

2011 University of Maine Extension Annual Report of Accomplishments and Results

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I. Report Overview

1. Executive Summary

The University of Maine Cooperative Extension Annual Report of Accomplishments for 2011 is the first report that chronicles results in our updated format. As expressed in our 2011 transitional Plan of Work, UMaine Extension convened program teams and relevant stakeholders during the late winter and spring of 2010 to update needs assessment research and reframe our programming intentions to align with USDA-NIFA Priority Areas and Maine needs. Our updated Plan reflects those needs and meets our aspirations for increased relevance to our citizenry, more focused statewide issues-based programming, and increased efficiencies and effectiveness in reporting our resulting impacts.

The University of Maine Cooperative Extension and the Maine Food System

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

Maine has added 1,000 farms in the past decade and there are over 1.3 million acres of farmland currently in production - Maine is the largest and most diverse agricultural economy in New England. We provide research-based information that experienced farmers and new growers alike, can trust.

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

Producing a quality crop for harvest and sale requires the integration and management of many talents and risks. Our faculty and staff help farmers reduce risk and manage many threats, such as diseases, insect pests, and the weather. Increasing quality and profitability is essential in a highly competitive market. From maple syrup to cheese, UMaine Extension provides essential information that increases the bottom line.

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

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

Many know that nearly two-thirds of Maine adults and over a one-quarter of high school aged youth are overweight or obese. This reality has serious implications for the health of Maine people with an elevated risk of chronic diseases. UMaine Extension offers nutrition education for SNAP (Supplemental Nutrition Assistance Program) recipients to help them stretch their resources and better feed their families. We have also successfully conducted the Expanded Food and Nutrition Program since 1969. Together with our SNAP-Ed program they form "Eat Well" which is one of the largest initiatives in our portfolio. However, it's not enough to provide food unless you help people with how to prepare it for their families to enjoy.

There are also far too many people who do not have enough food to eat. The USDA estimates that 200,000 Mainers don't have enough to eat. UMaine Extension coordinates the Maine Harvest for Hunger Program. This volunteer effort has led to the growing of fresh vegetables and fruits that are donated to food cupboards, food pantries, and soup kitchens. In 2011 volunteers grew and donated over 290,000 pounds of produce - that's over 145 tons to help feed Maine people.

The University of Maine Cooperative Extension is helping Maine with rural and economic development. This work is based on the needs of our customers and focused on the Maine Food System. We are proud to be at the forefront of this growing sector of the Maine economy. Building on a century of experience in supporting the food system with research based information from reliable experts that you can trust - the future of the Maine Food System looks great!

Assessing Maine's Agricultural Future through 2025

With support from the University of Maine Board of Trustees, the University of Maine Cooperative Extension held 15 focus group sessions with 199 Maine farmers and crop advisors in 2011 to assess the future of Maine agriculture. The research team also met with representatives of all commodities, and held sessions with mixed farmer groups.

Farmers were asked several key questions including:

- What are they optimistic and pessimistic about a future in farming?
- What changes are they making on their farm with respect to changing weather and energy prices?
- What is their vision of agriculture in 2025?

In response, farmers cited the "buy local" movement and the helpful nature of other farmers in Maine as a source of optimism for Maine Agriculture. Other key findings:

- Efforts to expand the purchase of locally produced food and the consumption of local foods are key to maintaining future growth

- Availability of affordable land and an abundance of water

- The potential to be able to feed ourselves

Vision for 2025:

- Many farmers felt that large farms would continue to expand and small farm numbers would continue to grow to take advantage of economies of scale
- Capturing methane will become common to reduce farm energy costs and greenhouse gas emissions
- Small farms will become increasingly intensive and their product base diversified
- Integration of vegetable and livestock operations will increase
- With opportunities for one-on-one interaction at farmers' markets, farmers can improve and change the food culture of consumers. Effective personal interaction will be a key to success.

Obstacles to the Vision:

- Limited opportunities exist with established farmers' markets
- Loss or lack of infrastructure (farm service providers, processing facilities, state-level advertising, etc.) hurts growth of farming in Maine
- Vague, "moving target" or "one-size fits all" regulations make it hard for farmers to invest in

infrastructure on their farms

What has to change?

- Simple, easy to interpret regulations
- Improved access to capital, health insurance, and distribution systems
- Farmers need market opportunities; getting more local food into hospitals, schools, universities, and nursing homes will generate stable income and improve the diet / health of Maine people

Solutions to Grow Maine Agriculture:

- For Maine to become a regional New England food system center, alternative farming models are needed, particularly for middle size farms that are too large for intensive production but too small to take advantage of economies of scale. Integrating crop and livestock along with value added operations could save these farms from being lost and the land developed for other non-agricultural purposes.
- Improved access to capital could come from a new farmer fund to help young farmers buy land.
- Given the physically demanding nature of farming, alternative or group health insurance plans for farmers are needed to help farmers who can't afford standard insurance programs.
- Improve opportunity for Supplemental Nutrition Assistance Program (SNAP) dollars to purchase locally grown food.
- State policy makers should establish goals for amounts of local food to be purchased by institutions (schools, health care facilities, prisons and others) and create incentives for meeting those goals. The result will create needed market opportunities, build local relationships, and lead to improved health of Maine people.

Researchers Discover Destructive Fruit Fly Now in Maine

University of Maine Cooperative Extension fruit and pest management specialists have discovered the presence of a spotted-wing Asian fruit fly (*Drosophila suzukii*), a particularly destructive non-native fruit fly, at five locations in Maine. They are working with counterparts across the country to collect and collaborate on the latest research, and working with regional colleagues to formulate a multi-state effort to protect 2012 crops. The *Drosophila suzukii* fly poses a serious threat to Maine fruit growers' blueberry, strawberry, raspberry and other soft-skinned fruits, possibly even vegetables. The value of Maine's wild blueberry crop alone is about \$190 million annually, with a statewide economic impact of more than \$250 million. The primary focus of our collaborative research is on natural controls with the intention to minimize pesticide use and mitigate the issue with the least environmental and economic impact possible.

New Farmers in Maine

In line with the recent growth in the number of farms in Maine, especially small farms and farms that market locally, Extension has seen an increase in requests for help and information from new farmers and seasoned farmers who want to change their focus. In response we have created a formalized course called So, You want to Farm in Maine. The course is designed to help participants navigate aspects of farming beyond crops or herds such as doing market research, creating a business plan, finding access to capital, distribution, understanding agricultural rules and regulations, accounting, and even interpersonal relationships. The course has attracted 140 participants statewide in the last two years.

4-H Youth Development in Maine

Last year more than 28,500 youth participated in the Maine 4-H program by attending 4-H camps, 4-H community clubs, and 4-H afterschool and school enrichment programs. More than 14,000 youth participated in hands on experiential learning related to science, engineering and technology by engaging in numerous projects such as robotics, animal science, plant science, and environmental science. 4-H science is a key focus area for the Maine 4-H program and work is being done to strengthen the University of Maine connections to support this critical outreach effort.

An Important Educational Resource for People's Lives, in Maine and the World

Our publications office distributes print and online educational resources that people find relevant to their everyday needs. Each publication is backed up by a local Extension staff member with expertise that

extends the value of the resource. We target approximately 700 publications that we feel reflect the best resource available. Many of the publications are available online and can be downloaded for free. We are constantly reviewing and updating our portfolio, and currently have 47 online publications that contain one or more digital videos that extend the value of the learning experience to meet the measure of how people learn and interact in today's world. Publications account for over 40 percent of Extension's web traffic with visitors spending an average of four minutes per page. Our website has received over 2 million hits and we have produced over 130 video segments that are being accessed across the state, nation and internationally.

Total Actual Amount of professional FTEs/SYs for this State

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	91.3	0.0	19.0	0.0
Actual	119.9	0.0	7.3	0.0

II. Merit Review Process

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

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

2. Brief Explanation

External University Panel and External Non-University Panel

This year UMaine Extension faculty and programming professionals engaged in the annual 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 by statewide programmatic teams. Further, many engaged in review by discipline-specific review panels and advisory groups that serve to focus the work of individuals and teams. 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.

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

The University of Maine Cooperative 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. As part of our multi-state collaboration, every faculty and programming professional has access to review the programming intentions and accomplishments of staff from other states. This capacity allows for collaborative planning and evaluation that can communicate the value of multistate accomplishments.

III. Stakeholder Input

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

- Use of media to announce public meetings and listening sessions
- 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.

Past efforts to engage a cross-section of key stakeholders in formal reviews has met with limited success. We have learned from our constituents that high quality engagement takes place when the issue is most important to them, 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 work closely with community, commodity, and professional stakeholders to guide their work. Selected examples include:

“ Our partnership with citizen executive committees who provide direction and advice to each County 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 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.

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

1. Method to identify individuals and groups

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

Brief explanation.

{NO DATA ENTERED}

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

1. Methods for collecting Stakeholder Input

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Meeting with the general public (open meeting advertised to all)
- Meeting specifically with non-traditional groups
- Other (Research using relevant current and first source data)

Brief explanation.

{NO DATA ENTERED}

3. A statement of how the input will be considered

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

Brief explanation.

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 education for Maine. Examples of recent projects include:

- .. Non-Potato Sources Of PVY Inoculum
- .. Alternative Susceptibility Trends For Microbial Isolates From Organic Dairy Herds With Mastitis In The Northeast
- .. Effect Of Sterol Inhibitor Fungicides On Honey Bees
- .. Expanding Spelt Production In Maine
- .. Designing Small Ruminant Parasite Control Programs 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
2276500	0	0	0

2. Totaled Actual dollars from Planned Programs Inputs				
Extension			Research	
	Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
Actual Formula	1884721	0	0	0
Actual Matching	7444195	0	0	0
Actual All Other	4860018	0	0	0
Total Actual Expended	14188934	0	0	0

3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous				
Carryover	1182409	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

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	10%			
205	Plant Management Systems	15%			
206	Basic Plant Biology	5%			
213	Weeds Affecting Plants	5%			
216	Integrated Pest Management Systems	25%			
311	Animal Diseases	5%			
315	Animal Welfare/Well-Being and Protection	5%			
601	Economics of Agricultural Production and Farm Management	15%			
602	Business Management, Finance, and Taxation	15%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	41.0	0.0	0.0	0.0
Actual Paid Professional	25.7	0.0	0.0	0.0
Actual Volunteer	10.1	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
634305	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
2089863	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1070597	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 Youth (Youth)
- Agricultural Producers (Adult)
- Agricultural Workers (Adult)
- Apple Growers (Adult)
- Beef Producers (Adult)
- Blueberry Growers (Adult)
- Community Leaders (Adult)
- Cranberry Growers (Adult)
- Dairy Producers (Adult)
- Elders or Seniors (Adult)
- Extension - staff (Adult)
- Extension Staff (Adult)
- Families (Youth)
- Food Stamp Recipients (Adult)
- General Public (Adult)
- General Public (Youth)

- Home Gardeners (Adult)
- Home Gardeners (Youth)
- Master Gardener Volunteers (Adult)
- Ornamental Horticulture Industry (Adult)
- Parent Educators (Adult)
- Pesticide Applicator Training Participants (Adult)
- Pesticide Applicators (Adult)
- Potato Growers (Adult)
- Small or Home-Based Business Owners - Potential (Adult)
- Sweet Corn Growers (Adults)
- Teachers (Adult)
- Vegetable Growers (Adult)
- Veterinarians (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	25386	558984	3034	185

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

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct - Collaborative or Cooperative Effort
Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Direct - Conference/Symposium
Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Direct - Consultation
Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Direct - Educational Programs or Projects
Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Direct - Scholarship
Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Direct - Train the Trainer or Volunteer Training
Not reporting on this Output for this Annual Report

Output #7

Output Measure

- Indirect - Applied Research
Not reporting on this Output for this Annual Report

Output #8

Output Measure

- Indirect - Media and Internet
Not reporting on this Output for this Annual Report

Output #9

Output Measure

- Indirect - Professional, Peer-reviewed, or Refereed Scholarship
Not reporting on this Output for this Annual Report

Output #10

Output Measure

- Indirect - Publication
Not reporting on this Output for this Annual Report

Output #11

Output Measure

- Indirect - Publication in the Popular Media
Not reporting on this Output for this Annual Report

Output #12

Output Measure

- Multiple - undefined delivery methods
Not reporting on this Output for this Annual Report

Output #13

Output Measure

- Crop Production Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	940

Output #14

Output Measure

- General activities related to Global Food Security and Hunger (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	476

Output #15

Output Measure

- Home Horticulture Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	2063

Output #16

Output Measure

- Livestock Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	517

Output #17

Output Measure

- Pest Management Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	4615

Output #18

Output Measure

- Crop Production Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	2351

Output #19

Output Measure

- General activities related to Global Food Security and Hunger (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	3

Output #20

Output Measure

- Home Horticulture Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	3403

Output #21

Output Measure

- Livestock Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	41

Output #22

Output Measure

- Pest Management Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	2338

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Acquire pesticide applicator certification
2	Adopt and maintain integrated pest management strategies
3	Adopt practices that maintain long-term productivity
4	Adopt practices that maintain profitability
5	Identify and respond to pest issues
6	Identify and respond to plant and animal disorders
7	Reduce the use of high-risk pesticides
8	Use pesticides safely
9	Adopt appropriate nutrient management strategies
10	Improve animal well-being
11	Maintain nutrient management certification
12	Make better decisions using available diagnostics
13	Participate in livestock quality assurance program
14	Use grasslands efficiently for feed and water quality protection
15	Adopt appropriate management strategies
16	Adopt at least one energy saving practice
17	Adopt environmentally sound technologies that improve economic viability

18	Evaluate new cropping systems
19	Expand and enhance markets
20	Improve soil health
21	Increase consumption of locally produced foods
22	Operate equipment safely
23	Plant and harvest gardens
24	Test new production techniques
25	Compost
26	Conduct community service or outreach
27	Pounds of food donated
28	Protect or conserve biodiversity and habitat including native plant and animal species
29	Use non-chemical pest management practices
30	Use relevant UMaine Extension web-based resources
31	Participate in livestock disease monitoring programs
32	Demonstrate application of life skills
33	Demonstrate application of subject matter knowledge
34	Reduce waste
35	Monetary value of food produced, gleaned, and donated
36	Adopt sustainable living practices
37	Assess current and projected impacts of climate change

38	Adopt appropriate strategies based on research-based information
39	Form/join citizen networks for citizen action and education
40	Engage positively in their community
41	Demonstrate application of leadership skills
42	Organizations/collaborators receiving donated food
43	Implement techniques to reduce energy consumption
44	Evaluate alternative sources of energy and act accordingly
45	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability
46	Apply knowledge of risks to food safety
47	Adopt food safety practices
48	Adopt specific food safety plans and/or policies (HACCP, GAP, SOP, SSOP, IPM, etc)
49	Increase career aspirations & goal setting
50	Adopt sound business management practices
51	Adopt effective community strategies
52	Adopt integrated pest management strategies
53	Train, support and mentor others in leadership roles
54	Develop integrated farming systems

Outcome #1

1. Outcome Measures

Acquire pesticide applicator certification

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Adopt and maintain integrated pest management strategies

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Adopt practices that maintain long-term productivity

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Adopt practices that maintain profitability

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Identify and respond to pest issues

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Identify and respond to plant and animal disorders

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Reduce the use of high-risk pesticides

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Use pesticides safely

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Adopt appropriate nutrient management strategies

Not Reporting on this Outcome Measure

Outcome #10

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
2011	687

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Building Sustainable Food Animal Health Care in Maine: Maine has a growing small farm population, but limited food animal veterinary resources. In 2011, the University of Maine Animal Health Lab (UMAHL) helped producers by providing diagnostic information and linking food-animal veterinarians with agricultural producers.

What has been done

UMAHL clients are encouraged to work in partnership with us and their local vet as a team to solve livestock problems. For example, when small flock poultry producers contract with our lab for necropsy, we work with their local veterinarians to clarify case histories, then diagnose the problem in consultation with the local vet. The vet is then able to provide a solution via appropriate antibiotic and antibiotic-withdrawal information, aided by us.

Results

This team approach has built competency in food animal medicine among Maine veterinarians and increased utilization of the UMAHL among Maine veterinarians. More importantly it has helped to build the relationship between local vets and their clients - helping food animal producers know, trust, and utilize veterinarians has resulted in better animal health and productivity. Getting more food animal producers to use preventive medicine with veterinary guidance is reducing public health issues such as inappropriate antibiotic use. Engaging more veterinarians in food animal cases has also strengthened the expertise of local vets for the many small farm owners in Maine. As more vets practice food animal medicine, veterinary practice is becoming a more sustainable business in rural areas.

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 #11

1. Outcome Measures

Maintain nutrient management certification

Not Reporting on this Outcome Measure

Outcome #12

1. Outcome Measures

Make better decisions using available diagnostics

Not Reporting on this Outcome Measure

Outcome #13

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
2011	320

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 #14

1. Outcome Measures

Use grasslands efficiently for feed and water quality protection

Not Reporting on this Outcome Measure

Outcome #15

1. Outcome Measures

Adopt appropriate management strategies

Not Reporting on this Outcome Measure

Outcome #16

1. Outcome Measures

Adopt at least one energy saving practice

Not Reporting on this Outcome Measure

Outcome #17

1. Outcome Measures

Adopt environmentally sound technologies that improve economic viability

Not Reporting on this Outcome Measure

Outcome #18

1. Outcome Measures

Evaluate new cropping systems

Not Reporting on this Outcome Measure

Outcome #19

1. Outcome Measures

Expand and enhance markets

Not Reporting on this Outcome Measure

Outcome #20

1. Outcome Measures

Improve soil health

Not Reporting on this Outcome Measure

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
2011	2222

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

Outcome #22

1. Outcome Measures

Operate equipment safely

Not Reporting on this Outcome Measure

Outcome #23

1. Outcome Measures

Plant and harvest gardens

Not Reporting on this Outcome Measure

Outcome #24

1. Outcome Measures

Test new production techniques

Not Reporting on this Outcome Measure

Outcome #25

1. Outcome Measures

Compost

Not Reporting on this Outcome Measure

Outcome #26

1. Outcome Measures

Conduct community service or outreach

Not Reporting on this Outcome Measure

Outcome #27

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
2011	290000

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Harvest for Hunger: The legacy of a poor economy and high unemployment in a small state makes it challenging for Maine families to feed themselves and their families. Ten percent of Maine households, approximately 141,000 people, are "food Insecure" according to the USDA. Forty percent of children in Maine under the age of 12 show some evidence of hunger.

What has been done

Nearly 500 home gardeners, Master Gardeners, and other volunteers in a dozen Maine counties collectively logged 5,890 hours through UMaine Extension's Maine Harvest for Hunger Program to grow and glean fresh fruits and vegetables and donate them to needy individuals and families in Maine.

Results

During the 2011 growing season the Maine Harvest for Hunger Program donated nearly 290,000 pounds of produce - that's over 145 tons - to food pantries, shelters, or charitable organizations around the state. The value of the produce was over \$490,000 based on a market sales price averaging \$1.69 per pound. Many recipients were able to take advantage of cooking and gardening lessons offered as a component of the Program that will allow them to be more self-reliant, and healthier, in the future.

4. Associated Knowledge Areas

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

Outcome #28

1. Outcome Measures

Protect or conserve biodiversity and habitat including native plant and animal species

Not Reporting on this Outcome Measure

Outcome #29

1. Outcome Measures

Use non-chemical pest management practices

Not Reporting on this Outcome Measure

Outcome #30

1. Outcome Measures

Use relevant UMaine Extension web-based resources

Not Reporting on this Outcome Measure

Outcome #31

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
2011	877

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Reducing Parasitic Infections in Small Ruminants: Internal parasites in sheep and goats are a costly problem for producers. It is the top health problem for small ruminant enterprises in Maine and across the country.

What has been done

UMaine Extension has designed and coordinated a series of educational workshops to help producers use FAMACHA©, an on-farm method for monitoring internal parasites in sheep and goats; and to employ techniques for identifying animals that show a natural resistance to internal parasitic infections. Once identified as resistant, producers select those animals to build a more genetically resistant herd/flock.

Results

Results from a recent survey of FAMACHA© workshop participants indicated that more than 81 percent have reduced the use of de-wormers with their sheep and goats and 75 percent have lost fewer animals to internal parasites. More than 88 percent said their flocks/herds were now healthier because of FAMACHA© use and the practice of identifying traits for natural resistance. Sixty-six percent of the respondents attribute the application of these techniques with reduced production costs and increased profits.

4. Associated Knowledge Areas

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

Outcome #32

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
2011	141

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
602	Business Management, Finance, and Taxation

Outcome #33

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
2011	1640

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
602	Business Management, Finance, and Taxation

Outcome #34

1. Outcome Measures

Reduce waste

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	1060

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
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #35

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
2011	490100

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 #36

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
2011	170

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 #37

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
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2011

65

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
216	Integrated Pest Management Systems
601	Economics of Agricultural Production and Farm Management

Outcome #38

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
2011	598

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Maine Maple Producers Trade Show: There are 332 licensed maple syrup producers in the state of Maine who produced over 360,000 gallons of syrup. The value of the syrup produced in 2011 was over \$13 million, and the value of the industry in Maine is substantially more. Maine-based syrup producers have had little opportunity to interact directly with industry representatives and maple experts to advance their skills and improve their businesses.

What has been done

Based on producer needs assessment UMaine Extension and the Maine Maple Producers

Association developed and instituted the first annual Maine Maple trade show. The three-day event consisted of tours through six local sugarhouse operations featuring unique aspects of the maple production industry, industry and equipment displays, and a day of technical sessions featuring eight industry experts on a comprehensive list of topics specifically requested by Maine producers.

Results

Post-event evaluations showed that 100 percent of those completing surveys found the event useful to them in improving their knowledge of production in ways that would improve their business. Ninety-four percent predicted they would make changes as a result of what they learned that would help them to be more efficient, save money and increase profits, and potentially expand their business.

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 #39

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
2011	20

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #40

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
2011	169

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 #41

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
2011	22

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 #42

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
2011	74

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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 #43

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
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2011

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
102	Soil, Plant, Water, Nutrient Relationships
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 #44

1. Outcome Measures

Evaluate alternative sources of energy and act accordingly

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	18

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 #45

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
2011	7910

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 #46

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
2011	8537

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 #47

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
2011	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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 #48

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	141

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 #49

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
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2011 4395

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 #50

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
2011	917

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 #51

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
2011	102

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

Outcome #52

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
2011	15330

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Cranberry Tipworm Mitigation Increases Yields: Maine's cranberry industry has been struggling for nearly 20 years to find an effective means for controlling Cranberry Tipworm. Tipworm breeds rapidly and goes through as many as five generations per season, enabling it to quickly develop resistance to insecticides. Damage from Tipworm infestations caused yield reductions averaging 50 percent.

What has been done

A new chemical treatment was recently developed to address the Cranberry Tipworm. However, use of the product is challenging to growers due to the importance of using it at the proper time in the pest's life cycle. In 2010 UMaine Extension worked to educate growers in best practices and appropriate use; and worked with them throughout the 2011 season to monitor the Tipworm lifecycle, correctly apply the treatment, and test the effectiveness of the treatments.

Results

Increased yields due to Tipworm mitigation as a result of properly applied treatment are estimated to be between 20 and 30 percent industry-wide. This translates to an increased crop value of \$250,000 to \$400,000 annually for the industry that in the past would have been lost to Tipworm. One site, which historically has had intensive Tipworm infestation, reduced stem damage from 90 percent down to 18 percent.

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 #53

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
2011	31

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
315	Animal Welfare/Well-Being and Protection
601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation

Outcome #54

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
2011	307

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
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

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Climate Change

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
101	Appraisal of Soil Resources	5%			
112	Watershed Protection and Management	10%			
122	Management and Control of Forest and Range Fires	15%			
123	Management and Sustainability of Forest Resources	15%			
125	Agroforestry	15%			
132	Weather and Climate	25%			
403	Waste Disposal, Recycling, and Reuse	10%			
803	Sociological and Technological Change Affecting Individuals, Families, and Communities	5%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	7.0	0.0	0.0	0.0
Actual Paid Professional	3.9	0.0	0.0	0.0
Actual Volunteer	0.9	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
6471	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
92634	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
103804	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

2. Brief description of the target audience

- .. 4-H Volunteers (Adult)
- .. Community Leaders (Adult)
- .. CountyExecutiveCommittee Members (Adult)
- .. Elders or Seniors (Adult)
- .. Extension - staff (Adult)
- .. Extension Staff (Adult)
- .. General Public (Adult)
- .. General Public (Youth)
- .. Home Gardeners (Adult)
- .. Master Gardener Volunteers (Adult)
- .. Ornamental Horticulture Industry (Adult)
- .. Small or Home-Based Business Owners - Current (Adult)
- .. Teachers (Adult)
- .. Volunteers (Adult)
- .. Watershed Stewards (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	3242	2663	206	0

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

Year: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct - 4-H Club, Camp, Project, Program
 Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Direct - Conference/Symposium
 Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Direct - Educational Programs or Projects
 Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Direct - Management teams
 Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Direct - Train the Trainer or Volunteer Training
Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Indirect - Professional, Peer-reviewed, or Refereed, Scholarship
Not reporting on this Output for this Annual Report

Output #7

Output Measure

- Indirect - Publication in the Popular Media
Not reporting on this Output for this Annual Report

Output #8

Output Measure

- Indirect - Media and Internet
Not reporting on this Output for this Annual Report

Output #9

Output Measure

- Multiple-undefined delivery method
Not reporting on this Output for this Annual Report

Output #10

Output Measure

- General activities in support of Climate Change (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	12

Output #11

Output Measure

- Marine Resources Management Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	88

Output #12

Output Measure

- Water Quality Resource Management Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	154

Output #13

Output Measure

- General activities in support of Climate Change (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	9

Output #14

Output Measure

- Water Quality Resource Management Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	393

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Act on the results of a well-water test
2	Conduct a watershed survey
3	Install or enhance conservation plantings using primarily native plants
4	Promote municipal responsibility and action
5	Test well-water
6	Adopt Self Reliance and/or Sustainable Living policies or practices
7	Adopt at least one energy saving practice
8	Adopt environmentally sound practices
9	Adopt lower impact lifestyles
10	Become a "Green Certified" organization
11	Conduct community service or outreach
12	Develop environmentally sound technologies and practices
13	Increase use of Maine-produced natural resources
14	Make better decision regarding natural resource management
15	Make informed decisions about the implementation of techniques that will reduce consumption of fossil fuels
16	Promote healthy relationships
17	Protect or conserve biodiversity and habitat including native plant and animal species

18	Support and mentor others in leadership roles
19	Teach others about living more sustainably
20	Use services of natural resource professionals
21	Manage natural resources to promote land, water and air quality
22	Form/join networks for citizen action and education
23	Demonstrate application of leadership skills
24	Demonstrate civic engagement
25	Assess current and projected impacts of climate change and adopt effective strategies to respond to and mitigate such change
26	Assess community vulnerabilities, needs, and assets
27	Adopt effective community strategies and solutions

Outcome #1

1. Outcome Measures

Act on the results of a well-water test

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Conduct a watershed survey

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Install or enhance conservation plantings using primarily native plants

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Promote municipal responsibility and action

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Test well-water

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Adopt Self Reliance and/or Sustainable Living policies or practices

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Adopt at least one energy saving practice

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Adopt environmentally sound practices

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Adopt lower impact lifestyles

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Become a "Green Certified" organization

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Conduct community service or outreach

Not Reporting on this Outcome Measure

Outcome #12

1. Outcome Measures

Develop environmentally sound technologies and practices

Not Reporting on this Outcome Measure

Outcome #13

1. Outcome Measures

Increase use of Maine-produced natural resources

Not Reporting on this Outcome Measure

Outcome #14

1. Outcome Measures

Make better decision regarding natural resource management

Not Reporting on this Outcome Measure

Outcome #15

1. Outcome Measures

Make informed decisions about the implementation of techniques that will reduce consumption of fossil fuels

Not Reporting on this Outcome Measure

Outcome #16

1. Outcome Measures

Promote healthy relationships

Not Reporting on this Outcome Measure

Outcome #17

1. Outcome Measures

Protect or conserve biodiversity and habitat including native plant and animal species

Not Reporting on this Outcome Measure

Outcome #18

1. Outcome Measures

Support and mentor others in leadership roles

Not Reporting on this Outcome Measure

Outcome #19

1. Outcome Measures

Teach others about living more sustainably

Not Reporting on this Outcome Measure

Outcome #20

1. Outcome Measures

Use services of natural resource professionals

Not Reporting on this Outcome Measure

Outcome #21

1. Outcome Measures

Manage natural resources to promote land, water and air quality

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	840

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Improving Water Quality By Minimizing Lawn Chemicals: Improperly applied fertilizers on home lawns can cause water pollution in freshwater and estuaries. Nutrient rich runoff can result in overgrowth of algae and subsequent oxygen depletion of waters, making water unsuitable for habitat.

What has been done

UMaine Extension researchers, working with local and regional partners, developed, tested, and evaluated outreach information designed to change polluting behaviors in homeowners who over-fertilize their lawns. The group developed neighborhood-specific handout materials to educate people about the path of runoff from their homes to lakes, streams, and bays, and worked with community volunteers to stencil warnings in storm drains that help residents see and connect themselves to their local water systems and sources.

Results

Results: Evaluations of this work showed that 39 percent of respondents have reduced their use of lawn chemicals as a result of the understanding gained, leading to less nutrients getting into local water systems.

4. Associated Knowledge Areas

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

Outcome #22

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
2011	4812

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
122	Management and Control of Forest and Range Fires
123	Management and Sustainability of Forest Resources
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #23

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
2011	240

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
122	Management and Control of Forest and Range Fires
123	Management and Sustainability of Forest Resources
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #24

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
2011	241

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
122	Management and Control of Forest and Range Fires
123	Management and Sustainability of Forest Resources
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #25

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	72

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
122	Management and Control of Forest and Range Fires
123	Management and Sustainability of Forest Resources
132	Weather and Climate
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #26

1. Outcome Measures

Assess community vulnerabilities, needs, and assets

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	7

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
122	Management and Control of Forest and Range Fires
123	Management and Sustainability of Forest Resources
125	Agroforestry
403	Waste Disposal, Recycling, and Reuse
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #27

1. Outcome Measures

Adopt effective community strategies and solutions

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	697

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Sign of the Seasons: Climate change is affecting the environment around us. In order to fully understand these changes scientists need as much data as possible.

What has been done

The Signs of the Season program is a program of UMaine Extension and Maine Sea Grant, and with other Maine-based partners is part of an international effort to train citizens to observe and record the seasonal timing of life cycle events to build a comprehensive database of information for scientists. This year we have contributed more than 5,000 observations that will become part of a permanent database that scientists can use to monitor how living things are responding to changes and micro-changes in our climate. Nine Signs of the Season program trainings have been done throughout Maine during 2011.

Results

A network of Master Gardeners, 4-H youth, coastal groups, and citizens are engaging in the Sign of the Seasons program to add to the body of scientific knowledge related to phenology, the scientific study of seasonal changes. Through this group, Maine is an important element for data collection for the USA National Phenology Network. This knowledge and citizen participation will allow Maine to be better prepared and able to adapt to environmental changes. With this data, the state can make preparations to adapt our lifestyle with the climate to keep our agricultural, economic, and cultural Maine prosperous.

4. Associated Knowledge Areas

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

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Sustainable Energy

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
111	Conservation and Efficient Use of Water	8%			
112	Watershed Protection and Management	9%			
123	Management and Sustainability of Forest Resources	15%			
124	Urban Forestry	4%			
125	Agroforestry	14%			
133	Pollution Prevention and Mitigation	8%			
136	Conservation of Biological Diversity	5%			
402	Engineering Systems and Equipment	9%			
403	Waste Disposal, Recycling, and Reuse	9%			
605	Natural Resource and Environmental Economics	11%			
608	Community Resource Planning and Development	8%			
	Total	100%			

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	4.9	0.0	0.0	0.0
Actual Paid Professional	0.6	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
17824	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
52712	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
24907	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

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

2. Brief description of the target audience

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

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	484	212462	0	0

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

Year: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct - Consultation
 Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Direct - Conference/Symposium
 Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Direct - Educational Programs or Projects
 Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Direct - Train the Trainer or Volunteer Training
 Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Multiple-undefined delivery method
 Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Indirect - Applied Research

Not reporting on this Output for this Annual Report

Output #7

Output Measure

- Indirect - Professional, Peer-reviewed, or Refereed, Scholarship
Not reporting on this Output for this Annual Report

Output #8

Output Measure

- Indirect - Publication in the Popular Media
Not reporting on this Output for this Annual Report

Output #9

Output Measure

- Indirect - Media and Internet
Not reporting on this Output for this Annual Report

Output #10

Output Measure

- Farm Energy Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	4

Output #11

Output Measure

- General Sustainable Energy Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	6

Output #12

Output Measure

- Home Energy Conservation (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	7

Output #13

Output Measure

- Farm Energy Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from

Training)

Year	Actual
2011	3

Output #14

Output Measure

- Home Energy Conservation (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	3581

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Conduct community service or outreach
2	Evaluate the potential of new and non-traditional crops and varieties for profitable production in Maine
3	Test new production techniques
4	Adopt appropriate practices
5	Adopt at least one energy saving practice
6	Adopt lower impact lifestyles
7	Assess community needs
8	Convert to Alternative Energy Systems of Agriculture
9	Create demonstration model
10	Develop a shared vision for the future
11	Develop public policies or practices
12	Increase insulation value in home
13	Increase use of Maine-produced natural resources
14	Install heating systems that use less energy
15	Make informed decision about alternate or alternative transportation
16	Make informed decisions about purchasing alternative energy
17	Make informed decisions about the implementation of techniques that will reduce consumption of fossil fuels

18	Reduce transportation energy use
19	Reduce use of fossil fuels
20	Reduce waste stream
21	Reduces greenhouse gasses
22	Start viable alternative enterprises based on sustainable use of natural resources (forest, marine, agriculture)
23	Use Bio-fuels
24	Adopt appropriate strategies based on research-based information
25	Obtain an energy audit or conduct a self audit
26	Implement techniques to reduce energy consumption
27	Evaluate alternative sources of energy and act accordingly
28	Convert to non-fossil-based energy fuels
29	Decide not to convert to/install an inefficient new source of energy (example: installing a wind turbine in a poor location)
30	Research and evaluate novel energy production methods, and act accordingly
31	Make a decision to install or not install a novel energy production method
32	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability

Outcome #1

1. Outcome Measures

Conduct community service or outreach

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Evaluate the potential of new and non-traditional crops and varieties for profitable production in Maine

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Test new production techniques

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Adopt appropriate practices

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Adopt at least one energy saving practice

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Adopt lower impact lifestyles

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Assess community needs

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Convert to Alternative Energy Systems of Agriculture

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Create demonstration model

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Develop a shared vision for the future

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Develop public policies or practices

Not Reporting on this Outcome Measure

Outcome #12

1. Outcome Measures

Increase insulation value in home

Not Reporting on this Outcome Measure

Outcome #13

1. Outcome Measures

Increase use of Maine-produced natural resources

Not Reporting on this Outcome Measure

Outcome #14

1. Outcome Measures

Install heating systems that use less energy

Not Reporting on this Outcome Measure

Outcome #15

1. Outcome Measures

Make informed decision about alternate or alternative transportation

Not Reporting on this Outcome Measure

Outcome #16

1. Outcome Measures

Make informed decisions about purchasing alternative energy

Not Reporting on this Outcome Measure

Outcome #17

1. Outcome Measures

Make informed decisions about the implementation of techniques that will reduce consumption of fossil fuels

Not Reporting on this Outcome Measure

Outcome #18

1. Outcome Measures

Reduce transportation energy use

Not Reporting on this Outcome Measure

Outcome #19

1. Outcome Measures

Reduce use of fossil fuels

Not Reporting on this Outcome Measure

Outcome #20

1. Outcome Measures

Reduce waste stream

Not Reporting on this Outcome Measure

Outcome #21

1. Outcome Measures

Reduces greenhouse gasses

Not Reporting on this Outcome Measure

Outcome #22

1. Outcome Measures

Start viable alternative enterprises based on sustainable use of natural resources (forest, marine, agriculture)

Not Reporting on this Outcome Measure

Outcome #23

1. Outcome Measures

Use Bio-fuels

Not Reporting on this Outcome Measure

Outcome #24

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
2011	598

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

No-till Corn Production Saves Energy Costs: Maine dairy farmers are facing increased fuel and fertilizer costs along with increased scrutiny of their environmental impact. Long-term sustainability requires profitable farms that are environmentally sound, with good crop rotations and quality soils. Corn silage has historically been a major component of food production for animals on dairy farms. No-till corn production along with growing winter cover crops offers a fuel-efficient and soil-building system that can improve the sustainability of corn silage production in the Northeast.

What has been done

UMaine Extension and Extension partners from Vermont and Massachusetts collaborated to establish and demonstrate fuel and nutrient efficient methods to grow silage corn using no-till techniques and cover crops. The project involved research and variety trials on experiment station farms, and on-farm demonstrations in all three states. Workshops, field days, and publications were produced to demonstrate no-till techniques.

Results

Research projects with 14 cooperating farmers on more than 840 acres of silage corn planted using no-till production techniques resulted in between 15 to 30 tons/acre, comparable to yields and quality from their conventionally tilled corn fields. Due to the minimized use of time and fuel, these 14 farms collectively saved \$42,000 in fuel, labor, and equipment costs by reducing tillage operations. This equates to an average of \$50/ acre, or an average of \$3,000 per farm.

4. Associated Knowledge Areas

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

Outcome #25

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
2011	3

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
124	Urban Forestry
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
608	Community Resource Planning and Development

Outcome #26

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
2011	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
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111	Conservation and Efficient Use of Water
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
124	Urban Forestry
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #27

1. Outcome Measures

Evaluate alternative sources of energy and act accordingly

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	18

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment

403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #28

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
2011	52

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
112	Watershed Protection and Management
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
608	Community Resource Planning and Development

Outcome #29

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	8

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
123	Management and Sustainability of Forest Resources
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #30

1. Outcome Measures

Research and evaluate novel energy production methods, and act accordingly

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	17

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #31

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
2011	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
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

Outcome #32

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
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2011

7910

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
133	Pollution Prevention and Mitigation
402	Engineering Systems and Equipment
403	Waste Disposal, Recycling, and Reuse
605	Natural Resource and Environmental Economics
608	Community Resource Planning and Development

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Other (Climate change)

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Childhood Obesity

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: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	7.0	0.0	0.0	0.0
Actual Paid Professional	40.1	0.0	0.0	0.0
Actual Volunteer	11.9	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
119137	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
1282018	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1635208	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

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

2. Brief description of the target audience

- .. 4-H Volunteers (Adult)
- .. 4-H Youth (Youth)
- .. Community Leaders (Adult)
- .. Eat Well Participants (Adult)
- .. Eat Well Participants (Youth)
- .. Extension - staff (Adult)
- .. Extension Staff (Adult)
- .. Families (Adult)
- .. General Public (Adult)
- .. General Public (Youth)
- .. Parent Educators (Adult)
- .. Parents (Adult)
- .. Teachers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	17394	218	19140	539

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

Year: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct - 4-H Club, Camp, Project, Program
 Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Direct - Conference/Symposium
 Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Direct - Consultation
 Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Direct - Educational Programs or Projects
 Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Direct - Scholarship
Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Direct - Train the Trainer or Volunteer Training
Not reporting on this Output for this Annual Report

Output #7

Output Measure

- Indirect - Professional, Peer-reviewed, or Refereed Scholarship
Not reporting on this Output for this Annual Report

Output #8

Output Measure

- Indirect - Publication in the Popular Media
Not reporting on this Output for this Annual Report

Output #9

Output Measure

- Eat Well (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	26052

Output #10

Output Measure

- General Activities to address Childhood Obesity (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	62

Output #11

Output Measure

- Nutrition Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	129

Output #12

Output Measure

- Eat Well (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	2

Output #13

Output Measure

- General activities to address Childhood Obesity (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	32

Output #14

Output Measure

- Nutrition Education (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Adopt behaviors to prevent or minimize complications of chronic disease
2	Adopt the USDA dietary guidelines and the food guide pyramid
3	Assume personal responsibility for health
4	Balance roles, responsibilities, and stress
5	Develop skills that promote healthy relationships
6	Distribute nutrition education materials and promotional information about the Maine Family Nutrition Program
7	Increase capacity to establish goals or make decisions
8	Integrate regular physical activity into daily life
9	Make better decisions regarding health and health care
10	Make better decisions regarding healthy lifestyle
11	Work effectively with diverse groups
12	Work productively in a team
13	Adopt healthy dietary practices (consume nutrient-rich foods, follow current Dietary Guidelines for Americans or DASH, etc)
14	Increase consumption of healthful, locally-grown and -produced food (farm to school program, food preservation, etc.)
15	Reduce consumption of highly processed foods (fast foods, convenience foods, etc.)
16	Apply knowledge of risks to food safety
17	Adopt food safety practices

18	Demonstrate application of subject matter knowledge
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Outcome #1

1. Outcome Measures

Adopt behaviors to prevent or minimize complications of chronic disease

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Adopt the USDA dietary guidelines and the food guide pyramid

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Assume personal responsibility for health

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Balance roles, responsibilities, and stress

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Develop skills that promote healthy relationships

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Distribute nutrition education materials and promotional information about the Maine Family Nutrition Program

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Increase capacity to establish goals or make decisions

Not Reporting on this Outcome Measure

Outcome #8

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
2011	9969

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 #9

1. Outcome Measures

Make better decisions regarding health and health care

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Make better decisions regarding healthy lifestyle

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Work effectively with diverse groups

Not Reporting on this Outcome Measure

Outcome #12

1. Outcome Measures

Work productively in a team

Not Reporting on this Outcome Measure

Outcome #13

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
2011	9976

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Mitigating Health Challenges Through Nutrition Education: In Maine, approximately 60 percent of the adults and than 25 percent of children age 10-17 are overweight or obese. Low-income children are twice as likely to be overweight or obese as their middle-income peers. In 2009, 24.6 percent of Maine children lived in a household that did not have access to enough food for an active, healthy life. More than 114,000 Maine households received monthly Supplemental Nutrition Assistance Program (SNAP) benefits in FY10. The high rate of obesity and food insecurity demonstrates that poor choice and lack of nutritious food has a significant impact on Maine?s population.

What has been done

UMaine Extension?s Eat Well Nutrition Education Program provided limited-income youth, individuals, and families with research-based interactive education on a variety of topics in homes, small community groups, schools, or through the Eat Well By Mail program. During FY11, our nutrition staff provided direct nutrition education to 8,274 adults (2,316 in a consecutive course-based setting), and to 15,339 youth aged 2-18.

Results

Of the 2,316 adults who participated in consecutive nutrition education, 1,159 adults completed and graduated from the Eat Well Program. Graduates demonstrated improved eating habits and food security after participating in the program:

?42 percent of participants make healthier choices when deciding what to feed their family.

?40 percent of participants now prepare food without adding salt.

?55 percent of participants now use the ?Nutrition Facts? on food labels to make healthier food choices.

?52 percent of participants now plan their meals in advance.

?45 percent of participants now compare prices when shopping for food.

?36 percent of participants no longer ran out of food at the end of the month.

In addition, Eat Well participants lowered mean sodium intake by 221milligrams. Eat Well graduates also lowered average calorie intake by 216 calories at time of graduation. If that calorie reduction is sustained for one year, it could result in a 22-pound weight loss for that individual.

4. Associated Knowledge Areas

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

Outcome #14

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
2011	9113

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

FoodCorps: Increasing concern about the health and weight of young people has inspired a national farm-to-school movement that enables schools to provide locally grown fresh and nutritious fruits and vegetables to kids. Connecting with local farmers also gives young people the opportunity to learn more about food systems, growing their own food in school gardens, and how buying locally improves the local economy.

What has been done

UMaine Extension and community partners provide farm-to-school programming through FoodCorps, a national program that incorporates stipend volunteer service to schools by offering nutrition education, garden education, and helping schools access high quality local foods.

Results

In this inaugural year, our six FoodCorps Service Members provided 3,489 students with garden-based food and nutrition lessons in partnership with UMaine Extension nutrition paraprofessionals, introducing students to simple, delicious foods they can make at school or at home such as kale "chips" and carrot "fries". Students actively participated in building or revitalizing fifty-eight school and community gardens with FoodCorps members, setting the stage

for improved access to nutritious food for schools and communities in 2013. FoodCorps members have successfully attained \$24,000 in nutrition-related grants for Maine schools to date. As a result of this new FoodCorps program, kids are learning how to make healthier food choices and increasing their understanding of the food system and support of local farms.

4. Associated Knowledge Areas

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

Outcome #15

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
2011	9197

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

We Can! (Ways to Enhance Children's Activity and Nutrition): Approximately 60 percent of adults in Maine have body weights that are high enough to increase their risk for diseases such as diabetes, heart disease, and some forms of cancer - this is the highest rate in New England. Over 25 percent of Maine middle school and high school students report weights that are above the healthy range. According to a study sponsored by Blue Cross and Blue Shield of Maine, medical costs, worker's compensation, and lost productivity due to poor nutrition and inactivity cost Maine \$2.56 billion per year.

What has been done

UMaine Extension has collaborated with the National Institutes of Health and partners throughout Maine to implement We Can! (Ways to Enhance Children's Activity and Nutrition!). The project

began in 2010 with a multi-day training attended by over 110 participants. Innovative science-based programs were used to encourage parents, caregivers, and children to increase physical activity, improve eating habits, understand food marketing, and reduce time spent watching television and playing video games. We Can! programs have been implemented in nine of Maine's 16 counties.

Results

Maine youth engaged in thousands of hours of physical activity during 2011 as part of We Can! Analysis using established averages of \$4,000/person/year in savings when obesity and overweight is postponed for only one year, and assuming a success rate of between 10 and 20 percent, establishes that between \$1.2 million and \$2.4 million was saved in health associated costs overall as a result of participation with We Can! The project received national recognition as a model for successful collaboration between the National Institutes of Health and UMaine Extension.

4. Associated Knowledge Areas

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

Outcome #16

1. Outcome Measures

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
2011	8537

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
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

Outcome #17

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
2011	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
724	Healthy Lifestyle

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

Outcome #18

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
2011	5686

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
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins
724	Healthy Lifestyle
802	Human Development and Family Well-Being
803	Sociological and Technological Change Affecting Individuals, Families, and Communities

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Food Safety

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: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	1.5	0.0	0.0	0.0
Actual Paid Professional	3.5	0.0	0.0	0.0
Actual Volunteer	0.6	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
63692	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
250737	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
163931	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 Safety (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- .. General Food Safety Activities (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

- .. 4-H Volunteers (Adult)
- .. 4-H Youth (Youth)
- .. Agricultural Producers (Adult)
- .. Community Leaders (Adult)
- .. Disabled Adults (Adults)
- .. Eat Well Participants (Adult)
- .. Elders or Seniors (Adult)
- .. General Public (Adult)
- .. Home Gardeners (Adult)
- .. Senior Companion Program Volunteers (Adult)
- .. Small or Home-Based Business Owners - Current (Adult)
- .. Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	3780	285	0	0

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

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct - Consultation
Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Direct - Educational Programs or Projects
Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Direct - Scholarship
Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Indirect - Media and Internet
Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Indirect - Publication in the Popular Media
Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Multiple-undefined delivery method
Not reporting on this Output for this Annual Report

Output #7

Output Measure

- Food Preservation (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year

Actual

2011 236

Output #8

Output Measure

- Food Safety (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	274

Output #9

Output Measure

- General Food Safety Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	10

Output #10

Output Measure

- Specialty Food Products (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	2

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Adopt HACCP and bio-security plans
2	Adopt behaviors to prevent or minimize complications of chronic disease
3	Adopt food safety practices
4	Adopt the USDA dietary guidelines and the food guide pyramid
5	Participate in Maine cattle health assurance program
6	Adopt appropriate handling and storage technologies
7	Adopt appropriate technologies
8	Develop educational programs that address health and safety issues
9	Practice safety
10	Assume personal responsibility for health
11	Increase consumption of locally produced foods
12	Explore new product development
13	Adopt GAP II
14	Adopt healthy dietary practices (consume nutrient-rich foods, follow current Dietary Guidelines for Americans or DASH, etc)
15	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability
16	Apply knowledge of risks to food safety
17	Adopt specific food safety plans and/or policies (HACCP, GAP, SOP, SSOP, IPM, etc)

18	Train, support and mentor others in leadership roles
19	Engage positively in their community
20	Increase career aspirations & goal setting
21	Increase life skills (healthy relationships, decision making, problem solving, parenting, lifespan development, communication, etc)
22	Demonstrate application of subject matter knowledge

Outcome #1

1. Outcome Measures

Adopt HACCP and bio-security plans

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Adopt behaviors to prevent or minimize complications of chronic disease

Not Reporting on this Outcome Measure

Outcome #3

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
2011	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies
502	New and Improved Food Products
504	Home and Commercial Food Service

Outcome #4

1. Outcome Measures

Adopt the USDA dietary guidelines and the food guide pyramid

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Participate in Maine cattle health assurance program

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Adopt appropriate handling and storage technologies

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Adopt appropriate technologies

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Develop educational programs that address health and safety issues

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Practice safety

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Assume personal responsibility for health

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Increase consumption of locally produced foods

Not Reporting on this Outcome Measure

Outcome #12

1. Outcome Measures

Explore new product development

Not Reporting on this Outcome Measure

Outcome #13

1. Outcome Measures

Adopt GAP II

Not Reporting on this Outcome Measure

Outcome #14

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
2011	9976

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 #15

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
2011	7910

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 #16

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
2011	8537

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 #17

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	141

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

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

What has been done

UMaine Extension provides food safety training programs that include but are not limited to food preservation, cooking for crowds, general food safety for the home, industry food sanitation, good agricultural practices, and Hazard Analysis Critical Control Points (HACCP) certification for meat, poultry, and seafood. These types of programs directly reached and trained over 8,100 people in Maine during the past year.

Results

We estimate that more than 50,000 consumers of home prepared and preserved food, and those attending public and community events have a reduced potential to contract foodborne illness due trainings provided by our food safety program. Further, more than 500,000 statewide, national, and international consumers of food produced by New England-based retail and commercial food businesses have a reduced potential to contract foodborne illness as a result of trainings provided by our food safety program. These results are decreasing the occurrences of foodborne illness and increasing overall health in Maine and wherever Maine foods are sold and consumed.

4. Associated Knowledge Areas

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

Outcome #18

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
2011	91

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 #19

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
2011	4926

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 #20

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
2011	58

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 #21

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
2011	16611

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 #22

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
2011	5686

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Sustainable Community & Economic Development

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: 2011	Extension		Research	
	1862	1890	1862	1890
Actual Paid Professional	7.4	0.0	0.0	0.0
Actual Volunteer	0.8	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
182680	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
672059	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
274225	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- .. 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 Workers (Adult)
- .. Blueberry Growers (Adult)
- .. Community Leaders (Adult)
- .. CountyExecutiveCommittee Members (Adult)
- .. Extension - staff (Adult)
- .. Extension Staff (Adult)
- .. Families (Adult)
- .. Forestland Owner (Adult)
- .. General Public (Adult)
- .. Maple Producers (Adult)
- .. Small or Home-Based Business Owners - Current (Adult)
- .. Small or Home-Based Business Owners - Potential (Adult)
- .. Teachers (Adult)
- .. Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	4047	15563	23	0

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

Patent Applications Submitted

Year: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- General activities in support of Sustainable Community and Economic Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	509

Output #2

Output Measure

- Personal and Family Resource Management Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	82

Output #3

Output Measure

- Resource Development and Management for Sustainable Communities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	122

Output #4

Output Measure

- Small and Home Based Business Management Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	1172

Output #5

Output Measure

- General activities in support of Sustainable Community and Economic Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	4318

Output #6

Output Measure

- Resource Development and Management for Sustainable Communities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	20

Output #7

Output Measure

- Small and Home Based Business Management Education (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	10285

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Demonstrate application of subject matter knowledge
2	Adopt appropriate strategies based on research-based information
3	Demonstrate application of leadership skills
4	Demonstrate practices that improve efficiency, reduce inputs, or increase profitability
5	Apply knowledge of risks to food safety
6	Adopt food safety practices
7	Increase life skills (healthy relationships, decision making, problem solving, parenting, lifespan development, communication, etc)
8	Reduce carbon footprint
9	Adopt sustainable living practices
10	Train, support and mentor others in leadership roles
11	Demonstrate civic engagement
12	Increase consumption of locally produced foods
13	Strengthen community capacities, human capital, building partnerships
14	Adopt sound business management practices
15	Increase profitability
16	Create jobs
17	Increase career aspirations and goal setting

18	Assess community needs and assets
19	Adopt effective community strategies
20	Mobilize community capacities, assets or resources
21	Assess current and projected impacts of climate change and adopt effective strategies to respond to and mitigate such change
22	Develop and assess a financial plan for managing household resources
23	Adopt a sustainable household budget
24	Make informed financial decisions
25	Model positive financial management behaviors to others
26	Demonstrate leadership skills

Outcome #1

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
2011	5686

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 #2

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
2011	598

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

Demonstrate application of leadership skills

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	114

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 #4

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
2011	7910

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 #5

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
2011	8537

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #6

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
2011	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #7

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
2011	16611

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development
801	Individual and Family Resource Management

805 Community Institutions, Health, and Social Services

Outcome #8

1. Outcome Measures

Reduce carbon footprint

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	3401

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #9

1. Outcome Measures

Adopt sustainable living practices

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	6892

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #10

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
2011	5578

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 #11

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
2011	5547

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #12

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
2011	222

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

Outcome #13

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
2011	1687

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 #14

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
2011	917

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 #15

1. Outcome Measures

Increase profitability

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	193

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 #16

1. Outcome Measures

Create jobs

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	70

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

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
2011	15

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #18

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
2011	230

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #19

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
2011	102

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #20

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
2011	57

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Community Gardening: Many city dwellers do not have access to a suitable location to cultivate their own personal garden and benefit from high-quality, low-cost nutritious foods. Community gardens not only offer a place for people to grow vegetables, flowers, and herbs, they promote strong communities and healthy citizens.

What has been done

Based on a community needs assessment, UMaine Extension worked with city officials in Bangor, Maine to alter zoning and establish a long-term community garden on city property. We facilitated a membership structure and policies, and then instituted a series of educational events that included information about soil preparation, garden design, gardening techniques, pest management, and nutrition.

Results

The Bangor Community Garden currently consists of over 60 raised beds located in a densely populated neighborhood in the heart of Bangor. Over 80 adults are active in the garden and at least 10 youth garden in their own free plot. Accessible raised beds service one wheelchair-bound member and another with mobility challenges. At least 8 of the beds are devoted to growing and donating food for the hungry. Members have been able to add an important link to the food systems that serves the needs of their families and the community through access to high quality, locally grown, nutritious food. The construction of 80 additional beds has recently been approved in order to address the high demand.

4. Associated Knowledge Areas

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

Outcome #21

1. Outcome Measures

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

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	22

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
----------------	-----------------------

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

Outcome #22

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
2011	89

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 #23

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
2011	250

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 #24

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
2011	162

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 #25

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
2011	59

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
----------------	-----------------------

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

Outcome #26

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
2011	22

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 7

1. Name of the Planned Program

Sustainable Youth, Families, and Communities

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	20%			
724	Healthy Lifestyle	60%			
802	Human Development and Family Well-Being	15%			
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: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	29.9	0.0	0.0	0.0
Actual Paid Professional	38.7	0.0	0.0	0.0
Actual Volunteer	34.3	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
726406	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
2685177	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1486867	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- .. Community Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- .. 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)
- .. Positive Youth Development
- .. Senior Companion Program (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- .. Youth Development Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)
- .. Youth Development 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)
- .. Community Leaders (Adult)
- .. CountyExecutiveCommittee Members (Adult)
- .. Extension - staff (Adult)
- .. Extension Staff (Adult)
- .. Families (Adult)
- .. Families (Youth)
- .. General Public (Adult)
- .. General Public (Youth)
- .. Parent Educators (Adult)
- .. Parents (Adult)
- .. Senior Companion Program Volunteers (Adult)
- .. Teachers (Adult)
- .. Volunteers (Adult)

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	5486	1176	20406	1462

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

Year: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Direct - 4-H Club, Camp, Project, Program
 Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Direct - Collaborative or Cooperative Effort
 Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Direct - Consultation
 Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Direct - Conference/Symposium
 Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Direct - Educational Programs or Projects
Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Indirect - Applied Research
Not reporting on this Output for this Annual Report

Output #7

Output Measure

- Direct - Train the Trainer or Volunteer Training
Not reporting on this Output for this Annual Report

Output #8

Output Measure

- Direct - Scholarship
Not reporting on this Output for this Annual Report

Output #9

Output Measure

- Indirect - Internet
Not reporting on this Output for this Annual Report

Output #10

Output Measure

- Indirect - Professional, Peer-reviewed, or Refereed, Scholarship
Not reporting on this Output for this Annual Report

Output #11

Output Measure

- Indirect - Publication in the Popular Media
Not reporting on this Output for this Annual Report

Output #12

Output Measure

- Community Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	312

Output #13

Output Measure

- General Activities-Sustainable Youth, Family and Community Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	2175

Output #14

Output Measure

- Human Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	302

Output #15

Output Measure

- Parenting Education (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	39

Output #16

Output Measure

- Positive Youth Development (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	289

Output #17

Output Measure

- Senior Companion Program (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	46

Output #18

Output Measure

- Community Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	40

Output #19

Output Measure

- General Activities-Sustainable Youth, Family and Community Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	61

Output #20

Output Measure

- Human Development (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	11

Output #21

Output Measure

- Parenting Education (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	2115

Output #22

Output Measure

- Youth Development Activities (Direct; Club, Conference, Program, Consultation, Scholarship, or Training)

Year	Actual
2011	170

Output #23

Output Measure

- Youth Development Activities (Indirect; Applied Research, Media, Internet, Publication, Resulting from Training)

Year	Actual
2011	11

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Adopt business management practices
2	Adopt lower impact lifestyles
3	Adopt record-keeping system
4	Assess community needs
5	Conduct community service or outreach using science and technology skills
6	Create learning opportunities based on principles of positive human development
7	Develop a business plan
8	Develop skills that promote healthy relationships
9	Develop tourism plan
10	Develop a shared vision for the future
11	Engage positively in their community
12	Establish a business
13	Expand a business
14	Engage in leadership development
15	Facilitate planning and decision-making processes that create and sustain healthy communities
16	Handle animals safely
17	Identify and solve problems using science and technology skills

18	Implement effective projects
19	Increase capacity to achieve goals
20	Increase capacity to function as a group
21	Inventory community assets
22	Lead effectively
23	Make better decisions regarding healthy lifestyle
24	Operate equipment safely
25	Participate in leadership roles
26	Organize community coalitions and working groups
27	Promote healthy relationships
28	Provide learning opportunities for groups or organizations
29	Reduce or eliminate gender stereotyping
30	Support and mentor others in leadership roles
31	Treat all people with dignity and respect
32	Use clear and effective communication skills
33	Develop a marketing plan
34	Demonstrate application of subject matter knowledge
35	Demonstrate application of leadership skills
36	Apply knowledge of risks to food safety
37	Adopt food safety practices

38	Increase life skills (healthy relationships, decision making, problem solving, parenting, lifespan development, communication, etc)
39	Manage natural resources to promote land, water and air quality
40	Adopt healthy dietary practices (consume nutrient-rich foods, follow current Dietary Guidelines for Americans or DASH, etc)
41	Integrate regular physical activity into daily life
42	Reduce consumption of highly processed foods (fast foods, convenience foods, etc.)
43	Train, support and mentor others in leadership roles
44	Increase career aspirations & goal setting
45	Reduce carbon footprint
46	Reduce waste
47	Adopt sustainable living practices
48	Demonstrate civic engagement
49	Assess community needs and assets
50	Strengthen community capacities, human capital, building partnerships
51	Adopt effective community strategies

Outcome #1

1. Outcome Measures

Adopt business management practices

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Adopt lower impact lifestyles

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Adopt record-keeping system

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Assess community needs

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Conduct community service or outreach using science and technology skills

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Create learning opportunities based on principles of positive human development

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Develop a business plan

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Develop skills that promote healthy relationships

Not Reporting on this Outcome Measure

Outcome #9

1. Outcome Measures

Develop tourism plan

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Develop a shared vision for the future

Not Reporting on this Outcome Measure

Outcome #11

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
2011	4967

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 #12

1. Outcome Measures

Establish a business

Not Reporting on this Outcome Measure

Outcome #13

1. Outcome Measures

Expand a business

Not Reporting on this Outcome Measure

Outcome #14

1. Outcome Measures

Engage in leadership development

Not Reporting on this Outcome Measure

Outcome #15

1. Outcome Measures

Facilitate planning and decision-making processes that create and sustain healthy communities

Not Reporting on this Outcome Measure

Outcome #16

1. Outcome Measures

Handle animals safely

Not Reporting on this Outcome Measure

Outcome #17

1. Outcome Measures

Identify and solve problems using science and technology skills

Not Reporting on this Outcome Measure

Outcome #18

1. Outcome Measures

Implement effective projects

Not Reporting on this Outcome Measure

Outcome #19

1. Outcome Measures

Increase capacity to achieve goals

Not Reporting on this Outcome Measure

Outcome #20

1. Outcome Measures

Increase capacity to function as a group

Not Reporting on this Outcome Measure

Outcome #21

1. Outcome Measures

Inventory community assets

Not Reporting on this Outcome Measure

Outcome #22

1. Outcome Measures

Lead effectively

Not Reporting on this Outcome Measure

Outcome #23

1. Outcome Measures

Make better decisions regarding healthy lifestyle

Not Reporting on this Outcome Measure

Outcome #24

1. Outcome Measures

Operate equipment safely

Not Reporting on this Outcome Measure

Outcome #25

1. Outcome Measures

Participate in leadership roles

Not Reporting on this Outcome Measure

Outcome #26

1. Outcome Measures

Organize community coalitions and working groups

Not Reporting on this Outcome Measure

Outcome #27

1. Outcome Measures

Promote healthy relationships

Not Reporting on this Outcome Measure

Outcome #28

1. Outcome Measures

Provide learning opportunities for groups or organizations

Not Reporting on this Outcome Measure

Outcome #29

1. Outcome Measures

Reduce or eliminate gender stereotyping

Not Reporting on this Outcome Measure

Outcome #30

1. Outcome Measures

Support and mentor others in leadership roles

Not Reporting on this Outcome Measure

Outcome #31

1. Outcome Measures

Treat all people with dignity and respect

Not Reporting on this Outcome Measure

Outcome #32

1. Outcome Measures

Use clear and effective communication skills

Not Reporting on this Outcome Measure

Outcome #33

1. Outcome Measures

Develop a marketing plan

Not Reporting on this Outcome Measure

Outcome #34

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
2011	5686

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 #35

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
2011	2088

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 #36

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
2011	8537

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 #37

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
2011	8130

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

Outcome #38

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
2011	16611

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Maine 4-H Camps and Learning Centers: Research shows broad benefits to children who participate in outdoor-based classrooms. These children show significant gains in social studies, science, language arts, and math. They show increases in self-esteem, problem solving, motivation to learn, and valuable life skills. Youth who participate in outdoor and experiential education are more likely to be involved in their communities and less likely to get into trouble or make choices that could negatively impact their lives.

What has been done

UMaine Extension provides food safety training programs that include but are not limited to food preservation, cooking for crowds, general food safety for the home, industry food sanitation, good agricultural practices, and Hazard Analysis Critical Control Points (HACCP) certification for meat, poultry, and seafood. These types of programs directly reached and trained over 8,100 people in Maine during the past year.

Results

Results have been significant related to youth attendance, school academic performance, standardized testing, and attitudes toward learning. One example is a pilot with 35 middle school 7th and 8th grade youth who been attending a STEM program for a minimum of 20 percent of their school year at our Bryant Pond Camp, and piloting new hands-on experiential curriculum while back in the classroom. Participants were selected based on failing two or more subjects and exhibiting significant high-risk behavior. By the end of the second quarter all of the students were passing all subjects, many on honor role for the first time, attendance records demonstrated over 614 hours of education saved by these same students over the same time period last year. In addition standardized test scores rose between 4-21 points for 24 of the 31 students tested - with an average growth of over 6.4 points. Significant gain has been reported by teachers in terms of student engagement, goal setting, and a desire to learn. One middle school teacher said, "Students are engaged for the first time in their lives, they care about how they are doing, they finally see themselves with goals for next year. This has been truly amazing growth."

4. Associated Knowledge Areas

KA Code	Knowledge Area
608	Community Resource Planning and Development

Outcome #39

1. Outcome Measures

Manage natural resources to promote land, water and air quality

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	840

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 #40

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
2011	9976

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 #41

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
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2011 9969

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 #42

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
2011	9197

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #43

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
2011	5355

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 #44

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
2011	4395

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

4-H Science, Engineering, and Technology (SET): America faces a future of intense global competition with a startling shortage of scientists. According to the National Assessment of Educational Progress (NAEP) only 21 percent of high school seniors are proficient in science and only 1 percent performed at an advanced level. Young people need to be exposed to science, engineering, and technology in ways that are relevant to their lives and help them develop lifelong passions for these disciplines.

What has been done

4-H SET programs in Maine provide youth with hands-on learning experiences to develop passions that will help to prepare the next generation of scientist-leaders. In 2011 youth enrolled in Maine 4-H completed more than 14,000 SET projects through 4-H clubs, 4-H camps, afterschool and school enrichment programs, and capacity building training for 4-H volunteers. Many projects were integrated within communities to address local problems, with 4-H youth as volunteers working towards discovering and implementing solutions.

Results

In 2011 we implemented the 4-H Afterschool Academy and trained 400 afterschool providers throughout the state in SET curriculum methods. The afterschool providers reached approximately 18,000 youth, 50 percent of whom have profoundly increased their exposure to science-based project learning.

In the first year of our Tech Wizards program, teams of students are helping build underwater submersible robotic vessels based on a design by students from the Massachusetts Institute of Technology. The robots are used to seek out invasive aquatic plant species that are threatening Maine's lakes and waterways ? especially Eurasian Milfoil which has caused millions of dollars in damage and mitigation expense in Maine. Youth then use the DASH (diver assisted suction harvester) boat and root out the invaders. Their strategies have been implemented across Maine

with positive results. One lake association president says that without the work of 4-H kids they would be losing the battle against Milfoil. Youth contributed more than 4,000 hours during 2011 toward implementing science-, engineering-, and technology-based projects that addressed community issues and implemented successful solutions.

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 #45

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
2011	3401

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 #46

1. Outcome Measures

Reduce waste

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2011	5814

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 #47

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
2011	6892

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 #48

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
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2011 5547

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

Outcome #49

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
2011	446

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

Outcome #50

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
2011	1687

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The Fundamental Tradition of the Maine Homemakers: The Maine Extension Homemakers Program is a Maine tradition. For nearly 100 years Maine Homemakers have been engaged in strengthening communities. The program's goal is to develop leadership through support for worthy community causes, and to promote and extend UMaine Extension's educational programs throughout Maine.

What has been done

During 2011 more than 700 Maine Extension Homemakers in 10 counties offered community education programs in areas such as food safety, personal safety, nutrition and health, gardening and the environment, financial planning, consumer issues, family relationships, and cultural and creative arts. At the same time they were actively involved in their communities donating their time, money, and materials to improve the lives of community members.

Results

The UMaine Extension Homemakers offered 192 educational programs throughout the state of Maine last year. Extension Homemakers have improved the quality of life in their communities by volunteering more than 18,900 hours for local community agencies such as food pantries, health advocate organizations, libraries, hospitals, homeless shelters, assisted living facilities, animal shelters, fire departments, schools, shelters for homeless teens, and shelters for abused families. The estimated dollar equivalent of their volunteer hours and fundraising efforts during 2011 was over \$320,000.

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 #51

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
2011	3849

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

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

V(H). Planned Program (External Factors)

External factors which affected outcomes

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

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}

V(A). Planned Program (Summary)

Program # 8

1. Name of the Planned Program

Administrative Plan of Work; Planning and Supervision

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: 2011	Extension		Research	
	1862	1890	1862	1890
Plan	9.0	0.0	0.4	0.0
Actual Paid Professional	5.0	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
134206	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
318995	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
100479	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Eat Well Administration
- Eat Well Regional Management

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

2. Brief description of the target audience

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

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2011	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: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2011	Extension	Research	Total
Actual	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Multiple-undefined delivery method

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Year	Actual
2011	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
2011	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}