

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

**Program # 9**

**1. Name of the Planned Program**

Global Food Security and Hunger

Reporting on this Program

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

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
131	Alternative Uses of Land	5%			
205	Plant Management Systems	15%			
307	Animal Management Systems	15%			
501	New and Improved Food Processing Technologies	10%			
603	Market Economics	20%			
606	International Trade and Development	5%			
610	Domestic Policy Analysis	10%			
704	Nutrition and Hunger in the Population	20%			
	<b>Total</b>	100%			

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

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	9.5	0.0	0.0	0.0
Actual Paid Professional	3.7	0.0	0.0	0.0
Actual Volunteer	0.0	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
193119	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
67548	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

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

**1. Brief description of the Activity**

- Capacity building workshops
- Technical training meeting
- Establish collaborations between the government, the private sector and the academia
- Use of mass media to disseminate information

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

County Extension professionals, farmers, agro entrepreneurs, government professionals, housewives, and youth.

**3. How was eXtension used?**

Extension was not used in this program

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

**1. Standard output measures**

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Actual</b>	5283	1728	2902	0

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

**Patent Applications Submitted**

Year: 2013

Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

<b>2013</b>	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of agricultural enterprises feasibility studies.

<b>Year</b>	<b>Actual</b>
2013	33

**Output #2**

**Output Measure**

- Number of youth participating in food system educational program.

<b>Year</b>	<b>Actual</b>
2013	1633

**Output #3**

**Output Measure**

- Number of adults participating in food system knowledge and skill enhancement programs.

<b>Year</b>	<b>Actual</b>
2013	6464

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

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

O. No.	OUTCOME NAME
1	Number of individuals that increased their knowledge about international trade and development.
2	Number of public policy issues related with national food security that were reviewed or proposed.
3	Number of farmers that adopted one or more recommended post-harvest practices.
4	Number of fallow "cuerdas"(acres) sowed or prepared for animal production or other agricultural production.
5	Number of consumers that adopted the food basket as a guide for food security at the household level.
6	Number of home gardens established.
7	Number of acres in conservation tillage or other BMP.
8	Number of new or improved value-added products that can be sold by producers (and other members of the food supply chain).
9	Number of marketing agreements established between local farmers and distributors or other components of the food supply chain.
10	Number of producers (and other members of the food supply chain) that have increased revenue.
11	Number of first detectors trained in early detection and rapid response of plant pests, animal pests, and diseases.
12	Number of communities trained in agricultural disaster preparedness.
13	Number of communities that have written agriculture and food considerations into disaster preparedness plans or procedures.
14	Number of networks prepared to mitigate biological and abiotic disruptions
15	Number of youth that improved knowledge of food systems.
16	Number of adults improved knowledge of food systems.
17	Number of food councils and institutes created to promote practical food systems policies.

18	Number of research and extension advisory councils and boards.
19	Number of communities that retained farm lands due to educational interventions.
20	Number of food security extension publications and presentations.

**Outcome #1**

**1. Outcome Measures**

Number of individuals that increased their knowledge about international trade and development.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Actual
2013	753

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
606	International Trade and Development
704	Nutrition and Hunger in the Population

## **Outcome #2**

### **1. Outcome Measures**

Number of public policy issues related with national food security that were reviewed or proposed.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

Change in Action Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	16

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
131	Alternative Uses of Land
610	Domestic Policy Analysis
704	Nutrition and Hunger in the Population

## **Outcome #3**

### **1. Outcome Measures**

Number of farmers that adopted one or more recommended post-harvest practices.

### **2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	139

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
501	New and Improved Food Processing Technologies

**Outcome #4**

**1. Outcome Measures**

Number of fallow "cuerdas"(acres) sowed or prepared for animal production or other agricultural production.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	706

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
307	Animal Management Systems

**Outcome #5**

**1. Outcome Measures**

Number of consumers that adopted the food basket as a guide for food security at the household level.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	279

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
704	Nutrition and Hunger in the Population

## **Outcome #6**

### **1. Outcome Measures**

Number of home gardens established.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

Change in Action Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	1143

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
704	Nutrition and Hunger in the Population

## **Outcome #7**

### **1. Outcome Measures**

Number of acres in conservation tillage or other BMP.

### **2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	1220

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems
307	Animal Management Systems

**Outcome #8**

**1. Outcome Measures**

Number of new or improved value-added products that can be sold by producers (and other members of the food supply chain).

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	39

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
501	New and Improved Food Processing Technologies

**Outcome #9**

**1. Outcome Measures**

Number of marketing agreements established between local farmers and distributors or other components of the food supply chain.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	15

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
501	New and Improved Food Processing Technologies
603	Market Economics

## **Outcome #10**

### **1. Outcome Measures**

Number of producers (and other members of the food supply chain) that have increased revenue.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

Change in Action Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	764

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
603	Market Economics

## **Outcome #11**

### **1. Outcome Measures**

Number of first detectors trained in early detection and rapid response of plant pests, animal pests, and diseases.

### **2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	4

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems
307	Animal Management Systems

**Outcome #12**

**1. Outcome Measures**

Number of communities trained in agricultural disaster preparedness.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	19

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
704	Nutrition and Hunger in the Population

**Outcome #13**

**1. Outcome Measures**

Number of communities that have written agriculture and food considerations into disaster preparedness plans or procedures.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	7

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
610	Domestic Policy Analysis

**Outcome #14**

**1. Outcome Measures**

Number of networks prepared to mitigate biological and abiotic disruptions

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Actual
2013	2

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
610	Domestic Policy Analysis

**Outcome #15**

**1. Outcome Measures**

Number of youth that improved knowledge of food systems.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	3472

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
704	Nutrition and Hunger in the Population

**Outcome #16**

**1. Outcome Measures**

Number of adults improved knowledge of food systems.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	5297

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

**Issue (Who cares and Why)**

**What has been done**

## Results

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

### Outcome #17

#### 1. Outcome Measures

Number of food councils and institutes created to promote practical food systems policies.

#### 2. Associated Institution Types

- 1862 Extension

#### 3a. Outcome Type:

Change in Action Outcome Measure

#### 3b. Quantitative Outcome

Year	Actual
2013	7

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
610	Domestic Policy Analysis

## **Outcome #18**

### **1. Outcome Measures**

Number of research and extension advisory councils and boards.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

Change in Action Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	2

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
610	Domestic Policy Analysis

## **Outcome #19**

### **1. Outcome Measures**

Number of communities that retained farm lands due to educational interventions.

### **2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	6

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
131	Alternative Uses of Land

**Outcome #20**

**1. Outcome Measures**

Number of food security extension publications and presentations.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Actual</b>
2013	120

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

**Issue (Who cares and Why)**

**What has been done**

## Results

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
606	International Trade and Development

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

##### External factors which affected outcomes

- Other (change in personnel)

##### Brief Explanation

During FY 2013, our Agents implemented the new curricular guide on Food Security. There were many educational activities developed, in addition to short courses, such as agricultural fairs conferences. Unlike, short courses, which are offered to small groups of individuals, conferences and fairs are attended by a larger group of people. Therefore, with less FTEs we were able to reach more persons with the purpose to create awareness about this important issue. On the other hand we had no publications since our Food Security specialists, the person in charge of developing and coordinating publications was named Secretary of Agriculture of Puerto Rico on January 2013.

#### V(I). Planned Program (Evaluation Studies)

##### Evaluation Results

No formal evaluation was conducted for this fiscal year. However, outcomes 5, 6 and 9 provide data related to the goals of this planned program.

##### Key Items of Evaluation