

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Sustainable Energy

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 (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Actual	0.0	1.0	0.0	3.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	50723	0	151256
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	50275	0	183777
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	1000

V(D). Planned Program (Activity)

1. Brief description of the Activity

Relevant research was conducted and research-based educational information prepared and shared

with appropriate individuals. Other activities included, assisting local farmers and land owners/users develop alternative enterprise initiatives for rural businesses, empower community leaders and residents in the state develop strategic plans for optimum utilization of natural resources. Also, conferences, workshops, and demonstrations were carried out to foster energy conservation and biofuel development. In conducting research and disseminating information, the Center collaborated with local, state and federal agencies, institutions, and private groups.

2. Brief description of the target audience

Rural and urban dwellers, under-represented, underserved, socially and economically disadvantaged groups in traditionally agricultural and urban communities, extension agents, scientists, college students, and social organizations.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	{NO DATA}	{NO DATA}	{NO DATA}	{NO DATA}
Actual	805	74600	0	0

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

Patent Applications Submitted

Year: 2010
 Plan:
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Actual	0	4	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- 1. Number of educational program activities

Year	Target	Actual
2010	{No Data Entered}	28

Output #2

Output Measure

- 2. Number of educational contacts

Year	Target	Actual
2010	{No Data Entered}	76200

Output #3

Output Measure

- 3. Number of published materials distributed

Year	Target	Actual
2010	{No Data Entered}	10200

Output #4

Output Measure

- 4. Number of research & extension outreach publications

Year	Target	Actual
2010	{No Data Entered}	3

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Percent of clients who gained new knowledge/skills
2	Percentage of clients who adopt recommendations
3	Percentage of clients who utilized skills to gain positive results

Outcome #1

1. Outcome Measures

Percent of clients who gained new knowledge/skills

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	{No Data Entered}	70

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Long-term rising costs of transportation fuels, dependence on foreign resources and concern that fossil fuels adversely affect climate have stimulated interest in renewable fuels. Louisiana is rich in natural resources such as forestry and other sources suitable for consideration as bioenergy feedstocks. The climate is also highly adaptable to growth of highly productive to non-food feedstocks which could serve as energy sources such as urban wood wastes and cane biomass. Development of methodologies and technologies for the utilization of such natural resources for the purpose of energy is an important priority for our country's energy-based economy. Louisiana producers, farmers, land owners and communities who are endowed with these natural resources need research-based information to make decisions that could impact their economic and social well-beings.

What has been done

Producers need new knowledge to plan and make decisions in adapting to changing environments, sustaining economic vitality, and taking advantage of emerging economic opportunities offered by the renewed wave in demand for alternative energy projects. Research was conducted to assess and quantify plant-based mulch products especially for the management of live oak. Research-based information was made available to producers, farmers, land owners and community organizations in the form of meetings, site and home visits, and demonstrations. Twenty-eight educational activities were held for 805 individuals. Faculty members associated with the project have made four national, two international, and three statewide presentations. Research and extension faculty wrote and submitted grant proposals for external funding to enhance further study.

Results

805 participants in the educational activities gained new knowledge about sustainable energy. Two doctoral graduate students are gaining skills in conducting research through their involvement in the project. Data from the project were used by a student to developed doctoral dissertation. Five class workshops have been conducted for 37 undergraduate students have increase knowledge on sustainable energy participants. The program is helping many farmers consider diversification as an alternative to their traditional cropping method.

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources
124	Urban Forestry
125	Agroforestry

Outcome #2

1. Outcome Measures

Percentage of clients who adopt recommendations

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	{No Data Entered}	50

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources
124	Urban Forestry

125 Agroforestry

Outcome #3

1. Outcome Measures

Percentage of clients who utilized skills to gain positive results

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

In FY 2010, the state budgets were again drastically reduced, oftentimes in the middle of the fiscal year. This action resulted in severe loss of funding for planned activities which in turn negatively affected outcomes. Additionally, budget problems and government priority changes caused the relocation of some program participants resulting in decline in number of citizens impacted. Furthermore, the continuing recovery from hurricanes of 2005 and 2008, and the 2010 oil spill inflicted much havoc on the state and impacted outcomes.

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

1. Evaluation Studies Planned

- After Only (post program)
- During (during program)

Evaluation Results

Most citizens are aware of the energy issues and the need for alternative energy sources. Louisiana farmers need more information on how they can benefit from growing crops that can be economically viable as alternative sources of energy.

Key Items of Evaluation

