

**V(A). Planned Program (Summary)**

**Program # 6**

**1. Name of the Planned Program**

Alternative Crop Production

**V(B). Program Knowledge Area(s)**

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants				
205	Plant Management Systems				
211	Insects, Mites, and Other Arthropods Affecting Plants				
601	Economics of Agricultural Production and Farm Management				
	<b>Total</b>				

**V(C). Planned Program (Inputs)**

1. Actual amount of professional FTE/SYs expended this Program

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.1	0.0	2.2
Actual	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
<b>1862 Matching</b>	<b>1890 Matching</b>	<b>1862 Matching</b>	<b>1890 Matching</b>
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
<b>1862 All Other</b>	<b>1890 All Other</b>	<b>1862 All Other</b>	<b>1890 All Other</b>
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

**V(D). Planned Program (Activity)**

1. Brief description of the Activity

Conduct research experiments; make presentations in conferences and meetings; conduct workshops and field days; develop Extension publications; and develop research publications.

The studies will be initiated to identify vegetable crop sequences under rotation and continuous systems will continue in order to identify the most profitable cropping system and the incidence of weeds, diseases and insects. Emphasis will be placed on squash, sweet corn, southern pea, and fall greens. Evaluation of alternative fertilizers for vegetable and ornamental crops and their fertilizer value and efficiency. With recent increases in fertilizer prices, it is urgent to find new types of fertilizers in order to help farmers produce vegetables and ornamentals of superior yield and quality. Further study will evaluate flower and ornamental crops considered to be popular in the lower Mississippi Delta region. Additional experiments will also be conducted to develop a crop protection system against economically beneficial pests using the natural resources. Several natural resources will be considered and determined to improve the efficiency of pest management. The suitable natural resources will be modified as necessary for field use. Establish database for predominant pests in local ornamental and flowering plants. The ornamentals those may have resistant or tolerant against insects' pests, can be identified and extracted to developed future non-restricted insecticidal treatment. The crop have tolerant against pests will be use to developing an attractant to decrease population of the targeted pests.

**2. Brief description of the target audience**

Small Farms and Limited Resource Farmers. Limited resources farmers grow vegetables, small fruits and ornamentals as alternatives to growing row crops. High potential return per acre can be obtained with minimum investment provided best management practices such as crop rotations and insect control are used.

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	50	100	20	75
<b>Actual</b>	0	0	0	0

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

**Patent Applications Submitted**

Year: 2010  
 Plan: 0  
 Actual: {No Data}

**Patents listed**

{No Data Entered}

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
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<b>Plan</b>	2	2	
<b>Actual</b>	2	2	0

**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

- The number of LRFs that adopt vegetable rotations/planting sequences, and insect control practices developed by this research.  
Not reporting on this Output for this Annual Report

**Output #2**

**Output Measure**

- Number of contacts with clientele at workshop, field days, demonstrations, etc.  
Not reporting on this Output for this Annual Report

**Output #3**

**Output Measure**

- Published research articles, extension publication and present research data at professional meetings.  
Not reporting on this Output for this Annual Report

**V(G). State Defined Outcomes**

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	1) Fifty percent of the UAPB LRF's clientele adopt the rotation and insect control practices after five years.
2	2)2-3% of UAPB LRF's will adopt ornamental production after five years.
3	3

**Outcome #1**

**1. Outcome Measures**

1) Fifty percent of the UAPB LRF's clientele adopt the rotation and insect control practices after five years.

Not Reporting on this Outcome Measure

**Outcome #2**

**1. Outcome Measures**

2)2-3% of UAPB LRF's will adopt ornamental production after five years.

Not Reporting on this Outcome Measure

**Outcome #3**

**1. Outcome Measures**

3

**2. Associated Institution Types**

- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	25	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**  
{No Data Entered}

**What has been done**  
{No Data Entered}

**Results**

{No Data Entered}

#### 4. Associated Knowledge Areas

<b>KA Code</b>	<b>Knowledge Area</b>
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants
205	Plant Management Systems
211	Insects, Mites, and Other Arthropods Affecting Plants
601	Economics of Agricultural Production and Farm Management

#### V(H). Planned Program (External Factors)

##### External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)

##### Brief Explanation

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

##### 1. Evaluation Studies Planned

- After Only (post program)
- During (during program)

##### Evaluation Results

{No Data Entered}

##### Key Items of Evaluation

{No Data Entered}