Environment and Natural Resources

V(A). Planned Program (Summary)

1. Name of the Planned Program

Environment and Natural Resources

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

<table>
<thead>
<tr>
<th>KA Code</th>
<th>Knowledge Area</th>
<th>%1862 Extension</th>
<th>%1890 Extension</th>
<th>%1862 Research</th>
<th>%1890 Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>Soil, Plant, Water, Nutrient Relationships</td>
<td>30%</td>
<td></td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>112</td>
<td>Watershed Protection and Management</td>
<td>23%</td>
<td></td>
<td>23%</td>
<td></td>
</tr>
<tr>
<td>133</td>
<td>Pollution Prevention and Mitigation</td>
<td>8%</td>
<td>8%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>135</td>
<td>Aquatic and Terrestrial Wildlife</td>
<td>22%</td>
<td>22%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>403</td>
<td>Waste Disposal, Recycling, and Reuse</td>
<td>7%</td>
<td>7%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>605</td>
<td>Natural Resource and Environmental Economics</td>
<td>10%</td>
<td>10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

V(C). Planned Program (Inputs)

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

<table>
<thead>
<tr>
<th>Year: 2007</th>
<th>Extension</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1862</td>
<td>1890</td>
</tr>
<tr>
<td>Plan</td>
<td>30.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Actual</td>
<td>21.1</td>
<td>0.0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Extension/Research</th>
<th>Smith-Lever 3b &amp; 3c</th>
<th>1890 Extension</th>
<th>Hatch</th>
<th>Evans-Allen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>230248</td>
<td>0</td>
<td>304399</td>
<td>0</td>
</tr>
<tr>
<td>1862 Matching</td>
<td>230248</td>
<td>0</td>
<td>304399</td>
<td>0</td>
</tr>
<tr>
<td>1862 All Other</td>
<td>1220211</td>
<td>0</td>
<td>7540728</td>
<td>0</td>
</tr>
<tr>
<td>1890 All Other</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Center for Natural Resource Economics and Policy (CNREP) coordinates and focuses research and extension efforts of resource economists and policy professionals. The challenge of resource management involves reconciling the dual needs for economic viability and environmental integrity. CNREP is helping Louisiana meet this challenge by engaging in research and extension programs related to energy, coastal and inland wetlands, fisheries, wildlife, land, and water resources that contribute to the management and sustainability of Louisiana’s diverse natural resources.
2. Brief description of the target audience
Commercial and recreational fishermen; General public

V(E). Planned Program (Outputs)

1. Standard output measures

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

<table>
<thead>
<tr>
<th>Year</th>
<th>Direct Contacts Adults</th>
<th>Indirect Contacts Adults</th>
<th>Direct Contacts Youth</th>
<th>Indirect Contacts Youth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2007</td>
<td>620000</td>
<td>30000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>76943</td>
<td>23895</td>
<td>36894</td>
<td>2955</td>
</tr>
</tbody>
</table>

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

Patent Applications Submitted

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan: 2</td>
<td></td>
</tr>
<tr>
<td>2007: 0</td>
<td></td>
</tr>
</tbody>
</table>

Patents listed

3. Publications (Standard General Output Measure)

<table>
<thead>
<tr>
<th>Plan</th>
<th>Number of Peer Reviewed Publications</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year</th>
<th>Extension</th>
<th>Research</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>0</td>
<td>45</td>
<td>45</td>
</tr>
</tbody>
</table>

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Clientele reached

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>25000</td>
<td>0</td>
</tr>
</tbody>
</table>
### V(G). State Defined Outcomes

<table>
<thead>
<tr>
<th>O No.</th>
<th>Outcome Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Clientele adopting recommended practices</td>
</tr>
</tbody>
</table>
Outcome #1

1. Outcome Measures
   Clientele adopting recommended practices

2. Associated Institution Types
   • 1862 Extension

3a. Outcome Type:
   Change in Knowledge Outcome Measure

3b. Quantitative Outcome

<table>
<thead>
<tr>
<th>Year</th>
<th>Quantitative Target</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>65</td>
<td>0</td>
</tr>
</tbody>
</table>

3c. Qualitative Outcome or Impact Statement

   Issue (Who cares and Why)

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

   What has been done

   The Center for Natural Resource Economics and Policy (CNREP) coordinates and focuses research and extension efforts of resource economists and policy professionals. The challenge of resource management involves reconciling the dual needs for economic viability and environmental integrity. CNREP is helping Louisiana meet this challenge by engaging in research and extension programs related to energy, coastal and inland wetlands, fisheries, wildlife, land, and water resources that contribute to the management and sustainability of Louisiana's diverse natural resources.

   Results

   Two international conferences targeting socioeconomic aspects of wetland and coastal resource management were held. The knowledge generated and transferred at these conferences has been used by other scientists, extension professionals, and resource managers in professional practice. A new technique for estimating the economic impacts of hurricanes to coastal fishing infrastructure was developed. The new method allows for a more rapid and spatially precise estimate of damages to fisheries infrastructure. During 2007, the results of this assessment provided the basis for more than $200 million in funding for fisheries recovery in Louisiana. Several applied research projects have been developed to examine the economic aspects of Louisiana's wetland restoration and preservation initiatives. Results indicate that in recent years restoration agencies have begun to abandon economic metrics in favor of more subjective, political criteria for project selection (e.g. project type, location, and sponsor). The net result of this trend has been an increasing loss of program efficiency in the allocation of nearly $1 billion in project spending since 1991.

4. Associated Knowledge Areas

   KA Code  Knowledge Area
   605      Natural Resource and Environmental Economics

V(H). Planned Program (External Factors)

   External factors which affected outcomes
   • Natural Disasters (drought, weather extremes, etc.)
   • Economy
   • Appropriations changes
   • Populations changes (immigration, new cultural groupings, etc.)

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

1. Evaluation Studies Planned
   - Retrospective (post program)
   - Before-After (before and after program)
   - During (during program)

Evaluation Results

Key Items of Evaluation