V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Plant Science--This section reported under Global Food Security and Hunger

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

<table>
<thead>
<tr>
<th>KA Code</th>
<th>Knowledge Area</th>
<th>KA 1862 Extension</th>
<th>KA 1890 Extension</th>
<th>KA 1862 Research</th>
<th>KA 1890 Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>102</td>
<td>Soil, Plant, Water, Nutrient Relationships</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>111</td>
<td>Conservation and Efficient Use of Water</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>132</td>
<td>Weather and Climate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>203</td>
<td>Plant Biological Efficiency and Abiotic Stresses Affecting Plants</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td>Plant Product Quality and Utility (Preharvest)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>216</td>
<td>Integrated Pest Management Systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>405</td>
<td>Drainage and Irrigation Systems and Facilities</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>503</td>
<td>Quality Maintenance in Storing and Marketing Food Products</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>601</td>
<td>Economics of Agricultural Production and Farm Management</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>604</td>
<td>Marketing and Distribution Practices</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></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></th>
<th>Year: 2009</th>
<th>Extension</th>
<th>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1862</td>
<td>1890</td>
<td>1862</td>
</tr>
<tr>
<td>Plan</td>
<td>0.0</td>
<td>4.5</td>
<td>0.0</td>
</tr>
<tr>
<td>Actual</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>Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith-Lever 3b &amp; 3c</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1890 Extension</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>Hatch</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>Evans-Allen</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1862 Matching</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1890 Matching</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1862 All Other</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
<tr>
<td>1890 All Other</td>
<td>(NO DATA ENTERED)</td>
<td>(NO DATA ENTERED)</td>
</tr>
</tbody>
</table>

V(D). Planned Program (Activity)

1. Brief description of the Activity

Activities for this Planned Program have been included in the Global Food Security and Hunger priority section.
2. Brief description of the target audience

A full description of the target audience, for plant science has been included in the Global Food Security and Hunger priority section.

V(E). Planned Program (Outputs)

1. Standard output measures

<table>
<thead>
<tr>
<th>2009</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>1000</td>
<td>3000</td>
<td>100</td>
<td>300</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. 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>(No Data Entered)</td>
<td>(No Data Entered)</td>
<td>(No Data Entered)</td>
</tr>
</tbody>
</table>

V(F). State Defined Outputs

Output Target

Output #1

Output Measure
- Publications Abstracts Refereed Journals Bulletins Years 2007-2008 primarily abstracts and bulletins Year 2009 transition year and years 2010-2011 primarily scientific manuscripts

<table>
<thead>
<tr>
<th>Year</th>
<th>Target</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>6</td>
<td>0</td>
</tr>
</tbody>
</table>
V(G). State Defined Outcomes

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>Develop educational programs to encourage minority youth to get involved in farming.</td>
</tr>
<tr>
<td></td>
<td>2007: Increase the number of minority farmers by 200.</td>
</tr>
<tr>
<td></td>
<td>Adoption of environmental sustainable crop production practices.</td>
</tr>
<tr>
<td></td>
<td>2008: Increase the number of farms adopting production practices by 150.</td>
</tr>
<tr>
<td>2</td>
<td>Improve small and minority farms income</td>
</tr>
<tr>
<td></td>
<td>2009: Increase the average small farm gross income by $5,000</td>
</tr>
<tr>
<td>3</td>
<td>Enhanced viability of rural communities,</td>
</tr>
<tr>
<td></td>
<td>Enhanced profitability of Small Farms.</td>
</tr>
<tr>
<td></td>
<td>2010: Increase Farm growth income by $5,000</td>
</tr>
<tr>
<td></td>
<td>2011: Increase Farm retention rate by 4,250</td>
</tr>
</tbody>
</table>
Outcome #1

1. Outcome Measures

Develop educational programs to encourage minority youth to get involved in farming. 2007: Increase the number of minority farmers by 200. Adoption of environmental sustainable crop production practices. 2008: Increase the number of farms adopting production practices by 150.

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Improve small and minority farms income 2009: Increase the average small farm gross income by $5,000

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Enhanced viability of rural communities. Enhanced profitability of Small Farms. 2010: Increase Farm growth income by $5,000 2011: Increase Farm retention rate by 4,250

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

Brief Explanation

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

1. Evaluation Studies Planned

● Before-After (before and after program)
● During (during program)
● Time series (multiple points before and after program)

Evaluation Results

Key Items of Evaluation