

V(A). Planned Program (Summary)

Program # 1

1. Name of the Planned Program

Global Food Security and Hunger

Reporting on this Program

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%			
205	Plant Management Systems	15%			
206	Basic Plant Biology	5%			
213	Weeds Affecting Plants	5%			
216	Integrated Pest Management Systems	25%			
307	Animal Management Systems	5%			
311	Animal Diseases	5%			
315	Animal Welfare/Well-Being and Protection	5%			
601	Economics of Agricultural Production and Farm Management	5%			
602	Business Management, Finance, and Taxation	10%			
704	Nutrition and Hunger in the Population	10%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	30.6	0.0	0.0	0.0
Actual Paid Professional	20.3	0.0	0.0	0.0
Actual Volunteer	240.7	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	1890 Extension	Hatch	Evans-Allen
738972	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
3086134	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1233791	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Crop Production Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
- Crop Production Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- General activities related to Global Food Security and Hunger (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- General activities related to Global Food Security and Hunger (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
- Home Horticulture Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
- Home Horticulture Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- Livestock Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
- Livestock Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- Pest Management Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- Pest Management Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

2. Brief description of the target audience

- 4-H Volunteers (Adult)
- 4-H Youth (Youth)
- Agricultural Producers (Adult)
- Agricultural Service Providers
- Agricultural Workers (Adult)
- Apple Growers (Adult)
- Blueberry Growers (Adult)
- Commercial Aquaculturalists (Adult)
- Community Leaders (Adult)
- County Executive Committee Members (Adult)
- Cranberry Growers (Adult)

- Dairy Producers (Adult)
- Disabled Adults (Adults)
- Disabled Youth (Youth)
- Elders or Seniors (Adult)
- Extension - staff (Adult)
- Extension Staff (Adult)
- Families (Adult)
- Families (Youth)
- Food Stamp Recipients (Adult)
- General Public (Adult)
- General Public (Youth)
- Health Care Providers (Adult)
- Home Gardeners (Adult)
- Maple Producers (Adult)
- Master Gardener Volunteers (Adult)
- Ornamental Horticulture Industry (Adult)
- Parent Educators (Adult)
- Pesticide Applicators (Adult)
- Potato Growers (Adult)
- Resource Managers and Scientists (Adult)
- Sweet Corn Growers (Adults)
- Teachers (Adult)
- Vegetable Growers (Adult)
- Volunteers (Adult)

3. How was eXtension used?

- Limited staff membership and participation in communities if practice
- Access for information related to Planned Programs
- Serve as a resource for "Ask an Expert"
- Resources referred to customers and clients
- Participation in selected webinars sponsored by eXtension
- Participation in selected professional development webinars sponsored by eXtension
- Identifying multi-state collaboration opportunities

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	196728	1004032	9659	614

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

Patent Applications Submitted

Year: 2013

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct; Club, Conference, Program, Consultation, Scholarship, or Training

Year	Actual
2013	11307

Output #2

Output Measure

- Indirect; Applied Research, Media, Internet, Publication, Resulting from Training

Year	Actual
2013	128228

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Pounds of food donated
2	Monetary value of food produced, gleaned, and donated
3	Organizations/collaborators receiving donated food
4	Participate in livestock disease monitoring programs
5	Improve animal well-being
6	Demonstrate application of life skills
7	Demonstrate application of subject matter knowledge
8	Demonstrate application of leadership skills
9	Demonstrate civic engagement
10	Reduce carbon footprint
11	Reduce waste
12	Adopt sustainable living practices
13	Assess current and projected impacts of climate change
14	Adopt appropriate strategies based on research-based information
15	Form/join citizen networks for citizen action and education
16	Engage positively in their community
17	Train, support and mentor others in leadership roles

18	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability
19	Increase consumption of locally produced foods
20	Adopt integrated pest management strategies
21	Develop integrated farming systems
22	People donating food
23	Participate in livestock quality assurance program
24	Demonstrate practices including managing nutrient sources, recycling/delivery methods that are compatible with crop/soil/production systems
25	Increase career aspirations and goal setting
26	Adopt healthy dietary practices (consume nutrient-rich foods, follow current Dietary Guidelines for Americans or DASH, etc.)
27	Increase consumption of healthful, locally-grown and produced food (farm to school program, food preservation, etc.)
28	Asses current and projected impacts of climate change and adopt effective strategies to respond to and mitigate such change
29	Increase profitability
30	Document dollars saved
31	Train support and mentor others in leadership roles
32	Demonstrate leadership skills
33	Develop Sustainable Aquaculture Systems

Outcome #1

1. Outcome Measures

Pounds of food donated

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	25184

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #2

1. Outcome Measures

Monetary value of food produced, gleaned, and donated

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	480

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #3

1. Outcome Measures

Organizations/collaborators receiving donated food

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #4

1. Outcome Measures

Participate in livestock disease monitoring programs

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	39

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
216	Integrated Pest Management Systems
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management

Outcome #5

1. Outcome Measures

Improve animal well-being

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	233

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management

Outcome #6

1. Outcome Measures

Demonstrate application of life skills

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Demonstrate application of subject matter knowledge

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	8000

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Maple Grading School: As an industry, maple syrup production is expanding rapidly and becoming both a commodity crop for some producers and an integral economic addition for diversified farms in Maine. There is a burgeoning demand and need for relevant educational programming and research to support the maple industry and to protect the quality and integrity of maple products.

What has been done

The International Maple Syrup Institute (IMSI) Maple Grading School, first delivered in 2004, was developed by the Vermont Agency of Agriculture, Food, and Markets; University of New Hampshire Extension; and UMaine Extension with a UMaine MAC grant (Maine Agricultural Center is a collaboration between UMaine Extension and the Maine Agricultural and Forest Experiment Station). Because of continuing demand, IMSI has held the school annually to advance its mission and support producers who are tapping over 10 million trees annually. The school has been offered around North America to improve accessibility.

Results

Results: The continued success of the school over 10 years promotes the image of the maple industry and its producers. Two long-term surveys (2005 and 2013) showed the following:

- 92 percent of respondents gave the school an overall rating of 8-10 on a 10-point scale (10 being most positive).
- 80 percent of respondents (228) increased their knowledge about producing syrup by 2-6 steps on a 7-step scale.
- Regarding implementation of five maple syrup grading skills as a result of attending the school, practice implementation rates ranged from 43 percent to 87 percent.
- Seventy-five percent estimated reduced expenses, 63 percent increased profit, 70 percent increased sales, and 10 percent used their cost-savings to add employees as a result of attending the school.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation

Outcome #8

1. Outcome Measures

Demonstrate application of leadership skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	45

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #9

1. Outcome Measures

Demonstrate civic engagement

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems
216	Integrated Pest Management Systems
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #10

1. Outcome Measures

Reduce carbon footprint

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Reduce waste

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	69

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #12

1. Outcome Measures

Adopt sustainable living practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	2015

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
213	Weeds Affecting Plants
216	Integrated Pest Management Systems
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #13

1. Outcome Measures

Assess current and projected impacts of climate change

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	60

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection
602	Business Management, Finance, and Taxation

Outcome #14

1. Outcome Measures

Adopt appropriate strategies based on research-based information

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	8260

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Increasing Farmers' Capacity To Produce High-Quality Food Grains: Increasing demand for

locally grown food and feed grains represents a significant opportunity for northern New England's dairy, potato, and cash grain farmers, but they need research-based information on how to produce high quality grains for this high-value market. Organic dairy farms need a reliable local source of organic feed grains. This market supports the food grain industry by providing an alternative market for crops that fail to meet stringent food-grade standards.

What has been done

Over the last 4 years, UMaine Extension and Research Station researchers have secured over \$1.6 million to fund a comprehensive program to increase farmers' capacity to produce high-quality food grains and organic feed grains for local markets. The program targets farmers, millers, bakers, and agricultural services providers and includes research trials on varieties, fertility strategies, weed management, and rotations; research and Extension outreach events, publications, and websites; and a train-the-trainer program.

Results

Results: Maine and New England farmers now have access to regionally specific, research-based information on key aspects of local grain production, markets, quality standards, and economics. Over 1,000 people in Maine and over 3,500 total have accessed this information. In a recent survey, one-third of the 45 commercial farmer and miller respondents credited the project with helping them increase or maintain employment. The economic value farmer respondents placed on the benefits they gained from the project was on average \$7,000 each. For farmer/millers and millers, this value was over \$35,000 each.

Grain buyers also benefited from this project. Eight of the 14 baker and distributor survey respondents estimated an economic value of the project for their business ranging from \$500 to \$20,000, with an average of over \$5,000 each.

Since the project began, wheat acreage has increased from 500 acres (USDA-NASS, 2007) to over 2,000 acres in 2013 (industry sources).

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
601	Economics of Agricultural Production and Farm Management

Outcome #15

1. Outcome Measures

Form/join citizen networks for citizen action and education

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	32

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management

Outcome #16

1. Outcome Measures

Engage positively in their community

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	597

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #17

1. Outcome Measures

Train, support and mentor others in leadership roles

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	84

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
315	Animal Welfare/Well-Being and Protection

- 601 Economics of Agricultural Production and Farm Management
- 602 Business Management, Finance, and Taxation

Outcome #18

1. Outcome Measures

Demonstrate practices that improve efficiency, reduce inputs, or increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1431

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Increasing the Capacity for Local Meat Processing: Maine consumers want locally produced meat products, but the infrastructure for inspecting, slaughtering, and processing Maine-grown meat is lacking. Many Maine producers send their animals as far as Pennsylvania for slaughter, at significant cost. The USDA estimated that sales of "local foods" in the U.S. amounted to \$4.8 billion in 2008, and projected that number to rise to \$7 billion in 2011, so strengthening this market would grow Maine's economy while providing more healthy food options.

What has been done

UMaine Extension works with individuals and groups to improve profitability of all phases of animal agriculture, through activities such as conducting workshops on pricing, marketing, and other topics, and helping to develop individual business plans. For example, we worked extensively with entrepreneurs seeking to open a local meat processing facility and a food safety consulting business. Both such companies are key to increasing the availability of locally produced meat in Maine.

Results

Results: The local meat processor opened a new facility in June 2013, creating 7 new jobs in Gardiner. They began processing 7,000 pounds of meat of week and could increase that to 15,000 pounds a week. The owner is now exploring developing a mobile slaughter facility. The food safety consulting company is also up and running helping meat processors meet strict food safety laws and regulations. The owner reports that she has more work than she can do. These two new businesses are well positioned to take advantage of the growing local food movement in Maine and help meet the needs of the livestock industry, particularly beef, lamb, and poultry. UMaine Extension's broad efforts to improve profitability of animal agriculture allow Maine farmers

to retain a larger percentage of consumer spending on farm products, thereby helping farmers stay in business. And when farmers spend less to transport their animals, consumers pay lower prices for high-quality products.

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #19

1. Outcome Measures

Increase consumption of locally produced foods

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	60

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #20

1. Outcome Measures

Adopt integrated pest management strategies

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	3107

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems
601	Economics of Agricultural Production and Farm Management

Outcome #21

1. Outcome Measures

Develop integrated farming systems

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	202

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Coordination of Sustainable Agriculture Research and Extension in Maine: The USDA Sustainable Agriculture Research and Extension (SARE) program embodies a grassroots approach to innovation and education in agriculture. SARE offers grants to investigate innovative practices that further the goals of sustainable agriculture. Programs include larger research and education grants, and professional development grants, and farmer, partnership, and sustainable community grants. Maine benefits from over \$300,000 per year in SARE grants to advance sustainable agriculture.

What has been done

The UMaine Extension SARE Outreach program provides information about SARE grant opportunities to farmers and agricultural professionals, helps maintain a Maine SARE Web site [<http://www.nesare.org/State-Programs/Maine>], and oversees the creation of SARE Farmer grant profiles by UMaine students [<http://umaine.edu/sustainable-ag/sare-farmer-grants/>]. We also respond to inquiries about SARE programs and provide guidance to potential grant applicants to improve the quality and success rate of proposals.

Results

Results: Since 2008, UMaine Extension SARE Outreach has reached approximately 1,000 farmers and 250 agricultural professionals per year with information about SARE grant opportunities and provided one-on-one, in-depth information about SARE grants to 156 farmers and 28 agricultural professionals. As a result Maine led the Northeast in the number of Farmer Grants submitted and awarded as a proportion of the number of farms in the state for the period 2009 to 2012. Maine also had the region's highest proposal acceptance rate for Farmer grants (56 percent) and the third highest acceptance rate for Sustainable Community grants (37percent).

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management

Outcome #22

1. Outcome Measures

People donating food

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	176

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #23

1. Outcome Measures

Participate in livestock quality assurance program

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
311	Animal Diseases
315	Animal Welfare/Well-Being and Protection

Outcome #24

1. Outcome Measures

Demonstrate practices including managing nutrient sources, recycling/delivery methods that are compatible with crop/soil/production systems

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	254

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems
216	Integrated Pest Management Systems

Outcome #25

1. Outcome Measures

Increase career aspirations and goal setting

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	63

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #26

1. Outcome Measures

Adopt healthy dietary practices (consume nutrient-rich foods, follow current Dietary Guidelines for Americans or DASH, etc.)

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1478

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #27

1. Outcome Measures

Increase consumption of healthful, locally-grown and produced food (farm to school program, food preservation, etc.)

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	550

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Learning to Farm in Maine: Many people interested in starting a farm lack the skills, knowledge, and confidence to investigate their options to start, adapt, and maintain a profitable land-based business. Further, many current farmers radically change their farm enterprises based on market trends. Some of the major issues farmers and potential farmers need to overcome include access to capital, understanding rules and regulations affecting agricultural operations, and new and evolving marketing options. Maine offers relatively affordable land, strong local produce markets, and broad educational support through the University of Maine and other farmer-based cooperatives and networks.

What has been done

UMaine Extension conducts ongoing farm business management trainings, many focused on new and aspiring farmers. In 2013 we used webinars to reach 160 people from all counties in Maine and 16 from out of state. Participants learned about agriculture enterprise selection, business planning, record keeping, market research, regulations, and resource identification. The webinars also introduced UMaine Extension programming to people unfamiliar with it.

Results

Results: As a result of attending sessions, the number of people farming increased from 27percent to 73 percent. Twenty-three people created a business plan, 20 people developed an enterprise budget, and 21 people did market research. Fourteen people developed a new product or enterprise, 23 people improved their farm financial records, and 26 people improved production records. When asked to rate confidence in their ability to create a viable farm business (5 = very confident), most attendees had an increase in confidence of 3 steps. UMaine Extension's ongoing focus on new and aspiring farmers is paying off. USDA's 2012 farm census showed that the number of Maine farmers aged 34 and younger grew by nearly 40 percent from 2007 to 2012. The 39 percent jump in young farmers from 396 to 551 far surpassed the 1.5 percent increase in nationally.

4. Associated Knowledge Areas

KA Code	Knowledge Area
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #28

1. Outcome Measures

Asses current and projected impacts of climate change and adopt effective strategies to respond to and mitigate such change

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	19

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #29

1. Outcome Measures

Increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	176

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #30

1. Outcome Measures

Document dollars saved

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	40

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #31

1. Outcome Measures

Train support and mentor others in leadership roles

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	35

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #32

1. Outcome Measures

Demonstrate leadership skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	51

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #33

1. Outcome Measures

Develop Sustainable Aquaculture Systems

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Integrated Multitrophic Aquaculture: On a per-acre basis, farmed salmon is one of the most valuable agricultural crops in Maine, and supports a \$75-million-dollar industry. Integrated multitrophic aquaculture (IMTA) is an alternative approach to monoculture that reduces environmental impacts while increasing sustainability, profitability, and public acceptance. IMTA combines cultivation of fed finfish with shellfish and seaweed. Shellfish remove wastes such as uneaten fish food and seaweed takes up dissolved inorganic nutrients, resulting in a healthier profile for all.

What has been done

In 2013, UMaine Extension's Animal Health Laboratory and the UMaine Aquaculture Research Institute partnered with Cooke Aquaculture, USA, on a research project to apply a variety of IMTA methods with potential to increase aquaculture productivity and sustainability. This applied project developed the first full-scale IMTA site in Maine consisting of blue mussel and Atlantic salmon culture. The UMaine Extension component developed methods for success and examined all aspects of the associated risks involved in establishing productive IMTA culture practices.

Results

In 2013, UMaine Extension's Animal Health Laboratory and the UMaine Aquaculture Research Institute partnered with Cooke Aquaculture, USA, on a research project to apply a variety of IMTA methods with potential to increase aquaculture productivity and sustainability. This applied project developed the first full-scale IMTA site in Maine consisting of blue mussel and Atlantic salmon culture. The UMaine Extension component developed methods for success and examined all aspects of the associated risks involved in establishing productive IMTA culture practices.

4. Associated Knowledge Areas

KA Code	Knowledge Area
307	Animal Management Systems
602	Business Management, Finance, and Taxation

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Public Policy changes
- Government Regulations
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

- Retrospective (post program)
- Before- After (before and after program)
- Case Study
- Comparison between locales where the program operates and sites without program intervention

Key Items of Evaluation