V(A). Planned Program (Summary)

Program # 15

1. Name of the Planned Program

Improving Hatchery Production Efficiency

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>301</td>
<td>Reproductive Performance of Animals</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>307</td>
<td>Animal Management Systems</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
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</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>Extension</th>
<th></th>
<th>Research</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1862</td>
<td>1890</td>
<td>1862</td>
<td>1890</td>
</tr>
<tr>
<td>Plan</td>
<td>0.0</td>
<td>0.4</td>
<td>0.0</td>
<td>0.2</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></th>
<th>Extension</th>
<th></th>
<th>Research</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith-Lever 3b &amp; 3c</td>
<td>1890 Extension</td>
<td>(NO DATA ENTERED)</td>
<td>Hatch</td>
<td>Evans-Allen</td>
</tr>
<tr>
<td>1862 Matching</td>
<td>1890 Matching</td>
<td>(NO DATA ENTERED)</td>
<td>1862 Matching</td>
<td>1890 Matching</td>
</tr>
<tr>
<td>1862 All Other</td>
<td>1890 All Other</td>
<td>(NO DATA ENTERED)</td>
<td>1862 All Other</td>
<td>1890 All Other</td>
</tr>
</tbody>
</table>

V(D). Planned Program (Activity)

1. Brief description of the Activity
   - Conduct field trials
   - Conduct method demonstrations
   - Publish results
   - Give presentations
   1. Conduct research to determine the relationship between egg size and size at hatch for hybrid striped bass.
   2. Conduct research to re-defined the relation between temperature and egg stage duration.
   3. Conduct research to determine ways of reducing cannibalism in tank culture of hybrid striped bass
   4. Partner with Keo Fish Farm, Inc. to acquire seed stock from specific males and females

2. Brief description of the target audience
   - Catfish farmers throughout Arkansas
     - County Extension agents
     - Hybrid striped bass fingerling producers
     - Hybrid striped bass grow-out facility operators

V(E). Planned Program (Outputs)
1. Standard output measures

<table>
<thead>
<tr>
<th></th>
<th>Direct Contacts Adults</th>
<th>Indirect Contacts Adults</th>
<th>Direct Contacts Youth</th>
<th>Indirect Contacts Youth</th>
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</thead>
<tbody>
<tr>
<td>Plan</td>
<td>5</td>
<td>50</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Actual</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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></th>
<th>Extension</th>
<th>Research</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plan</td>
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<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 Abstracts
  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 Refereed Journal Articles
  Not reporting on this Output for this Annual Report

Output #4
Output Measure

- Number of Popular Articles and Newsletter Articles
  Not reporting on this Output for this Annual Report
## V. State Defined Outcomes Table of Content

<table>
<thead>
<tr>
<th>O. No.</th>
<th>OUTCOME NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Number of Fingerling Producers That Learned What We Know</td>
</tr>
<tr>
<td>2</td>
<td>Number of Scientists That Learned What We Know</td>
</tr>
<tr>
<td>3</td>
<td>Number of Fingerling Producers That Use What We Know</td>
</tr>
<tr>
<td>4</td>
<td>Number of Grow-out Operations That Use What We Know</td>
</tr>
<tr>
<td>5</td>
<td>Percent of Increase in Hybrid Striped Bass Fingerlings Produced in Arkansas</td>
</tr>
<tr>
<td>6</td>
<td>Percent Increase in Hybrid Striped Bass Fingerlings Produced in Tanks</td>
</tr>
<tr>
<td>7</td>
<td>Number of Arkansans Gaining Access to Hybrid Catfish Information</td>
</tr>
<tr>
<td>8</td>
<td>Number of Arkansans Adopting Hybrid Catfish Production</td>
</tr>
<tr>
<td>9</td>
<td>Number of Arkansans Increasing Efficiency, Profitability Through Hybrid Catfish Production</td>
</tr>
</tbody>
</table>
Outcome #1

  1. Outcome Measures

  Number of Fingerling Producers That Learned What We Know

  Not Reporting on this Outcome Measure

Outcome #2

  1. Outcome Measures

  Number of Scientists That Learned What We Know

  Not Reporting on this Outcome Measure

Outcome #3

  1. Outcome Measures

  Number of Fingerling Producers That Use What We Know

  Not Reporting on this Outcome Measure

Outcome #4

  1. Outcome Measures

  Number of Grow-out Operations That Use What We Know

  Not Reporting on this Outcome Measure

Outcome #5

  1. Outcome Measures

  Percent of Increase in Hybrid Striped Bass Fingerlings Produced in Arkansas

  Not Reporting on this Outcome Measure

Outcome #6

  1. Outcome Measures

  Percent Increase in Hybrid Striped Bass Fingerlings Produced in Tanks

  Not Reporting on this Outcome Measure

Outcome #7

  1. Outcome Measures

  Number of Arkansans Gaining Access to Hybrid Catfish Information

  Not Reporting on this Outcome Measure
Outcome #8

1. Outcome Measures

Number of Arkansans Adopting Hybrid Catfish Production

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Number of Arkansans Increasing Efficiency, Profitability Through Hybrid Catfish Production

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes
- Natural Disasters (drought, weather extremes, etc.)
- Appropriations changes
- Government Regulations

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)