome # 1

1. Outcome Target

Percentage of youth who develop and strengthen skills that will lead them to be contributing citizens within their communities.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:60 2012:60 2013:60 2014:60 2015:60

3. Associated Knowledge Area(s)

- 806 - Youth Development

4. Associated Institute Type(s)

- 1862 Extension
- 1862 Research

Outcome # 2

1. Outcome Target

Percentage of youth who increase scientific literacy as well as become aware of career choice opportunities through hands-on scientific learning and discovery.

2. Outcome Type : Change in Knowledge Outcome Measure

2011:60 2012:60 2013:60 2014:60 2015:60

3. Associated Knowledge Area(s)

- 806 - Youth Development

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

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

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

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Mail
- On-Site
- Structured
- Case Study
- Observation
- Portfolio Reviews
- Other (Electronic)

Description

{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
123	Management and Sustainability of Forest Resources	70%		35%	
135	Aquatic and Terrestrial Wildlife	10%		40%	
136	Conservation of Biological Diversity	10%		15%	
402	Engineering Systems and Equipment	5%		5%	
604	Marketing and Distribution Practices	5%		5%	
	Total	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
- 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
2011	6.0	0.0	9.0	0.0
2012	5.0	0.0	8.0	0.0
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

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
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- Education Class
- Workshop
- Group Discussion
- One-on-One Intervention
- Demonstrations

- Public Service Announcement
- Newsletters
- TV Media Programs
- Web sites
- Other 1 (Social media)

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)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	15000	20000	10000	300
2012	14000	18000	9000	300
2013	13000	17000	8000	300
2014	13000	17000	8000	300
2015	13000	17000	8000	300

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	21	2	23
2012	20	2	22
2013	19	2	21
2014	19	2	21
2015	19	2	21

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

2011:75000	2012:75000	2013:75000	2014:75000	2015:75000
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- Number of Web page visits

2011:50000	2012:50000	2013:50000	2014:50000	2015:50000
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- Number of Master Tree Farmers and Master Loggers certified

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

2011:65 2012:65 2013:65 2014:65 2015:65

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 135 - Aquatic and Terrestrial Wildlife
- 136 - Conservation of Biological Diversity
- 402 - Engineering Systems and Equipment
- 604 - Marketing and Distribution Practices

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
- Populations changes (immigration, new cultural groupings, etc.)

Description

{NO DATA ENTERED}

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

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Mail
- On-Site
- Structured

- Unstructured
- Observation
- Other (Electronic)

Description

{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
211	Insects, Mites, and Other Arthropods Affecting Plants	0%		10%	
602	Business Management, Finance, and Taxation	10%		10%	
604	Marketing and Distribution Practices	5%		5%	
609	Economic Theory and Methods	0%		5%	
610	Domestic Policy Analysis	5%		15%	
721	Insects and Other Pests Affecting Humans	0%		35%	
722	Zoonotic Diseases and Parasites Affecting Humans	0%		5%	
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	40%		5%	
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures	0%		5%	
903	Communication, Education, and Information Delivery	40%		5%	
	Total	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
- 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
2011	5.0	0.0	4.0	0.0
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

V(F). Planned Program (Activity)

1. Activity for the Program

Educational programs in entrepreneurship, leadership, agricultural enterprise development and rural tourism using appropriate educational experiences including group meetings, mass media and individual consultations.

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

Extension

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

3. Description of targeted audience

Entrepreneurs and community leaders in rural Louisiana, government officials and agencies, general public and producers.

V(G). Planned Program (Outputs)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	70000	3000	20000	40000
2012	70000	3000	20000	40000
2013	70000	3000	15000	40000
2014	70000	3000	15000	40000

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2015	70000	3000	15000	40000

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	24	2	26
2012	22	2	24
2013	22	2	24
2014	22	2	24
2015	22	2	24

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

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

- Number of Web page visits

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

V(I). State Defined Outcome

O. No.	Outcome Name
1	Percentage of clientele who increase knowledge of sustainable economic development strategies

Outcome # 1

1. Outcome Target

Percentage of clientele who increase knowledge of sustainable economic development strategies

2. Outcome Type : Change in Knowledge Outcome Measure

2011:50 2012:50 2013:50 2014:50 2015:50

3. Associated Knowledge Area(s)

- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 602 - Business Management, Finance, and Taxation
- 604 - Marketing and Distribution Practices
- 609 - Economic Theory and Methods
- 610 - Domestic Policy Analysis
- 721 - Insects and Other Pests Affecting Humans
- 722 - Zoonotic Diseases and Parasites Affecting Humans
- 803 - Sociological and Technological Change Affecting Individuals, Families, and Communities
- 804 - Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

- 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 (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

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

Description

2. Data Collection Methods

- Sampling
- Mail
- On-Site
- Structured
- Observation
- Other (Electronic)

Description

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 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. By 2011, all of the extension effort in nutrition and health will be focused on the Childhood Obesity Initiative due to the seriousness of the issue in the state. Thus no effort will be reported under the stated-defined outcome Human Nutrition and Food for extension.

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%		50%	
502	New and Improved Food Products	0%		20%	
503	Quality Maintenance in Storing and Marketing Food Products	0%		5%	
702	Requirements and Function of Nutrients and Other Food Components	5%		20%	
703	Nutrition Education and Behavior	95%		5%	
	Total	100%		100%	

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

In the U.S. in 2009, Louisiana ranked 47th in health, 4th in obesity, 1st in diabetes-related deaths, 7th in diabetes, and 8th in high blood pressure. Nearly 2/3 of adults are obese/overweight, 10.6% of residents were diagnosed with diabetes, and 35.6% of 10 to 17-year-olds are overweight. In youth, type 2 diabetes is increasing. In the elderly, macular degeneration is the leading cause of blindness. Offering programs in nutrition and health to improve nutritional status and improve health is a high priority in Louisiana.

2. Scope of the Program

- In-State Research

- Multistate Research
- 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
2011	0.0	0.0	13.0	0.0
2012	0.0	0.0	12.0	0.0
2013	0.0	0.0	11.0	0.0
2014	0.0	0.0	11.0	0.0
2015	0.0	0.0	11.0	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"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations 	<ul style="list-style-type: none"> • Public Service Announcement • Newsletters • TV Media Programs • Web sites • Other 1 (Social media)

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

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	18	0	18
2012	16	0	16
2013	15	0	15
2014	15	0	15
2015	15	0	15

V(H). State Defined Outputs

1. Output Target

- Number of Web page views

2011:300000 2012:300000 2013:300000 2014:300000 2015:300000

- Number of Web page visits

2011:200000 2012:200000 2013:200000 2014:200000 2015:200000

V(I). State Defined Outcome

O. No.	Outcome Name
1	Participants are knowledgeable about and adopt healthy weight management practices

Outcome # 1

1. Outcome Target

Participants are knowledgeable about and adopt healthy weight management practices

2. Outcome Type : Change in Action Outcome Measure

2011:200 2012:200 2013:200 2014:200 2015:200

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

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

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

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Mail

- On-Site
- Structured
- Case Study
- Observation
- Other (Electronic)

Description

{NO DATA ENTERED}

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

Consumer Economics

2. Brief summary about Planned Program

Through the consumer economics 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	50%		100%	
801	Individual and Family Resource Management	50%		0%	
	Total	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. 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. The state's priority issues that will be addressed are:

1. Hurricanes Katrina and Rita damaged or destroyed nearly 1/3 of Louisiana's housing units and many are still uninhabitable. Goal: Conduct home buyer education programs.
2. Louisiana's economy and unemployment rate coupled with the the lingering effects of the devastating hurricanes have resulted in
3. Louisiana high school seniors answered correctly only 45.3% of questions on survey of personal financial basics. Goal: Conduct financial management education for high school students.
4. 25-60% of American workers suffer from severe financial distress. Three of four Americans are not saving enough. Average credit card debt per borrower is \$5,710. Goal: Educate consumers on ways to increase savings and decrease debt.
5. LA has high rates of recidivism among newly released offenders. Goal: Provide financial management classes for probationers and parolees. 10% of all LA mortgages being past due. As a result, foreclosure rates are expected to rise. Goal: Conduct statewide training on foreclosure avoidance.

2. Scope of the Program

- In-State Extension
- Multistate 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
2011	9.0	0.0	1.0	0.0
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

V(F). Planned Program (Activity)

1. Activity for the Program

Conduct home-buyer education, foreclosure avoidance, high school financial management, and saving and investing for life classes throughout the state. Work with recently-released offenders and prisoners to learn money management skills.

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

Extension

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

- Education Class
- Workshop
- Group Discussion
- One-on-One Intervention

- Public Service Announcement
- Newsletters
- TV Media Programs
- Web sites

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)

1. Standard output measures

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

	Direct Contact Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2011	25000	10000	20000	3000
2012	25000	10000	20000	3000
2013	25000	10000	20000	3000
2014	25000	10000	20000	3000
2015	25000	10000	20000	3000

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

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

3. Expected Peer Review Publications

Year	Research Target	Extension Target	Total
2011	1	5	6
2012	1	5	6
2013	1	5	6
2014	1	5	6
2015	1	5	6

V(H). State Defined Outputs

1. Output Target

- Number of Web page visits

2011:30000

2012:30000

2013:30000

2014:30000

2015:30000

- Number of Web page views

2011:50000

2012:50000

2013:50000

2014:50000

2015:50000

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

2011:50 2012:50 2013:50 2014:50 2015:50

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

Description

{NO DATA ENTERED}

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

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Time series (multiple points before and after program)
- Case Study

Description

{NO DATA ENTERED}

2. Data Collection Methods

- Sampling
- Whole population
- Mail
- On-Site
- Case Study

- Observation
- Tests
- Other (Electronic)

Description

{NO DATA ENTERED}