

Aquaculture and recreational pond management

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Aquaculture and recreational pond management

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
111	Conservation and Efficient Use of Water	5%	15%		
112	Watershed Protection and Management	10%	10%		
134	Outdoor Recreation	15%	20%		
135	Aquatic and Terrestrial Wildlife	10%	10%		
307	Animal Management Systems	40%	5%		
806	Youth Development	20%	40%		
Total		100%	100%		

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan				
Actual	7.9	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 140902	1890 Extension	Hatch	Evans-Allen
	0	0	0
1862 Matching 171741	1890 Matching	1862 Matching	1890 Matching
	0	0	0
1862 All Other 917095	1890 All Other	1862 All Other	1890 All Other
	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Aquaculture and recreational pond management

The primary activities in this area are 3 statewide Extension Team Projects and general activities of our Program Area. These are:

ETP12A K-12 Aquaculture/Aquascience Education designed to support school teachers, administrators and others to establish and improve aquaculture/aquatic science programs within Alabama schools.

- maintained education section of www.alearn.info web site
 - Conducted over 100 school visits
 - Conducted field days and exhibitions of aquaculture and its potential as a career
 - Provided live fish to schools in Alabama and across the US
 - Provided intensive training for teachers from AL, GA, and CT on recirculating aquaculture systems as tool to teach math and science
 - Conducted "Fish Camp" for students interested in fisheries, aquaculture and aquatic ecology
 - Developed complete kits with aquaculture/aquascience equipment for K-12 teachers
- ETP12B Improving the Survival of Live Bait in Bait Shops designed to train bait dealers in the proper care of live bait (fish and shrimp) to the reduce mortality and increase profitability

- Contact was made and relationship formed with 3 bait dealers
- Water quality training was provided to dealers
- Full implementation in 2009

ETP12C Management of recreational sportfishing ponds designed to provide training and support to pond owners

- 8 public workshops and presentations involving pond management
- Multiple newspaper articles, radio spots, and television appearances.
- Maintained pond management section of www.alearn.info web site
- Conducted randomized telephone survey of pond owners

Activities of overall team included:

- Development of and multiple training sessions involving intensive aquaculture systems
- Maintenance of the aquaculture portion of the www.alearn.info web site
- Maintenance of the Auburn University Marine Extension and Research Center web site
- Responses to fish kills in aquaculture and sportfish ponds
- Weed and water quality analyses and recommendations
- Training of agents in basic fish biology
- Cooperation and participation with other agencies concerning timely aquatic resource issues
- Provided angler education presentations

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:

- Highschool math and science teachers and students
- Fishing bait producers and dealers
- Anglers
- Recreational fish pond owners
- Aquaculture producers

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
2008	13301	3206499	9217	0

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

Patent Applications Submitted

Year Target

Plan:

2008: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2008	8	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Total visits to the Educational portion of WWW.ALEARN.info

Year	Target	Actual
2008	{No Data Entered}	62953

Output #2

Output Measure

Number of telephone surveys of recreational fish pond owners

Year	Target	Actual
2008	{No Data Entered}	250

Output #3

Output Measure

Pond management workshops

Year	Target	Actual
2008	{No Data Entered}	8

Output #4

Output Measure

Number of teacher training workshops

Year	Target	Actual
2008	{No Data Entered}	8

V(G). State Defined Outcomes

O No.	Outcome Name
1	Survival increase in live bait in bait shops.
2	Improved motivation of high school students involved with aquaculture
3	Increase number of high school aquaculture programs in Alabama
4	Increase in the knowledge of aquaculture and aquasciences by teachers and students.

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Natural Disasters (drought, weather extremes, etc.)

Economy

Appropriations changes

Competing Programmatic Challenges

Brief Explanation

All of the factors above can (and do) have an effect on ACES programming. Due to the relationship between our program and water, drought and flooding can have dramatic impacts on our priorities. The past 2 years has seen a dramatic drought in Alabama. This has caused a reduction in interest in pond management in terms of coming to workshops.

The economy of the nation and state is of course problematic. Lack of funding limits travel by agents and our clientel. The aquaculture industry is under particular economic stress. Much of our effort has been directed toward increasing profitability of the aquaculture sector. These efforts are not fully demonstrated in this report due to the fact that we did not have a focused ETP in this arena.

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

1. Evaluation Studies Planned

Before-After (before and after program)

Evaluation Results

Evaluation of training workshops for highschool teachers and students: Teachers that attended the workshop increased their aquaculture knowledge by an average of 22% as indicated by pre/post testing. Students that attended fish camp increased their knowledge of aquaculture and fisheries by more than 50%. Both the fish camp students and the workshop teachers indicated a very positive experience in their evaluations, rating it 4.5 to 5.0 (out of 5) in every category assessed.

Key Items of Evaluation