

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

**Program # 21**

**1. Name of the Planned Program**

Aquaculture, freshwater, and marine resources

- Reporting on this Program

Reason for not reporting

As a result of refinements to the ACES program planning process, as noted in the 2013 Plan of Work, this program has been redefined consistent with the new FY2013 Planned Program list. The content of this program is now included in one of the FY2013 Planned Programs. Accomplishments for this program will be reported under the appropriate FY2013 Planned Program.

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

- 1. Program Knowledge Areas and Percentage

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

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

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	7.0	0.0	0.0	0.0
Actual Paid Professional	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
Actual Volunteer	{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}
1862 Matching	1890 Matching	1862 Matching	1890 Matching
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
1862 All Other	1890 All Other	1862 All Other	1890 All Other
{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}

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

**1. Brief description of the Activity**

The primary activities for 2010 in this area are associated with statewide focus areas and general activities of our Program Area. These are:

Aquaculture/Aquascience Education designed to support school teachers, administrators and others to establish and improve aquaculture/aquatic science programs within Alabama schools.

- Maintain education section of [www.alearn.info](http://www.alearn.info) web site
- Conduct school visits to train and support teachers
- Conduct field days and exhibitions of aquaculture and its potential as a career
- Provide intensive training for teachers from AL, GA, and CT on recirculating aquaculture systems as tool to teach math and science
- Conduct activities and camps for students interested in fisheries, aquaculture and aquatic ecology
- Support K-12 programs with fish, supplies and equipment with funded grants

Management of recreational sportfishing ponds designed to provide training and support to pond owners

- Organize and participate in public workshops and presentations involving pond management
- Generate newspaper articles, radio spots, and television appearances associated with pond management
- Maintain pond management section of [www.alearn.info](http://www.alearn.info) web site
- Conduct surveys of pond owners to provide feedback to extension
- Provide weed and water quality analyses and recommendations

Coastal resources program designed to address environmental and economic issues in the coastal zone.

- Support for the oyster gardening program
- Provide analysis of working waterfronts
- Provide support for the clean marina program
- Maintain the Auburn University Marine Extension and Research Center web site

Aquaculture extension to increase the viability and profitability of producers.

- Development of and multiple training sessions involving intensive aquaculture systems
- Maintain the aquaculture portion of the [www.alearn.info](http://www.alearn.info) web site
- Provide responses to fish kills in aquaculture
- Provide reactive services
- Provide economic analyses and projections to the industry

General Activities of this team:

- Training of agents in basic fish biology
- Cooperation and participation with other agencies concerning timely aquatic resource issues
- Provide angler education presentations

- Collaboration with Forestry and Natural Resources in support of the Alabama Water Watch volunteer water quality monitoring program

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

While our activities potentially impact everyone given the importance of water and water management, our focused audiences include: high school math and science teachers and students, fish bait producers and dealers, recreational anglers, commercial fishers, recreational fish pond owners, aquaculture producers, aquatic conservation organizations, 4Her's involved in aquatic programs.

**3. How was eXtension used?**

{No Data Entered}

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

**1. Standard output measures**

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Actual</b>	0	0	0	0

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

**Patent Applications Submitted**

Year: 2012

Actual: {No Data Entered}

**Patents listed**

{No Data Entered}

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

**Number of Peer Reviewed Publications**

2012	Extension	Research	Total
<b>Actual</b>	5	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- pond management workshops

<b>Year</b>	<b>Actual</b>
2012	0

**Output #2**

**Output Measure**

- Aquaculture workshops

<b>Year</b>	<b>Actual</b>
2012	0

**Output #3**

**Output Measure**

- Number of teacher trainings

<b>Year</b>	<b>Actual</b>
2012	0

**Output #4**

**Output Measure**

- Number of visits to our extension website [www.ALEARN.info](http://www.ALEARN.info)

<b>Year</b>	<b>Actual</b>
2012	0

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

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

O. No.	OUTCOME NAME
1	Aquaculture/Aquascience Education Short-term * Improve attendance and performance of students in school * Increase appreciation of both aquaculture and aquatic natural resources by students and teachers Long-term * Increase graduation rates * Produce better trained labor for aquaculture
2	Management of recreational sportfishing ponds Short-term * Increase the understanding of pond function and management by owners Long-term * Reduce improper management by consultants * Increase satisfaction and enjoyment of ponds by owners * Increase profitability of pay-to-fish operations
3	Coastal resources program Short-term * Increase public awareness of coastal environmental issues * Increase public awareness of loss of working waterfront * Increase community resilience to both natural and man made disasters. Long-term * Establish a viable mariculture industry in Alabama
4	Aquaculture Short-term * Increase the knowledge of producers in more efficient practices * Expand the use of hybrid catfish in production * Incorporate management that optimizes quality and profitability at all stages of production to marketing Long-term * Diversify species produced in Alabama * Improve marketing of Alabama aquaculture products * Cause a shift in the industry to more efficient intensive production methods
5	General Activities * Increase the public understanding of water conservation * Increase public appreciation for watershed and wetland conservation and management * Improve angler education to increase understanding of fisheries management and increase enjoyment of angling

## **Outcome #1**

### **1. Outcome Measures**

Aquaculture/Aquascience Education Short-term \* Improve attendance and performance of students in school \* Increase appreciation of both aquaculture and aquatic natural resources by students and teachers Long-term \* Increase graduation rates \* Produce better trained labor for aquaculture

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

- 1862 Extension
- 1890 Extension

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

Change in Condition Outcome Measure

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

<b>Year</b>	<b>Actual</b>
2012	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>
{No Data}	null

## **Outcome #2**

### **1. Outcome Measures**

Management of recreational sportfishing ponds Short-term \* Increase the understanding of pond function and management by owners Long-term \* Reduce improper management by consultants \* Increase satisfaction and enjoyment of ponds by owners \* Increase profitability of pay-to-fish operations

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

- 1862 Extension
- 1890 Extension

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

Change in Knowledge Outcome Measure

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

<b>Year</b>	<b>Actual</b>
2012	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>
{No Data}	null

### **Outcome #3**

#### **1. Outcome Measures**

Coastal resources program Short-term \* Increase public awareness of coastal environmental issues  
\* Increase public awareness of loss of working waterfront \* Increase community resilience to both natural and man made disasters. Long-term \* Establish a viable mariculture industry in Alabama

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

- 1862 Extension
- 1890 Extension

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

Change in Knowledge Outcome Measure

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

<b>Year</b>	<b>Actual</b>
2012	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>
{No Data}	null

## **Outcome #4**

### **1. Outcome Measures**

Aquaculture Short-term \* Increase the knowledge of producers in more efficient practices \* Expand the use of hybrid catfish in production \* Incorporate management that optimizes quality and profitability at all stages of production to marketing Long-term \* Diversify species produced in Alabama \* Improve marketing of Alabama aquaculture products \* Cause a shift in the industry to more efficient intensive production methods

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

- 1862 Extension

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

Change in Condition Outcome Measure

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

<b>Year</b>	<b>Actual</b>
2012	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>
{No Data}	null

## **Outcome #5**

### **1. Outcome Measures**

General Activities \* Increase the public understanding of water conservation \* Increase public appreciation for watershed and wetland conservation and management \* Improve angler education to increase understanding of fisheries management and increase enjoyment of angling

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

- 1862 Extension
- 1890 Extension

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

Change in Knowledge Outcome Measure

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

<b>Year</b>	<b>Actual</b>
2012	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>
{No Data}	null

### **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
- Other (man made disasters )

#### **Brief Explanation**

{No Data Entered}

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

#### **Evaluation Results**

{No Data Entered}

#### **Key Items of Evaluation**

{No Data Entered}