

# AQUACULTURE

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

### 1. Name of the Planned Program

AQUACULTURE

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

### 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
301	Reproductive Performance of Animals	25%	25%	25%	25%
302	Nutrient Utilization in Animals	25%	25%	25%	25%
307	Animal Management Systems	40%	40%	40%	40%
903	Communication, Education, and Information Delivery	10%	10%	10%	10%
<b>Total</b>		<b>100%</b>	<b>100%</b>	<b>100%</b>	<b>100%</b>

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

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	0.4	0.0	2.6
<b>Actual</b>	0.0	0.5	0.0	2.0

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b> 0	<b>1890 Extension</b> 74375	<b>Hatch</b> 0	<b>Evans-Allen</b> 148537
<b>1862 Matching</b> 0	<b>1890 Matching</b> 74375	<b>1862 Matching</b> 0	<b>1890 Matching</b> 148537
<b>1862 All Other</b> 0	<b>1890 All Other</b> 100663	<b>1862 All Other</b> 0	<b>1890 All Other</b> 456759

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

### 1. Brief description of the Activity

In addition to aquaculture research trials that will be conducted at the Delaware State University Aquaculture Research and Demonstration Facility, a series of informational workshops and on-farm demonstration/field days will be held. One-on-one technical assistance will be provided through telephone, e-mail and site visits as needed. Furthermore, research findings will be disseminated through the publication of extension fact sheets, and peer-reviewed publications. A display will be set up at pertinent regional events, including the University of Delaware Coast Day, the Maryland Watermen's East Coast Commercial Fisherman's and Aquaculture Trade Exposition and Delaware Ag Week, to highlight our aquaculture research and extension program activities.

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

As designed, this program will primarily target existing and perspective aquaculture producers, although the information generated and planned activities will also benefit educators, policy makers and consumers.

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

**1. Standard output measures**

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

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	175	325	2000	100
2008	1050	830	2400	50

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

**Patent Applications Submitted**

**Year Target**

**Plan: 0**

**2008: 0**

**Patents listed**

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

**Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>	0	3	
2008	0	15	15

**V(F). State Defined Outputs****Output Target****Output #1****Output Measure**

Number of Refereed Journal Articles

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	3	15

**Output #2****Output Measure**

Number of Extension Bulletins and Factsheets

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	3	13

**Output #3****Output Measure**

Number of Volunteered Presentations

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	3	55

**Output #4****Output Measure**

Number of Workshops Conducted

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	2	11

**Output #5****Output Measure**

Number of websites established

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	0	3

**Output #6****Output Measure**

Grants Submitted

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	27

**Output #7****Output Measure**

Grants Awarded

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	20

**Output #8****Output Measure**

Research Projects Completed

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	12

**Output #9****Output Measure**

Number of M.S. Graduate Students

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	7

**Output #10****Output Measure**

Number of Undergraduate Researchers

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	16

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

<b>O No.</b>	<b>Outcome Name</b>
1	Increased knowledge by the public, the food processing and restaraunt industries, state and regional economic development agencies, and state and federal technical and advisory agencies about the potential economic benefits of expanding aquaculture production.
2	Educate K-12 teachers and youth about aquaculture's role in world food security, the fundamental scientific and technological components of aquaculture production systems, and the financial and marketing aspects of aquaculture as a business.
3	Greater adoption of improved best management practices for recreational and farm ponds to increase profitability and minimize any environmental impacts of aquaculture.
4	Increased ability of aquaculturists to manage production and financial risks.
5	A comprehensive approach to increase and sustain the role of aquaculture in Delaware's economy, including the development of research-based management practices for the production aspects and environmental compatibility of aquaculture, wider use of innovative marketing strategies, and providing ongoing training on the sound business and financial management skills needed by aquaculturists

**Outcome #1**

**1. Outcome Measures**

*Not reporting on this Outcome for this Annual Report*

**2. Associated Institution Types**

**3a. Outcome Type:**

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
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**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>
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**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**

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

**1. Evaluation Studies Planned**

Retrospective (post program)

During (during program)

**Evaluation Results**

**Key Items of Evaluation**