

# Agriculture and Horticulture

Agriculture and Horticulture

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

### 1. Name of the Planned Program

Agriculture and Horticulture

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

### 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	10%		10%	
205	Plant Management Systems	40%		40%	
213	Weeds Affecting Plants	5%		5%	
216	Integrated Pest Management Systems	5%		5%	
302	Nutrient Utilization in Animals	15%		15%	
307	Animal Management Systems	10%		10%	
308	Improved Animal Products (Before Harvest)	10%		10%	
601	Economics of Agricultural Production and Farm Management	5%		5%	
<b>Total</b>		100%		100%	

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

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

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	8.0	0.0	1.5	0.0
<b>Actual</b>	8.0	0.0	0.0	0.0

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b> 278303	<b>1890 Extension</b> 0	<b>Hatch</b> 0	<b>Evans-Allen</b> 0
<b>1862 Matching</b> 278303	<b>1890 Matching</b> 0	<b>1862 Matching</b> 0	<b>1890 Matching</b> 0
<b>1862 All Other</b> 507993	<b>1890 All Other</b> 0	<b>1862 All Other</b> 0	<b>1890 All Other</b> 0

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

### 1. Brief description of the Activity

Group and one-on-one meetings concerning specific sectors of the industry as well as the entire agriculture and horticulture industry in Alaska. Methods in in-person and distance delivery.

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

- Commercial vegetable growers
- Organic vegetable growers
- Commercial greenhouse operators, including chain stores
- Commercial nursery operators, including chain stores
- Greenhouse owners for home consumption
- Community gardeners
- Home gardeners
- Commercial livestock producers
- Livestock owners for home consumption
- Horse owners
- Forage growers
- Forage consumers
- Youth and 4H
- Policy makers

**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>	3400	16000	4800	6500
2007	16108	336520	426	14415

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

**Patent Applications Submitted**

<b>Year</b>	<b>Target</b>
<b>Plan:</b>	0
2007:	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>			
2007	11	0	0

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

**Output Target**

**Output #1**

**Output Measure**

Output 1: Extension faculty and staff will offer agricultural and horticultural workshops.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	100	72

**Output #2**

**Output Measure**

Output 2: Extension faculty and staff will provide agricultural and horticultural information through one-on-one consultations and consultations with other organizations. These consultations will be measured in contact hours.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	1500	2317

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

O No.	Outcome Name
1	Outcome target 1: Increase crop producers' knowledge of food production practices in Alaska.
2	Outcome target 2: Increase livestock producers' knowledge of food production practices in Alaska.
3	Outcome target 3: Increase crop producers' understanding of optimum production practices.
4	Outcome target 4: Increase livestock producers' understanding of optimum production practices.
5	Outcome target 5: Increase crop producers' ability to assess their own production practices.
6	Outcome target 6: Increase livestock producers' ability to assess their own production practices.
7	Outcome target 7: Increase crop producers' application of optimum production practices.
8	Outcome target 8: Increase livestock producers' application of optimum production practices.
9	Outcome target 9: Increase crop producers' production by five percent on a per farm basis over five years or less.
10	Outcome target 10: Increase livestock producers' production by five percent on a per farm basis over a five year or less.
11	Outcome target 11: Increase crop producers' economic viability on a per farm basis as measured by net farm income over five years or less.
12	Outcome target 12: Increase livestock producers' economic viability on a per farm basis as measured by net farm income over a five year or less.
13	Outcome target 13: Individuals who participate in educational activities related to community and home gardening will increase their knowledge of small-scale agricultural production techniques.
14	Outcome target 14: Individuals who participate in educational activities related to small-scale livestock production will increase their knowledge of small-scale agricultural production techniques.
15	Outcome target 15: Individuals who participate in educational activities related to community and home gardening will apply the techniques they learn.
16	Outcome target 16: Individuals who participate in educational activities related to small-scale livestock production will apply the techniques they learn.
17	Outcome target 17: Commercial horticultural producers (greenhouse growers, nurseries, landscapers, garden centers, and other commercial horticulture operations) will increase their productivity.
18	Outcome target 18: Commercial horticultural producers (greenhouse growers, nurseries, landscapers, garden centers, and other commercial horticulture operations) will increase their economic viability.
19	Outcome target 19: Alaska's dependence on imported food will decrease by one percent annually (target measure is 'percent').

**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

**Brief Explanation**

Working through the Plan of Work outcomes, we discovered several measures that we do not have adequate information to report on, particularly regarding the percentage increase of livestock production and profitability per farm and the percentage increase of crop producers productivity and profitability per farm. Our interim director will revise and simplify outcomes for 2009.

The high cost of petroleum products and fertilizers are expected to impact the productivity and the economic viability of horticultural and agricultural operations in the state.

The small number of agricultural staff working for Extension, the geographic distances between communities and high transportation costs involved in traveling to communities off the road system all present challenges to Extension, which tries to provide a supporting role for horticultural and agricultural production in the state.

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

### **1. Evaluation Studies Planned**

After Only (post program)

Retrospective (post program)

Before-After (before and after program)

During (during program)

Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

Comparison between locales where the program operates and sites without program intervention

### **Evaluation Results**

As a first-year reporting effort under the new five-year Plan of Work, it is obvious that we need to improve our evaluation techniques regarding the capture of programmatic efforts and impacts. Most of our agriculture agents do evaluations after an event for recording impacts but our livestock specialist does pre- and posttest surveys to determine what participants in his workshops learn. Most of our surveys are completed at the end of workshop or conferences, but in one case an agent conducted a survey nine months after a composting class, to determine whether participants used information they were taught during the growing season. We are learning through surveys what impacts our clients and what areas interest them for future programming.

All of our agents used surveys after our major conferences and most agents regularly surveyed following individual classes.

### **Key Items of Evaluation**