

2013 University of Maine Extension Annual Report of Accomplishments and Results

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I. Report Overview

1. Executive Summary

Executive Summary 2013

The University of Maine Cooperative Extension: A Year of Focused Priorities

Strong statewide programs that benefit the diversified Maine food system and the youth of Maine are the priorities for the University of Maine Cooperative Extension. We continue to focus the majority of our resources on these priorities, resulting in stronger programs and a broad appreciation for the benefits we bring to policy makers, farmers, food processors, and consumers, and to everyone in Maine who values our future generations.

4-H Youth Development in Maine

Last year more than 26,000 youth participated in the Maine 4-H program by attending 4-H camps, 4-H community clubs, or 4-H afterschool or school enrichment programs. UMaine Extension's 4-H youth development program is the largest out-of-school educational program in Maine. More than 13,200 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.

Over the past two years, Maine Extension's 4-H Program has increasingly become a leader and innovator in the design and delivery of informal Science, Technology, Engineering and Mathematics (STEM) education. A major focus of the 4-H program in Maine is science, and 4-H is uniquely positioned throughout the state to foster discovery and passion for science in young students, provide opportunities to explore the University of Maine campus, and encourage youth to continue their post secondary learning. According to the national 4-H study on Positive Youth Development conducted by Richard M. Lerner, Ph.D at Tufts University, youth in 4-H Science programming reported having high educational aspirations. When asked how far they want to go in school, half of the youth surveyed want to finish college. Additionally, 4-H youth have higher educational achievement and motivation for future education than non 4-H youth.

In addition to STEM programming more than 9,000 youth participate in our healthy lifestyles programming which includes our Eat Well Nutrition Education program a component of which is funded through EFNEP. A third integrated program focus is citizenship and approximately 6,700 youth are involved with making a positive difference in their communities with many of these youth also participating in programs related to STEM and healthy lifestyles.

Growing All Aspects of the Maine Food System

UMaine Extension supports the entire Maine food system through outreach, education, and applied research. Maine's agriculturally based food system is worth over \$3 billion and encompasses agricultural production, processing, food safety, food security, commerce, and consumption.

For Maine to succeed, we need to help to create growth opportunities for farmers and value-added food businesses. Further, we need to support a wonderful new crop in Maine: farmers! Maine has the oldest population in the country, but we are experiencing a renaissance of farming that is led by a new young generation of first-time farmers. In the past five years the number of Maine farmers aged 34 and

younger grew by nearly 40 percent, according to the 2012 Census of Agriculture. That growth surge -- from 396 to 551 young farmers -- far surpassed the 1.5 percent increase in the numbers of young farmers in the United States as a whole. This new group of farmers is unlike their predecessors in that most did not grow up on a farm or have abundant farm experience prior to entering the business. They are turning to Extension to provide essential information and support as they build sustainable enterprises.

Statistics indicate that farming in Maine is increasing. The data show that the value of agricultural products in the state has increased 24 percent in five years, that a growing number of landowners now list farming as their primary occupation, and that the amount of land in farms has increased by 8 percent in the same time period. According to the USDA - National Agricultural Statistics, Maine has the largest agricultural economy in New England. Farm-gate sales to Maine farmers were \$703 million in 2012. Maine has the most diverse agricultural economy in New England and the largest number of farms led by women. With over 8,100 farms and 1.3 million acres of farmland currently in production, there is strong demand for Extension services and resources. This year UMaine Extension brought together many pieces of the Maine and New England agricultural sector when it hosted the first-ever Maine Food Summit.

We continue to lead the transition in Maine from conventional farming to value-added production, on-farm processing, and local food hub development. We engage farmers in business education that results in increased new enterprise exploration, greater profits, and an increased likelihood for sustained success. Our support for business development in the Maine food system comes in reviewing the product development process for cost-effective efficiencies, locating appropriate resources to address unique equipment needs, assisting in the development of new products, exploring adding value to existing products, or providing essential training in food safety, sanitation, or licensing requirements, or via our Better Process Control School.

A major concern from field-to-fork is the safety of our 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 industry groups and state and federal regulators.

A new responsibility that UMaine Extension has assumed is to serve as the food process authority for acidified foods. This role provides essential review, analysis, and support to food processors in Maine and beyond.

The USDA estimates that 200,000 Mainers (15 percent of our population) don't have enough to eat. This high level of food insecurity has inspired UMaine Extension to coordinate 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 2013 volunteers grew and donated over 217,800 pounds of produce - that's over 108 tons to help feed Maine people.

We continue to work with families and young people to improve food-buying, and consuming habits to promote improved health.

UMaine Extension faculty and staff conduct integrated pest management programs statewide in many crops. Surveillance of crops for native and invasive pests is critical for a science-based response to threats. In 2011 the invasive spotted wing *Drosophila* was first detected in Maine and in 2012 was responsible for causing losses in wild blueberry and fall raspberry crops. Through an aggressive response by UMaine Extension in collaboration with farmers, this pest caused minimal damage in 2013. Extension staff remains at the front lines of the battle against threats to the agricultural economy.

Our faculty provides essential background information to legislators, state agency policy makers, and others as they decide issues regarding pesticides, food licensing, local food autonomy, labeling requirements, and how to stimulate the economy for the future.

UMaine Extension is a critical resource to a growth sector of the Maine economy. Our work is based on the needs of our customers and focused on building a successful Maine food system that enhances job growth and promotes healthy citizens and sustainable communities. The need for engaged University outreach through UMaine Extension research and educational outreach appears greater in the twenty-first century than it did at the time of our inception 100 years ago.

Technology Advancements for Extension Educators in New England

Internet access across the United States is changing quickly, and more Americans, including farmers and rural residents, are integrating online resources into their daily lives. Eighty percent of New England farms have Internet access (USDA-NASS, 2011). Through online webinars, hands-on practice, and troubleshooting, we have helped Extension agricultural educators across New England learn to effectively incorporate social media into their programming through 12 trainings offered on social media topics ranging from videos, webinars, and e-newsletters to Facebook, Twitter, and crowd funding. Investing in the skills of agricultural educators is imperative for ongoing success. Eighteen participants reported that, as a result of the training, they have implemented new social media tools in their farmer education and outreach work. Thirteen have changed social media tools or strategies to enhance their programming. More than half of those who implemented or changed their social media tools saw an effect among their target audience, such as an increase in farmer use of online resources published in e-newsletters, a successful crowd-funding campaign, active and increasing participation in live and recorded webinars, and new clients beyond New England's borders.

Artisan Cheese, Bread Wheat, and the New Food Economy

Interest in local foods is exploding in Maine. Cooperative Extension is working with the Maine Cheese Guild to provide training, education, and problem solving for this growing value-added dairy sector. Maine is second in the nation in the number of artisan cheese producers. UMaine Cooperative Extension is the single most valuable resource to these producers. The state's largest producer (over 500,000 lbs annually) came to Cooperative Extension in 2006 to learn how to make cheese from their cows' milk. Today their cheese is sold statewide and beyond.

The growth in wheat production in the Northeast for use in human food, particularly wheat for baking, has been aided by the work of Extension faculty who have worked with growers on variety selection, disease management, right-sized equipment for Maine farms, and building relationships among growers, millers, and bakers. This new community of artisan bakers relies on Cooperative Extension research and outreach. That relationship has resulted in a five-fold increase in wheat acreage in Maine and higher employment and increased economic value in this business sector.

Total Actual Amount of professional FTEs/SYs for this State

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	81.8	0.0	0.0	0.0
Actual	62.0	0.0	0.0	0.0

II. Merit Review Process

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

- External University Panel
- External Non-University Panel
- Expert Peer Review
- Other (Individual experts pertinent to Maine issue areas)

2. Brief Explanation

As result of an annual process, this year UMaine Extension faculty and programming professionals engaged in a process to plan for major programs for the upcoming years 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.

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.

- .. Internal University Panel
- .. External University Panel
- .. External Non-University Panel
- .. Combined Internal and External University Panel
- .. Combined Internal and External University and External Non-University Panel
- .. Expert Peer Review
- .. Other

III. Stakeholder Input

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

- Targeted invitation to traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-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.

The University of Maine Cooperative Extension has learned from our constituents that high-quality engagement takes place best 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 citizen 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.

“ 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 current and emerging 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
- Other (Meetings 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
- In the Staff Hiring Process
- To Set Priorities

Brief explanation.

An example: As we interact with stakeholders and analyze current first source statistics we are able to better identify emerging needs. For a number of years we have been responding to a strong interest in farming by a young demographic; new farmers who are 34 years old and younger. We believe our early response to this emerging demand has contributed to an increase of nearly 40 percent in the number of new young farmers - far surpassing the 1.5 percent increase in the United States as a whole.

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:

- “ Assessment of Compost Properties as Predictors of Compost N Supply to Tomatoes Grown in High Tunnels
- “ Optimizing Irrigation Practices and Compost Application Rates within High Tunnels for Tomato Production
- “ Improving Apple Rootstock Propagation Efficiency
- “ Spotted Wing Drosophila Ecology and Management
- “ Exploring the Market Potential of Aronia Berries
- “ 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
2093276	0	0	0

2. Totaled Actual dollars from Planned Programs Inputs				
Extension			Research	
	Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
Actual Formula	1808991	0	0	0
Actual Matching	7824084	0	0	0
Actual All Other	3965756	0	0	0
Total Actual Expended	13598831	0	0	0

3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous				
Carryover	0	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%			
307	Animal Management Systems	5%			
311	Animal Diseases	5%			
315	Animal Welfare/Well-Being and Protection	5%			
601	Economics of Agricultural Production and Farm Management	5%			
602	Business Management, Finance, and Taxation	10%			
704	Nutrition and Hunger in the Population	10%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	30.6	0.0	0.0	0.0
Actual Paid Professional	20.3	0.0	0.0	0.0
Actual Volunteer	240.7	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
738972	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
3086134	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1233791	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

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

2. Brief description of the target audience

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

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

3. How was eXtension used?

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

V(E). Planned Program (Outputs)

1. Standard output measures

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

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

Patent Applications Submitted

Year: 2013
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

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

Year	Actual
2013	11307

Output #2

Output Measure

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

Year	Actual
2013	128228

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

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

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

Outcome #1

1. Outcome Measures

Pounds of food donated

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	25184

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #2

1. Outcome Measures

Monetary value of food produced, gleaned, and donated

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	480

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #3

1. Outcome Measures

Organizations/collaborators receiving donated food

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #4

1. Outcome Measures

Participate in livestock disease monitoring programs

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	39

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #5

1. Outcome Measures

Improve animal well-being

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	233

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #6

1. Outcome Measures

Demonstrate application of life skills

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Demonstrate application of subject matter knowledge

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	8000

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

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

What has been done

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

Results

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

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

4. Associated Knowledge Areas

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

Outcome #8

1. Outcome Measures

Demonstrate application of leadership skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	45

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #9

1. Outcome Measures

Demonstrate civic engagement

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #10

1. Outcome Measures

Reduce carbon footprint

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Reduce waste

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	69

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #12

1. Outcome Measures

Adopt sustainable living practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	2015

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #13

1. Outcome Measures

Assess current and projected impacts of climate change

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	60

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #14

1. Outcome Measures

Adopt appropriate strategies based on research-based information

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	8260

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Increasing Farmers' Capacity To Produce High-Quality Food Grains: Increasing demand for locally grown food and feed grains represents a significant opportunity for northern New

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

What has been done

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

Results

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

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

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

4. Associated Knowledge Areas

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

Outcome #15

1. Outcome Measures

Form/join citizen networks for citizen action and education

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
-------------	---------------

2013

32

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #16

1. Outcome Measures

Engage positively in their community

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	597

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #17

1. Outcome Measures

Train, support and mentor others in leadership roles

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	84

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #18

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1431

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

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

What has been done

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

Results

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

prices for high-quality products.

4. Associated Knowledge Areas

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

Outcome #19

1. Outcome Measures

Increase consumption of locally produced foods

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	60

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #20

1. Outcome Measures

Adopt integrated pest management strategies

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	3107

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #21

1. Outcome Measures

Develop integrated farming systems

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	202

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

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

What has been done

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

Results

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

4. Associated Knowledge Areas

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

Outcome #22

1. Outcome Measures

People donating food

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	176

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #23

1. Outcome Measures

Participate in livestock quality assurance program

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #24

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	254

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #25

1. Outcome Measures

Increase career aspirations and goal setting

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	63

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #26

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1478

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #27

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	550

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

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

What has been done

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

Results

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

4. Associated Knowledge Areas

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

Outcome #28

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	19

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #29

1. Outcome Measures

Increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	176

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #30

1. Outcome Measures

Document dollars saved

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	40

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #31

1. Outcome Measures

Train support and mentor others in leadership roles

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	35

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #32

1. Outcome Measures

Demonstrate leadership skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	51

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
704	Nutrition and Hunger in the Population

Outcome #33

1. Outcome Measures

Develop Sustainable Aquaculture Systems

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	1

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

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

What has been done

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

Results

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

4. Associated Knowledge Areas

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

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

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

Key Items of Evaluation

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
112	Watershed Protection and Management	55%			
132	Weather and Climate	45%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	6.1	0.0	0.0	0.0
Actual Paid Professional	2.5	0.0	0.0	0.0
Actual Volunteer	9.9	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
74749	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
258522	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
46598	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)

2. Brief description of the target audience

- 4-H Volunteers (Adult)
- Agricultural Service Providers
- Commercial Aquaculturalists (Adult)
- Commercial Fishermen (Adult)
- Community Leaders (Adult)
- Extension - staff (Adult)
- Extension Staff (Adult)
- General Public (Adult)
- General Public (Youth)
- Internal Audience-University Faculty & Staff
- Small or Home-Based Business Owners - Current (Adult)
- Teachers (Adult)
- Volunteers (Adult)

3. How was eXtension used?

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

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	2592	4908	471	0

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

Patent Applications Submitted

Year: 2013

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

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

Year	Actual
2013	1108

Output #2

Output Measure

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

Year	Actual
2013	62

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	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

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Reduce carbon footprint

Not Reporting on this Outcome Measure

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
2013	107

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

Outcome #5

1. Outcome Measures

Demonstrate application of leadership skills

Not Reporting on this Outcome Measure

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

Adopt effective community strategies and solutions

Not Reporting on this Outcome Measure

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

- Before- After (before and after program)
- During (during program)
- Case Study

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	5%			
131	Alternative Uses of Land	35%			
401	Structures, Facilities, and General Purpose Farm Supplies	20%			
403	Waste Disposal, Recycling, and Reuse	35%			
608	Community Resource Planning and Development	5%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual Paid Professional	0.1	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
5374	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
22893	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1084	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)
- Home Energy Conservation (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

2. Brief description of the target audience

- Agricultural Producers (Adult)
- General Public (Adult)

3. How was eXtension used?

- Limited staff membership and participation in communities of practice
- Access for information related Planned Programs
- Resources referred to customers and clients
- Participation in selected webinars sponsored by eXtension.
- Participation in selected professional development webinars sponsored by eXtension
- Identifying multi-state collaboration opportunities

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	330	45200	0	0

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

Patent Applications Submitted

Year: 2013
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

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

Year	Actual
2013	7

Output #2

Output Measure

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

Year	Actual
2013	2

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	Evaluate alternative sources of energy and act accordingly

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
2013	5

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
608	Community Resource Planning and Development

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
2013	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
111	Conservation and Efficient Use of Water
403	Waste Disposal, Recycling, and Reuse
608	Community Resource Planning and Development

Outcome #3

1. Outcome Measures

Evaluate alternative sources of energy and act

Not Reporting on this Outcome Measure

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
2013	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
111	Conservation and Efficient Use of Water
403	Waste Disposal, Recycling, and Reuse
608	Community Resource Planning and Development

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

Not Reporting on this Outcome Measure

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
2013	125

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
608	Community Resource Planning and Development

Outcome #8

1. Outcome Measures

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	867

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
131	Alternative Uses of Land
403	Waste Disposal, Recycling, and Reuse

Outcome #9

1. Outcome Measures

Adopt sustainable living practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	867

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
131	Alternative Uses of Land
403	Waste Disposal, Recycling, and Reuse

Outcome #10

1. Outcome Measures

Evaluate alternative sources of energy and act accordingly

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	125

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

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

V(I). Planned Program (Evaluation Studies)

Evaluation Results

- Retrospective (post program)
- Before- After (before and after program)
- During (during program)

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: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	6.5	0.0	0.0	0.0
Actual Paid Professional	13.3	0.0	0.0	0.0
Actual Volunteer	22.7	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
75277	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
557513	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1266502	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)
 - Nutrition Education (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

2. Brief description of the target audience

- Eat Well Participants (Adult)
- Eat Well Participants (Youth)
- Extension Staff (Adult)
- General Public (Adult)
- General Public (Youth)
- Volunteers (Adult)
- 4-H Youth (Youth)
- Community Leaders (Adult)
- Eat Well Volunteers (Adult)
- EFNEP Participants (Adult)
- Master Gardener Volunteers (Adult)

3. How was eXtension used?

- Limited staff membership and participation in communities of practice
- Access for information related to Planned Programs
- Resources referred to customers and clients
- Participation in selected webinars sponsored by eXtension.
- Participation in selected professional development webinars sponsored by eXtension
- Identifying multi-state collaboration opportunities

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	7111	3390	6882	0

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

Patent Applications Submitted

Year: 2013
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

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

Year	Actual
2013	3632

Output #2

Output Measure

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

Year	Actual
2013	58

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 (Dietary Approaches to Stop Hypertension), 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 (Dietary Approaches to Stop Hypertension), etc)

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	2371

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Obesity in Maine: In Maine, almost two-thirds of adults and more than a quarter of school-aged youth are overweight or obese, a reality that has serious implications for health. In addition, USDA estimates that 200,000 Mainers don't have enough to eat. When food becomes scarce, food purchased becomes less nutritious. The contradiction between the high rate of obesity and food insecurity in Maine demonstrates that poor food choice and lack of nutrient-rich food have a significant impact on Maine's population.

What has been done

The Expanded Food and Nutrition Education Program (EFNEP) is a program of UMaine Extension funded through Smith-Lever 3(d) legislation. Trained staff provides limited-income youth and families with research-based, interactive education on a variety of topics in homes, small community groups, and schools. During FY13, our EFNEP Community Education Assistants provided sequential nutrition education to 377 adults and consecutive education to more than 5,000 youth aged 5-18. Pre- and post-program evaluation of youth outcomes began in October 2013.

Results

Results: Our evaluation data is designed to track adult behavior changes with the assumption that there is one or more youth effected by the behavior of each adult; for each adult enrolled it is required that there be at least 1 child aged 0-18 in the home environment. Of the 377 participating adults, 146 completed the program by meeting educational objectives in diet quality, physical activity, food resource management, and food safety and security. These graduates completed entry and exit behavior checklists and 24-hour food recalls measuring behavior change. Among the most impressive changes is that 69 percent now plan meals in advance and 62 percent more often use the Nutrition Facts on food labels to make healthy food choices. Participants report an increase in consumption of whole grains, fruits, vegetables, fiber, lean

proteins, and healthy oils, and reduced intake of solid fats, added sugars, sodium, and total calories.

EFNEP also saves program graduates money on their monthly food bills. The average savings per month per household was \$36, which equals a total household cost savings of \$432 per year, while improving the quality of food consumed. The total cost savings for all graduate households was \$4,960 per month, for a total annual food cost savings of \$59,520.

4. Associated Knowledge Areas

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

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
2013	763

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 #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
2013	67

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Washington County Summer Food Service Program: Food insecurity affects many families who reside in Washington County, Maine's poorest county. Over 60 percent of students are eligible for free or reduced school lunch; however, this important nutrition program is unavailable during the summer months. Local communities may help to fill the void through the USDA Summer Food Service Program (SFSP), but due to a lack of awareness and misconceptions about the program, prior to 2013 only 4 communities participated, serving less than 6 percent of eligible children.

What has been done

UMaine Extension's Nutrition Education Program facilitated meetings in Washington County to increase awareness of the SFSP and to dispel misconceptions that had been barriers to sponsorship. We worked directly and indirectly with school superintendents and cooks, community leaders, citizens, summer recreation directors, and the media to raise awareness of the problem and facilitate SFSP as a solution. We worked within communities to develop creative strategies for local implementation.

Results

Results: Preliminary figures indicate that during 2013 the SFSP provided an estimated \$193,836 to new sponsoring organizations to serve an estimated total of 66,362 nutritious meals to nearly 600 children per day in 9 communities. When added to sites that participated in previous years, \$226,249 of USDA funds was spent in Washington County to feed more than 800 children per day in 13 communities, tribal communities, and seasonal agricultural migrant communities. This represents 20 percent of the school-age population. Fun and engaging nutrition education was piloted at one of the larger sites. Sponsors reported satisfaction with the program and plan to continue participating in the future. Goals for 2014 are to expand the program to additional communities and to provide nutrition education at more sites.

4. Associated Knowledge Areas

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

Outcome #4

1. Outcome Measures

Demonstrate application of leadership skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	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
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
2013	751

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Maine Harvest for Hunger: The economy's long, slow rebound from the "Great Recession" and high unemployment give Maine the highest rate of food insecurity in New England. Forty-three percent of food-insecure people in Maine do not qualify for food stamps or any other government program. It is especially challenging to afford high quality, fresh, nutritious food.

What has been done

Nearly 500 home gardeners, UMaine Master Gardeners, and other volunteers in about 14 Maine counties collectively logged more than 5,000 hours through UMaine Extension's Harvest for Hunger Program that grows fresh fruits and vegetables for donation to needy people in Maine. The program's objectives are to mitigate hunger, improve nutrition and health, and help the recipients develop lifelong positive nutritional habits.

Results

Results: In 2013, our Harvest for Hunger Program donated more than 108 tons of vegetables and fruit to 152 food banks, shelters, and charitable organizations around the state. The value of the produce was over \$365,380, based on a market sales price averaging \$1.69 per pound. Many recipients also received cooking and gardening lessons offered along with the program helping to build self-reliance and health for the future.

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
2013	893

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
2013	42

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
724	Healthy Lifestyle
802	Human Development and Family Well-Being

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

V(I). Planned Program (Evaluation Studies)

Evaluation Results

- Retrospective (post program)
- Before - After (before and after program)
- During (during program)

- Case Study
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity

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: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	6.0	0.0	0.0	0.0
Actual Paid Professional	1.5	0.0	0.0	0.0
Actual Volunteer	7.6	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
50931	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
329810	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
101262	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)
- Food Safety, Food Preservation Workshops and consumer questions answered
- 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)
- Families (Adult)
- General Public (Adult)
- General Public (Youth)
- Small or Home-Based Business Owners - Current (Adult)

3. How was eXtension used?

- Limited staff membership and participation in communities if practice
- Access for information related Planned Programs
- Resources referred to customers and clients
- Participation in selected webinars sponsored by eXtension.
- Participation in selected professional development webinars sponsored by eXtension

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	2715	619	66	82

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

Year: 2013
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

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

Year	Actual
2013	253

Output #2

Output Measure

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

Year	Actual
2013	210

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

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
2013	164

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
2013	63

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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)

Not Reporting on this Outcome Measure

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

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	550

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code Knowledge Area

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

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Before- After (before and after program)
During (during program)
Case Study

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: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	11.5	0.0	0.0	0.0
Actual Paid Professional	4.6	0.0	0.0	0.0
Actual Volunteer	2.6	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
244945	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
713472	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
177575	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)
 - 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)

2. Brief description of the target audience

- 4-H Volunteers (Adult)
- 4-H Youth (Youth)
- Agricultural Producers (Adult)
- Agricultural Service Providers
- Business Assist Organization Staff (Adult)
- Community Leaders (Adult)
- Extension - staff (Adult)
- Extension Staff (Adult)
- Families (Adult)
- General Public (Adult)
- General Public (Youth)
- Internal Audience-University Faculty & Staff
- Master Gardener Volunteers (Adult)
- Small or Home-Based Business Owners - Current (Adult)

2013

1233

Output #2

Output Measure

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

Year

Actual

2013

112

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	Document dollars saved

18	Form/join citizen networks for citizen action and education
19	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability
20	Increase consumption of healthful, locally-grown and produced food (farm to school program, food preservation, etc.)
21	Increase consumption of locally produced foods
22	Strengthen community capacities, human capital, building partnerships

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
2013	849

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
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

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
2013	425

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 #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
2013	133

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Increasing Access to Capital for Maine Businesses: Aspiring and existing entrepreneurs need capital to start, improve, and expand their businesses to create good paying jobs for Maine people. By partnering with a regional economic development organization, traditional lenders are able to lower their risk and increase access to capital for Maine businesses.

What has been done

For the past ten years, UMaine Extension's small business program has collaborated with the Eastern Maine Development Corporation, a private non-profit economic development organization, by participating in (currently chairing) their small business Loan Review Committee in consultations with other lenders, business and community leaders.. The committee oversees credit and lending strategies and reviews funding proposals by commercial lending institutions to support innovative small business proposals.

Results

Results: In 2013 the Loan Review Committee approved 35 loans totaling \$4,079,650. These loans leveraged \$6,200,862 in additional capital. A total of \$10,280,512 was invested in local communities. A total of 73 jobs were created or retained.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
607	Consumer Economics

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
2013	147

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
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
2013	64

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
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
2013	58

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Beach Profile Monitoring Program: Maine beach tourism brings in an about \$1.5 billion annually and accounts for 44,000 jobs. Beach erosion in Maine results from sea level rise, storms, and oceanfront development. UMaine's Beach Profile Monitoring Program measures changes in the distribution of beach sand. Tracking these changes allows Maine Geological Survey to identify seasonal, annual, and long-term (14 years) trends in beach erosion and accretion, thereby guiding beach management, investment, and emergency preparedness.

What has been done

Beach profiling is a simple surveying technique used to measure changes in the contour of the beach. The program is a unique collaboration among local volunteers, participating municipalities,

and scientists. Every month, volunteers monitor the changes in sand movement along beaches from York to South Portland. The program expanded to 2 new beaches in 2013.

Results

Results: The National Weather Service has applied beach profile data collected immediately pre- and post-storm to model storm impacts. These efforts serve to protect life and property by improving warning efforts for coastal storms. Beach profile data has also helped many southern Maine beachfront communities understand the pace of erosion, calculate the costs of future beach improvement projects, and define setbacks for building and improvements using science-based data from our program. Data collected at Wells Beach indicated that a recent harbor dredge and beach nourishment project apparently did not result in long-lived improvements to the width of the recreational beach. The town must now decide if it is economical to pay to barge sand to the site. The sand budget developed from the beach profile data indicates that the town would likely need 360,000 cubic yards of sand at a cost of \$4 per cubic yard, or \$1.44 M. The town must weigh this cost against the values that beaches provide.

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

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
2013	50

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Community Economic Analysis: Many Maine communities have been challenged by economic rollercoasters and are looking for ways to sustainably grow their economies. The City of Ellsworth, a small service-center community in eastern Maine, has taken a proactive approach by developing a plan that fosters sustainable economic development. However, those developing the plan need to have a thorough understanding of the local economy, so they can develop informed plans and improve the quality of business and public policy decision-making.

What has been done

In 2012, UMaine Extension, in cooperation with the UMaine School of Economics, conducted an in-depth analysis of Ellsworth's retail and service markets. Trends, strengths, weaknesses, and gaps in the local and regional retail markets were summarized in two reports presented to Ellsworth's Economic Development Committee and at a Chamber of Commerce event attended by about 70 business owners, community leaders, local government officials, and economic development professionals.

Results

Results: Our final reports were posted to the City of Ellsworth's website and highlighted in the city's last two annual reports. According to the city's Director of Economic Development, the University's reports played a critical role in successful efforts to help six retail businesses start up or expand their operations in Ellsworth during the past two years, adding 109 full- and part-time jobs to the local economy. Several business owners indicated that they had revised their marketing plans with the expectation of increasing their profitability as a result of attending the presentation. One local entrepreneur reported including information from the reports in his business plan and loan application to expand his downtown business. A reporter working for a local newspaper with a readership of more than 10,000 attended the presentation and subsequently wrote a feature article chronicling the information shared during the meeting.

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
2013	118

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 #9

1. Outcome Measures

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

Not Reporting on this Outcome Measure

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
2013	325

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 #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
2013	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
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
2013	384

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
801	Individual and Family Resource Management
805	Community Institutions, Health, and Social Services

Outcome #13

1. Outcome Measures

Model positive financial management behaviors to others

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	5

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 #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
2013	531

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
2013	149

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
2013	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
602	Business Management, Finance, and Taxation
608	Community Resource Planning and Development
805	Community Institutions, Health, and Social Services

Outcome #17

1. Outcome Measures

Document dollars saved

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	306

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 #18

1. Outcome Measures

Form/join citizen networks for citizen action and education

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	30

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 #19

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	334

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

Outcome #20

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	550

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

Outcome #21

1. Outcome Measures

Increase consumption of locally produced foods

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	80

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
604	Marketing and Distribution Practices
608	Community Resource Planning and Development

Outcome #22

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
2013	37

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

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

V(I). Planned Program (Evaluation Studies)

Evaluation Results

- Before - After (before and after program)
- During (during program)
- Case Study

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: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	20.0	0.0	0.0	0.0
Actual Paid Professional	19.6	0.0	0.0	0.0
Actual Volunteer	495.8	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
397144	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
2371259	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1138944	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)
- 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 (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)
- Parenting Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

2. Brief description of the target audience

- 4-H Volunteers (Adult)
- 4-H Youth (Youth)
- Community Leaders (Adult)
- County Executive Committee Members (Adult)
- Disabled Youth (Youth)
- Extension - staff (Adult)
- Extension Staff (Adult)
- Families (Adult)
- Families (Youth)
- Food Stamp Recipients (Adult)
- General Public (Adult)
- General Public (Youth)
- Health Care Providers (Adult)
- Parent Educators (Adult)
- Parents (Adult)
- Senior Companion Program Volunteers (Adult)
- Teachers (Adult)
- Volunteers (Adult)

3. How was eXtension used?

- Limited staff membership and participation in communities if practice
- Access for information related to Planned Programs
- Resources referred to customers and clients
- Participation in selected webinars sponsored by eXtension.
- Participation in selected professional development webinars sponsored by eXtension
- Identifying multi-state collaboration opportunities

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	3863	1448	21086	1333

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

Patent Applications Submitted

Year: 2013
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

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

Year	Actual
2013	2459

Output #2

Output Measure

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

Year	Actual
2013	126

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	Demonstrate application of life skills
15	Mobilize community capacities, assets or resources

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
2013	8859

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

4-H Engaging Youth, Serving Community: The grim reality for rural Maine youth living in low-income families and/or communities often includes substandard housing, food insecurity, and a lack of opportunities outside school. Improving life skills, and feeling valued, powerful, and connected to their communities is an important element in helping young people find ways to succeed in light of the challenges they face.

What has been done

UMaine Extension's 4-H Engaging Youth, Serving Community (EYSC) creates youth-adult partnerships through a variety of community youth-led projects. Between January 2012 and September 2013, five rural EYSC youth and adult partnership teams created and completed an anti-bullying campaign; established school gardening programs that garnered statewide recognition; and engaged in an invasive plant abatement project to benefit a community water supply.

Results

Our five EYSC teams of 224 youth and 97 adults contributed 8,669 hours toward solving community issues. The youth gained by participating in leadership decision-making, functioning within planning and working teams, and becoming empowered to create change within their communities. Their work benefited more than 5,900 people directly, thousands of people indirectly by maintaining local real estate values and protecting the City of Portland's drinking water quality from Eurasian Milfoil, an aggressive invasive plant. The statewide project received a total of \$25,000 in National 4-H Council's USDA Rural Development funds, yet leveraged more than \$216,000 in additional cash and in-kind resources, a return of more than \$8 for every \$1.00 of federal funds.

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
2013	5907

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Improving Proficiency in STEM: It is commonly accepted that the U.S. must improve student proficiency in STEM (science, technology, engineering, and math). According to recent Maine Education Assessment testing, only 50 percent of 8th-graders are proficient in STEM disciplines. Increased STEM education can lead to better employment opportunities and increase the likelihood of youth furthering their education. In one of our important youth development efforts we are focused on addressing studies that show low-income students lose more grade equivalency during the summer than their higher-income peers due to lack of learning opportunities.

What has been done

To increase science proficiency in under-served communities and prevent summer learning loss, UMaine Extension's 4-H Youth Development Programs created and delivered Summer of Science lessons at 16 sites, including eight free- or reduced-lunch sites, three libraries, and five summer camps. More than 33 percent of the 790 participating youth were ethnic minorities and immigrants, and more than half were female. At six sites, our staff recruited, trained, and supervised 12 4-H teens to deliver the curriculum directly to the participants.

Results

Results: Recent national studies have documented that youth involved in 4-H are more likely to pursue future courses or a career in science, engineering, or computer technology, which can

lead to improved employment opportunities later in life. During the recent Summer of Science, 790 youth engaged in STEM-focused learning and stimulating science experiments that in many cases were delivered by their peers. By engaging in summer science activities, these youth increased the likelihood that they would return to the academic school year with reduced summer learning loss and an increased interest in science.

4. Associated Knowledge Areas

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

Outcome #3

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
2013	1628

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

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	6041

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
2013	1966

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
2013	6906

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
2013	4215

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Kids Can Grow: Farmers make up less than one percent of the U.S. population; indicating that most people are removed from understanding of food production and the food system. It is well known that children these days spend less time exercising and eat more low-quality foods, contributing to childhood obesity. Having a positive first gardening experience at a young age may inspire children to make gardening a life-long endeavor, allowing improved health throughout life. Youth are more likely to eat vegetables they have grown, which may expand the range of vegetables they will eat.

What has been done

UMaine Extension's Kids Can Grow program (KCG) is an adaptable hands-on youth gardening program established for ages 7-12. This year KCG took place in 5 locations throughout Maine, with 108 youth each taking full responsibility for their part of a garden. They learned about plant development, weeds, pests, cooking, nutrition, and food safety, and engaged in regular physical activity while gardening.

Results

Results: KCG participants ate more and different vegetables and learned to understand why that is positive, a practice that will continue to improve their lifelong health. Participants felt pride and built a sense of competency as a result of their gardening success. They experienced positive adult relationships through mentoring, and performed community service by donating some of their harvest. Nearly 98 percent successfully started, maintained, harvested, and ate vegetables. Ninety percent prepared vegetables and learned food safety practices. Eighty-seven percent exhibited improved understanding of USDA's My Plate program and how and why to make healthy meal and snack choices. Parent evaluations showed that ninety-five percent indicated their child experienced a self-esteem boost.

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle

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
2013	2386

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 #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
2013	3379

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
2013	1521

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 #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
2013	681

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
2013	1613

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Inclusion in Afterschool Programs: Nationally, Maine has the 4th highest percentage of children with special health care needs, and the number is growing. Professionals who work with youth (ages 5-18) with disabilities in afterschool programs, 4-H, and other groups affiliated with Maine Roads to Quality certification toward a Youth Development Credential needed a curriculum for professionals who work with youth with disabilities. Research shows inclusive afterschool programs foster positive development for all youth.

What has been done

UMaine Extension designed the Inclusion in Afterschool curriculum, which applies principles of positive youth development to out-of-school settings. Topics include understanding the Americans with Disabilities Act, inclusive practice, and moving beyond a disability to meet individual needs. UMaine Extension staff trained 65 childcare workers and program directors (as future trainers). With each trainee reaching more than 20 children, over 1,300 children have been affected. Flexible curriculum tools allow professionals to create supportive relationships and remove barriers to participation.

Results

Results: With prompting from the Inclusion curriculum, teachers examined the language they use to describe children with disabilities, and how cultural norms of intelligence, physical ability, and communication can hinder seeing children as individuals. As teachers examined how their perceptions affect their actions, they increased their capacity to create truly inclusive learning environments, which benefit all children. For each child who can remain in a regular group afterschool setting because of this training, their families save at least \$11,000 per year in childcare costs. Children living in poverty are at greater risk of having disabilities, so society also benefits because families can apply the savings to their other needs, and because of intangible social benefits to the child from remaining in a group program. By incorporating all youth into program planning via methods outlined in the Inclusion curriculum, the setting, content, activities, and participants will be more inclusive.

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 #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
2013	295

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Parenting Education: In the first 3 years of life parents play crucial roles for their child in 1) promoting language development and establishing a strong foundation for reading; 2) reducing childhood obesity by undertaking nutritional practices, such as breastfeeding, that can decrease the likelihood of their child developing obesity later in life; 3) improving school readiness and success by having their child professionally screened for developmental delays.

What has been done

UMaine Extension's Parenting Education Program provides families with resources, support, and assessment tools for success in 4 Maine counties. Through home visits parents are provided with children's books and encouraged to read to their child daily. Trained parenting education professionals act as breastfeeding coaches and refer parents to local breastfeeding support groups, and when appropriate, to medical providers. Parent education professionals routinely offer developmental screenings to each child through age 36 months.

Results

Results: Sixty percent of enrolled families reported reading to their children daily; this is more than double the 25 percent who reported doing so at enrollment. With each repetition of an experience, connections in the brain become better organized and become part of the brain's structure and circuitry. Thirty-one percent of mothers in our Parenting Education Program who received breastfeeding support were still breastfeeding their infants at 12 months, versus only 23 percent of all mothers in Maine. Research shows that the obesity rate for non-breastfed babies is about 28 percent higher than for breastfed babies. Of the 258 children receiving developmental screenings, 6 percent were found to have a developmental delay requiring referral for further assessment. Children receiving speech, language, physical, and/or occupational therapy as early as possible have increased likelihood of school readiness and later school success and reduced need for more costly future interventions.

4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle

Outcome #14

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
2013	439

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

Outcome #15

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
2013	37

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

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

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Retrospective (post program)

Before-After (before and after program)

During (during program)

Case Study

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: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	8.4	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
221599	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
484481	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	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?

{No Data Entered}

V(E). Planned Program (Outputs)

1. Standard output measures

2013	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: 2013

Actual: {No Data Entered}

Patents listed

{No Data Entered}

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Multiple-undefined delivery method

Year	Actual
2013	0

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

{No Data Entered}

What has been done

{No Data Entered}

Results

{No Data Entered}

4. Associated Knowledge Areas

KA Code	Knowledge Area
902	Administration of Projects and Programs

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Appropriations changes

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}