V(A). Planned Program (Summary)

Program # 18
1. Name of the Planned Program
Global Food Security and Hunger--Research

V(B). Program Knowledge Area(s)
1. Program Knowledge Areas and Percentage

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>
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<td>1890</td>
</tr>
<tr>
<td></td>
<td>1862</td>
<td>1890</td>
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2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

<table>
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<tr>
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<th>Extension</th>
<th>Research</th>
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V(D). Planned Program (Activity)
1. Brief description of the Activity
{No Data Entered}

2. Brief description of the target audience
{No Data Entered}

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

<table>
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<th>Indirect Contacts Adults</th>
<th>Direct Contacts Youth</th>
<th>Indirect Contacts Youth</th>
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<tr>
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<td>(NO DATA ENTERED)</td>
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</table>

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

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

Patents listed
{No Data Entered}

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

<table>
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<th>Extension</th>
<th>Research</th>
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</thead>
<tbody>
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</table>

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

● {No Data Entered}
V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content
Outcome #1

1. Outcome Measures

{No Data Entered}

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
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

**Brief Explanation**

Florida is a state located in the tropics. Natural disasters such as tropical storms and hurricanes are common annual occurrences in this state. Severe weather conditions such as droughts frequently lead to large-scale fires. Florida also has other weather extremes such as floods leading to large scale damage especially along coastal regions and rivers that can impact research studies.

Florida has three international shipping ports and four international airports with a new one scheduled to open in 2010. Besides imported goods over 53 million tourists visited annually from around the world. It has been estimated that because of this international influx into the state, we are the entry point for one new invasive plant, pest or disease each week. Any of these external factors can adversely affect the 1862 research outcomes.

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

1. Evaluation Studies Planned
   - After Only (post program)
   - Retrospective (post program)
   - Before-After (before and after program)
   - During (during program)
   - Time series (multiple points before and after program)
   - Case Study
   - Comparisons between program participants (individuals, group, organizations) and non-participants

**Evaluation Results**

Information in this section will be reported beginning next year. Presently it is identified other many other research areas of this report.

**Key Items of Evaluation**