

2013 Southern University and A&M College Combined Research and Extension Plan of Work

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I. Plan Overview

1. Brief Summary about Plan Of Work

The mission of the Southern University Agricultural Research and Extension Center; in its land-grant role, is to conduct statewide basic and applied research and to disseminate information to the citizens of Louisiana in a manner that is useful in addressing their scientific, technological, social, economic and cultural needs. The FY 2013-2017 Rolling Plan of Work (POW) for the Agricultural Research and Extension Formula Funds submitted by Southern University Agricultural Research and Extension Center (SUAREC) covers the period October 1, 2013 through September 30, 2017. This POW consists of one consolidated and integrated plan for both the research and extension programs at Southern University. In order to address the needs of Louisianan citizens and the USDA/NIFA Priority Areas, the Southern University Agricultural Research and Extension Center places emphasis on the following programs or broad areas:

I. SUSTAINABLE AGRICULTURAL SYSTEMS

II. URBAN FORESTRY AND NATURAL RESOURCE MANAGEMENT

III. NUTRITION AND HEALTH

IV. FAMILY AND HUMAN DEVELOPMENT

V. YOUTH DEVELOPMENT

VI. ECONOMIC AND COMMUNITY DEVELOPMENT

Program area I will address **Global Food Security and Hunger**; Program area II will address **Climate Change and Sustainable Energy**; Programs area III will address **Childhood Obesity and Food Safety**; Program area V will also address **Childhood Obesity**; and Program areas IV and VI will address **Other** priority issues such as family, community and economic development. The goal is to serve diverse audiences who have limited social and economic resources, to improve their access to positive opportunities through research and outreach education. SUAREC aims to help small-scale and limited resource farmers and ranchers develop and/or maintain viable farming operations that are in harmony with the environment, help communities build capacity to enhance the growth and development of the business and industrial sectors, and improve the quality of life for families and youth throughout the State. To ensure that clientele needs are addressed effectively, the research and extension programs target the same clients. Research projects are designed with inputs from stakeholders and the findings are specially packaged and disseminated by the extension agents. There is a very close working relation among the planned programs. For instance, Youth Development Program benefits extensively from Sustainable Agricultural Systems. This relationship will be necessary in addressing NIFA Priorities in a holistic manner. Youth Development Program also benefits from Nutrition and Health Program in an effort to address childhood obesity and food safety. Additionally, lessons learned from natural disasters - hurricanes Katrina and Rita in 2005, and hurricane Gustav in 2008; and the 2010 oil spill will enable the Center to utilize its planned programs to respond to some needs of citizens.

It is important to note that since 2008, state operating budget for the SU Ag Center has been reduced by about 45 percent. This is an issue of concern because by this reduction, the Center is limited in aggressively pursuing external grants and contracts that require matching. With more than three severe hurricanes and an oil spill in the last in the last seven years, citizens of Louisiana desperately need the services of our research and extension program more than ever to help them rebuild their families.

Nevertheless, the Center's personnel will continue, amidst limited funding, to vigorously seek grants and contracts.

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

Year	Extension		Research	
	1862	1890	1862	1890
2013	0.0	45.0	0.0	44.0
2014	0.0	45.0	0.0	44.0
2015	0.0	45.0	0.0	44.0
2016	0.0	45.0	0.0	44.0
2017	0.0	45.0	0.0	44.0

II. Merit Review Process

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

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

2. Brief Explanation

All NIFA funded programs/projects and others seeking funding are subjected to a thorough scientific and educational peer review process. A Proposal Review and Evaluation Committee (PREC) comprising of faculty and staff from SUAREC and the greater university community has been established. It operates as a standing committee to review proposals to ensure consistency with standard agency guidelines and other established scientific and educational criteria. Proposals usually undergo strict review, scrutiny and endorsement by discipline peers, program head, and a select review committee. Proposals are normally sent to external university and other experts for review and suggestions. Additionally, each proposal must show clear evidence of stakeholder input prior to approval by the Vice Chancellor for Research and/or Vice Chancellor for Extension. A request was submitted to the United States Department of Agriculture/National Institute of Food and Agriculture (USDA/NIFA) in Washington, D.C. for a comprehensive review of the research program in the fall of 2004. A review team headed by a senior staff of the CSREES (now NIFA) reviewed the Center's research projects for relevancy of the research to local and national needs, program performance (output, outcomes, and impacts), adequacy of resources to meet program objectives, and the interrelationship between research and extension. Findings provided by the team indicated that SUAREC's research projects are accomplishing targeted objectives. Other recommendations from the team are incorporated in this plan and also for program direction and allocation of resources. Also, facilities recommendations from senior program staff of NIFA was reviewed and are incorporated in this plan and other related activities. Additionally, SUAREC will continue to conduct internal evaluation of all research and extension programs to ensure that they are

meeting the needs of its clients.

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?

SUAREC's research and extension programs, the federal 5-year rolling plan of work and the state strategic plan are developed based on information from the stakeholders and partners such as, Parish Advisory Councils, parish plans of work, the Louisiana Cooperative Extension Service, parish review teams, needs assessments, evaluation studies, Strategic Planning Meetings, Joint Research-Extension Exchange Meetings, the Chancellor's Executive Council, Federal and State Agencies, Commodity Organizations, and Land Grant Institutions. Information collected from these sources by the Office of Planning and Evaluation is made available to the Research and Extension administrators and staff who in turn utilize them to plan programs/projects to address needs/problems based on identified priorities. Surviving through the current economic downturn and global financial crisis is of utmost importance in the minds of individuals and families. SUAREC planned programs will continue to conduct research and provide both research-based educational information and assistance that will address their needs.

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

SUAREC extension offices and agents are strategically located in areas such that their services are easily accessible to the under-served and under-represented. This POW builds on expert recommendations as outlined on the following state plans/initiatives: the Louisiana Solutions to Poverty Initiative (Governor's Summit on Solutions to Poverty 2005); the Louisiana Vision 2020; and the Master Plan for Post Secondary Education (Louisiana). Historically, SUAREC has addressed problems confronting traditionally under-served and under-represented farmers, socially and economically disadvantaged families, and economically distressed rural and urban communities. Research and extension efforts are aimed at assisting these communities in becoming economically, environmentally, and socially sustainable. Within SUAREC, there exist several programs that were established to emphasize research and educational programs aimed at improving the social and economic conditions of low-income and under-served citizens of the State. SUAREC is committed to strengthening families living in poverty and to help them reach a level of self-sufficiency. The current economic crisis has further worsened the plight of the under-served and under-represented, SUAREC will continue to provide research-based educational information to address the needs of this target group.

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

Performance indicators will be used to measure progress in accomplishing the objectives set by the plan of work. Regular surveys or evaluations will be conducted at all planned activities where feasible. Participants will be asked to indicate their needs and if they learned from the activities; what actions they plan to take or what actions they are taking; the potential benefits of the activities or actual social, economic, civic and/or environmental benefits. Traditional reports will be submitted to the state and federal governments and to other stakeholders. These reports will be compiled from the monthly, quarterly, and annual reports submitted by the Center's faculty and staff.

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

To ensure effectiveness and efficiency, evaluation will be ongoing for all programs.

Evaluation of needs, which was the foundation of the plan, will be used to determine if assessed needs are being met by the programs. Also, monitoring, process and outcome evaluations will be conducted regularly and in a timely manner to assess program results. Stakeholders' inputs are a major part of the planning process. Also, during evaluations, participants' opinions and comments/suggestions will be incorporated into the process and utilized when revising the plan. Further, regular monitoring, on-site observation and focus groups will be employed to determine the extent to which program activities conducted met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program activities.

IV. Stakeholder Input

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

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

Brief explanation.

SUAREC has a vibrant technology services department which helps in the design, publishing, video production, broadcasting, and publicizing of most activities. Research and extension faculty and staff utilize the services of this department in announcing public meetings and activities in various media. Also, research and extension faculty and staff maintain a database of traditional stakeholder groups and individuals for contact. Each contact method used normally provides useful information on how stakeholder groups and individuals can contact SUAREC's agents. Furthermore, SUAREC has a culture of conducting regular survey of clients to assess their needs and seek their inputs for program planning and development. Surveys are conducted at every planned workshop or training session to collect similar data. Survey questions will seek to determine the extent to which program activities conducted met and addressed the traditional needs of participants and how meeting non-traditional needs of citizens can be incorporated into program activities to address the needs of the greater community. Both traditional and non-traditional groups and individuals will be targeted.

2(A). A brief statement of the process that will be used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Use Internal Focus Groups
- Needs Assessments
- Use Surveys

Brief explanation.

Parish Advisory Councils are the grassroots resource groups for each extension agent. These Councils are comprised of clients, community leaders, state and local government

officials, and other stakeholders who identify community needs and/or resources, programs and projects to address them. Agents communicate identified needs to the program area specialists in the state office through reports and personal consultations. SUAREC's Office of Planning and Evaluation conducts survey of clients to seek their inputs in assessing programs already in place, gather data on areas of needs, and assess the benefits of existing programs. These findings are vital to the conceptualization and implementation of research and extension programs that will ensure improved quality of life. Reports are presented to the SUAREC Executive Council for incorporation into the POW. The Chancellor's Executive Council has representatives from the following offices - research, extension, finance and administration, technology, planning and evaluation, and development. The Council advises the Chancellor on ways to ensure greater stakeholder input in identifying and planning meaningful, effective and efficient research, education and outreach programs to benefit the citizenry of the state of Louisiana.

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

Brief explanation.

Extension agents and program area specialists hold meetings regularly with various stakeholder groups to get their feedback regarding SUAREC programs and activities. Meetings with non-traditional groups and individuals such as community leaders, parish officials, and other agency officials, to seek input are also carried out both at the local and state levels. Formal and informal meetings are held. Faculty and staff are encouraged to (and they do) participate in community activities where they can meet and interact with non-traditional groups and individuals throughout the state. With already established relations with federal and state agencies, community groups, leaders, the faith community and individuals, both research and extension personnel will utilize available resources at their disposal to interact and obtain important inputs. The Louisiana Cooperative Extension Service (LCES) and the collaborative/cooperative efforts in research and extension with other institutions in the state will serve as additional resources to collecting stakeholders' inputs.

In addition, SUAREC conducts several formal surveys and evaluations annually including customer satisfaction surveys, and also during all workshops, conferences, classes, and seminars. In each instance, respondents (stakeholders) usually have opportunity to provide important inputs normally used to develop activities and programs included in the plan of work. Further, as a state funded institution, SUAREC complies with the mandates of the Southern University System strategic plans and directives, the Master Plan for Post Secondary Education (Louisiana Board of Regents), the State Strategic Plan, and the various economic development plans by local governments.

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 Staff Hiring Process
- In the Action Plans
- To Set Priorities
- Other (Determining strategic directions)

Brief explanation.

The Program Development Conference is a meeting that brings together both research and extension faculty and staff from each of the planned program areas of SUAREC to create a comprehensive 5-year Plan of Work (POW) and also a 5-year Strategic Plan that meets and addresses state, regional, and national needs. General needs and strategic directions are dialogued during these meetings. The Louisiana Cooperative Extension Service involving both SUAREC (1890) and LSU (1862) also dialogue annually on emerging needs, priorities, and strategic directions for the state. Recommendations are forwarded to research and extension administrators who in turn meet with their unit heads to reassess and redirect programs. The SUAREC Executive Council receives the recommendations and utilizes them after careful consideration, evaluation of impacts and consistency of accountability in setting new priorities, staffing, and budgeting.

V. Planned Program Table of Content

S. No.	PROGRAM NAME
1	Global Food Security and Hunger
2	Climate Change
3	Food Safety
4	Childhood Obesity
5	Sustainable Energy
6	Economic and Community Development
7	Family and Human Development
8	Youth Development

V(A). Planned Program (Summary)

Program # 1

1. Name of the Planned Program

Global Food Security and Hunger

2. Brief summary about Planned Program

To address Global Food Security and Hunger, the plant and animal components will conduct research and disseminate research-based information dealing with forage development and utilization for cattle and goats (cattle and goats grazing together or separately in controlled and continuous grazing system). This is a multidisciplinary project involving scientists in animal science, plant and soil sciences, and agricultural economics. Swine research involves the use of seafood waste as feed supplements to livestock. Also, sustainable agriculture research seeks alternative and more profitable means of producing and marketing quality products. Other areas of research and information dissemination include vegetable and agronomic production, organic farming and processing, alternative crop production, value-added products, processing and marketing. Information provided to citizens will enhance their knowledge of food nutrition, quality and availability.

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 : No

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		10%		10%
205	Plant Management Systems		20%		20%
301	Reproductive Performance of Animals		10%		10%
302	Nutrient Utilization in Animals		20%		20%
307	Animal Management Systems		30%		30%
313	Internal Parasites in Animals		5%		5%
601	Economics of Agricultural Production and Farm Management		5%		5%
	Total		100%		100%

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

1. Situation and priorities

Global food security and eradication of hunger are major priority areas of focus for the SU Ag Center. Working to ensure sustainable animal and plant productivity and profitability are of paramount importance to the agricultural sector of Louisiana. About 50 million people live in food insecure households in the US; about 33 million are adults (14.4 percent of all adults) and 17 million are children (22.5 percent of all children). Louisiana is ranked at number 36 in food insecurity with about 12 percent of its citizens living in food insecure households. A wide variation exists in agricultural productivity and profitability. The average farm size in Louisiana is 269 acres. Farms vary in size from large commercial operations to small-scale operations. The latter are faced with the greatest challenge to generate sufficient income. According to the 2007 Census of Agriculture, of the 30,106 farms in the state, 24,022 (or about 80 percent) reported sales below \$25,000 annually. Economic opportunities exist for small agricultural producers who adopt alternative livestock and crop enterprises. Thus, there is need for research on production and management systems pertaining to goats, rabbits, vegetables, fruits, and herbs. The average age of an active participant in the farming community in the state of Louisiana is 57.3 years, up from 55.1 years in 2002. The current trend is such that youth are not being involved or are not interested in being involved in production agriculture. If farm families and agricultural based communities are to survive, more youth must realize the benefits of rural life and become engaged in maintaining their communities. Additionally, appropriate information and resources must be available for their use in the decision making processes. Stakeholder advisory councils and surveys of traditional and non-traditional groups suggest that critical areas of need for the state are: alternative commodities, risk management, access to capital, alternative markets, management, access to training, and agricultural mediation issues. Eliminating global food insecurity and hunger requires mobilization of available resources to ensure sustainability of agriculture and profitability for farmers in the US and Louisiana in particular.

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, and hire additional staff to execute programs).
3. Present trends in global food insecurity and hunger may continue.
4. Present economic crisis will be reversed.
5. Clients will participate, respond, and adopt new/innovative techniques.

2. Ultimate goal(s) of this Program

1. Improve agricultural sustainability and profitability.
2. Promote good environmental stewardship.
3. Promote stable, prosperous farms, families and communities.
4. Reduce hunger among the citizens and ensure food security.

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
2013	0.0	7.0	0.0	20.0
2014	0.0	7.0	0.0	20.0
2015	0.0	7.0	0.0	20.0
2016	0.0	7.0	0.0	20.0
2017	0.0	7.0	0.0	20.0

V(F). Planned Program (Activity)

1. Activity for the Program

1. Conduct research and experiments using cattle, goats, swine, poultry, vegetables, pasture, forage, and other plants.
2. Continue to maintain facilities, modernize facilities and acquire adequate land for research and extension programs.
3. Conduct workshops, demonstration plots, training sessions, and one day and/or multiple field days for farmers especially small and limited resource producers.
4. Deliver services to producers and potential producers. Conduct assessment; work with media to disseminate important information to clients and stakeholders.
5. Conduct farm and site visits, field days, shows and encourage client and potential client participation.
6. Collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens and work to eliminate hunger in the population.
7. Continue to create and enhance marketing opportunities in traditional and alternative outlets, such as farmer's markets, community supported agriculture (CSA), and other outlets.
8. Provide nutrition and healthy lifestyle education to citizens.

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

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Farm/Home visits) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites other than eXtension ● Other 1 (Radio Programs) ● Other 2 (Newspaper/Print Media)

3. Description of targeted audience

Our target audience includes (but is not limited to) , small producers, limited resource producers, socially and economically disadvantaged individuals, the underrepresented, the underserved, women, and minorities. Others are youth 13 - 18 years, policy makers, community leaders/stakeholders, interested agencies and organizations.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
 - 2. Number of educational contacts
 - 3. Number of published materials distributed
 - 4. Number of research & extension outreach publications developed (in-house)
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(I). State Defined Outcome

O. No	Outcome Name
1	1. Percent of clients who gained new knowledge/skills, awareness and/or changed attitudes
2	NATIONAL Outcome #1: Enhanced capacity of a sustainable global food system including new/improved plans, animals, technologies and management systems
3	NATIONAL OUTCOME #2: More sustainable, diverse, and resilient food systems across scales.
4	NATIONAL OUTCOME #3: Improved national and global capacity to meet growing food demands.

Outcome # 1

1. Outcome Target

1. Percent of clients who gained new knowledge/skills, awareness and/or changed attitudes

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 301 - Reproductive Performance of Animals
- 302 - Nutrient Utilization in Animals
- 307 - Animal Management Systems
- 313 - Internal Parasites in Animals

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

NATIONAL Outcome #1: Enhanced capacity of a sustainable global food system including new/improved plans, animals, technologies and management systems

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 301 - Reproductive Performance of Animals
- 302 - Nutrient Utilization in Animals
- 307 - Animal Management Systems
- 313 - Internal Parasites in Animals
- 601 - Economics of Agricultural Production and Farm Management

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 3

1. Outcome Target

NATIONAL OUTCOME #2: More sustainable, diverse, and resilient food systems across scales.

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 301 - Reproductive Performance of Animals
- 302 - Nutrient Utilization in Animals
- 307 - Animal Management Systems
- 313 - Internal Parasites in Animals

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 4

1. Outcome Target

NATIONAL OUTCOME #3: Improved national and global capacity to meet growing food demands.

2. Outcome Type : Change in Condition Outcome Measure

3. Associated Knowledge Area(s)

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 301 - Reproductive Performance of Animals
- 302 - Nutrient Utilization in Animals
- 307 - Animal Management Systems
- 313 - Internal Parasites in Animals
- 601 - Economics of Agricultural Production and Farm Management

4. Associated Institute Type(s)

- 1890 Extension
- 1890 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

Lessons learned from natural disasters especially Hurricanes Katrina and Rita of 2005 and Gustav of 2008 remind us that we have to plan for external factors. Louisiana, due to its geographical location, is prone to both adverse and beneficial weather conditions which could affect program outcomes. Secondly, the state economy relies heavily on oil production. An increase or decrease in oil prices can increase or decrease the state's revenues respectively, thus impacting severely on budget appropriations. Additionally, both federal and state dollars received via formula funds have been "flat" for several years. An increase in the consumer price index will definitely reduce the purchasing power of these funds. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be conducted. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally competent, stakeholders' involvement and inputs will continue to be strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs regarding continuation of established priorities, goals and objectives or making changes to them. Performance indicators will be used to measure progress in accomplishing the objectives set by the Center. Evaluation studies will ensure that educational programs implemented are available and useful to all citizens of Louisiana and primarily to clients in the areas of food, agricultural and human sciences, and to urban and rural dwellers, youth, government officials, faith and community leaders, and families.

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Climate Change

2. Brief summary about Planned Program

This planned program will address Climate Change and Sustainable Energy through the use of Geographic Information System (GIS) and selected models to quantify the following: urban forest structure and function; the environmental benefits of urban forests; carbon sequestration and the urban forest effects on air quality; and urban forest effects on UV exposure in relation to proper vegetation design. The program will conduct collaborative studies with federal, state, and other agencies to address urban sprawl, heat island, environmental stress, plant biosecurity, air quality improvement and species rating pertaining to urban forest and urban ecosystems. It will also provide education and training for Louisiana citizens especially minorities, in the practice of using urban wood from municipal tree removals for traditional wood products. Also, it will provide training to empower minorities through ownership and pollution reduction from landfills. The program will continue its gulf coast weather and climate studies so as to provide pertinent information to assist citizens, government, and other groups in planning and managing economic and natural resources as a process of minimizing loss due to natural disaster such as hurricanes Katrina and Rita of 2005 and hurricane Gustav of 2008. Pollution prevention and mitigation research and educational programs will also be a part of this program. An outreach program on wildlife habitat and native grasses has been ongoing to encourage land owners to participate in conservation.

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 : No

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		10%		10%
124	Urban Forestry		45%		45%
132	Weather and Climate		10%		10%
133	Pollution Prevention and Mitigation		10%		10%
134	Outdoor Recreation		5%		5%
205	Plant Management Systems		5%		5%
403	Waste Disposal, Recycling, and Reuse		15%		15%
	Total		100%		100%

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

1. Situation and priorities

Climate change and the associated environmental issues are well known to citizens. Urban forests and their effects on society and the environment are becoming increasingly recognized and important, yet little is known about this resource. In order to have a comprehensive and integrated urban forest resource management system, urban planners need to utilize the full range of technological resources at their disposal to mitigate the effects of declining air quality, enhanced ultraviolet (UV) radiation loads, elevated carbon dioxide levels leading to the "urban heat islands" phenomenon, loss of green space and habitat for urban wildlife, urban pest, storm water runoff, as well as rising utility costs for urban dwellers. Urban and community forestry is no longer just basic street tree planting. It is an essential and highly valued component of numerous large-scale, long-term environmental and community sustainability projects. Urban and community forests improve environmental quality, enhance individual and community well being, provide a range of services to communities, and produce a healthier environment for the majority of the U.S. population. In the United States over 200 million cubic yards of urban tree and landscape residue are generated every year. This leads to a higher demand for wood and wood products, which places more of a demand on forestlands, and imported forest products. The use of recycled wood in our urban area could potentially contribute to the conservation of forestland resources by generating wood products from trees that need to be removed. A community-based education program on waste reduction and recycling and an effort to educate citizens and small minority tree care businesses on how to utilize wood following removal would greatly enhance Louisiana's economy and reduce pollution from landfills and space. Increased availability of organic residues from cities are renewing interest in the use of organic mulches, not only in the traditional application of crop residues, but also in the use of composted and uncomposted urban wastes. Increased availability of organic residues from cities is renewing interest in the use of organic mulches, not only in the traditional application of crop residues, but also in the use of composted and uncomposted urban wastes. Hurricanes Katrina and Rita (2005) and Gustav (2008) seriously impacted Louisiana and especially the urban areas leaving them with large amounts of tree residues in addition to lost trees and vacant areas which need to be replanted. Also, in recent years, plant biosecurity issues have come to the forefront for both research and extension. Educational programs to help citizens know the right tree for the right place, understand air quality for the trees, energy conservation, how to

plant a tree, insects and diseases of trees, legal issues, tree hazards ID's, tree appraisal, and where to report problems and obtain useful information would greatly enhance their knowledge and awareness of the need to protect the environment.

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, and hire additional staff to execute programs).
3. Present trends in global food insecurity and hunger may continue.
4. Present economic crisis will be reversed.
5. Clients will participate, respond, and adopt new/innovative techniques.

2. Ultimate goal(s) of this Program

1. Enhance the understanding of the urban forest ecosystem, improve the management of urban forests and natural resources worldwide to ensure a more healthy environment.
2. Utilize cutting edge spatial technologies and environmental simulation to address the role of urban forest ecosystem in urban water quality and urban hydrology.
3. Strengthen the knowledge base of citizens in the utilization and profitability of urban waste wood.
4. Enhance minority participation in urban forestry natural resource management.
5. Enhance the understanding of climate change and its impact on the natural resources through research, education, and outreach.

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
2013	0.0	3.0	0.0	5.0
2014	0.0	3.0	0.0	5.0
2015	0.0	3.0	0.0	5.0
2016	0.0	3.0	0.0	5.0
2017	0.0	3.0	0.0	5.0

V(F). Planned Program (Activity)

1. Activity for the Program

1. Research and quantify the environmental benefits of urban forests, carbon sequestration and the urban forest effects on air quality.
2. Research and quantify urban forest effects on UV exposure in relation to proper vegetation design.
3. Communicate research results and other information with citizens through extension personnel in the form of publications, conferences, workshops, field days, home/office visits, demonstrations and other educational resources.
4. Prepare publications such as research reports and highlights based on gulf coast climate/weather studies, plant biosecurity and disseminate information to citizens through extension personnel in the form conferences, workshops, field days, home/office visits, demonstrations and other educational venues.
5. Areas affected by past hurricanes and other natural disasters will receive specific attention to enable them rebuild their tree population.
6. Collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens.
7. Assist citizens in developing disaster/emergency plan including mechanisms for assistance to victims

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

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Site Visits) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites other than eXtension ● Other 1 (Radio Programs) ● Other 2 (Newspapers/Print Media)

3. Description of targeted audience

Target audience includes all citizens such as homeowners, metro areas, garden clubs, arborists, small producers, limited resource producers, socially and economically disadvantaged, women, minorities, and communities. Others are youth (13 - 18 years and even those in grades K-8), community leaders/stakeholders, interested agencies and organizations.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
- 2. Number of educational contacts
- 3. Number of published materials distributed
- 4. Number of research & extension outreach publications developed (in-house)

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

V(I). State Defined Outcome

O. No	Outcome Name
1	1. Percent of clients who gained new knowledge/skills, and awareness
2	2. Percentage of adoption rate for recommendations by clients.
3	National Outcome #1: Development of new knowledge and technologies

Outcome # 1

1. Outcome Target

1. Percent of clients who gained new knowledge/skills, and awareness

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 132 - Weather and Climate
- 133 - Pollution Prevention and Mitigation
- 134 - Outdoor Recreation
- 403 - Waste Disposal, Recycling, and Reuse

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

2. Percentage of adoption rate for recommendations by clients.

2. Outcome Type : Change in Condition Outcome Measure

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 132 - Weather and Climate
- 133 - Pollution Prevention and Mitigation
- 134 - Outdoor Recreation
- 403 - Waste Disposal, Recycling, and Reuse

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 3

1. Outcome Target

National Outcome #1: Development of new knowledge and technologies

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 124 - Urban Forestry
- 132 - Weather and Climate
- 134 - Outdoor Recreation
- 205 - Plant Management Systems

4. Associated Institute Type(s)

- 1890 Extension
- 1890 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

Lessons learned from the natural disasters especially Hurricanes Katrina and Rita of 2005 and Hurricane Gustav of 2008 remind us that we have to plan for external factors. Louisiana, due to its geographical location, is prone to both adverse and beneficial weather conditions which could affect program outcomes. Secondly, the state economy relies heavily on oil production. An increase or decrease in oil prices can increase or decrease the state's revenues respectively, thus impacting severely on budget appropriations. Additionally, both federal and state dollars received as formula funds have been "flat" for several years. An increase in the consumer price index will definitely reduce the purchasing power of these funds. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be conducted. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally competent, stakeholders' involvement and inputs will continue to be strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs regarding continuation of established priorities, goals and objectives or making changes to them. Performance indicators will be used to measure progress in accomplishing the objectives set by the Center. Evaluation studies will ensure that educational programs implemented are available and useful to all citizens of Louisiana and primarily to clients in the areas of food, agricultural and human sciences, and to urban and rural dwellers, youth, government officials, faith and community leaders, and families.

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Food Safety

2. Brief summary about Planned Program

Food-related diseases affect tens of millions of people and kill thousands. Tracking single cases of foodborne illness and investigating outbreaks are critical public health functions in which Center for Disease Control (CDC) is deeply involved. (CDC Homepage) Research scientists and extension personnel in Nutrition and Health Program at the SU Ag Center will collaborate and work with citizens of Louisiana to increase their understanding of the impacts of foodborne illnesses. The goal is to help citizens especially the elderly, low income, educationally disadvantaged and poor families enhance their skills in proper food selection, storage and preparation. To ensure a sustainable and safe food, research and educational information will also be directed at producers, food businesses and food handlers.

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 : No

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		10%		10%
702	Requirements and Function of Nutrients and Other Food Components		10%		10%
703	Nutrition Education and Behavior		20%		20%
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources		10%		10%
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins		20%		20%
724	Healthy Lifestyle		30%		30%
	Total		100%		100%

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

1. Situation and priorities

The CDC estimates that each year roughly 1 out of 6 Americans (or 48 million people) gets sick, 128,000 are hospitalized, and 3,000 die from foodborne diseases. The 2011 estimates provide the most accurate picture of which foodborne bacteria, viruses, microbes ("pathogens") are causing the most illnesses in the United States, as well as estimating the number of foodborne illnesses without a known cause. (CDC Homepage) Increasingly, fresh fruit and vegetable products have been implicated as the source for foodborne pathogens causing foodborne illnesses. This may be the result of increased consumption of fresh produce coupled with better understanding of pathogens and their capabilities to cause illness. Outbreaks due to Salmonella and E-Coli contamination are also widely prevalent. These foodborne outbreaks have induced the FDA to look more closely at fresh produce processing. This has led to the development of recommendations for some commodity producers, that precautions be taken in the fields and during post-harvest processing and handling to prevent pathogen contamination. Some Louisiana environmental conditions provide great opportunities for food borne illnesses particularly the hot humid climate. As a way of life, Louisiana citizens participate in many outdoor events where foods are pre-cooked, kept for a longer period and served outside. Sometimes, there are not enough facilities to keep such foods hot or cold (as the case may be) until all is consumed. Between 1980 and 2006 there were 182 outbreaks of food poisoning in Louisiana. Research indicates that handling food correctly can prevent 90 to 95% of food borne illnesses.

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, and hire additional staff to execute programs).
3. Present trends in global food insecurity and hunger may continue.
4. Present economic crisis will be reversed.
5. Clients will participate, respond, and adopt new/innovative techniques.

2. Ultimate goal(s) of this Program

1. Enhance the focus on increasing healthy eating among Louisiana's citizens, especially the economically and socially disadvantaged.
2. Promote food safety and security among citizens and target populations.
3. Expand research and extension activities in nutrition, food safety and health through partnership

and collaboration with other USDA agencies, health care systems, health associations, research institutions, Southern University School of Nursing, Department of Health and Hospitals.

4. Investigate and promote food safety practices in low-income households.

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
2013	0.0	7.0	0.0	6.0
2014	0.0	7.0	0.0	6.0
2015	0.0	7.0	0.0	6.0
2016	0.0	7.0	0.0	6.0
2017	0.0	7.0	0.0	6.0

V(F). Planned Program (Activity)

1. Activity for the Program

1. Collaborate and conduct research on food safety other prevalent foodborne diseases.
2. Promote focus groups; advisory committees; mentor program; use of food safety, safe school food nutrition curriculums; health tips to ensure food safety during school activities
3. Use focus groups, advisory committees, mentor program, etc. to provide awareness to citizens about the impacts of tobacco and tobacco products.
4. Disseminate publications such as fact sheets, newsletters, technical bulletins, research reports, etc. dealing with proper food safety practices.
5. Communicate research results, findings and other useful information with customers through extension personnel in the form of publications, conferences, workshops, home/office visits, demonstrations and other educational resources.
6. Collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens.
7. When funds are available, hire additional experienced personnel and build capacity to respond to clientele needs.

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

Extension	
Direct Methods	Indirect Methods

- | | |
|--|--|
| <ul style="list-style-type: none">● Education Class● Workshop● Group Discussion● One-on-One Intervention● Demonstrations● Other 1 (Home Visits) | <ul style="list-style-type: none">● Public Service Announcement● Newsletters● TV Media Programs● Web sites other than eXtension● Other 1 (Radio Programs)● Other 2 (Newspapers/Print Media) |
|--|--|

3. Description of targeted audience

There is a large number of low income and limited resource families in Louisiana that are found in target areas which SUAREC serves. Most of these families live below the poverty level. They lack knowledge, information, and skills to utilize existing resources to improve their diet and ensure food safety. Children and adolescents who are placed at risk and those that are potentially at risk will also be beneficiaries. Additionally, citizens with sedentary jobs who need information on the benefits of regular physical activity and healthy lifestyles will also be targeted. The SU Ag Center will continue to utilize data to identify and target other audiences.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
- 2. Number of educational contacts
- 3. Number of published materials distributed
- 4. Number of research & extension outreach publications developed (in-house)

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

V(I). State Defined Outcome

O. No	Outcome Name
1	National Outcome #1: Increase number of viable technologies to improve food safety
2	National Outcome #3: Increase adoption of recommended safe food handling practices at the individual, family, community, production, and supply system levels.

Outcome # 1

1. Outcome Target

National Outcome #1: Increase number of viable technologies to improve food safety

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 502 - New and Improved Food Products
- 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)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

National Outcome #3: Increase adoption of recommended safe food handling practices at the individual, family, community, production, and supply system levels.

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 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)

- 1890 Extension
- 1890 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

The economy may continue to impact greatly on planned program. As a result of going through the worst recession, many businesses may continue to struggle to stay afloat. Deep reduction in state budgets and the threat of large cuts in Federal Budgets could result in massive layoffs which will add to the burden of unemployment and slow business growth. Also, declining state and local government revenues, if they continue, may force policy makers to make changes in programs, reduce appropriations, review policies, and shift priorities. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be conducted. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally competent, stakeholders' involvement and inputs will continue to be strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs regarding continuation of established priorities, goals and objectives or making changes to them. Performance indicators will be used to measure progress in accomplishing the objectives set by the Center. Evaluation studies will ensure that educational programs implemented are available and useful to all citizens of Louisiana and primarily to clients in the areas of food, agricultural and human sciences, and to urban and rural dwellers, youth, government officials, faith and community leaders, and families.

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Childhood Obesity

2. Brief summary about Planned Program

Youth Development Program in collaboration with the Nutrition and Health Program will address issues pertaining to Childhood Obesity. Research scientists at the SU Ag Center will conduct research to determine the nutrition education needs of school children in Louisiana and develop nutrition intervention strategies for parents and teachers to use in improving food habits, physical activity, and nutrition knowledge. Extension personnel will help to develop appropriate research-based educational information which emphasizes healthy diet at all levels, and teach children the negative impacts of overeating. Other Planned Programs will target youth with their activities to ensure that the message about healthy living is received across the board. African-Americans, Hispanics, low income citizens, the underserved, the economically and educationally disadvantaged and other children/adolescents who have been reported to have high prevalence of overweight and obesity will be especially targeted also. The goal is to help these targeted families enhance their skills in proper food selection (to include fruits and vegetables), preparation, and portion size. Physical activity will continue to be emphasized and incorporated into many outreach activities at all level.

Additionally, youth gardening activities will be developed and youth participants will benefit from learning new techniques about gardening, which can help youth achieve the following: increase nutritional awareness, assist with lowering the obesity rate, save money in low-income households, increase leadership development skills and self-esteem among youth, increase environmental stewardship, and decrease health risks associated with diabetes and heart disease. Those who participate in these activities will be introduced to a variety of nutrition-related technology, gardening, and physical exercises.

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 : No

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
701	Nutrient Composition of Food		10%		10%
702	Requirements and Function of Nutrients and Other Food Components		30%		30%
703	Nutrition Education and Behavior		10%		10%
724	Healthy Lifestyle		50%		50%
	Total		100%		100%

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

1. Situation and priorities

Although poverty has increased throughout the U.S., it remains considerably high among youth in Louisiana with a large percentage accounting for youth under age 18. According to the US Census Bureau, Louisiana ranks in the lower one-third among the 50 states for quality of life for its youth. The state is ranked number one in the number of youth living in poverty, single parent families, health problems, and parents without high school education. These factors place about 60 percent of Louisiana's youth at risk. There are some correlation between poverty and obesity. The prevalence of obesity has steadily increased over the past 35-40 years among children and youth in the U.S. Data from the National Health and Nutrition Examination Survey (NHANES) showed that obesity rates in the U.S. increased from approximately 4 percent in 1971-1974 to approximately 19 percent in 2003-2004 among children (6-11 years) and increased from approximately 6 percent to 17 percent during the same time period among adolescents (12-19 years). Louisiana youth are among the unhealthiest in the nation; 36 percent of 10-17 year olds are overweight and 53 percent don't exercise regularly. (Louisiana Report Card on Physical Activity and Health for Children and Youth, 2010). A total of 9 bills have been passed since 2004 in the Louisiana Legislature relevant to physical activity or the prevention of obesity among children and youth. In 2005, Senate Bill No. 146/Act 331 of the Louisiana Legislature enacted a vending bill which limited certain food items sold during elementary and secondary schools in Louisiana. While there were also restrictions on beverages offered during the school day, House Bill No. 767/Act No. 306 of the 2009 Legislative Session amended Act 331 to further restrict beverages offered in public high schools. The Nutrition and Health Program is aimed at (but not limited to) healthy lifestyles for socially and economically disadvantaged individuals and families to enhance their techniques in choosing, preparing and eating healthy meals, and to enable them to follow healthy food guidelines as published in the USDA Food Pyramid and the USDA Dietary Guidelines for Americans. The rationale is to help families reduce illnesses and weight problems, especially by reducing the number of obese citizens in the state of Louisiana.

2. Scope of the Program

- In-State Extension
- In-State Research
- Multistate Research

- Multistate Extension

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, hire additional staff and execute programs)
3. Present nutrition and health trends will continue.
4. Present economic crisis will be reversed.
5. Clients will participate, gain knowledge, adopt new/innovative techniques and change behaviors.

2. Ultimate goal(s) of this Program

1. To determine the nutrition education needs of school children in Louisiana in order to improve their food habits, physical activity, and nutrition knowledge.
2. To develop nutrition intervention strategies for parents and teachers in Louisiana for use in improving food habits, physical activity, and nutrition knowledge of K-12 and beyond.
3. To determine the effectiveness of nutrition intervention strategies in improving food habits, physical activity, and nutrition knowledge of this population.
4. Provide educational information to rural and urban youth about the consequences of engaging in risky behaviors (i.e., overeating, lack of physical activity, poor eating habits, etc.).
5. Develop youth nutrition and healthy lifestyle activities to teach youth and adults the proper levels of diet to maintain health while reducing the risk of obesity.

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
2013	0.0	5.0	0.0	2.0
2014	0.0	5.0	0.0	2.0
2015	0.0	5.0	0.0	3.0
2016	0.0	5.0	0.0	3.0
2017	0.0	5.0	0.0	3.0

V(F). Planned Program (Activity)

1. Activity for the Program

1. Conduct obesity prevention research and disseminate research-based information to youth, parents, headstart and elementary school teachers, schools administrators, and other citizens/organizations.

2. Research findings and other useful information will be communicated to youth through extension personnel in the form of publications, conferences, workshops, field days, home/office visits, demonstrations and other educational resources.

3. Meetings/workshops; PSA'S, fact sheets, mentoring programs peer counseling will be developed or conducted.

4. Encourage physical activities, youth gardening, and collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to youth and other citizens.

5. Focus on the learning experience of children, youth, and families in communities with at risk environments to increase healthy eating habits.

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

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Home Visits) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites other than eXtension ● Other 1 (Radio Programs) ● Other 2 (Newspaper/Print Media)

3. Description of targeted audience

The program will target youth (K-College) and their families, teachers, faith-based groups, and community organizations. There is a large number of low income and limited resource families in Louisiana that are found in target areas which SUAREC serves. Most of these families live below the poverty level. They lack knowledge, information, and skills to utilize existing resources to improve their diet, nutrition, health, and quality of life. Children and adolescents who are placed at risk and those that are potentially at risk will also be beneficiaries. Parents and/or guardians of these children are also targeted. Additionally, teachers, and other school officials who work with children and adolescents who may be at risk of overweight and obesity will be targeted also. It is also necessary to train program staff and volunteers to ensure effective and efficient delivery of educational information.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
- 2. Number of educational contacts
- 3. Number of published materials distributed
- 4. Number of research & extension outreach publications developed (in-house)

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

V(I). State Defined Outcome

O. No	Outcome Name
1	National Outcome #1: Children practice healthy eating
2	National Outcome #2: Children engage in healthy levels of physical activity
3	National Outcome #3: Families, children, and youth have access to healthy foods

Outcome # 1

1. Outcome Target

National Outcome #1: Children practice healthy eating

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

National Outcome #2: Children engage in healthy levels of physical activity

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 3

1. Outcome Target

National Outcome #3: Families, children, and youth have access to healthy foods

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 703 - Nutrition Education and Behavior
- 724 - Healthy Lifestyle

4. Associated Institute Type(s)

- 1890 Extension
- 1890 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

The economy may continue to impact greatly on planned program. As a result of going through the worst recession, many businesses may continue struggling to stay afloat. Deep reduction in state budgets and the threat of large cuts in Federal Budgets could result in massive layoffs which will add to the burden of unemployment and slow business growth. Also, declining state and local government revenues, if they continue, may force policy makers to make changes in programs, reduce appropriations, review policies, and shift priorities. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be employed. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally contextual, stakeholders' involvement and inputs have been strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs as to continuing with established priorities, goals and objectives or making changes to them. Additionally, performance indicators will be used to measure progress in accomplishing the objectives set by the Center.

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Sustainable Energy

2. Brief summary about Planned Program

This planned program will address Sustainable Energy through the use of Geographic Information System (GIS) and selected models to quantify the following: urban forest structure and function; the environmental benefits of urban forests; and the urban forest effects on quality of life and proper vegetation design. The program will conduct collaborative studies with federal, state, and other agencies to address urban sprawl, environmental stress, bio-energy plant biosecurity, air quality improvement and species rating pertaining to urban forest and urban ecosystems. It will conduct grant writing workshops with communities and organizations to obtain funds for renewable energy, alternative energy, and green projects. It will also provide education and training for Louisiana citizens especially minorities, in the practice of using urban wood from municipal tree removals for traditional wood products.

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 : No

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
123	Management and Sustainability of Forest Resources		30%		30%
124	Urban Forestry		60%		60%
125	Agroforestry		10%		10%
	Total		100%		100%

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

1. Situation and priorities

Consumers in the United States continue to feel the impact of rising energy costs. High energy costs contribute to the rising costs of production factors and ultimately causes increase in the prices of goods and services. Alternative sources of energy are being developed and used in an attempt to reduce the high costs of energy. One other alternative to reducing costs is to ensure energy sustainability. Sustainable energy provides energy to meet the needs of the present consumers without compromising the ability of future generations to meet their needs. Sustainable energy also has the potential of impacting general cost levels and reducing prices of goods and services. In addition, sustainable energy that is environmentally

friendly will help keep the environment clean to ensure less impact of climate change.

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, hire additional staff to execute programs).
3. Present trends in global food insecurity and hunger may continue.
4. Present economic crisis will be reversed.
5. Clients will participate, respond, and adopt new/innovative techniques.

2. Ultimate goal(s) of this Program

1. Provide entrepreneurial management and technical assistance that promote innovative and sustainable management of resources in Louisiana.
2. Assist communities and organizations to build their capacity as they accomplish their mission of ensuring sustainable energy.
3. Help local community and organizational leaders and residents acquire skills, obtain relevant information/data and build management capacity to successfully manage a community or city, thus developing the policies and strategic plans and alliances needed for this success.
4. Support an improved quality of life and growing diversity of targeted communities in the state of Louisiana.
5. Promote active partnerships between businesses, community based organizations, public agencies in ensuring sustainable energy.

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
2013	0.0	3.0	0.0	5.0

Year	Extension		Research	
	1862	1890	1862	1890
2014	0.0	3.0	0.0	5.0
2015	0.0	3.0	0.0	5.0
2016	0.0	3.0	0.0	5.0
2017	0.0	3.0	0.0	5.0

V(F). Planned Program (Activity)

1. Activity for the Program

1. Work with existing organizations to strengthen links between businesses, community based organizations and outreach education.
2. Assist local farmers and land owners/users to develop alternative enterprise initiatives for rural businesses.
3. Empower community leaders and residents in the targeted areas to develop strategic plans for optimum utilization of natural resources.
4. Communicate and disseminate research findings to customers through extension personnel in the form of publications, conferences, workshops, field days, home/office visits, demonstrations and other educational resources.
5. Organize grant writing workshops to empower individuals, businesses and communities enhance their skills on how to write for successful grants.
6. Collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens.
7. Encourage community organizations and resident involvement in developing plans for sustainable energy. Provide community leaders with advice and recommendations regarding best practices in community economic development programs for their communities.

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

Extension	
Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Home/Office Visits) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Newsletters ● TV Media Programs ● Web sites other than eXtension ● Other 1 (Radio Programs) ● Other 2 (Newspapers/Print Media)

3. Description of targeted audience

Rural and urban dwellers, under-represented, underserved, socially and economically disadvantaged groups in traditionally agricultural and urban communities in the State will be targeted for the purpose of encouraging and educating them on the need for, and the benefits of sustainable energy.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
- 2. Number of educational contacts
- 3. Number of published materials distributed
- 4. Number of research & extension outreach publications developed (in-house)

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

V(I). State Defined Outcome

O. No	Outcome Name
1	NATIONAL OUTCOME #5: Increased knowledge & understanding of the biofuels supply chain
2	NATIONAL OUTCOME #7: Develop a diverse and educated workforce for a biofuels industry

Outcome # 1

1. Outcome Target

NATIONAL OUTCOME #5: Increased knowledge & understanding of the biofuels supply chain

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

NATIONAL OUTCOME #7: Develop a diverse and educated workforce for a biofuels industry

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 125 - Agroforestry

4. Associated Institute Type(s)

- 1890 Extension
- 1890 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

Lessons learned from the natural disasters especially the 2005 hurricanes (Katrina and Rita) and 2008 hurricane Gustav remind us that we have to plan for external factors. Louisiana, due to its geographical location, is prone to both adverse and beneficial weather conditions which could affect program outcomes. Secondly, the state economy relies heavily on oil production. An increase or decrease in oil prices can increase or decrease the state's revenues respectively, thus impacting severely on budget appropriations. Additionally, both federal and state dollars received as formula funds have been "flat" for several years. An increase in the consumer price index will definitely reduce the purchasing power of these funds. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be conducted. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally competent, stakeholders' involvement and inputs will continue to be strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs regarding continuation of established priorities, goals and objectives or making changes to them. Performance indicators will be used to measure progress in accomplishing the objectives set by the Center. Evaluation studies will ensure that educational programs implemented are available and useful to all citizens of Louisiana and primarily to clients in the areas of food, agricultural and human sciences, and to urban and rural dwellers, youth, government officials, faith and community leaders, and families.

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Economic and Community Development

2. Brief summary about Planned Program

Economic development allows a community to make itself ready to accommodate the retention, startup, location, or expansion of an enterprise. Economic development occurs as the community's economy is vitalized by the creation of jobs which encourages an increase in personal and community wealth, or the useful distribution of capital that is generated to the locality from external sources. The planned program will continue to work with existing organizations to strengthen economic links between businesses, community based organizations and outreach education. Participants in this program will be provided educational materials dealing with the principles of running profitable businesses, the art of sustainable development and economic diversity. Educational materials and training in business management, finance, taxation, consumer issues, community resource planning and development also be made available to participants. As an important component, this program will ensure that community and economic development efforts are inclusive of all minorities in the state of Louisiana. Louisiana is becoming more culturally diverse and the program will benefit from this rich cultural diversity. Current economic crisis is negatively impacting individuals, families, businesses, and communities. The planned program continues to seek collaboration, cooperation and partnership with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens. Faith community and non-profit organizations will be involved in enhancing the delivery of services to citizens of the state.

To promote community and economic development, three need-based projects have been pilot tested and will continue to be developed as follows:

1. Building Opportunities through Leadership Development (BOLD) - to ensure appropriate and effective leadership training and development for community leaders;
2. Stronger Economies Together (SET) - to provide regional strategic planning assistance to multi-parish areas in rural parts of the states through training and technical support for community leaders.
3. Turning the Tide on Poverty - a collaborative project with the Southern Rural Development Center (SRDC) Which seeks to involve a wide range of community members in seeking a "place-based" solution to poverty grounded in local talents and concerns, and led by local voices.

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 : No

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
601	Economics of Agricultural Production and Farm Management		10%		10%
602	Business Management, Finance, and Taxation		50%		50%
607	Consumer Economics		10%		10%
608	Community Resource Planning and Development		20%		20%
610	Domestic Policy Analysis		5%		5%
903	Communication, Education, and Information Delivery		5%		5%
	Total		100%		100%

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

1. Situation and priorities

The citizens of Louisiana continue to suffer economically as a result of the current economic crisis. The 2010 BP oil spill added to that experience as many Louisianans who earn their livelihood by the seafood industry and other river-based revenues were out of work for sometime. This unfortunate incidence occurred while citizens, especially businesses were trying to recover from the 2005 Hurricanes Katrina and Rita that rendered the economy of most of south Louisiana virtually unviable. Louisiana is ranked among the top five states for poverty and for the opportunities of mainstream America. The poverty rate in U.S is 12.0 percent but, in Louisiana, the rate is 17.0 percent. The poverty rate in rural Louisiana is as high as 27 percent in some parishes (counties). USDA describes eight parishes (East Carroll, Evangeline, Lincoln, Madison, Natchitoches, Orleans, St. Landry and Tensas) in Louisiana as "housing stress parishes". For over forty years, community based organizations have struggled to address problems of social, economic and physical distress in low to moderate-income communities throughout the United States. Despite the impressive growth of community based organizations in Louisiana during the past decade, these organizations face numerous human and organizational deficiencies. To flourish in an economy that demands increased accountability, community based organizations need strategies and directions to be effective in their endeavors. One of the key factors impacting urban and rural communities is the need to have an adequate knowledge and skill based economy to meet the needs of our society. Information and technology impact all types of industries from retail and wholesale to manufacturing and service firms. It is changing the speed of business, the skills of workers, and the expectations of consumers. Linking community and economic development strategies to these trends will be critical. The economic and community development program works with faith-based and other social and civic organizations to explore and develop enterprises that will foster long-term economic viability. The following issues that plague the citizens of the state will be addressed:

- Poverty
- Unemployment
- Lack of (and low) job skills
- Lagging leadership skills
- Low organizational ability

- Low business sustainability
- Youth flight
- Low business development skills
- Low number of affordable housing

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, and hire additional staff to execute programs)
3. Present nutrition and health trend will continue.
4. Present economic crisis will be reversed.
5. Clients will participate, respond, and adopt new/innovative techniques

2. Ultimate goal(s) of this Program

1. Provide entrepreneurial management and technical assistance that promote innovative and sustainable businesses with limited resources in Louisiana.
2. Assist community and faith based organizations to build their capacity as they accomplish their mission.
3. Help local community and organizational leaders and residents acquire skills, obtain relevant information/data and build management capacity to successfully manage a community or city, thus developing the policies and strategic plans and alliances needed for this success.
4. Support an improved quality of life and growing diversity of targeted communities in the state of Louisiana.
5. Promote active partnerships between businesses, community based organizations, public agencies and elected leadership.

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
2013	0.0	5.0	0.0	2.0
2014	0.0	5.0	0.0	2.0
2015	0.0	5.0	0.0	2.0

Year	Extension		Research	
	1862	1890	1862	1890
2016	0.0	5.0	0.0	2.0
2017	0.0	5.0	0.0	2.0

V(F). Planned Program (Activity)

1. Activity for the Program

To address economic and community development issues, Southern University Ag Center will conduct the following activities: work with existing organizations to strengthen links between businesses, community based organizations and outreach education. Assist established businesses with planning, market assessment, management, and marketing strategies. Assist local farmers and other producers to develop alternative enterprise initiatives for rural businesses. Encourage the development of agribusinesses to include utilization of niche markets (vegetables, organic products pasture-raised poultry and beef, etc.) for agricultural producers. Empower community leaders and residents in the targeted areas to develop strategic plans for optimum utilization of natural resources (examples- BOLD, SET, Turning the Tide on Poverty, etc). Conduct research and provide research-based educational information to local and regional government leaders to aid them in policy formulation and strategies to enhance and sustain the small and minority business sector. Communicate and disseminate research-based educational information to citizens through extension personnel in the form of publications, conferences, workshops, field days, home/office visits, demonstrations and other educational resources. Organize grant writing workshops to empower individuals, businesses and communities to enhance their skills on how to write for and obtain successful grants. Collaborate with local, state and federal agencies to conduct a procurement conference for business owners and potential business owners.

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

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Group Discussion ● One-on-One Intervention ● Demonstrations ● Other 1 (Site Visits) 	<ul style="list-style-type: none"> ● Public Service Announcement ● Billboards ● Newsletters ● TV Media Programs ● Web sites other than eXtension ● Other 1 (Radio Programs) ● Other 2 (Newspapers/Print Media)

3. Description of targeted audience

Rural and urban dwellers, and those needing assistance with business start up and expansion are primary targets. Others targets include those who continue to experience high levels of poverty due to lack of economic opportunities. Also, individuals and communities with lack of skills for business start-ups, business expansions, housing, economic development and growth will benefit. Under-represented,

underserved, socially and economically disadvantaged groups in traditionally agricultural and urban communities in the state will also targeted.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
- 2. Number of educational contacts
- 3. Number of published materials distributed
- 4. Number of research & extension outreach publications developed (in-house)

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

V(I). State Defined Outcome

O. No	Outcome Name
1	1. Percent of clients who gained new knowledge/skills or gained awareness
2	2. Percent of adoption rate for recommendations by clients
3	3. Percent of clients who changed behavior or utilized information to gain positive economic results

Outcome # 1

1. Outcome Target

1. Percent of clients who gained new knowledge/skills or gained awareness

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 602 - Business Management, Finance, and Taxation
- 607 - Consumer Economics
- 608 - Community Resource Planning and Development
- 610 - Domestic Policy Analysis
- 903 - Communication, Education, and Information Delivery

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

2. Percent of adoption rate for recommendations by clients

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 602 - Business Management, Finance, and Taxation
- 607 - Consumer Economics
- 608 - Community Resource Planning and Development
- 610 - Domestic Policy Analysis
- 903 - Communication, Education, and Information Delivery

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 3

1. Outcome Target

3. Percent of clients who changed behavior or utilized information to gain positive economic results

2. Outcome Type : Change in Condition Outcome Measure

3. Associated Knowledge Area(s)

- 602 - Business Management, Finance, and Taxation
- 607 - Consumer Economics
- 608 - Community Resource Planning and Development
- 610 - Domestic Policy Analysis
- 903 - Communication, Education, and Information Delivery

4. Associated Institute Type(s)

- 1890 Extension
- 1890 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

The economy may continue to impact greatly on planned program. As a result of going through the worst recession, many businesses may continue struggling to stay afloat. Deep reduction in state budgets and the threat of large cuts in Federal Budgets could result in massive layoffs which will add to the burden of unemployment and slow business growth. Also, declining state and local government revenues, if they continue, may force policy makers to make changes in programs, reduce appropriations, review policies, and shift priorities. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be employed. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally contextual, stakeholders' involvement and inputs have been strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs as to continuing with established priorities, goals and objectives or making changes to them. Additionally, performance indicators will be used to measure progress in accomplishing the objectives set by the Center.

V(A). Planned Program (Summary)

Program # 7

1. Name of the Planned Program

Family and Human Development

2. Brief summary about Planned Program

Many Louisianan families are experiencing social and emotional crises because of current economic crisis, the oil spill tragedy (2010), and continuing disaster recovery (Hurricanes Katrina, Rita, and Gustav). Our target audiences are in need of tremendous assistance especially in the areas of money management, skills development, and family development. The family of today is like never before. Whereas, traditionally, the family consisted of a mother, father and children, today's families may consist of two parents of the same sex, headed by a single parent of either sex or headed by a grandparent. Workshops and educational classes are especially effective in working with this clientele. Educational programs which incorporate hands-on experiences are essential in delivering new knowledge and skills to families. 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 necessary in building needed support at all times, but particularly during stressful times.

To enhance family skills the following programs have been pilot-tested and are being implemented:

1. Emergency Preparedness Training - to provide disaster-ready training to families and community leaders;
2. Child Care Training - to assist child careproviders, especially the socially and economically disadvantaged in obtaining the competency levels of the Child Development Associate (CDA) credentials;
3. Parent Preparing for Success Program (PPSP) - provides effective parenting classes for pregnant women and parents of children under age of 12 months
4. Second Chance 2 Recover- to provide pre-release classes to inmates who are within 3-6 months of being released from prison on parenting, anger management, self-esteem, resume writing, preparing for and attending successful job interviews, etc.

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 : No

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%		10%
801	Individual and Family Resource Management		40%		40%
802	Human Development and Family Well-Being		40%		40%
804	Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures		5%		5%
805	Community Institutions, Health, and Social Services		5%		5%
	Total		100%		100%

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

1. Situation and priorities

The population of Louisiana was estimated to be 4,515,770 in 2009. The percent of children younger than age five was 7.1 (or 317,392). The number of children in Louisiana under 18 years is 1,128,942 which represents 25 percent of the population. Minority groups make up 37 percent of the overall population of Louisiana. The population of Louisiana, like other states, is shifting from rural to more urban areas and from a predominantly white to greater ethnic and racial diversity. Trends in family structure include grandparents raising grandchildren, stepfamilies, single-parent families, a decreasing number of married couples with children, an increase in households who are separated and/or cohabiting, a divorce rate of 50 percent and increasing numbers of single adults living with unmarried partners. Parenting is difficult and most parents have received limited training to prepare them for guiding a child's growth and development. Problems are compounded by dysfunctional family relationships, by limited economic resources, and inadequate social support and parenting education. Income plays a major factor in raising children. The number of women who are in the work force is on the rise.

Many individuals and families in Louisiana continue to experience social and emotional crisis because of disasters, over 365,000 individuals in Louisiana were left homeless after Hurricanes Katrina and Rita. The 2010 oil platform explosion and oil spill and the resulting effects added to the problems that many were already dealing with. 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. Brain development research supports the importance in the child care and the family environment of positive early experiences that enhance children's brain development. Collaboration can offer the possibility of uniting communities to address the needs of families in an efficient and inclusive manner.

- The following issues are widespread in Louisiana:
- Inadequate education and job skills and unemployment
 - Problem with family relations
 - Effects of divorced parents on children
 - Increasing number of single parents

- Lack of affordable housing and jobs
- Stress and lack of self-esteem
- Teenage pregnancy
- High dropout rate in schools
- Effects of cohabitation on marriage and family
- Inadequate facilities for supervised care for children
- Low graduation rate

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, and hire additional staff to execute programs)
3. Present trends will continue.
4. Clients will participate, respond, and adopt new/innovative techniques.

2. Ultimate goal(s) of this Program

1. Respond to the needs of diverse families and family structures by developing educational experiences that stimulate active learning, critical thinking and problem solving.
2. Educate parents, care givers and families on parenting practices and skills to create a safe and nurturing environment for children.
3. Promote among families the development of positive interpersonal relationships that enhance intellectual, social, emotional and physical development of family members.
4. Educate and assist families on how to set financial goals by practicing principles of prudent financial/resource management and planning.

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
2013	0.0	5.0	0.0	3.0
2014	0.0	5.0	0.0	3.0

Year	Extension		Research	
	1862	1890	1862	1890
2015	0.0	5.0	0.0	3.0
2016	0.0	5.0	0.0	3.0
2017	0.0	5.0	0.0	3.0

V(F). Planned Program (Activity)

1. Activity for the Program

The following activities will be conducted:

- Extension and Research faculty will work cooperatively to develop and disseminate educational materials devoted to helping the family set goals and manage limited resources.
- Community Volunteers (advisory committee, Community organizations, etc.) will be organized to help disseminate information, increase awareness and implement programs.
- Consumer curriculum will be designed to support objectives on financial planning and management.
- Partnerships with banks and other financial agencies will be solicited and their expertise utilized.
- Research results and other information will be communicated to customers through extension personnel in the form of publications, conferences, workshops, home/office visits, demonstrations and other educational resources.
- Collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens.
- Others include: Nutrition Classes, Emergency Preparedness Training, Child Care Classes, Second Chance 2 Recover workshops, etc. And also,
 Training sessions for adults and children
 Parenting Workshops
 Parish and home visits
 Demonstrations

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

Extension

Direct Methods	Indirect Methods
<ul style="list-style-type: none"> • Education Class • Workshop • Group Discussion • One-on-One Intervention • Demonstrations • Other 1 (Home Visits) 	<ul style="list-style-type: none"> • Public Service Announcement • Billboards • Newsletters • TV Media Programs • Web sites other than eXtension • Other 1 (Radio Programs) • Other 2 (Newspaper/Print Media)

3. Description of targeted audience

There are large numbers of low income and limited resource families in Louisiana who reside in the target areas that the SU Ag Center serves. Most of these families live below the poverty level. They lack knowledge, information, and/or skills to utilize existing resources to improve their parenting and child care skills, family nurturing, learning, resource management, and quality of life. Children and adolescent who are placed at risk and those that are potentially at risk will benefit from the services provided by the planned program.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
- 2. Number of educational contacts
- 3. Number of published materials distributed
- 4. Number of research & extension outreach publications developed (in-house)

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

V(I). State Defined Outcome

O. No	Outcome Name
1	1. Percent of clients who gained new knowledge/skills or gained awareness about Family and Human development issues
2	2. Percent of adoption rate for recommendations by clients
3	3. Percent of clients who changed behavior, attitude or lifestyle

Outcome # 1

1. Outcome Target

1. Percent of clients who gained new knowledge/skills or gained awareness about Family and Human development issues

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 804 - Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

2. Percent of adoption rate for recommendations by clients

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 804 - Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 3

1. Outcome Target

3. Percent of clients who changed behavior, attitude or lifestyle

2. Outcome Type : Change in Condition Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being
- 804 - Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures

4. Associated Institute Type(s)

- 1890 Extension
- 1890 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

The economy may continue to impact greatly on planned program. As a result of going through the worst recession, many businesses may continue to struggle to stay afloat. Deep reduction in state budgets and the threat of large cuts in Federal Budgets could result in massive layoffs which will add to the burden of unemployment and slow business growth. Also, declining state and local government revenues, if they continue, may force policy makers to make changes in programs, reduce appropriations, review policies, and shift priorities. Public policy changes, government regulations and competing priorities could affect the program either positively or negatively, depending on whether they favor or work against the program goals. Population changes and competing programmatic challenges have the potential of affecting the outcomes of the program.

V(K). Planned Program - Planned Evaluation Studies

Description of Planned Evaluation Studies

Post program, before and after program, during program, and comparison studies will be employed. Other methods will be incorporated as appropriate and feasible. The main focus of evaluation will be on determining the level(s) to which program activities carried out met and addressed the critical needs of participants and how citizens benefited, solved problems, or realized improved quality of life by participating in the program. To ensure that evaluation is culturally contextual, stakeholders' involvement and inputs have been strongly encouraged and utilized to establish priorities, goals and objectives consistent with state, regional and national issues based on the land-grant philosophy and mission. Evaluation will provide further inputs as to continuing with established priorities, goals and objectives or making changes to them. Additionally, performance indicators will be used to measure progress in accomplishing the objectives set by the Center.

V(A). Planned Program (Summary)

Program # 8

1. Name of the Planned Program

Youth Development

2. Brief summary about Planned Program

To address youth development, the SU Ag Center planned programs will emphasize the following activities (these activities will also help partly in addressing childhood obesity):

- Livestock, Poultry and Rabbit Show; Youth Educational Support and After School Program (YES); Parish Achievement Days; Science Fairs; Field Trips; Family and Youth Exposition, mentoring programs; and peer counseling.

- The Center will also engage in training volunteers/parents to assists in parish programs.

- Conduct innovative programs that will enhance social status for rural and urban youth and introduce them to new scientific and technological discoveries.

- Focus on the learning experience of children, youth, and families in communities with at risk environments to increase self-reliance, self-esteem, and confidence.

- Organize youth back-to-school summit to address risky behaviors and encourage healthy lifestyles.

- Teach business techniques, ethics and etiquette as prerequisite to business start-up.

- Show aspiring entrepreneurs how to identify potential business opportunities.

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 : No

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		20%		20%
806	Youth Development		80%		80%
	Total		100%		100%

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

1. Situation and priorities

An increasing proportion of American children are at substantially higher risks for negative outcomes such as undernourishment, child abuse and neglect, poor health, substance abuse, teenage pregnancy, violence and academic underachievement, due to conditions beyond their control. Eighteen percent of Louisiana's families with children and 23 percent of adults without children live in poverty. Poverty rates

are higher among African-Americans (44 percent) and children 18 and under (31 percent). These children and adolescents are placed at risk and need various forms of mentoring. Additionally, the results from a 2000 Louisiana Youth Tobacco Survey (YTS) showed that more than 70,000 (50.0 percent) public middle school students in Louisiana reported having ever smoked a cigarette, and 17 percent currently smoke cigarettes. Moreover, 28.6 percent of the students had smoked their first cigarette before the age of 11.

- Children are suffering from a hidden epidemic of child abuse and neglect. Over 3 million reports of child abuse are made every year in the United States; however, those reports can include multiple children. In 2007, approximately 5.8 million children were involved in an estimated 3.2 million child abuse reports and allegations. <http://www.childhelp.org/pages/statistics>

About 30 percent of abused and neglected children will later abuse their own children, continuing the horrible cycle of abuse.

About 80 percent of 21 year olds that were abused as children met criteria for at least one psychological disorder.

The estimated annual cost of child abuse and neglect in the United States for 2007 is \$104 billion.

Abused children are 25 percent more likely to experience teen pregnancy.

Abused teens are 3 times less likely to practice safe sex, putting them at greater risk for STDs.

Children who have been sexually abused are 2.5 times more likely to abuse alcohol.

Children who have been sexually abused are 3.8 times more likely develop drug addictions.

Nearly two-thirds of the people in treatment for drug abuse reported being abused as children.

2. Scope of the Program

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

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

1. Assumptions made for the Program

1. Level of funding will remain steady or increase.
2. Staffing may increase (additional funds may be available to replace staff who leave, and hire additional staff to execute programs)
3. Present trends will continue.
4. Clients will participate, respond, and adopt new/innovative techniques.

2. Ultimate goal(s) of this Program

1. Focus on innovative youth development activities that allow youth from various communities to gain competencies in life skills and develop their full potential.
2. Develop a youth entrepreneurship program that meets the needs of community participants.
3. Provide educational information to rural and urban youth on the harmful effects of tobacco use.
4. Conduct an aggressive educational program designed to improve standardized test scores for Louisiana youth.
5. Increase volunteer/parental involvement and participation in promoting the social, emotional, and academic growth of 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
2013	0.0	9.0	0.0	2.0
2014	0.0	9.0	0.0	2.0
2015	0.0	9.0	0.0	2.0
2016	0.0	9.0	0.0	2.0
2017	0.0	9.0	0.0	2.0

V(F). Planned Program (Activity)

1. Activity for the Program

The following activities will be continued: Livestock, Poultry and Rabbit Show; Youth Educational Support (YES) and After School Program; Parish Achievement Days; Science Fairs; Field Trips; Family and Youth Exposition.

- Meetings/workshops; PSA'S, fact sheets, youth website, media literacy, mentoring programs (with community leaders); and commercial peer counseling will be developed or conducted.
- Research-based educational information will be communicated to youth through extension personnel in the form of publications, conferences, workshops, field days, home/office visits, demonstrations and other educational resources.
- Collaborate, cooperate and partner with local, state and federal agencies, institutions, groups, private organizations/associations in seeking and delivering services to citizens.
- -Focus on the learning experience of children, youth, and families in communities with at risk environments to increase self-reliance, self-esteem, and confidence.
- -Organize youth back-to-school summit to address risky behaviors and encourage healthy lifestyles.
- -Teach business techniques, ethics and etiquette as prerequisite to business start-up.
- -Show aspiring entrepreneurs how to identify potential business opportunities.

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

Extension

Direct Methods	Indirect Methods

<ul style="list-style-type: none">● Education Class● Workshop● Group Discussion● One-on-One Intervention● Demonstrations● Other 1 (Home Visits)	<ul style="list-style-type: none">● Public Service Announcement● Billboards● Newsletters● TV Media Programs● Web sites other than eXtension● Other 1 (Radio Programs)● Other 2 (Newspapers/Print Media)
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3. Description of targeted audience

A large number of children under 18 years of age are placed at risk because their families survive on low income and limited resources. They lack knowledge, information, and/or skills to utilize existing resources to improve their quality of life. Eighteen percent of Louisiana families with children and 23 percent of adults without children live in poverty. Poverty rates are higher among African-Americans (44 percent) and children 18 and under (31 percent). Louisiana ranks 13th in the US for Food Stamp Program participation, 74 percent of those eligible. The program targets such children ages 5 -18 years who are vulnerable to these situations. Parents and/or guardians of these children are also targeted. Additionally, children and adolescents who are placed at risk, those who are potentially at risk and children who need various forms of mentoring will also benefit. Program staff and volunteers will be trained to ensure effective and efficient delivery of information.

V(G). Planned Program (Outputs)

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

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

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

V(H). State Defined Outputs

1. Output Measure

- 1. Number of educational program activities
 - 2. Number of educational contacts
 - 3. Number of published materials distributed
 - 4. Number of research & extension outreach publications developed (in-house)
- Clicking this box affirms you will continue to collect data on these items and report the data in the Annual Report of Accomplishments and Results.

V(I). State Defined Outcome

O. No	Outcome Name
1	1. Percent of youth who gained new knowledge/skills or awareness
2	2. Number of volunteer leaders (trained to lead youth participants)
3	3. Number of youth participants involved in community activities
4	4. Percent of youth who changed behavior, attitude or lifestyle

Outcome # 1

1. Outcome Target

1. Percent of youth who gained new knowledge/skills or awareness

2. Outcome Type : Change in Knowledge Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 2

1. Outcome Target

2. Number of volunteer leaders (trained to lead youth participants)

2. Outcome Type : Change in Action Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 3

1. Outcome Target

3. Number of youth participants involved in community activities

2. Outcome Type : Change in Condition Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

Outcome # 4

1. Outcome Target

4. Percent of youth who changed behavior, attitude or lifestyle

2. Outcome Type : Change in Condition Outcome Measure

3. Associated Knowledge Area(s)

- 724 - Healthy Lifestyle
- 806 - Youth Development

4. Associated Institute Type(s)

- 1890 Extension
- 1890 Research

V(J). Planned Program (External Factors)

1. External Factors which may affect Outcomes

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