V(A). Planned Program (Summary)

Program # 20

1. Name of the Planned Program
Aquaculture Alternatives in Arkansas

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>302</td>
<td>Nutrient Utilization in Animals</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>307</td>
<td>Animal Management Systems</td>
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<tr>
<td>308</td>
<td>Improved Animal Products (Before Harvest)</td>
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<td></td>
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<tr>
<td>311</td>
<td>Animal Diseases</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>602</td>
<td>Business Management, Finance, and Taxation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>603</td>
<td>Market Economics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>806</td>
<td>Youth Development</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Total

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>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1862</td>
<td>1890</td>
</tr>
<tr>
<td>Plan</td>
<td>0.0</td>
<td>1.9</td>
</tr>
<tr>
<td>Actual</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>Research</th>
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</thead>
<tbody>
<tr>
<td>Smith-Lever 3b &amp; 3c</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1862 Matching</td>
<td>(NO DATA ENTERED)</td>
<td>1862 Matching</td>
</tr>
<tr>
<td></td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1862 All Other</td>
<td>(NO DATA ENTERED)</td>
<td>1862 All Other</td>
</tr>
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</table>

V(D). Planned Program (Activity)

1. Brief description of the Activity


Provide 4-H approved youth fishing education program materials to county agents. Maintain a youth fishing trailer and train agents in its use. Also add fishing education module to the trailer for county agents to use. Work with 4-H and county agents directly to implement new or improved sportfishing and aquatic curriculums, which include baitcasting and reel into sportfishing.
competitions. Organize and conduct workshops through CE agents that deal with aquatic education and 4-H O'Rama activities. Continue to provide assistance with county, regional, and state O'Ramas. Two types of systems will be set up; one with very low technology and a second with better technology. Raise all tilapia needed for the schools during the summer and overwinter broodstock for spawning the following year. Some small fish should also be overwintered to re-supply systems that fail.

2. Brief description of the target audience

County Extension faculty, existing fish farmers and potential farmers.

Youth

V(E). Planned Program (Outputs)

1. Standard output measures

<table>
<thead>
<tr>
<th></th>
<th>2009</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Direct Contacts Adults</td>
<td>Indirect Contacts Adults</td>
<td>Direct Contacts Youth</td>
<td>Indirect Contacts Youth</td>
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<tr>
<td>Plan</td>
<td>260</td>
<td>450</td>
<td>1000</td>
<td>200</td>
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<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>2009</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 Peer Reviewed 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 Published Abstracts
  Not reporting on this Output for this Annual Report
Output #4
Output Measure
- Number of County Extension agents using the aquatic education fishing trailer for youth fishing activities
  Not reporting on this Output for this Annual Report

Output #5
Output Measure
- Number of students participating in events related to aquatic education fishing trailer
  Not reporting on this Output for this Annual Report

Output #6
Output Measure
- Number of students participating in specific aquatic education events, such as 4-H O'Rama Events, aquatic
  and fishing workshops, and educational derbies
  Not reporting on this Output for this Annual Report

Output #7
Output Measure
- Number of County Agents using the fishing education modules
  Not reporting on this Output for this Annual Report

Output #8
Output Measure
- Number of students participating in events involving the fishing education module
  Not reporting on this Output for this Annual Report

Output #9
Output Measure
- Number of students participating in events related to the aquatic education fishing trailer for youth fishing
  activities
  Not reporting on this Output for this Annual Report

Output #10
Output Measure
- Number of contacts by email and telephone from teachers related to recirculation systems
  Not reporting on this Output for this Annual Report

Output #11
Output Measure
- Number of teachers participating in aquaculture workshops
  Not reporting on this Output for this Annual Report

Output #12
Output Measure
- Number of tilapia delivered to teachers
  Not reporting on this Output for this Annual Report

Output #13
Output Measure
- Number of teachers using tilapia
  Not reporting on this Output for this Annual Report
Output #14

Output Measure

- Number of teachers receiving aquaculture education newsletter
  Not reporting on this Output for this Annual Report

Output #15

Output Measure

- Number of schools visited annually
  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 Arkansans adopting sound management practices</td>
</tr>
<tr>
<td>2</td>
<td>Number of Arkansans Increasing Efficiency, and Profitability</td>
</tr>
<tr>
<td>3</td>
<td>Number of researchers and producers gaining knowledge from results from presentations and publications</td>
</tr>
<tr>
<td>4</td>
<td>Number of researchers that will cite results</td>
</tr>
<tr>
<td>5</td>
<td>Number of producers that will modify feeding and management</td>
</tr>
<tr>
<td>6</td>
<td>Percent decrease in cool weather mortalities and decrease in off-flavor</td>
</tr>
<tr>
<td>7</td>
<td>Percent of cool weather plankton-related problems that will decrease</td>
</tr>
<tr>
<td>8</td>
<td>Percent of warm weather plankton-related problems that will decrease</td>
</tr>
<tr>
<td>9</td>
<td>Number of producers willing to test successful ingredients or feeding strategies on a commercial scale</td>
</tr>
<tr>
<td>10</td>
<td>Percent of diets with new ingredients that are commercially available, or number of new feeding strategies implemented by industry</td>
</tr>
</tbody>
</table>
Outcome #1

1. Outcome Measures

Number of Arkansans adopting sound management practices

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Number of Arkansans Increasing Efficiency, and Profitability

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Number of researchers and producers gaining knowledge from results from presentations and publications

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Number of researchers that will cite results

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Number of producers that will modify feeding and management

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Percent decrease in cool weather mortalities and decrease in off-flavor

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Percent of cool weather plankton-related problems that will decrease

Not Reporting on this Outcome Measure
Outcome #8

1. Outcome Measures

Percent of warm weather plankton-related problems that will decrease

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Number of producers willing to test successful ingredients or feeding strategies on a commercial scale

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Percent of diets with new ingredients that are commercially available, or number of new feeding strategies implemented by industry

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

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

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)