

Animal Production and Protection

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Animal Production and Protection

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			17%	
302	Nutrient Utilization in Animals			9%	
303	Genetic Improvement of Animals			7%	
304	Animal Genome			7%	
307	Animal Management Systems			1%	
308	Improved Animal Products (Before Harvest)			1%	
311	Animal Diseases			29%	
312	External Parasites and Pests of Animals			7%	
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals			7%	
315	Animal Welfare/Well-Being and Protection			8%	
402	Engineering Systems and Equipment			7%	
Total				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	0.0	0.0	5.9	0.0
Actual	0.0	0.0	5.4	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
0	0	369278	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	1290999	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	280354	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

MAFES researchers looked for new ways to increase the reproductive success of dairy cows and to develop new stocks of mussels and oysters. They tested new fish diets and new rearing techniques for cod and halibut. They researched the efficacy of vaccines for infectious pancreatic necrosis virus. MAFES investigators also studied the effects of toxicants on fish and shellfish and the relationship between green crab and softshell clam populations. They published peer-reviewed journal articles and other publications concerning research. Present findings at professional meetings, at workshops for livestock producers, and at other venues.

2. Brief description of the target audience

Scientists, extension specialists, state fisheries managers, dairy farmers, Maine’s aquaculture and shellfish industries

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	0	0	0	0
2008	0	0	0	0

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

	Extension	Research	Total
Plan	0	10	
2008	0	19	19

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

of research projects completed, annually

Year	Target	Actual
2008	1	1

Output #2

Output Measure

of papers presented at professional meetings, annually

Year	Target	Actual
2008	26	36

Output #3

Output Measure

of other types of publications, annually

Year	Target	Actual
2008	8	10

V(G). State Defined Outcomes

O No.	Outcome Name
1	# of zebrafish models validated for use in toxicology studies and for testing new pesticides
2	# of new lab-scale protocols that accurately reflects farm-scale ensilage
3	# of new cost-benefit models for establishing mussel hatcheries for new mussel lines
4	# of DNA vaccines against infectious pancreatic necrosis virus developed and tested
5	# of thematic maps regarding incidence of lobster shell disease and other environmental factors
6	# of state agencies using findings on effects of contaminants in rivers on maturation of Maine salmon to develop BMPs for pesticide use
7	% of Maine dairy farmers sending samples to be measured for bovine placental lactogen (bPL) and using the results of samples to make management decisions involving their animals
8	# of crab-monitoring programs undertaken by coastal communities
9	# of Maine mussel growers using new submersible raft
10	# of new oyster lines with superior cold-water growth and disease resistance
11	% increase in Maine's clam catch levels
12	% increase in oyster seed from new lines being used by industry
13	% increase in mussel seed used for grow-out on commercial mussel farms
14	% increase in the fertility of marine broodfish (Atlantic cod and halibut)
15	% increase in the hatching rate of marine larval fish (Atlantic cod and halibut)
16	% increase in the viability of juvenile marine fish raised in captivity (Atlantic cod and halibut)
17	% reduction in the use of live food inputs in diets for larval marine fish
18	Unlocking disease-fighting secrets
19	Feed costs and organic dairy
20	Ways to increase Maine's clam catch

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

Public Policy changes

Government Regulations

Competing Public priorities

Competing Programmatic Challenges

Populations changes (immigration, new cultural groupings, etc.)

Other (new invasive species)

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}