2012 University of Maine Extension Annual Report of Accomplishments and Results

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I. Report Overview

1. Executive Summary

The University of Maine Cooperative Extension and the Maine Food System

The UMaine Extension supports the entire Maine Food System through outreach, education, and applied research. Maine's food system is a big part of the economy, encompassing agricultural production, processing, food safety, food security, commerce, and consumption. Our work includes a statewide pest management program that helps growers minimize pesticide use while protecting crops and livestock from disease, saving millions for farmers and minimizing impact on the environment. We are on the front lines of the battle against invasive pests and this year led the emergency effort to understand the ramifications of the a dire threat from the spotted wing spotted drosyphilla, an extremely destructive invasive fruit fly. We led the transition in Maine from conventional farming to value-added production that includes organic farming; and engage farmers in business education that results in increased profits and greater success rates. We are a leader in the local food movement, working with communities and growers to develop local economies through farmer's markets and direct farm-to-consumer distribution. At the other end of the food system, we help people with great ideas start food businesses, and support testing to help food processors succeed. We are a critical resource for food safety information at all levels of Maine's food system. Finally, we work with families and young people to improve food-buying, and consuming habits to promote improved health.

Maine has the most diversified agricultural matrix in New England and is consistently its number one or two food producer. Maine has 8,100 farmsand 1.3 million acres of farmland currently in production. UMaine Extension provides research-based information that experienced farmers and new growers alike, can trust.

Extension faculty and programming professionals provide essential background information to policy makers, legislators and others as they decide issues regarding the regulation of pesticides, licensing food producers and processors, and how to stimulate the economy for the future.

Extension supports the business development portion of the Maine Food System as well. That support can be in the development of the new products, value added products or in perfecting the processing of food products for market.

A major concern for everyone is the safety of our food and food supply. UMaine Extension provides essential education and training to food producers to help ensure that our food is safe and healthy. This work is done in partnership with state and federal regulators.

The USDA estimates that 200,000 Mainers don't have enough to eat. UMaine Extension coordinates the Maine Harvest for Hunger Program. This volunteer effort has led to the growing of fresh vegetables and fruits that are donated to food cupboards, food pantries, and soup kitchens. In 2012 volunteers grew and donated over 209,000 pounds of produce - that's over 104 tons to help feed Maine people.

The University of Maine Cooperative Extension is helping Maine with rural and economic development. This work is based on the needs of our customers and focused on the Maine Food System. We are proud

to be at the forefront of this growing sector of the Maine economy. Building on a century of experience in supporting the food system with research based information from reliable experts that you can trust - the future of the Maine Food System looks great!

Researchers Discover Destructive Fruit Fly Now in Maine

University of Maine Cooperative Extension fruit and pest management specialists are researching an invasive Asian fruit fly called Spotted Wing Drosophila (Drosophila suzukii), a particularly destructive non-native fruit fly. We are working with counterparts across the state and country to collect and collaborate on the latest research, and working with regional colleagues to formulate a multi-state effort to keep crops safe from the invader. The Spotted Wing Drosophila fly poses a serious threat to Maine fruit growers' blueberry, strawberry, raspberry and other soft-skinned fruits, possibly even vegetables. The value of Maine's blueberry crop alone is about $69 million annually. The primary focus of our collaborative research is on controls with the intention to minimize pesticide use and mitigate the issue with the least environmental and economic impact possible.

4-H Youth Development in Maine

Last year more than 29,000 youth participated in the Maine 4-H program by attending 4-H camps, 4-H community clubs, and 4-H afterschool and school enrichment programs. More than 13,000 youth participated in hands on experiential learning related to science, engineering and technology by engaging in numerous projects such as robotics, animal science, plant science, and environmental science. 4-H science is a key focus area for the Maine 4-H program and work is being done to strengthen the University of Maine connections to support this critical outreach effort.

iOutreach

UMaineExtension priorities have always focused on meeting the needs of Maine's people on the community level by providing education to a diverse and geographically dispersed clientele. Today, consumers are connected to the world through social media sites and the Internet, and have mobile devices where they can access resources anywhere they happen to be. New technologies have changed the way our programs are delivered**and revolutionized our educational outreach.** Over the last two years we have created over 150 short, educational videos in a series called Experts on Demand. Videos are shared across the University of Maine website, embedded in social media platforms, and showcased to important stakeholders. In 2012 we prioritized a new technology-based position to provide organizational leadership and work directly with social media and video production.

Internet-based videos have exponentially increased the capacity for UMaine Extension to reach Maine consumers anywhere, anytime. Analytics show that our videos have been viewed nearly 800,000 times since 2010, with 49 percent of the views from Mainers. Data allow us to know the most viewed topics, and consequently become an important element in understanding trends and interests over a much greater population, increasing our capacity to meet those trends

There were 2.1 million hits to the Extension's website in 2012, and our online publications were viewed nearly 638,000 times. Because the online videos have been so popular, we are finding new ways to reach out to customers online, engaging them directly on the platforms where they find us. We can now have an "online conversation," and monitor questions and comments coming in directly from web and social media sites.

Total Actual Amount of professional FTEs/SYs for this State

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	89.1	0.0	0.0	0.0
Actual	115.6	0.0	0.0	0.0

II. Merit Review Process

1. The Merit Review Process that was Employed for this year

- Internal University Panel
- External University Panel
- External Non-University Panel
- Expert Peer Review

2. Brief Explanation

As part of an annual process, this year UMaine Extension faculty and programming professionals engaged a process to plan for and adjust programs in ways that meet the needs of Maine citizens. The process involves independent review within local advisory structures, and collaborative review within statewide programmatic teams. Further, many engaged in review by discipline-specific review panels and advisory groups that help to provide focus. While this results in defined programming intentions for the near future, the process is ongoing throughout the year and can result in new work to address emerging issues at any time.

Programming merit and success for faculty members is also reviewed by faculty peers through reappointment, promotion, and post-tenure processes established by the faculty and administration and codified in employment contracts. A unique process exists for non-faculty programming professionals who undergo annual reviews by supervisors, and peer reviews every 4 years.

The UMaine Extension is a member of the New England Planning and Reporting Consortium, a formalized partnership of Extension programs in Massachusetts, New Hampshire, Maine, and Vermont. Working in collaboration with three other states in developing and managing an online planning and reporting system results in ongoing discussions around state and regional priorities and programs, opportunities for multistate work, sharing staff resources, and a much better understanding of how each of our programs are unique from others in New England.

As a result, the four states provide periodic formal and informal merit review and feedback as a component of our partnership. Every faculty and programming professional has access to review the programming intentions and accomplishments of staff from other states. This capacity allows for collaborative planning and evaluation that can communicate the value of multistate accomplishments.

III. Stakeholder Input

1. Actions taken to seek stakeholder input that encouraged their participation

- Targeted invitation to traditional stakeholder groups
- Targeted invitation to non-traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of traditional stakeholder groups
- Survey of traditional stakeholder individuals
- Other (Research using relevant current and first-source data)

Brief explanation.

Past efforts to engage a cross-section of key stakeholders in formal reviews has met with limited success. We have learned from our constituents that high quality engagement takes place when the issue is current, and have therefore chosen to engage with stakeholders on an ongoing basis as needs and issues arise. Our matrix of County-based programs involves citizen and volunteer advisory group input as an inherent part of the work, and our statewide staff works closely with community, commodity, and professional stakeholders to guide their work. Selected examples include:

¨ Our partnership with County-based executive committees who provide direction and advice to each local Extension program in Maine and help to prioritize regional programming efforts.

¨ Quarterly interactions with the UMaine Board of Agriculture, a diverse stakeholder group grounded in state legislation, advises UMaine on agricultural research and Extension priorities.

¨ The Wild Blueberry Commission of Maine who represents the industry growers and processors, and who administers a state tax fund of over $1 million.

¨ The Maine Potato Board composed principally of Maine-based potato farmers who offer input and advice backed up with support for research through their education and research committees. The Board also administers a state tax fund. Potatoes are Maine's most valuable commodity with a 2011 farm gate value of $163 million.

¨ The Maine 4-H Foundation who works as a close partner to enrich youth experiences through our 4-H Youth Development Program.

¨ A variety of advisory boards and councils who are formed with targeted intent to guide the work of some of our important programs. Examples include the Senior Companion Advisory Board, the Maine Sea Grant Policy Advisory Committee, Tanglewood 4-H Camp and Learning Center Board, and the Maine Board of Pesticides Control.

¨ We also work in partnership with discipline specific groups whose mission is to help achieve success in a given area or for a given group. Examples include the Maine Organic Farmers and Gardeners Association and the Sportsman's Alliance of Maine.

2(A). A brief statement of the process that was used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Needs Assessments
- Use Surveys
- Other (Identify and analyze issues)

Brief explanation.

{NO DATA ENTERED}

2(B). A brief statement of the process that was used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them

1. Methods for collecting Stakeholder Input

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Meeting with the general public (open meeting advertised to all)
- Other (Meeting with State government and Agency leadership)

Brief explanation.

{NO DATA ENTERED}

3. A statement of how the input will be considered

- In the Budget Process
- To Identify Emerging Issues
- Redirect Extension Programs
- Redirect Research Programs
- To Set Priorities

Brief explanation.

An example: Current data suggests that mismanagement of personal finances is a factor in causing students to leave college before they have finished their degree studies. This understanding caused us to relocate a former County-based faculty member to an office on the University of Maine campus in order to work more closely with students. Simultaneously we worked with the County-based advisory board to prioritize local needs and fill the vacant position in a way that better addresses current issues.

Brief Explanation of what you learned from your Stakeholders

Through our partnership with the UMaine College of Natural Sciences, Forestry, and Agriculture and the Maine Agricultural and Forest Experiment Station, we represent the Maine Agricultural Center, which supports stakeholder-driven agricultural research and Extension education for Maine. Examples of recent projects include:

¨ Food Grade Astaxanthin From Lobster Shell Discards
¨ Food Safety Research And Bottling Guidance To Reduce Maple Syrup Contamination
¨ Safety Research To Support Maine Artisan Cheese Makers
¨ Spotted Wing Drosophila Field Survey, Real-Time Observations And Predictions For Grower Decision Support
¨ Identifying Profitable Vegetable And Small Fruit Varieties For Maine

IV. Expenditure Summary

1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS)			
Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
2296072	0	0	0

2. Totaled Actual dollars from Planned Programs Inputs				
	Extension		Research	
	Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
Actual Formula	1644099	0	0	0
Actual Matching	8355531	0	0	0
Actual All Other	4908073	0	0	0
Total Actual Expended	14907703	0	0	0

3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous				
Carryover	521974	0	0	0

V. Planned Program Table of Content

S. No.	PROGRAM NAME
1	Global Food Security and Hunger
2	Climate Change
3	Sustainable Energy
4	Childhood Obesity
5	Food Safety
6	Sustainable Community & Economic Development
7	Sustainable Youth, Families, and Communities
8	Administrative Plan of Work; Planning and Supervision

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%			
311	Animal Diseases	5%			
315	Animal Welfare/Well-Being and Protection	5%			
601	Economics of Agricultural Production and Farm Management	10%			
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: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	30.6	0.0	0.0	0.0
Actual Paid Professional	33.4	0.0	0.0	0.0
Actual Volunteer	679.0	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**
840927	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
3645703	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
1221170	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)
¨ State pesticide certification acquired (Direct; Club, Conference, Program, Consultation, Scholarship, or 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)
¨ Beef Producers (Adult)
¨ Blueberry Growers (Adult)
¨ Business Assist Organization Staff (Adult)
¨ Community Leaders (Adult)
¨ Cranberry Growers (Adult)
¨ Dairy Producers (Adult)

- Elders or Seniors (Adult)
- Extension - staff (Adult)
- Extension Staff (Adult)
- Families (Adult)
- Families (Youth)
- General Public (Adult)
- General Public (Youth)
- Home Gardeners (Adult)
- Home Gardeners (Youth)
- Master Gardener Volunteers (Adult)
- Ornamental Horticulture Industry (Adult)
- Parents (Adult)
- Pesticide Applicator Training Participants (Adult)
- Pesticide Applicators (Adult)
- Potato Growers (Adult)
- Sweet Corn Growers (Adults)
- Teachers (Adult)
- Vegetable Growers (Adult)
- Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	38665	2399250	6131	284

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

Patent Applications Submitted

Year: 2012

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	10178

Output #2

Output Measure

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

Year	Actual
2012	4148

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	Adopt sound business management practices
26	Increase profitability
27	Demonstrate leadership skills
28	Learn appropriate farming techniques
29	Research trials to increase yield in salmon farms

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

2012	209895

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

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
2012	346272

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

Outcome #3

1. Outcome Measures

Organizations/collaborators receiving donated food

Not Reporting on this Outcome Measure

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
2012	366

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 #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
2012	8218

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
The Maine Animal Health Lab: Maine, a very rural state, has a growing farm population, a commercial poultry industry, and too few livestock veterinarians. UMaine Extension?s Maine Animal Health Lab (UMAHL) offers diagnostic services to large- and small-scale producers when there is no local veterinarian or when the local vet does not have relevant expertise. We help poultry producers meet regulatory demands through testing, and diagnose animal health issues that may have profound negative economic consequences for an individual producer or an entire industry.

What has been done
Many of the more than 8,000 Maine farms raise poultry, and increasing numbers are producing eggs or meat birds for sale. Poultry and egg industries in Maine are worth over $75 million per year. Quick diagnosis of avian salmonella or flu is necessary to protect public health, and is required by law for major egg producers. Similarly, milk production in Maine is worth over $126 million, and the sheep industry is worth over $2.0 million, and each industry must meet regulatory testing requirements.

Results
Savings to the poultry industry in Maine is estimated at over $7 million per year through prevention of outbreaks as a result of the Maine Animal Health Lab?s salmonella regulatory testing services. Testing for mastitis in cattle has saved the dairy industry an estimated $10 million per year thanks to early detection and mitigation. Sheep producers have avoided approximately $400,000 per year in costs associated with infectious preventable diseases such as parasites, footrot, and caseous lymphadenitis. Providing quick diagnostic intervention has helped producers maintain healthy livestock and stay in business.

4. Associated Knowledge Areas

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

Outcome #6

1. Outcome Measures

Demonstrate application of life skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	67

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

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
2012	67

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
206	Basic Plant Biology
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 #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
2012	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
602	Business Management, Finance, and Taxation

Outcome #9

1. Outcome Measures

Demonstrate civic engagement

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	166

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

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
2012	50

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

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
2012	351

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
601	Economics of Agricultural Production and Farm Management

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
2012	308

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
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
2012	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Determining the Value of High Tunnel Technology to Improve Crops in the Northeast: In the Northeast the combination of a short growing season, predation, disease, and weather pose considerable challenges for growers. High tunnel technology offers farmers a new tool to manage crops through increased control of the growing environment. High tunnels have potential to extend the season, help control pests, improve crop quality, and increase the variety of crops that can be grown resulting in higher yield and profits for growers. Growers can benefit from understanding potential and challenges when using high tunnels.

What has been done
Over the past two years, UMaine Extension researchers have worked with 31 farmers using Maine-based high tunnels for production. Benchmark data was collected on construction, costs, management, cropping practices, and yield. Challenges were identified, and the benefits and detriments of high tunnels were compared with open field practices.

Results
This research identified five areas where education will benefit growers when adopting high tunnel technology: site selection and preparation, levels of composting, soil management, irrigation management, and planning for increased labor needs. The study also identified that the major contributor to success is the increased length of time products are available for harvest and sale compared with open field crops. For example, tomatoes were available for 74 days longer when grown in high tunnels compared to the field, including 35 days earlier in the summer when prices are at a premium. The harvest season for peppers was extended 61 days. Results are being disseminated to new and potential users of high tunnels and used in new outreach initiatives throughout the northeast.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems
206	Basic Plant Biology
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 #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
2012	16

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

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
2012	476

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
315	Animal Welfare/Well-Being and Protection
704	Nutrition and Hunger in the Population

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
2012	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
315	Animal Welfare/Well-Being and Protection

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
2012	1718

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Techniques to Reduce Fuel Consumption and Improve Fertility: With nearly 162,000 acres in production, growing corn silage is a major expense for dairy farmers in New England. Planting corn consumes time and fuel, and it occurs at a time when other crops need to be harvested for maximum quality. Because of the short growing season, corn is usually grown without cover cropping, which leads to increased use of pesticides, higher rates of erosion, and depleted soils. No-till cover cropping offers farmers an efficient alternative that reduces fuel and fertilizer costs and improves soil fertility.

What has been done
A four-year project to improve corn silage production and forage quality was conducted jointly with Extension researchers in Maine, Massachusetts, and Vermont. The research project, partially funded by USDA/SARE, worked with dairy producers to study timing and efficiency of corn planting with no-till practices, yields of shorter season corn varieties, the value of cover crops, and alternative manure management techniques.

Results
As a direct result of our research and corresponding outreach, 33 producers have adopted no-till and cover crop strategies on 3,947 acres. The no-till strategy saved producers an average of 5.7 gallons of fuel/acre equating to $23 per acre, and 2.75 hour/acre in labor, a net benefit of $194,196. Based on our information and techniques, an additional 9,473 acres of no-till corn was grown in Maine and Vermont in 2012 for a net benefit of approximately $478,000. Growers noted improved soil, better moisture retention, improved feed quality, and reduced fertility needs. Further, survey results and Natural Resource Conservation Service data indicated that acreage in cover crops increased from 9,701 acres in 2008 to 15,882 acres in 2012, at an average cost of $30 per acre. Project data indicated fall cover crops supply at least 30 pounds of nitrogen per acre to the succeeding crop. With nitrogen costs a nearly $1/pound, the cover crop expense is

covered by the nitrogen savings alone, without even considering benefits to soil and water quality.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems
601	Economics of Agricultural Production and Farm Management

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
2012	285

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
2012	27587

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Spotted Wing Drosophila (SWD): Maine's 60,000 acres of wild blueberries are inextricably tied to the state's identity. This $69 million crop, along with elderberries, raspberries, strawberries, grapes, and peaches, is under immediate threat by the SWD, an invasive pest that has spread quickly throughout the state since first being detected in 2011. The SWD lays its eggs in fruit prior to ripening and the larvae hatch and ruin the ripe fruit. All soft fruits are risk. So far, the only way to control the tiny flies is by frequent applications of pesticides, a very costly proposition for commercial growers.

What has been done
UMaine Extension and Experiment Station researchers have engaged in emergency efforts to track and map infiltration of the SWD in Maine. Detection trials are being conducted on a variety of crops using different baits in an effort to understand the biology, habits, and movement of the fly. Research results and mitigation recommendations are rapidly being communicated to growers.

Results
Ongoing efforts to understand and counteract the potential economic devastation represented by the Spotted Wing Drosophila encapsulates the research and Extension mission of the University of Maine. Field research that involves farmers and resulting information bulletins that report on the latest findings has helped initiate actions that have helped growers mitigate disaster thus far, while helping develop the next steps in our research and Extension agenda. During 2013 we will focus on improving trap attractants to refine our understanding of the extent of the invasion; evaluate the correlation between the date of first capture and the first insecticide application to protect the crop; evaluate organic and non-organic insecticide efficacy to control SWD; evaluate mass trapping as a means of non-insecticidal control; and further work with growers in applying best practices for control.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
216	Integrated Pest Management Systems

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
2012	350

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
A Multi-state Effort to Improve Support for Farmers Who Raise Poultry: With high demand for local foods, many Maine farmers have integrated poultry enterprises in their operations to address this market demand and increase farm income. Poultry enterprises require relatively little capitalization and complement many types of farms. When surveyed in 2008, 92 percent of Extension educators in New England felt that they were not effectively serving poultry producers and 81 percent wanted more knowledge and skills in poultry science.

What has been done
Starting in 2010 UMaine Extension provided a 3-year training course to Extension educators and other agricultural service providers in six New England states. Partially funded through a grant from USDA/SARE, our Applied Poultry Science trained agriculture professionals in the basics of poultry production, poultry health, and the business of poultry.

Results
Twenty-five Extension and agricultural service providers participated in the three-year project and are initially working with approximately 100 producers. The training has increased the capacity of farms to expand production, improve the quality of their eggs and meat, expand existing markets or develop new ones, improve bird health, develop a biosecurity plan, and cut costs to increase profits. It is estimated that the value of their assistance and advice for each grower with whom they interacted was at least $5,000 in extra annual income or savings. The ongoing value of this

work will ultimately reach many of the approximately 6,400 New England farms that raise poultry.

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 #22

1. Outcome Measures

People donating food

Not Reporting on this Outcome Measure

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
2012	538

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
2012	239

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Maine-grown Organic Bread Wheat, Facilitating a New Market: As a result of an exploding demand for organic bread by Maine consumers, locally grown bread-quality wheat is a significant new economic opportunity for northern New England farmers. There is a need for research-based understanding of how to grow wheat that meets the quality standards of the high-value organic bread flour market.

What has been done
UMaine Extension is leading a multi-state project to produce high-quality organic bread wheat that produces viable yields in climate zones of the Northeast. Our researchers are working with farmers, millers, and bakers to study key production issues, create tools to assess profitability and risk, produce a region-specific guide, and provide peer-learning opportunities. Our outreach efforts include interactions with experienced organic bread wheat producers in Canada and Denmark.

Results
This project is building the capacity to create a strong, local, organic food grain economy by developing research-based information and local expertise in organic production and by fostering a vibrant network of New England-based producers and food entrepreneurs. Since 2008, farmers in Maine and Vermont have increased production of organic wheat from 300 acres to just under 1,700 acres in 2012, and they are well-positioned to meet further increases in demand. In a recent survey, 80 percent of these farmers reported that they have made new market contacts. Seventy percent have changed at least one production or marketing practice which has helped them expand markets, improve product quality, increase sales, increase yields, or reduce production costs. Producers estimated the economic value of these changes to be over $10,000

per year on 10 acres or more of grain. Participants in the peer-learning trip to Denmark estimated they will gain in sum more than $400,000 from putting knowledge gained to work in New England.

4. Associated Knowledge Areas

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

Outcome #25

1. Outcome Measures

Adopt sound business management practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	950

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 #26

1. Outcome Measures

Increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	483

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 #27

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
2012	255

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

Outcome #28

1. Outcome Measures

Learn appropriate farming techniques

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	75

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Learning to be a Farmer in Maine & New Resources for Beginning Farmers: The U.S. Secretary of Agriculture has set a goal of recruiting 100,000 new farmers across the country to replace those who are aging and may retire soon. Despite the complexity of transferring farm ownership and high capital costs for new farming operation, market trends are encouraging. Increased demand for local foods from consumers, food service businesses, and institutions is expanding the potential for success. New farmers are starting smaller, more intensively managed farms. However to succeed over the long term, new farmers need comprehensive business and agricultural education, high quality mentoring, and positive support networks.

What has been done
UMaine Extension worked with farm service providers from state agencies to develop a new farmer training workshop series that addresses a wide range of business and farm management topics. Co-sponsored by the Androscoggin Valley Soil and Water Conservation District, the Natural Resource Conservation Service, and the Maine Department of Agriculture, the series was offered during 2012 and attended by 75 new and beginning farmers from southern and central Maine. Also, based on the expressed value of networking during the series we created an online Beginning Farmer Resource Network of Maine to offer further support over the long term to new farmers that will lead to their long-term farming success.

Results
Our curriculum successfully taught key knowledge and skills that will assist new farmers in being successful. Our evaluations show that 88 percent of participants reported a high level of satisfaction with the depth and breadth of information presented, and its potential for helping them succeed as new farmers in Maine. Further, informal interactions with participants since the series have documented positive impacts on individual farms, such as expanded operations and incomes streams that have allowed for a proportionate expansion of farm labor ? in a short time our new farmers are not just making a living, but they are becoming job creators! Our training model is being exported to other regional Extension offices, increasing our capacity to reach new farmers and improve their ability to successfully manage new farm enterprises.

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 #29

1. Outcome Measures

Research trials to increase yield in salmon farms

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Research Trials To Benefit the Aquaculture Industry: As they grow, salmon convert from a freshwater environment to saltwater, a process called smolting. This is a relatively individual process, so in pens of commercially produced salmon, don?t smolt at the same time. The result is that the salmonid industry ends up with very unevenly sized fish going into the next phase of production. The size disparity has a negative impact on aquacultural production and harvesting.

What has been done
Working with a Maine-based biotech company, UMaine Extension conducted research trials for a new dietary supplement to determine its effectiveness to even out the timing of the smolting process and increase growth for aquaculture-raised salmon. The trials were necessary to bring the product to market.

Results
The trials were successful and the product has been introduced to the international market. Using the supplement can benefit the whole industry, allowing an increase of production between 5 and 10 percent ($3 to $ million per year in Maine alone) giving aquaculturalists another tool to increase yield and make their industry more profitable. As well, the collaborating Maine biotech company realized a first-year profit of approximately $150,000 due to this trial, a profit that has been used to expand jobs.

4. Associated Knowledge Areas

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

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

Evaluation initiatives measured behavioral changes that contribute to sustainable community and economic development in Maine. Methods included:
Post activity assessments
Online survey
Observations

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Climate Change

☑ 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
101	Appraisal of Soil Resources	5%			
112	Watershed Protection and Management	10%			
123	Management and Sustainability of Forest Resources	15%			
125	Agroforestry	10%			
132	Weather and Climate	45%			
403	Waste Disposal, Recycling, and Reuse	10%			
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	5%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	5.7	0.0	0.0	0.0
Actual Paid Professional	5.3	0.0	0.0	0.0
Actual Volunteer	190.0	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**
26160	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
185930	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
237933	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

¨ General activities in support of Climate Change (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ General activities in support of Climate Change (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Marine Resources Management Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Marine Resources Management Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Water Quality Resource Management Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Water Quality Resource Management Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

2. Brief description of the target audience

¨ 4-H Volunteers (Adult)
¨ Agricultural Producers (Adult)
¨ Commercial Aquaculturalists (Adult)
¨ Community Leaders (Adult)
¨ Extension - staff (Adult)
¨ Extension Staff (Adult)
¨ Families (Adult)
¨ Families (Youth)
¨ General Public (Adult)
¨ General Public (Youth)
¨ Home Gardeners (Adult)
¨ Master Gardener Volunteers (Adult)
¨ Ornamental Horticulture Industry (Adult)
¨ Parents (Adult)
¨ Small or Home-Based Business Owners - Current (Adult)
¨ Teachers (Adult)
¨ Volunteers (Adult)
¨ Watershed Stewards (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	2165	10396	238	0

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

Patent Applications Submitted

Year: 2012

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	452

Output #2

Output Measure

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

Year	Actual

2012	107

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Reduce carbon-based energy consumption
2	Manage natural resources to promote land, water and air quality
3	Reduce carbon footprint
4	Form/join networks for citizen action and education
5	Demonstrate application of leadership skills
6	Demonstrate civic engagement
7	Adopt sustainable living practices
8	Assess current and projected impacts of climate change and adopt effective strategies to respond to and mitigate such change
9	Assess community vulnerabilities, needs, and assets
10	Adopt effective community strategies and solutions

Outcome #1

1. Outcome Measures

Reduce carbon-based energy consumption

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Manage natural resources to promote land, water and air quality

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	94

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
101	Appraisal of Soil Resources
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
125	Agroforestry
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #3

1. Outcome Measures

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	50

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #4

1. Outcome Measures

Form/join 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
2012	4206

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #5

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

2012 21

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #6

1. Outcome Measures

Demonstrate civic engagement

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Adopt sustainable living practices

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Assess 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
2012	180

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
132	Weather and Climate

Outcome #9

1. Outcome Measures

Assess community vulnerabilities, needs, and assets

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	150

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Infrastructure Planning for Major Weather Events: The current cycle of major weather events has caused millions in damage to coastal Maine communities from erosion, and flooding. Much of the damage is due to an aging and undersized infrastructure that includes thousands of inadequately

mapped culverts that are under a complex mix of local, State, and Federal jurisdiction. Preparing for more intense weather by planning and budgeting will save millions of dollars, particularly in coastal communities where the potential for flooding is greatest.

What has been done
A team of UMaine Extension, Maine Sea Grant, and UMaine Department of Civil and Environmental Engineering researchers is using historical data from rain gauges and computer mapping software to better understand how the timing and extent of extreme rainfall events has changed over time. This information has implications for the design and maintenance of storm-water infrastructure and its long-term management. The team is also creating a network in which local governments and state agencies can best communicate with each other about projects involving stormwater management.

Results
Our data model has been made available to more than 48 coastal Maine communities who are at various stages of application in an effort to identify and address culvert infrastructure and jurisdiction issues before a crisis is at hand, making communities less vulnerable to future vagaries of a warming climate. Application of this research is increasing the safety of citizens, homes, businesses, and infrastructure and has the potential to save untold millions of dollars as a result of future major weather events.

4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
132	Weather and Climate
403	Waste Disposal, Recycling, and Reuse

Outcome #10

1. Outcome Measures

Adopt effective community strategies and solutions

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	38

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Coastal Hazards Guide: As climate scientists have predicted, storms are becoming more intense and occurring more frequently, and coastal Maine is particularly vulnerable because of sea level rise and storm surges. These storms have the potential to wreak economic disaster for individual landowners, businesses, and municipalities. Research conducted by UMaine Extension and Maine Sea Grant indicates that stakeholders at both the individual property owner level and at the municipal level want to take action in anticipation of these impacts, but lack support, information, and resources to move forward on these intentions.

What has been done
UMaine Extension and Maine Sea Grant along with the Maine Geological Survey launched an online guide, A Property Owner?s Guide to Managing Flooding, Erosion, and Other Coastal Hazards [http://www.seagrant.umaine.edu/coastal-hazards-guide]. The site is designed to help property owners assess their options and become educated consumers of the professional services they will need to take action. The guide has been integrated into statewide trainings for code enforcement officers. Our staff is training municipal officials and town planners in coastal areas.

Results
As the site was developed, it generated discussions among a range of stakeholders on best practices resulting in partnerships among service providers and the evolution of the statewide Climate Change Adaptation Providers Network. With a coordinated network, service providers have expanded their reach to a broader audience in a larger geographic area, work more efficiently and effectively with communities, and have reduced duplication of effort. Introducing the guide to coastal business owners and training municipal staff has allowed property owners to increase their understanding of the options available to them and the professional services from which they can choose. Towns have the information they need and are making informed choices in the face of increasing coastal hazards.

4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
132	Weather and Climate
403	Waste Disposal, Recycling, and Reuse

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Evaluation initiatives measured behavioral changes that contribute to a healthy climate and environment in Maine. Methods included:

- Pre and post activity assessments
- Surveys
- Interviews
- Case Studies
- Observations

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Sustainable Energy

☑ 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
111	Conservation and Efficient Use of Water	8%			
112	Watershed Protection and Management	9%			
123	Management and Sustainability of Forest Resources	15%			
125	Agroforestry	14%			
133	Pollution Prevention and Mitigation	8%			
136	Conservation of Biological Diversity	5%			
402	Engineering Systems and Equipment	9%			
403	Waste Disposal, Recycling, and Reuse	9%			
404	Instrumentation and Control Systems	4%			
605	Natural Resource and Environmental Economics	11%			
608	Community Resource Planning and Development	8%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	1.5	0.0	0.0	0.0
Actual Paid Professional	0.4	0.0	0.0	0.0
Actual Volunteer	54.0	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**
12950	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
47668	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
5292	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

¨ Farm Energy Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Farm Energy Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ General Sustainable Energy Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ General Sustainable Energy Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Home Energy Conservation (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Home Energy Conservation (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

2. Brief description of the target audience

¨ Agricultural Producers (Adult)
¨ General Public (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	689	542	0	0

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

Patent Applications Submitted

Year:	2012
Actual:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	44

Output #2

Output Measure

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

Year	Actual
2012	13

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Obtain an energy audit or conduct a self audit
2	Implement techniques to reduce energy consumption
3	Evaluate alternative sources of energy and act
4	Convert to non-fossil-based energy fuels
5	Decide not to convert to/install an inefficient new source of energy (example: installing a wind turbine in a poor location)
6	Research and evaluate novel energy production methods, and act accordingly
7	Make a decision to install or not install a novel energy production method
8	Reduce carbon footprint
9	Adopt sustainable living practices
10	Adopt appropriate strategies based on research-based information
11	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability

Outcome #1

1. Outcome Measures

Obtain an energy audit or conduct a self audit

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	50

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
403	Waste Disposal, Recycling, and Reuse

Outcome #2

1. Outcome Measures

Implement techniques to reduce energy consumption

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	15

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
133	Pollution Prevention and Mitigation
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics

Outcome #3

1. Outcome Measures

Evaluate alternative sources of energy and act

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	150

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Tidal Energy: Many of the roughly 7,000 residents in the nine towns around Cobscook Bay in Washington County, Maine rely on the bay to make a living. As traditional enterprises have declined, new ideas?all promising economic prosperity?have come along. New development projects within an environment as complex as Cobscook Bay requires abundant local knowledge, input, and buy-in as well as broad and extensive scientific expertise.

What has been done
A $10 million matching grant from Department of Energy to Ocean Renewable Power Company (ORPC) funded the first developmental phase of the Cobscook Bay Tidal Energy Project. Through our locally based staff, UMaine Extension and Maine Sea Grant played a vital role in the permitting process by connecting the developer to scientific expertise within UMaine and the state, and with local fisheries and technicians to understand the impacts of in-stream tidal generation on marine life and complete required environmental studies. We also facilitated a transparent community process that helped all stakeholders understand the social, economic, and environmental impacts of the project.

Results
In September 2012, ORPC's Cobscook Bay Tidal Energy Project marked the first time that power from any ocean energy project, including offshore wind, wave and tidal, was delivered to the grid in the United States. During the development, construction, and installation period of the overall project, 2011 ? 2016, forecasters predict 125 full-time equivalent jobs in Maine which will generate $8.1 million in earnings, with a multiplier effect of $22 million in local spending. During the operating period, predictions are for 19 new full-time equivalent jobs annually, translating to $700,000 in annual earnings, with a multiplier effect of $1.1 million in local spending.

4. Associated Knowledge Areas

KA Code	Knowledge Area
402	Engineering Systems and Equipment
608	Community Resource Planning and Development

Outcome #4

1. Outcome Measures

Convert to non-fossil-based energy fuels

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual

2012	140

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics

Outcome #5

1. Outcome Measures

Decide not to convert to/install an inefficient new source of energy (example: installing a wind turbine in a poor location)

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Research and evaluate novel energy production methods, and act accordingly

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	143

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
402	Engineering Systems and Equipment

Outcome #7

1. Outcome Measures

Make a decision to install or not install a novel energy production method

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	157

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
402	Engineering Systems and Equipment

Outcome #8

1. Outcome Measures

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	166

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
123	Management and Sustainability of Forest Resources
125	Agroforestry
133	Pollution Prevention and Mitigation
136	Conservation of Biological Diversity
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics

Outcome #9

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
2012	351

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
123	Management and Sustainability of Forest Resources
133	Pollution Prevention and Mitigation
136	Conservation of Biological Diversity
403	Waste Disposal, Recycling, and Reuse
608	Community Resource Planning and Development

Outcome #10

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
2012	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
125	Agroforestry
133	Pollution Prevention and Mitigation
136	Conservation of Biological Diversity
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #11

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
2012	1718

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
125	Agroforestry
133	Pollution Prevention and Mitigation
136	Conservation of Biological Diversity
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

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 Programmatic Challenges
- Other (Climate Change)

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Evaluation initiatives measured behavioral changes related to energy practices that contribute to sustainability. Methods included:

- Interviews
- Case Studies
- Observations

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Childhood Obesity

☑ 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
703	Nutrition Education and Behavior	35%			
704	Nutrition and Hunger in the Population	15%			
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	10%			
724	Healthy Lifestyle	10%			
802	Human Development and Family Well-Being	22%			
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	8%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	5.4	0.0	0.0	0.0
Actual Paid Professional	38.7	0.0	0.0	0.0
Actual Volunteer	2269.0	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**
84585	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
651799	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
1856317	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

¨ Eat Well (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Eat Well (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ General Activities to address Childhood Obesity (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ General activities to address Childhood Obesity (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Nutrition Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

2. Brief description of the target audience

¨ 4-H Youth (Youth)
¨ Community Leaders (Adult)
¨ Eat Well Participants (Adult)
¨ Eat Well Participants (Youth)
¨ EFNEP Participants (Adult)
¨ Elders or Seniors (Ault)
¨ Extension - staff (Adult)
¨ Extension Staff (Adult)
¨ Families (Adult)
¨ Families (Youth)
¨ Food Stamp Recipients (Adult)
¨ General Public (Adult)
¨ General Public (Youth)
¨ Teachers (Adult)
¨ Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	20323	10944	31691	2948

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

Patent Applications Submitted

Year: 2012

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	24358

Output #2

Output Measure

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

Year	Actual
2012	77

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Adopt healthy dietary practices (consume nutrient-rich foods, follow current Dietary Guidelines for Americans or DASH, etc)
2	Integrate regular physical activity into daily life
3	Engage positively in their community
4	Demonstrate application of leadership skills
5	Increase consumption of healthful, locally-grown and -produced food (farm to school program, food preservation, etc.)
6	Reduce consumption of highly processed foods (fast foods, convenience foods, etc.)
7	Demonstrate application of subject matter knowledge

Outcome #1

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
2012	32083

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Low-Income Nutrition Education Programs: In fiscal year 2012, The UMaine Extension administered both the federal Expanded Food and Nutrition Education Program (EFNEP) and Supplemental Nutrition Assistance Program-Education (SNAP-Ed) through the state as the Eat Well Nutrition Education Program. The contradiction between highs rate of obesity and food insecurity in Maine demonstrates that poor food choice and lack of nutrient rich food availability have a significant impact on our population.

What has been done
To respond to Maine?s need to improve food security while improving health through better diet quality and increasing physical activity, our Eat Well program provided direct education to Maine?s most vulnerable populations; low-income youth, individuals, and families. Interactive education is delivered using research-based info on a variety of nutrition topics in homes, community groups, schools, or by mail. This yea we provided one-time direct nutrition education to 7,605 adults, and consecutive nutrition education to 2,122 adults and 18,631 youth.

Results
Of the 2,122 adults who participated in consecutive nutrition education, 1,249 completed and graduated from the Eat Well Program. As a result graduates demonstrated improved eating habits and food security after participating in the program:
-56 percent make healthier choices when deciding what to feed their family.
-44 percent now prepare food without adding salt.
-63 percent now use the food labels to make healthier food choices.
-64 percent now plan their meals in advance.
-51 percent now compare prices when shopping for food.
-37 percent no longer ran out of food at the end of the month.
In addition to the above behavior change, Eat Well graduates lowered mean sodium intake by

and average of 335 milligrams, and lowered average calorie intake by 225 calories at time of graduation. If that calorie reduction is sustained for one year, it could result in a 23-pound weight loss for that individual.

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population
724	Healthy Lifestyle
802	Human Development and Family Well-Being

Outcome #2

1. Outcome Measures

Integrate regular physical activity into daily life

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	8865

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population
724	Healthy Lifestyle
802	Human Development and Family Well-Being

803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #3

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
2012	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
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #4

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
2012	158

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #5

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
2012	200

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Short- and Long-term Efforts to Alleviate Hunger: Maine is the most food insecure state in New England. One in five children under the age of 16 live in homes where they?re not sure where their next meal is coming from. Forty three percent of people defined as food insecure do not qualify for food stamps or other government programs, and need help. Food insecurity is a problem that?s hard to understand in a rural state like Maine, where there is a tradition of farming and subsistence gardening. In the past, Maine produced all of the food it needed?today, Maine imports more food than any other state in the lower forty-eight.

What has been done
UMaine Extension?s Harvest for Hunger program provides high quality fruits and vegetables to hungry people in Maine. For the past 10 years, hundreds of volunteers in every County in Maine have grown food in community gardens, school gardens, home gardens, and commercial farms to donate to local food pantries, shelters, soup kitchens, and senior programs. Food recipients are encouraged to actively participate by learning from the program?they receive recipes, cooking, and gardening tips and learn about a healthy diet.

Results
When a problem is visible, it can be addressed. Growing, harvesting, and donating food empowers people to make a difference, a first step in understanding the many facets of hunger. This year school children, employees of businesses, community members, and Master Gardeners volunteered more than 830 hours to grow, glean and donate more than 209,000 pounds of quality food for those in need, and in an effort to stem the tide of need, helped the recipients learn about gardening, cooking and preserving. A survey sample of 61 recipients at one distribution point found that:
-88 percent have incorporated other healthy foods into their diet
-82 percent make more homemade meals
-95 percent eat a wider variety of fruits and vegetables
-92 percent eat more fruits and vegetables
-49 percent canned or froze surplus fruits and vegetables
-77 percent feel that their overall health has improved

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population

Outcome #6

1. Outcome Measures

Reduce consumption of highly processed foods (fast foods, convenience foods, etc.)

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	19915

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

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

2012 4553

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Evaluation initiatives measured behavioral changes related to improved nutrition and increased physical activity that contribute to decrease incidence of overweight and obesity in children and adults in Maine. Methods included:

- Pre and post activity assessments
- Surveys
- Observations
- Case Studies

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Food Safety

☑ 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
501	New and Improved Food Processing Technologies	30%			
502	New and Improved Food Products	30%			
504	Home and Commercial Food Service	30%			
512	Quality Maintenance in Storing and Marketing Non-Food Products	10%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	5.3	0.0	0.0	0.0
Actual Paid Professional	2.1	0.0	0.0	0.0
Actual Volunteer	72.0	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**
34029	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
306227	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
50903	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

¨ Food Preservation (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Food Preservation (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Food Safety (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Food Safety (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ General Food Safety Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ General Food Safety Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Specialty Food Products (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Specialty Food Products (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

2. Brief description of the target audience

¨ Agricultural Producers (Adult)
¨ Extension Staff (Adult)
¨ General Public (Adult)
¨ Master Gardener Volunteers (Adult)
¨ Senior Companion Program Volunteers (Adult)
¨ Small or Home-Based Business Owners - Current (Adult)
¨ Teachers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	2631	94205	0	0

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

Patent Applications Submitted

Year: 2012
Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	177

Output #2

Output Measure

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

Year	Actual
2012	93059

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Apply knowledge of risks to food safety
2	Adopt food safety practices
3	Adopt specific food safety plans and/or policies (HACCP, GAP, SOP, SSOP, IPM, etc)
4	Train, support and mentor others in leadership roles
5	Engage positively in their community
6	Increase career aspirations & goal setting
7	Adopt appropriate strategies based on research-based information
8	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability
9	Increase profitability

Outcome #1

1. Outcome Measures

Apply knowledge of risks to food safety

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	256

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service
512	Quality Maintenance in Storing and Marketing Non-Food Products

Outcome #2

1. Outcome Measures

Adopt food safety practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	122

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service
512	Quality Maintenance in Storing and Marketing Non-Food Products

Outcome #3

1. Outcome Measures

Adopt specific food safety plans and/or policies (HACCP, GAP, SOP, SSOP, IPM, etc)

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	250

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Food Safety Education for Families and Commercial Food Producers: Each year 48 million people in the United States become ill from eating adulterated food. Safe food is essential to avoiding illness and staying healthy. In Maine, food safety risks exist from home food preparation and preservation, people serving crowds, and in retail and commercial food sales. All of these groups prepare or process food for others but many of these potential food preparers do not have proper food safety training, leading to an increase occurrence of foodborne illness.

What has been done
UMaine Extension provides food safety training programs that include but are not limited to food preservation, cooking for crowds, general food safety for the home, industry food sanitation, good agricultural practices, and Hazard Analysis Critical Control Points (HACCP) certification for meat, poultry, and seafood. We provide private one-on-one food safety consulting and process authority food product reviews to individuals and companies across the state. These types of programs directly reached and trained over 10,000 people in Maine during the past year.

Results
We estimate that more than 50,000 consumers of home prepared and preserved food, and those attending public and community events have a reduced potential to contract foodborne illness due to our trainings. Further, more than 500,000 state, national, and international consumers of food produced by New England-based retail and commercial food businesses have a reduced potential to contract foodborne illness. Our food process authority lab reviewed over 500 products leading to added income and jobs across Maine and New Hampshire, which could not have been accomplish without the assistance of UMaine Extension. In almost all cases one-on-one food safety consulting lead to increased revenue, retention of jobs and/or increased hiring. Examples of this can be seen in two separate startup companies that hired a combine 92 employees and generated revenue due to the assistance and guidance provided. These results are decreasing the occurrences of foodborne illness and increasing overall health in Maine and wherever Maine foods are sold and consumed.

4. Associated Knowledge Areas

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service
512	Quality Maintenance in Storing and Marketing Non-Food Products

Outcome #4

1. Outcome Measures

Train, support and mentor others in leadership roles

Not Reporting on this Outcome Measure

Outcome #5

1. **Outcome Measures**

Engage positively in their community

Not Reporting on this Outcome Measure

Outcome #6

1. **Outcome Measures**

Increase career aspirations & goal setting

Not Reporting on this Outcome Measure

Outcome #7

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
2012	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area

501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service
512	Quality Maintenance in Storing and Marketing Non-Food Products

Outcome #8

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
2012	1718

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service
512	Quality Maintenance in Storing and Marketing Non-Food Products

Outcome #9

1. Outcome Measures

Increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	483

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service
512	Quality Maintenance in Storing and Marketing Non-Food Products

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Competing Programmatic Challenges

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Evaluation initiatives measured behavioral changes that contribute to safefood preparation, serving, and preservationpractices, for private individuals, groups, and for commercial applicationsin Maine. Methods included:

- Pre and post activity assessments
- Surveys
- Observations
- Case Studies

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Sustainable Community & Economic Development

☑ 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
602	Business Management, Finance, and Taxation	25%			
604	Marketing and Distribution Practices	20%			
607	Consumer Economics	15%			
608	Community Resource Planning and Development	15%			
801	Individual and Family Resource Management	20%			
805	Community Institutions, Health, and Social Services	5%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	11.5	0.0	0.0	0.0
Actual Paid Professional	6.4	0.0	0.0	0.0
Actual Volunteer	33.0	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**
176071	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
955548	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
97293	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

¨ Create Connecting Kids to e-Commerce Curriculum
¨ General activities in support of Sustainable Community and Economic Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ General activities in support of Sustainable Community and Economic Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Personal and Family Resource Management Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Personal and Family Resource Management Education (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Resource Development and Management for Sustainable Communities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Resource Development and Management for Sustainable Communities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Small and Home Based Business Management Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Small and Home Based Business Management Education (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Tourism Economic Development Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

2. Brief description of the target audience

¨ 4-H Youth (Youth)
¨ Agricultural Producers (Adult)
¨ Business Assist Organization Staff (Adult)
¨ Community Leaders (Adult)
¨ Extension - staff (Adult)
¨ Extension Staff (Adult)
¨ Families (Adult)
¨ General Public (Adult)
¨ General Public (Youth)
¨ Maple Producers (Adult)
¨ Small or Home-Based Business Owners - Current (Adult)
¨ Small or Home-Based Business Owners - Potential (Adult)

¨ Teachers (Adult)
¨ Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	4432	1931	90	0

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

Patent Applications Submitted

Year: 2012
Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	556

Output #2

Output Measure

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

Year	Actual
2012	102

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Adopt sound business management practices
2	Increase profitability
3	Create jobs
4	Increase career aspirations and goal setting
5	Assess community needs and assets
6	Adopt effective community strategies
7	Mobilize community capacities, assets or resources
8	Demonstrate application of leadership skills
9	Assess current and projected impacts of climate change and adopt effective strategies to respond to and mitigate such change
10	Develop and assess a financial plan for managing household resources
11	Adopt a sustainable household budget
12	Make informed financial decisions
13	Model positive financial management behaviors to others
14	Engage positively in their community
15	Train, support and mentor others in leadership roles
16	Demonstrate leadership skills
17	Demonstrate application of life skills

18	Contribute to the viability of the Maine economy

Outcome #1

1. Outcome Measures

Adopt sound business management practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	950

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #2

1. Outcome Measures

Increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	483

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Pricing for Profit: There are nearly 134,000 micro-businesses operating in Maine. Micro-businesses, defined as those employing fewer than five employees, generate over $7.8 billion to Maine?s economy each year and are responsible for 172,000 jobs. Well-managed businesses are much more likely to succeed over the long term, and pricing structure is a critical element of good management. Business owners need help to understand how to develop a profitable pricing strategy.

What has been done
UMaine Extension delivers workshops across Maine on how to price for profit and why it?s important, with a focus on micro-businesses in all sectors. This year approximately sixty entrepreneurs representing the agriculture, technology, arts, and education business sectors attended. Participants learned key elements of pricing, pricing models, price elasticity of demand, and cost analysis.

Results
Evaluations show that participants learned how to determine a profitable price for their products and services using specific methods and market information. All indicated that they plan to adopt the new pricing techniques and several indicated that they had already revised their pricing strategies and increased their profitability. Data collected from evaluations of our business management workshops over the past 23 years show that the majority of participants do put their intentions into action.
Assuming that these sixty participants were to implement a more effective pricing strategy that resulted in a minimum of five percent improvement in profitability, it would equate to more than $120,000 in increased profits.

4. Associated Knowledge Areas

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

Outcome #3

1. Outcome Measures

Create jobs

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	46

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #4

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
2012	82

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management
805	Community Institutions, Health, and Social Services

Outcome #5

1. Outcome Measures

Assess community needs and assets

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	301

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

Outcome #6

1. Outcome Measures

Adopt effective community strategies

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	301

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

Outcome #7

1. Outcome Measures

Mobilize community capacities, assets or resources

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	373

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

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
2012	3381

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
608	Community Resource Planning and Development
801	Individual and Family Resource Management
805	Community Institutions, Health, and Social Services

Outcome #9

1. Outcome Measures

Assess 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
2012	74

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
607	Consumer Economics
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

Outcome #10

1. Outcome Measures

Develop and assess a financial plan for managing household resources

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	275

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
607	Consumer Economics
801	Individual and Family Resource Management

Outcome #11

1. Outcome Measures

Adopt a sustainable household budget

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	275

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
607	Consumer Economics
801	Individual and Family Resource Management

Outcome #12

1. Outcome Measures

Make informed financial decisions

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	62

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
607	Consumer Economics
801	Individual and Family Resource Management

Outcome #13

1. Outcome Measures

Model positive financial management behaviors to others

Not Reporting on this Outcome Measure

Outcome #14

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
2012	390

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
604	Marketing and Distribution Practices
607	Consumer Economics
608	Community Resource Planning and Development
801	Individual and Family Resource Management
805	Community Institutions, Health, and Social Services

Outcome #15

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
2012	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
602	Business Management, Finance, and Taxation
608	Community Resource Planning and Development
801	Individual and Family Resource Management
805	Community Institutions, Health, and Social Services

Outcome #16

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
2012	255

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

Outcome #17

1. Outcome Measures

Demonstrate application of life skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	67

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
801	Individual and Family Resource Management
805	Community Institutions, Health, and Social Services

Outcome #18

1. Outcome Measures

Contribute to the viability of the Maine economy

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Healthy Moose and the Maine Economy: The iconic Maine moose is an important economic resource in Maine that helps drive the tourism and hunting industries. Few studies of infectious disease in moose have been conducted, even though losses occur annually. Nearby states have seen declines in moose populations recently, thought to be associated with disease.

What has been done
Since 2010, UMaine Extension has worked with the Maine Department of Inland Fish and Wildlife (IFW) to help diagnose the causes of premature death in Maine moose. To further improve cross-border information sharing, UMaine Extension has joined a new wildlife disease diagnostic network with Tufts University, the University of New Hampshire, the University of Connecticut, and Cornell University.

Results
Wildlife watching and hunting in Maine are estimated to generate $1.8 billion annually, and moose play an important part in both. Saving even 10 percent of the moose population by diagnosing and preventing internal parasites helps maintain the value of the tourism and hunting industry in Maine. Through necropsies our animal health lab discovered large numbers of lungworms, initiating a research project of lungworm morphology and associated DNA. We identified specific practices to help reduce the risk of lungworms and have worked with both the IFW and the Maine Center for Disease Control to help inform the public about health concerns when in close contact with wildlife. Results were presented at a regional meeting of moose biologists, and a national conference.

4. Associated Knowledge Areas

KA Code	Knowledge Area
607	Consumer Economics

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Evaluation initiatives measured behavioral changes that contribute to sustainable community and economic development in Maine. Methods included:

- Pre-, post- and retrospective activity assessments
- Surveys
- Observations
- Case Studies

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 7

1. Name of the Planned Program

Sustainable Youth, Families, and Communities

☑ 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
608	Community Resource Planning and Development	15%			
724	Healthy Lifestyle	60%			
802	Human Development and Family Well-Being	20%			
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	5%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	30.5	0.0	0.0	0.0
Actual Paid Professional	29.2	0.0	0.0	0.0
Actual Volunteer	1775.0	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**
329563	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
1990868	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
1315566	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

¨ Community Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Connecting 4-H Youth to Senior Companions
¨ General Activities-Sustainable Youth, Family and Community Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ General Activities-Sustainable Youth, Family and Community Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Human Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Human Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
¨ Parenting Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
¨ Senior Companion Program (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 Workers (Adult)
¨ Business Assist Organization Staff (Adult)
¨ Community Leaders (Adult)
¨ CountyExecutiveCommittee Members (Adult)
¨ Eat Well Participants (Youth)
¨ EFNEP Participants (Youth)
¨ Extension - staff (Adult)
¨ Extension Staff (Adult)
¨ Families (Adult)
¨ General Public (Adult)
¨ General Public (Youth)
¨ Home Gardeners (Adult)
¨ Parent Educators (Adult)
¨ Parents (Adult)
¨ Senior Companion Program Volunteers (Adult)
¨ Teachers (Adult)
¨ Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	3834	3145	18604	1057

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

Patent Applications Submitted

Year: 2012

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	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
2012	9758

Output #2

Output Measure

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

Year	Actual
2012	528

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Increase life skills (healthy relationships, decision making, problem solving, parenting, lifespan development, communication, etc
2	Demonstrate application of subject matter knowledge
3	Increase career aspirations & goal setting
4	Reduce carbon footprint
5	Reduce waste
6	Adopt sustainable living practices
7	Engage positively in their community
8	Train, support and mentor others in leadership roles
9	Demonstrate application of leadership skills
10	Demonstrate civic engagement
11	Assess community needs and assets
12	Strengthen community capacities, human capital, building partnerships
13	Adopt effective community strategies
14	Adopt food safety practices
15	Apply knowledge of risks to food safety
16	Integrate regular physical activity into daily life
17	Demonstrate application of life skills

Outcome #1

1. Outcome Measures

Increase life skills (healthy relationships, decision making, problem solving, parenting, lifespan development, communication, etc

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	12980

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #2

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
2012	4553

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Hunting has a long tradition in Maine and many homes contain firearms. Children are naturally curious, especially about guns, and cannot tell the difference between a toy and a real weapon until around age eight. According to the National Institutes of Health, children and teens commit more than half of all unintentional shootings. Young people need to understand the risks posed by firearms, and when participating in activities such as hunting or target shooting, need to know how to do so safely.

What has been done
Shooting sports are an integral part of the outdoor learn-by-doing curriculum at the UMaine 4-H Camp and Learning Center at Bryant Pond, our state headquarters for 4-H Shooting Sports. Our program complies with the National 4-H Shooting Sports policies and guidelines for teaching good self-concept, character, and the safe and ethical use of firearms.

Results
Typical of most years, during 2012 35 adults were certified to teach shooting sports to 4-H clubs, and over 850 youth ages of 9 - 18 received firearm safety training through 4-H programs. Through certified instructors youth have learned the rules of safely handling firearms and archery equipment, that guns have the potential to be deadly weapons, and they must be treated with respect. The National 4-H Council believes that firearms education reduces gun accidents and accordingly, Maine youth are safer as a result of the 4-H Shooting Sports Program.

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle

<u>Outcome #3</u>

1. Outcome Measures

Increase career aspirations & goal setting

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	4361

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Robotics: By 2020, three-quarters of all jobs will be science and engineering related and 123 million people will be needed nationally to fill them if current educational trends continue. Providing opportunities for successful engagement in science, technology, engineering, and mathematics (STEM) can help develop an early interest and start young people on a path to successful careers in STEM related fields.

What has been done
UMaine Extension?s 4-H Youth Development program addresses this need in part by providing training for adults and hands-on projects for youth in robotics. In 4-H clubs and residential camps, robotics provides a way to learn and apply STEM skills to real world issues and challenges. In 2012 STEM programs were well integrated into our program and UMaine Extension hosted two Robotics Expos where 163 4-H?ers shared projects they had developed with parents and peers. This year?s 4-H National Youth Science Day Experiment also provided opportunities to work with robotic technology.

Results
: This year approximately 1,300 Maine youth developed skills and interests in STEM disciplines through 4-H robotics, and were assisted by dozens of newly trained volunteers. Through Robotics, youth have developed college and career aspirations related to all four STEM disciplines. Evaluation of 4-H Science continues to show that exposing youth to science improves performance in subjects related to STEM and that they are more likely to express intent to pursue STEM careers. This is true statewide in Maine, and is well documented in a 2013 report from National 4-H, 4-H Science Initiative From Inception to Impact [http://www.4-h.org/].

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle
802	Human Development and Family Well-Being

Outcome #4

1. Outcome Measures

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	3521

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #5

1. Outcome Measures

Reduce waste

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	4637

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #6

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
2012	7574

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #7

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
2012	3309

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Operation Military Kids (OMK): Over 4,000 school-aged military-connected youth live in Maine. When a parent is deployed, children must deal with stressors that can lead to depression, anxiety, and behavior problems. When a family member returns, the long-awaited homecoming may be another difficult period of readjustment while relationships and roles are redefined. The goal of our 4-H Youth Development Program is to provide a network of support for these youth and their families in the face of change and uncertainty.

What has been done

OMK is a UMaine Extension program that is partially funded through the Department of Defense that focuses on the needs of military-connected youth and their families. Our OMK team works in partnership with local military, community groups that support the military, and organizations that serve youth to design and deliver educational and recreational programs, including summer residential camps, to youth. Our programs included efforts to help raise awareness of the issues of deployment on military-connected youth and families.

Results
Since 2008 OMK programs have reached nearly 6,900 youth in Maine and 2,500 military service men and women, increasing their capacity to build skills and create a sense of belonging and engagement within families and with military and community peers. Over 350 school counselors, and 22,600 childcare providers, school nurses, community counselors, social workers, and camp staff were educated on the stressors affecting military youth and families, increasing the capacity of school personnel to understand this issue. On a recent evaluation of OMK youth attending teen adventure camps in Maine more than 90 percent learned that there were people they could depend on when needed, 85 percent learned to understand relationships that can support them in an emergency, and 73 percent indicated they gained the self-confidence to be helpful to their OMK peers and others. Ninety percent felt as if they now had a support group with other campers and would like to return to camp in the future. One camper said: When my dad left, I buried myself in books thinking the world was an awful place. This camp pulled me out of that and showed me there are people who care if I'm here or not.

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle
802	Human Development and Family Well-Being

Outcome #8

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
2012	3160

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
eLearning for an Army of 4-H Volunteers: Maine youth need a safe environment in which they can live and grow through mutual learning and respect. With huge economic challenges facing schools, non-traditional programs like 4-H are of even greater significance to children and the community than ever before. In Maine, as in other states, our most important role is to recruit, train, and coordinate the work of high quality youth and adult volunteers - there cannot be effective 4-H programs without well-trained volunteers.

What has been done
In 2010, UMaine Extension implemented a new web-based training program that makes it easier for volunteers to complete their initial training without compromising the quality of their experience. The majority of training can be done at home, around individual schedules. Once complete, volunteers engage in assignment and/or location specific face-to-face trainings by our staff. In the past year, 700 volunteers have completed the eLearning series.

Results
Web-based training reduces staff time while providing consistent teaching and training to all volunteers. Research shows that youth who participate in positive development opportunities are more likely to be involved in their communities and less likely to get into trouble or make choices that could negatively impact their lives. In 4-H, young people acquire the knowledge, life skills, leadership abilities, and attitudes to help them succeed. During 2012 over 29,000 youth were generously supported by more than 1,500 adult and 6,000 youth volunteers in Maine's 4-H Youth Development Program through clubs, camps, schools, nutrition programs, and after school programs.

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

Outcome #9

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
2012	3381

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #10

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
2012	2018

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
4-H Service Learning and Curriculum Integration: Middle school is a crucial time for students as they change developmentally and form behaviors that will guide them as adults. Ten percent of the middle school population in rural areas of Maine are failing academically and in danger of dropping out. Students can re-engage in school when they are given real life problems to solve and meaningful decisions to make, and find a measure of success. Our goal is for them to stay in school, go on to college, and live meaningful lives.

What has been done
At 14 rural middle schools in western Maine, UMaine Extension combined science, technology, engineering and math concepts with service learning projects and mentoring to engage students.

Teams of students worked on problems within their own communities. Classes took place in school, afterschool, and at residential 4-H camps, and comprised 20 to 40 percent of their formal schooling. More than 180 students took part, a mix of at-risk students and above average learners.

Results
In the first full-year pilot (2011), grades and attendance dramatically increased, as did positive attitudes toward learning. From spring of 2011 to spring of 2012, scores reported by the Northwest Evaluation Association standardized testing service increased an average of 11.5 points for 8th graders and 5.6 points for 7th graders in science, 11.5 points for 8th graders and 8.6 points for 7th graders in language and reading, and an average of 6.5 points for both grades in math. These are phenomenal changes; a three-point increase represents an entire year of learning. As one student wrote, "You encouraged me to do things I never thought I could do. I never thought I would be part of a big project that stretched all over Bethel!!" The success achieved by these students has created a new culture for change and innovation in area schools. It?s changing the way teachers think about chronically disengaged students and the way they teach.

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #11

1. Outcome Measures

Assess community needs and assets

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	850

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #12

1. Outcome Measures

Strengthen community capacities, human capital, building partnerships

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	1123

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
Gardening for Youth; A Cultural Community Bridge: New settlement patterns are emerging for many migrant farm workers who work in Maine each year. An example, over 200 Latino migrant workers and their families have permanently settled in the town of Milbridge (pop. 1,200), in rural Washington County in the last few years to take advantage of jobs harvesting blueberries, making holiday wreaths, and processing fish. As the largest minority group in Maine, Hispanics add diversity and cultural breadth to a very white state. Integrating and building trust in a new community is a slow process.

What has been done
In 2012, UMaine Extension reached out to the Washington County Latino community through our Kids Can Grow program, a program teaching health and nutrition to young people by growing gardens and cooking its bounty for their friends and families. For this course, promotional materials and orientations were done in Spanish. Participants worked on a group garden at a local housing complex, and applied what they learned to grow their own gardens at home. Community volunteers helped them with their gardens throughout the growing season, and helped the children introduce their homegrown produce into their households.

Results
The Kids Can Grow program is becoming a bridge between the Milbridge Latino and non-Latino communities. The program has provided an opportunity for UMaine Extension to work directly with Mano en Mano, the organization supporting Washington County Latinos and is improving health and nutrition in a culture that often has high levels of diabetes and obesity. The experience is positive for kids who are gaining life skills through mastery of an important and positive skill, and are finding respect within their own families in their role as provider and cook. The youth are pivotal in breaking down language and cultural barriers between the community and their families. The ripple effects of positive change continue to reverberate as the Kids Can Grow program is expanding to local schools.

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #13

1. Outcome Measures

Adopt effective community strategies

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	5336

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #14

1. Outcome Measures

Adopt food safety practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	122

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #15

1. Outcome Measures

Apply knowledge of risks to food safety

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	256

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #16

1. Outcome Measures

Integrate regular physical activity into daily life

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	8865

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #17

1. Outcome Measures

Demonstrate application of life skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual

2012 67

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Evaluation initiatives measured knowledge gained and behavioral changes that contribute to sustainable youth, families, and communities in Maine. Methods included:

- Pre, post, and retrospective activity assessments
- Surveys
- Observations
- Case studies

Key Items of Evaluation

V(A). Planned Program (Summary)

Program # 8

1. Name of the Planned Program

Administrative Plan of Work; Planning and Supervision

☑ 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
902	Administration of Projects and Programs	100%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	8.7	0.0	0.0	0.0
Actual Paid Professional	4.2	0.0	0.0	0.0
Actual Volunteer	0.0	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**
139814	0	0	0
1862 Matching	**1890 Matching**	**1862 Matching**	**1890 Matching**
571788	0	0	0
1862 All Other	**1890 All Other**	**1862 All Other**	**1890 All Other**
123599	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Eat Well Administration

- Eat Well Regional Management
- General Administrative Activities
- Maine Agricultural Center
- Maine Planning and Reporting System
- Plan of Work Oversight and Supervision

2. Brief description of the target audience

•Extension - all staff (Adult) •Extension Faculty (Adult) •Extension Professionals (Adult) •Nutrition Associates (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	0	0	0	0

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

Patent Applications Submitted

Year: 2012

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Multiple-undefined delivery method

Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Planning and Reporting Compliance

Outcome #1

1. **Outcome Measures**

Planning and Reporting Compliance

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Administrative evaluations are conducted through annual reviews and employment group contractual processes.

Key Items of Evaluation