V(A). Planned Program (Summary)

Program # 11

1. Name of the Planned Program

Reduce Losses Due to Catfish Diseases

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>311</td>
<td>Animal Diseases</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></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: 2009</th>
<th>1862 Extension</th>
<th>1890 Extension</th>
<th>1862 Research</th>
<th>1890 Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>0.0</td>
<td>0.9</td>
<td>0.0</td>
<td>0.1</td>
</tr>
<tr>
<td>Actual</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Extension</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith-Lever 3b &amp; 3c</td>
<td>Hatch</td>
</tr>
<tr>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1862 Matching</td>
<td>1890 Matching</td>
</tr>
<tr>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1862 All Other</td>
<td>1890 All Other</td>
</tr>
<tr>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
</tbody>
</table>

V(D). Planned Program (Activity)

1. Brief description of the Activity

Research will be conducted to determine the distribution of catfish trematodes and their impact on fish growth and survival and to assess the efficacy of trematode treatment methods. Extension programs will provide catfish disease diagnostic services, conduct field studies of trematode distribution and conduct education programs on trematode control.

2. Brief description of the target audience

Commercial catfish producers

V(E). Planned Program (Outputs)

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

Patent Applications Submitted

Year: 2009
Plan: 0
Actual: {No Data Entered}

Patents listed
{No Data Entered}

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

<table>
<thead>
<tr>
<th>2009</th>
<th>Extension</th>
<th>Research</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Actual</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of refereed journal articles
  Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Number of presentations
  Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Number of trade magazine articles
  Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Number of abstracts published
  Not reporting on this Output for this Annual Report
## V. State Defined Outcomes

<table>
<thead>
<tr>
<th>O. No.</th>
<th>OUTCOME NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Number of farmers helped with catfish disease cases</td>
</tr>
<tr>
<td>2</td>
<td>Number of catfish ponds sampled for trematodes</td>
</tr>
<tr>
<td>3</td>
<td>Number of educational meetings conducted to assist farmers with trematode detection and control</td>
</tr>
</tbody>
</table>
Outcome #1

1. Outcome Measures

Number of farmers helped with catfish disease cases

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Number of catfish ponds sampled for trematodes

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Number of educational meetings conducted to assist farmers with trematode detection and control

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes
- Other (Regulations promulgated by APHIS)

Brief Explanation

(No Data Entered)

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

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

Evaluation Results

(No Data Entered)

Key Items of Evaluation

(No Data Entered)