

# 2010 University of New Hampshire Extension Annual Report of Accomplishments and Results

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## I. Report Overview

### 1. Executive Summary

UNH Cooperative Extension is part of a network of county, state and regional outreach education offices that bring the University of New Hampshire resources directly to the people who live and work in New Hampshire. As a major outreach program of the University of New Hampshire, Cooperative Extension provides a direct link between UNH and people throughout the state. In partnership with local residents and volunteers, Cooperative Extension plans and conducts educational programs addressing needs and issues important to New Hampshire people.

Cooperative Extension's broad scope of activities, identified through on-going statewide and local needs assessment and reflected through our many partnerships with other organizations, agencies and academic departments, aim to foster development of competent individuals and strong families, strengthen New Hampshire communities, conserve and improve natural resources, and strengthen the economic viability of agricultural, forest and marine industries.

Cooperative Extension is a network of 156 professional staff located in New Hampshire's 10 counties, at the main UNH campus in Durham, and the urban campus in Manchester. More than 4,500 volunteers extend the reach of Extension staff throughout the state. Cooperative Extension designs and conducts educational programs in the areas of natural resources, and youth, families and communities. We use a variety of methods to engage the public in an interactive process designed to deliver information, research and programs.

eXtension has become a more prominent source of information for many of our clientele. A prominent link to eXtension.org is on our website and almost all of our staff now have an eXtension ID, with many of our specialists participating in Community of Practices (CoP). In addition, we're developing more distance education resources and programming through Facebook and Twitter and recently have been providing resources through Tweets to the national efforts to document Extension's value across the country.

Agricultural Resources programs respond to the changing needs of a diverse clientele with educational programs that promote environmentally safe practices and effective production, business and marketing strategies for New Hampshire family farms and home gardeners.

Forestry and Wildlife programs work to sustain and improve the economic viability of the state's \$1.9 billion forest products industries, which directly employ 10,000 New Hampshire residents, by providing information and assistance to New Hampshire forest landowners, community leaders, businesses and civic groups. Programs promote general public awareness of the varied economic benefits and ecological services provided by the state's commercial forests.

Sea Grant, Water and Marine Resources programs educates New Hampshire's residents in the stewardship and wise use of freshwater and marine resources. Our programs train and support volunteers who provide outreach and awareness and also assist with monitoring our lakes, streams and estuaries. Extension Specialists work with commercial fishermen to engage them in applied research and

help them remain economically secure and safe in their work.

4-H Youth Development, through diverse programs of hands-on learning, empowers young people to take an active role in decisions affecting their lives, families and communities. Programs include 4-H clubs, special interest groups, after-school programs, camps and short-term special-interest groups. Research has identified a successful positive youth development program as one in which young people feel a sense of belonging, develop a mastery of skills, including life skills that lead to independence and generosity. This philosophy matches the development of the individual through head, heart, hands and health.

Family and Consumer Resources staff develop diverse research-based programs that help New Hampshire individuals, families and communities gain knowledge and skills that foster effective decision-making and help them solve problems that affect their quality of life. In addition, staff and campus-based specialists offers parenting education programs and teach financial management skills for individuals, agencies, schools and businesses.

**Total Actual Amount of professional FTEs/SYs for this State**

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	85.0	0.0	0.0	0.0
Actual	77.0	0.0	0.0	0.0

**II. Merit Review Process**

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

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

**2. Brief Explanation**

New Hampshire entered into a formal partnership with Cooperative Extension in Maine , Massachusetts , and Vermont in 2004 to develop and implement a web-based planning and reporting system. As a result of this very successful (and unique) partnership we share a planning and reporting system that allows each of use to view plans and reports of the other states. We have also agreed to provide Merit Review for each other on a rotating basis so that each state in the partnership gets a thorough, expert-review of their state plan of work every four years. In addition to providing feedback to one another, this rotation asks staff to volunteer to be reviewers to look carefully at plans from other states with similar goals and outcomes to their own. NH's review process was held in 2009 and we had no further efforts this year.

### 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 non-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
- Survey of the general public
- Survey specifically with non-traditional groups
- Survey specifically with non-traditional individuals
- Survey of selected individuals from the general public
- Other (Advisory Council Meetings)

#### Brief explanation.

Stakeholders were encouraged to provide input to UNH Cooperative Extension in a variety of ways and in a variety of locations. Each county meets regularly with their County Advisory Council and the State Advisory Council (made up of members from each county, and representatives from various partner organizations) meets quarterly. In addition, county advisory council members served on search committees for staff hires in county and state level positions.

In 2008, each county office and traditional Extension program area (4-H, Agriculture, Family and Consumer Resources, Forestry and Wildlife, and Sea Grant and Water Resources) developed key issue statements (in conjunction with county stakeholders and campus-based colleagues) that described the key issue, what public value Extension would contribute by addressing the issue, supporting data (such as demographics, needs assessments, and other agencies), ties to our mission, potential partners, and existing Extension programs that already address the issue. Extension specialists, our State Advisory Council, and Extension administration then reviewed the list and began narrowing it to the most significant issues. These key issues will become the basis for new or expanded programs in 2009 and beyond.

#### 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
- Use Internal Focus Groups
- Use External Focus Groups
- Open Listening Sessions

- Needs Assessments
- Use Surveys
- Other

**Brief explanation.**

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

**1. Methods for collecting Stakeholder Input**

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Meeting with the general public (open meeting advertised to all)
- Survey of the general public
- Meeting specifically with non-traditional groups
- Survey specifically with non-traditional groups
- Meeting specifically with non-traditional individuals
- Survey specifically with non-traditional individuals
- Meeting with invited selected individuals from the general public
- Survey of selected individuals from the general public
- Other

**Brief explanation.**

{NO DATA ENTERED}

**3. A statement of how the input will be considered**

- In the Budget Process
- To Identify Emerging Issues
- Redirect Extension Programs
- Redirect Research Programs
- In the Staff Hiring Process
- In the Action Plans
- To Set Priorities
- Other

**Brief explanation.**

- Redirect Extension Programs
- In the Staff Hiring Process
- In the Action Plans

- To Set Priorities

**Brief Explanation of what you learned from your Stakeholders**

None at this time

**IV. Expenditure Summary**

<b>1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS)</b>			
<b>Extension</b>		<b>Research</b>	
<b>Smith-Lever 3b &amp; 3c</b>	<b>1890 Extension</b>	<b>Hatch</b>	<b>Evans-Allen</b>
1675780	0	0	0

<b>2. Totaled Actual dollars from Planned Programs Inputs</b>				
<b>Extension</b>			<b>Research</b>	
	<b>Smith-Lever 3b &amp; 3c</b>	<b>1890 Extension</b>	<b>Hatch</b>	<b>Evans-Allen</b>
<b>Actual Formula</b>	1675780	0	0	0
<b>Actual Matching</b>	1675780	0	0	0
<b>Actual All Other</b>	13218007	0	0	0
<b>Total Actual Expended</b>	16569567	0	0	0

<b>3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous</b>				
<b>Carryover</b>	0	0	0	0

## V. Planned Program Table of Content

S. No.	PROGRAM NAME
1	Forestry and Wildlife
2	Agricultural Resources
3	4-H Youth Development
4	Strengthening New Hampshire Communities through Civic Participation and Leadership
5	Family and Consumer Resources
6	Natural Resource Business Institute
7	Sea Grant and Water Resources
8	Food Safety
9	Childhood Obesity

**Add previously unplanned program**

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

**Program # 1**

**1. Name of the Planned Program**

Forestry and Wildlife

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

**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
123	Management and Sustainability of Forest Resources	60%			
124	Urban Forestry	20%			
135	Aquatic and Terrestrial Wildlife	20%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	15.0	0.0	0.0	0.0
Actual	15.0	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
284883	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
284883	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
2247061	0	0	0

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

**1. Brief description of the Activity**

Collaboration with partners: include projects, consultations, committee work on a town, county, state, multi-state basis with partner organizations and agencies include Extension collaborations

One-on-one consultation: woodlot exams, phone calls, emails, office visits, cost share programs, forester referrals, logger and industry visits- including follow up such as letters, map making, publication distribution

Media: press releases, newsletters, radio, TV, web, direct mailing Presentations: workshops and talks regardless of audience including prep time

Volunteer training and management: Coverts, Community Tree Stewards, Master Gardeners, other community volunteers such as conservation commissions, etc.

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

Target audiences include non-industrial private forest owners (NIPF), municipal and other forest landowners, natural resource professionals, communities, volunteers, NH forest-based industries and the public.

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	5500	22000	0	500
<b>Actual</b>	15694	502238	1958	0

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

**Patent Applications Submitted**

Year: 2010  
 Plan: 0  
 Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
<b>Plan</b>	0	0	
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Collaboration with partners: include projects, consultations, committee work on a town, county, state, multi-state basis with partner organizations and agencies include Extension collaborations
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	130	309

**Output #2**

**Output Measure**

- One-on-one consultation: woodlot exams, phone calls, emails, office visits, cost share programs, forester referrals, logger and industry visits- including follow up such as letters, map making, publication distribution
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	1200	1616

**Output #3**

**Output Measure**

- People reached through media: press releases, newsletters, radio, TV, web, direct mailing
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	10000	0

**Output #4**

**Output Measure**

- People reached through presentations: workshops and talks regardless of audience
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	5000	574

**Output #5**

**Output Measure**

- Volunteers trained and supported: Coverts, Community Tree Stewards, and other community volunteers such as conservation commissions, etc.
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	350	260

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of acres of forest management plans meet or exceed NH forest stewardship standards
2	Number of forest owners who receive federal or state financial incentives for implementing conservation practices
3	Number of new landowners engaged with a forester or natural resources professional for the first time or for the first time in 10 or more years
4	Number of volunteers in conservation work in NH communities as a result of training and continued work by UNHCE primarily in the Coverts and Community Tree Stewards programs
5	Percent of of NH licensed foresters trained by UNHCE in each of the two-year licensing period for CEUs
6	Number of people who influence the forest environment in NH with increased working knowledge about forest resource management through workshops, seminars, or educational events annually
7	Number of NH communities engage in natural resource inventories or natural heritage assessments to identify natural assets
8	Number of acres landowners develop conservation easements on in NH acres each year
9	Number of licensed foresters who increase business opportunities through 300 referrals from UNHCE staff - thereby sustaining a cadre of private sector licensed foresters offering services to the public
10	Number of Tree Steward and Coverts who volunteer each year beyond the required 40 hour commitment
11	Number of NH women who improve forest business management as a result of the Women and the Woods program

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of acres of forest management plans meet or exceed NH forest stewardship standards

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	8000	15210

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

There are approximately 4,824,000 acres of forested land in New Hampshire, 84% of the state. Of the 4,824,000 acres, 75% is privately owned. Cooperative Extension's Forestry and Wildlife Program staff are available to work with these landowners and help them maximize the economic, educational and ecological benefits of the land, which include direct and indirect benefits to the landowners themselves and the communities where the land resides. In one year alone, New Hampshire residents received over \$45.9 million of income from selling timber and other wood products and New Hampshire towns received over \$4.6 million in timber tax (2007, NH Department of Revenue Administration). Healthy, sustainable forests are critical to New Hampshire's forest products industry and the forest-related tourism and recreation industries which contribute more than \$2 billion annually to the state's economy.

**What has been done**

Extension foresters referred 406 landowners owning 33,026 acres to licensed foresters who wrote forest stewardship plans on over 15,210 acres. Over 550 Coverts Cooperators and Natural Resource Stewards (formerly Community Tree Stewards) are actively involved in conservation in their communities. Volunteers contributed over 18,000 hours in 2010. New Hampshire County Forest Resources Educators, in partnership with the Natural Resources Conservation Service (NRCS) and the Farm Service Agency (FSA), implement the NRCS Environmental Quality Incentives Program (EQIP), and the Wildlife Habitat Improvement Program (WHIP) in the state.

**Results**

Plan writing represents \$304,200 of direct economic activity as well as improved management and timber harvesting. Over 26% of New Hampshire's private forest land is managed according to an integrated forest stewardship plan. Volunteer efforts minimize the effect of fragmentation and

sprawl through open space initiatives, participating in local land trusts and town boards. They actively manage over 110,000 acres and reached out to over 35,000 people with a message of sound forest stewardship and wildlife conservation. Federal financial assistance programs provide cost-share dollars for practices that improve and protect forestland, wildlife habitat and water quality and usually act as the catalyst for the forest products industry in New Hampshire. Over \$1,261,000 of NRCS funds came into New Hampshire for management planning, EQIP and other forestry-related practices in 2010. These funds provided a financial stimulus for the forest-based economy during challenging market conditions. Six communities used information from New Hampshire's Wildlife Action Plan in natural resource inventories and conservation plans. Two towns are collaborating on land conservation projects along town boundaries. Over 10,500 acres of forest and field have been permanently protected as a result of assistance provided by the UNH Cooperative Extension during this fiscal year.

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #2**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of forest owners who receive federal or state financial incentives for implementing conservation practices

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	60	35

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #3**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of new landowners engaged with a forester or natural resources professional for the first time or for the first time in 10 or more years

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	60

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #4**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of volunteers in conservation work in NH communities as a result of training and continued work by UNHCE primarily in the Coverts and Community Tree Stewards programs

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	400	130

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #5**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Percent of of NH licensed foresters trained by UNHCE in each of the two-year licensing period for CEUs

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	75	300

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #6**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of people who influence the forest environment in NH with increased working knowledge about forest resource management through workshops, seminars, or educational events annually

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
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2010                      5000                      1583

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #7**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH communities engage in natural resource inventories or natural heritage assessments to identify natural assets

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	10	15

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Extension's Land & Water Conservation Program assists New Hampshire communities and conservation groups with land and water conservation planning projects, including natural resources inventories, conservation planning, land protection, public outreach, and building public support. During the reporting period, assistance was provided to 15 towns and two conservation groups and participated in 12 statewide meetings. Direct assistance to communities, workshops and courses involved total participation of 765 participants. Publication of the Taking Action for

Wildlife e-newsletter 3 times/year reaches more than 1,300 people with each issue.

### **What has been done**

Community decision makers and others increase their knowledge of land and water conservation issues, conduct conservation projects, and build their capacity to take action to protect natural resources.

### **Results**

Improved Information Gathering and Research: These actions help provide local data and information upon which rational conservation decisions can be based.

- Fourteen communities (Barrington, Brentwood, Danville, East Kingston, Fremont, Lempster, Nelson, Nottingham, Rochester, Seabrook, Sandown, Stoddard, Wakefield, Washington), two conservation groups (Lamprey River Watershed Association and Bear Paw Regional Greenways) and participants at 12 statewide events improved their background knowledge for future decision making about natural resources protection.
- 247 participants at the 9th Annual Saving Special Places Conference increased their knowledge of a variety of land conservation and stewardship issues. This annual event is co-sponsored and organized by UNHCE, the Society for the Protection of NH Forests, and the Natural Resources Conservation Service.
- 60 participants at three Taking Action For Wildlife workshops learned information about wildlife habitat conservation to incorporate into their conservation planning.
- Through the Natural Resources Outreach Coalition (NROC) community assistance, the Lamprey River Watershed Association conducted several public outreach sessions, successfully submitted a nomination packet for inclusion of the Lamprey River in the State Rivers program and revised their strategic plan.
- Revision and update of the Method for Evaluating Freshwater Wetlands in New Hampshire.
- Development of Taking Action for Wildlife web pages, a joint effort between UNHCE and NH Fish & Game.

Better Planning for Natural Resources Protection: Through the Taking Action for Wildlife program, six communities (Fremont, Sandown, Lempster, Washington, Nelson and Stoddard) used information from NH's Wildlife Action Plan in their natural resources inventories and conservation plans. Nelson contacted eight landowners to gauge their interest in land conservation with personalized calls and wildlife information packets. Lempster is developing a natural resources inventory and conservation plan that includes a focus on wildlife. Washington is collaborating with Lempster on land conservation projects along the town boundaries.

Enhanced Policies and Regulation: Through the NROC program, Newmarket applied for and received a grant to hire a consultant to help them develop improved stormwater measures in their subdivision and site plan review regulations.

Progress from Decisions to Actions: As a result of Taking Action for Wildlife, Fremont, Sandown and Danville applied for and received a grant to hire a biologist to inventory the wildlife habitats in the three adjacent communities along the Exeter River. The three communities are conducting public outreach efforts to publicize the project. Fremont is planning a plant and wildlife "bio-blitz" event for the public in spring 2011. Bradford conducted a public outreach event focused on their Natural Resources Inventory and NH Wildlife Action Plan information.

## **4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #8**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of acres landowners develop conservation easements on in NH acres each year

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	8000	1000

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #9**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of licensed foresters who increase business opportunities through 300 referrals from UNHCE staff - thereby sustaining a cadre of private sector licensed foresters offering services to the public

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	129

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #10**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of Tree Steward and Coverts who volunteer each year beyond the required 40 hour commitment

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	65	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

**Outcome #11**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH women who improve forest business management as a result of the Women and the Woods program

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
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2010

25

0

### 3c. Qualitative Outcome or Impact Statement

#### Issue (Who cares and Why)

#### What has been done

#### Results

### 4. Associated Knowledge Areas

- 123 - Management and Sustainability of Forest Resources
- 124 - Urban Forestry
- 135 - Aquatic and Terrestrial Wildlife

### V(H). Planned Program (External Factors)

#### External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

#### Brief Explanation

{No Data Entered}

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

#### (OPTIONAL SECTION)

#### 1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)

- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

**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**

Agricultural Resources

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

**1. Program Knowledge Areas and Percentage**

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
102	Soil, Plant, Water, Nutrient Relationships	15%			
205	Plant Management Systems	10%			
211	Insects, Mites, and Other Arthropods Affecting Plants	10%			
212	Pathogens and Nematodes Affecting Plants	10%			
216	Integrated Pest Management Systems	10%			
315	Animal Welfare/Well-Being and Protection	10%			
601	Economics of Agricultural Production and Farm Management	10%			
602	Business Management, Finance, and Taxation	15%			
604	Marketing and Distribution Practices	10%			
	<b>Total</b>	100%			

**Add knowledge area**

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

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

<b>Year: 2010</b>	<b>Extension</b>		<b>Research</b>	
	<b>1862</b>	<b>1890</b>	<b>1862</b>	<b>1890</b>
Plan	18.0	0.0	0.0	0.0
Actual	16.0	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
318399	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
318399	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
2511421	0	0	0

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

**1. Brief description of the Activity**

Workshops/conferences - including single- and multi-day conferences, Farm and Forest events, and various producer association meetings  
 Pasture walks & twilight meetings  
 Farm/site visits, including kitchen table meetings and private consultations  
 On-farm and university-based applied research projects  
 Phone consultations  
 Pesticide Applicator Training  
 Soil and plant tissue diagnostic services  
 Publications - newsletters, news releases, fact sheets, publications, web page  
 Radio and TV spots

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

Farmers/producers, people who work in agriculture-related fields, homeowners, nursery/greenhouse managers, turf managers

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	5000	200000	0	0
<b>Actual</b>	43771	181002	2201	335

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

**Patent Applications Submitted**

Year: 2010  
 Plan: 0  
 Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
Plan	0	0	
Actual	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of people attending pasture walks

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	120	0

**Output #2**

**Output Measure**

- Number of farm/site visits, including kitchen table meetings and private consultations

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	1200	2207

**Output #3**

**Output Measure**

- Number of people reached through news releases, news letters, fact sheets and web page with agriculture information

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	25000	0

**Output #4**

**Output Measure**

- Number of people who visit and view on-farm and university-based applied research sites

Not reporting on this Output for this Annual Report

Year	Target	Actual

2010 1000 172

**Output #5**

**Output Measure**

- Number of people who attend agricultural festivals, county fairs, road races, and other miscellaneous events where Extension has agricultural displays

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	2000	3213

**Output #6**

**Output Measure**

- Number of people reached with agriculture information via radio and TV spots

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	23000	141308

**Output #7**

**Output Measure**

- Number of people who attend twilight grower meetings

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	600	2705

**Output #8**

**Output Measure**

- Number of phone consultations regarding agricultural practices, home horticulture and miscellaneous agriculture topics

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	6000	6747

**Output #9**

**Output Measure**

- Number of Pesticide Applicators attending recertification training

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	600	296

**Output #10**

**Output Measure**

- Number of soil and plant analyses conducted by diagnostic labs

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	500	614

**Output #11**

**Output Measure**

- Number of people reached through educational Workshops - Single & multi-day educational events such as grower schools, state-wide grazing events, etc.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	8000	11978

**Output #12**

**Output Measure**

- Number of people reached though conferences: Farm & Forest, Producer Association Meetings

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	8000	5319

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of NH growers who adopt practices that improve farm productivity, quality of life, environmental conditions, and/or profitability.
2	Number of NH growers who submit soil and/or tissue tests to determine crop nutrient needs
3	Number of NH growers who formulate plans to guide their crop production, pest management, nutrient allocation, or farm management decisions
4	Number of NH growers who increase their skills, knowledge, and/or awareness of farm management techniques, risk management programs, or marketing practices
5	Number of NH growers who increase their knowledge, awareness, and/or skills in crop production practices
6	Number of NH growers who increase knowledge, awareness, and/or skills in pest management practices and technologies.
7	Number of NH growers who increase knowledge, awareness, and/or skills in new research, technology
8	Number of participants who increase their knowledge, awareness and/or skills in practices and technologies to increase the quality of athletic fields, public spaces and/or golf course conditions
9	Number of participants in home horticulture programs who gain skills that improve self-esteem, enable them to grow and preserve crops, adopt IPM practices and protect and enhance their environment.
10	Number of NH growers who increase their skills, knowledge or awareness in practices or methods related to dairy, livestock or equine production methods.

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of NH growers who adopt practices that improve farm productivity, quality of life, environmental conditions, and/or profitability.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	350	264

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

NH has approximately 400 vegetable farms on 3400 acres, and 300 berry farms on 875 acres. The farm gate value of all vegetable and fruits in NH is approximately \$26 million. A short growing season, high labor and land costs, and an extremely variable and humid climate challenge the profitability of NH farms. Both ecological and economic sustainability are needed to ensure long-term viability. NH fruit and vegetable growers must minimize environmental impact and production costs, while maintaining high quality and yields, and developing reliable and consistent markets.

**What has been done**

New techniques and production systems are promoted for farmers that aim to expand their enterprise, minimize costs, or improve efficiency. Efforts focus on minimizing environmental impact and reducing costs of external inputs. Workshops on new production methods have provided research-based knowledge to new, transitioning, and experienced farmers. Innovative practices have been introduced by featuring innovative farms at twilight meetings, workshops, and newsletters. Education strategies range from site visits to workshops to state- and New England-wide conferences.

**Results**

**Vegetable and Berry Production Systems**

- Over 1000 growers attended the 2009 New England Vegetable and Fruit Conference in Manchester NH. Attendees said that information they obtained at the conference would help them improve cultural farming practices (88%), pest management (87%), soil or nutrient management (80%), farm profitability (75%), marketing or business management (61%). 79% said they would adopt a new practice in the following year as a result of attending the conference.

- 120 growers learned about new production practices such as season extension and deep zone tillage at a twilight meeting.
- 145 growers learned about organic production techniques at two workshops and a twilight meeting.

#### Pest & Nutrient Management

- 35 producers participated in listening sessions to strategize to prevent a late blight epidemic in 2010. Late blight caused no economic impact in 2010, as compared with estimated losses of \$100,000 or more in 2009, in part due to favorable weather and in part due to extensive outreach efforts aimed at preventing the use of infected potato tubers as seed stock.
- From 10/09 to 9/10, UNHCE issued soil test recommendations for 3157 samples. This was a 5% increase over 2009 numbers, which had been an all-time high.

#### Alternative or High Value Crops

- 130 growers learned about grapevine management at twilight meetings held in three NH vineyards.
- 30 people learned about growing winter sprouting broccoli for early spring harvest in a twilight meeting.
- 8 vegetable and berry growers participated in cooperative on-farm research projects led by UNHCE educators or specialists in 2010.

### 4. Associated Knowledge Areas

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

### Outcome #2

#### 1. Outcome Measures

- Not Reporting on this Outcome Measure

Number of NH growers who submit soil and/or tissue tests to determine crop nutrient needs

#### 2. Associated Institution Types

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	500	315

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

**Outcome #3**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH growers who formulate plans to guide their crop production, pest management, nutrient allocation, or farm management decisions

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	250	608

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

**Outcome #4**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH growers who increase their skills, knowledge, and/or awareness of farm management techniques, risk management programs, or marketing practices

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	202

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

**Outcome #5**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH growers who increase their knowledge, awareness, and/or skills in crop production practices

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	150	933

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

**Outcome #6**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH growers who increase knowledge, awareness, and/or skills in pest management practices and technologies.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	200	2899

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

Training, pest monitoring and reporting threshold levels in various locations in southern NH for sweet corn, squash, apples

**Results**

The UNH Cooperative Extension IPM program helped farmers save money, reduce their dependence on chemical pesticides, reduce pest injury, and protect the environment. Apple impacts in FY2010 were \$210,000. The incidence of pest injury on the apple crop was 8% below pre-IPM levels [3% vs 11%]. Impacts in vegetable IPM are likely to be over \$100,000.

NH apple growers reduced their fungicide, insecticide and miticide spraying (compared to pre-IPM methods) by 50% this year, and simultaneously reduced the incidence of pest injury on their fruit. Before the introduction of IPM methods, the statewide average incidence of pest injury was 10 to 12%. In 2010 it was reduced to 3.02%. The dollar savings are tricky to compute but are estimated at \$100,000 reduction in spraying, and \$110,000 in improved crop quality. Impacts would have been higher if the crop had not been significantly reduced by frost in late spring. New Hampshire sweet corn, squash and giant pumpkin growers reduced their insecticide spraying and reduced the incidence of pest injury on their crops, with the assistance of the IPM program. With the very late end of this year's growing season, impact data are still being gathered and collated, but it is likely that some spraying was reduced (especially in sweet corn) during periods when insect trap captures were low to moderate, and pest injury was significantly reduced when we experienced sudden influxes of corn earworm and Fall armyworm moths. In recent years, total impacts have ranged up to \$150,000. Several sweet corn growers again reported that the program significantly reduced culling (discarding infested ears). Impacts were greatest in Hillsborough County, where the vegetable IPM program is centered. Grants from NH Department of Agriculture, Markets & Food, and USDA NIFA provided funding. Data were still being gathered from growers when this reporting cycle ended, but this year we likely had significant \$ impacts from reduced culling, rather than reduced spraying.

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

**Outcome #7**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH growers who increase knowledge, awareness, and/or skills in new research, technology

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	50	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants

- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

## **Outcome #8**

### **1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of participants who increase their knowledge, awareness and/or skills in practices and technologies to increase the quality of athletic fields, public spaces and/or golf course conditions

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2010	30	447

### **3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

### **4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

## **Outcome #9**

### **1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of participants in home horticulture programs who gain skills that improve self-esteem, enable them to grow and preserve crops, adopt IPM practices and protect and enhance their environment.

### **2. Associated Institution Types**

- 1862 Extension

### **3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

### **3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2010	1200	6977

### **3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

### **4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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

- 604 - Marketing and Distribution Practices

**Outcome #10**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH growers who increase their skills, knowledge or awareness in practices or methods related to dairy, livestock or equine production methods.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	70	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 102 - Soil, Plant, Water, Nutrient Relationships
- 205 - Plant Management Systems
- 211 - Insects, Mites, and Other Arthropods Affecting Plants
- 212 - Pathogens and Nematodes Affecting Plants
- 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
- 604 - Marketing and Distribution Practices

## V(H). Planned Program (External Factors)

### External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

### Brief Explanation

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

### (OPTIONAL SECTION)

#### 1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

### Evaluation Results

### Key Items of Evaluation



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

**Program # 3**

**1. Name of the Planned Program**

4-H Youth 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
802	Human Development and Family Well-Being	80%			
805	Community Institutions, Health, and Social Services	10%			
806	Youth Development	10%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	14.0	0.0	0.0	0.0
Actual	15.0	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
301641	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
301641	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
2379242	0	0	0

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

**1. Brief description of the Activity**

- Recruit, screen, orient new volunteers
- Support and recognize volunteers
- Middle manager system design and support
- Volunteer/staff training-multiple delivery methods
- Club/group organization, management, and reporting
- 4-H Afterschool (includes coalitions, meetings, staff training ,etc.)
- OMK - (includes coalitions, meetings, staff training, etc.)
- Juvenile Justice Projects
- Technical support to youth serving agencies/organizations
- Grant development
- Media, including radio. TV, newspaper (indirect)
- 4-H Foundation work (local and state-wide) - fund raising activities

•Marketing/PR, general 4-H newsletters

•Event and activity development and management   •Subject matter/life skill training-multiple delivery methods   •Records, Resume, recognition opportunities   •County Fair   •4-H camp

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

Youth - ages 5-18 involved in community 4-H clubs, after school programs, community coalitions and classrooms.

Adult volunteers, educators, decision makers, policy makers

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	2500	2000	7000	5000
<b>Actual</b>	15377	576	12165	108

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

**Patent Applications Submitted**

Year:                   2010  
 Plan:                   0  
 Actual:                 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
------	-----------	----------	-------

<b>Plan</b>	0	0	
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of new volunteers recruited, screened, and provided with orientation

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	100	210

**Output #2**

**Output Measure**

- Number of volunteers supported and recognized

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	1000	3065

**Output #3**

**Output Measure**

- Number of volunteers trained

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	700	951

**Output #4**

**Output Measure**

- Number of clubs/groups supported

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	240	392

**Output #5**

**Output Measure**

- Number of youth participating in 4-H camp

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>

2010 75 0

**Output #6**

**Output Measure**

- Number of youth serving agencies/organizations provided with technical support

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	25	32

**Output #7**

**Output Measure**

- Number of youth participating in subject matter/life skill events and activities

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	5000	3800

**Output #8**

**Output Measure**

- Number of adults trained/supported through 4-H After school (includes coalitions, meetings, staff training, etc.)

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	400	224

**Output #9**

**Output Measure**

- Number of adults trained/supported through CYFAR (includes coalitions, meetings, staff training, etc.)

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	50	0

**Output #10**

**Output Measure**

- Number of youth serving on coalitions/boards in partnership with adults

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	100	142

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of of NH youth involved in 4-H YD programs who demonstrate an increase in specific life skills.
2	Number of youth/adults who demonstrate an increase in knowledge and skills related to specific projects and/or subject matter.
3	Number of youth and adults surveyed on involvement in 4-H YD programs who adopted skills related to successful community action.
4	Number of NH youth over the age of 12 and involved in targeted 4-H YD, who present their achievements and/or act as teachers or resources to others through their 4-H experience.
5	Number of 4-H YD volunteers and program staff surveyed that understand and adopt practices within their programs/groups/clubs which foster a sense of belonging, mastery, generosity and independence (Circle of Courage) for all participating youth

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of of NH youth involved in 4-H YD programs who demonstrate an increase in specific life skills.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	1000	849

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 802 - Human Development and Family Well-Being
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**Outcome #2**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of youth/adults who demonstrate an increase in knowledge and skills related to specific projects and/or subject matter.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	1000	1060

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 802 - Human Development and Family Well-Being
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**Outcome #3**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of youth and adults surveyed on involvement in 4-H YD programs who adopted skills related to successful community action.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
------	---------------------	--------

2010                      1000                      0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 802 - Human Development and Family Well-Being
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**Outcome #4**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of NH youth over the age of 12 and involved in targeted 4-H YD, who present their achievements and/or act as teachers or resources to others through their 4-H experience.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	500	625

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 802 - Human Development and Family Well-Being
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development

**Outcome #5**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of 4-H YD volunteers and program staff surveyed that understand and adopt practices within their programs/groups/clubs which foster a sense of belonging, mastery, generosity and independence (Circle of Courage) for all participating youth

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	250	224

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

For New Hampshire's afterschool population of 224,877 school-age children, the afterschool hours, between 3pm and 6pm, are considered peak time for juvenile crime and experimentation with risky behaviors. It is estimated that only 16% (35,081) of our K-12 children participate in afterschool programs; and 32% (60,735) of those not in afterschool programs would participate if a program were available and affordable. Among those using an afterschool program in NH, about 13% of the parents are not satisfied with the afterschool program their child attends.

**What has been done**

Over five years, 4-H received \$697,421 in JCPenney 4-H Afterschool Funds, sending 1,559 children to 19 afterschool programs. In 2010, 4-H provided 518 hours of training for 111 afterschool staff and volunteers who work with 794 children (K-6th), and 130 youth (7th -12th) at these sites. 4-H collaborates to promote high quality afterschool programs, including networking to fund local programs, and partnering on professional development and quality program standards. In 2010, 4-H piloted a 3-hour NH Afterschool Orientation workshop for 113 entry-level afterschool program staff.

**Results**

Six 4-H afterschool Clubs formed at JCPenney 4-H Afterschool sites.  
2010 economic value of Extension's afterschool program collaborations is approximately \$1.2 million including grants (\$1.19 million), and in-kind support (\$25,000).  
Post/reflection evaluations (N=59) from the NH Afterschool Orientation found:  
-86% (n=51) can now name "essential elements" of positive youth development programs, compared with 39% (n=23) who could do this previously.  
-95% (n=56) now understand state laws/regulations ensuring safe youth environments compared with 81% (n=48) previously.  
-97% (n=57) now see themselves as afterschool professionals with high standards for positive youth development, compared with 83% (n=49) previously.  
-93% (n=55) now consider influences of learning strengths on program planning, compared with 75% (n=44) previously.  
-95% (n=56) now have resources to determine a youth's age/stage of development, compared with 64% (n=38) previously.  
-86% (n=51) now understand the ecological model's relationship to youth and families, compared with 39% (n=23) previously.  
-88% (n=52) now can name three critical needs of all youth; compared with 46% (n=27) previously.

#### 4. Associated Knowledge Areas

- 802 - Human Development and Family Well-Being
- 805 - Community Institutions, Health, and Social Services
- 806 - Youth 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
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

##### Brief Explanation

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

##### (OPTIONAL SECTION)

## 1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

### 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**

Strengthening New Hampshire Communities through Civic Participation and Leadership

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

**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
805	Community Institutions, Health, and Social Services	50%			
806	Youth Development	30%			
903	Communication, Education, and Information Delivery	20%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	3.0	0.0	0.0	0.0
Actual	2.0	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
67031	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
67031	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
528720	0	0	0

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

**1. Brief description of the Activity**

- Community Profiles, a community-level strategic planning program enables diverse community citizens to come together and map out their desired future and develop an action plan to achieve that future. In addition to working with communities to organize and facilitate Community Profiles, SNHC staff provide follow-up technical assistance to community action teams working on specific projects
- Participatory Planning: Provide assistance/training to enable communities to implement participatory planning processes (i.e. Master Plan visioning, visioning for the arts, youth-adult partnerships, juvenile justice, and accessible agriculture).
- Economic and Tourism Development Assistance: SNHC Team members provide technical and planning assistance to local economic development corporations, regional economic entities and tourism development groups to enhance their decision-making with regard to tourism and economic development plans, projects and activities.
- Web-Based Community Planning Tools: The SNHC team is developing a suite of web-based tools that will enable community decision-makers to conduct community assessments, inform community decisions and implement community-based plans. Examples of tools include the Community Capacity Assessment and the Land Use Resource Clearinghouse.
- Facilitation/leadership skills course-provide yearly skills courses of two to five sessions to community leaders in group facilitation, participatory planning techniques and leadership.
- Global Positioning System (GPS) Training: Provide training to community groups on using global positioning systems to map community assets.

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

Youth and adult audiences will be addressed through civic participation and leadership programs. Particular emphasis will be made to include formal, informal, and potential community leaders and disenfranchised audiences (low-income, minority, individuals with disabilities).

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	1000	3000	0	0
<b>Actual</b>	723	0	0	0

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

**Patent Applications Submitted**

Year: 2010  
 Plan: 0  
 Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
Plan	0	0	
Actual	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of community leaders who complete a facilitation/leadership skills course

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	20	22

**Output #2**

**Output Measure**

- Number of people receiving Global Positioning System (GPS) Training

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	600	3209

**Output #3**

**Output Measure**

- Number of people viewing web-based Inventory Citizen Engagement/Leadership Resources

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	3000	0

**Output #4**

**Output Measure**

- Number of Community Profiles (community-level strategic planning program enables diverse community citizens to come together and map out their desired future and develop an action plan to achieve that future) held.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	2	2

**Output #5**

**Output Measure**

- Number of communities provided with technical assistance to enhance their decision making with regard to tourism and economic development plans, project, and activities.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	10	10

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of groups/organizations around the state that network more effectively and share resources, expertise, and assistance with other groups. This will enable groups to provide more needed services to individuals and communities.
2	Number of groups around the state to implement participatory decision-making processes as a result of Civic Participation and Leadership Team activities (i.e. Master Plan Visioning Session, Community Profile Action Planning, strategic planning)
3	Number of groups that learn to collaborate more effectively to form partnerships and/or community coalitions
4	Number of community leaders who learn skills to more effectively lead groups/organizations
5	Number of communities that build a knowledge base of resources for building civic engagement and leadership
6	Number of community leaders who learn processes and techniques for engaging citizens in community decision-making
7	Number of communities that work with Extension to implement mechanisms/tools to analyze the current situation and identify emerging issues to be addressed.
8	Number of community leaders who develop a new understanding of the issues facing their community.
9	Number of citizens who take on new leadership roles within their community as a result of Extension programs.
10	Number of action groups/committees that utilize UNH Cooperative Extension expertise in partnership with other agencies/organizations around the state to preserve and conserve open space.
11	Number of citizens and community leaders who develop a better understanding of local land use planning and zoning policies
12	Number of action groups/committees that engage diverse audiences in planning for the economic viability of their communities.
13	Crosscutting narrative for the above outcome measures

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of groups/organizations around the state that network more effectively and share resources, expertise, and assistance with other groups. This will enable groups to provide more needed services to individuals and communities.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	20	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #2**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of groups around the state to implement participatory decision-making processes as a result of Civic Participation and Leadership Team activities (i.e. Master Plan Visioning Session, Community Profile Action Planning, strategic planning)

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	20	4

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #3**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of groups that learn to collaborate more effectively to form partnerships and/or community coalitions

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
------	---------------------	--------

2010

15

12

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #4**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of community leaders who learn skills to more effectively lead groups/organizations

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	22

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #5**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of communities that build a knowledge base of resources for building civic engagement and leadership

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	15	8

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #6**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of community leaders who learn processes and techniques for engaging citizens in community decision-making

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	142

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #7**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of communities that work with Extension to implement mechanisms/tools to analyze the current situation and identify emerging issues to be addressed.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	15	8

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #8**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of community leaders who develop a new understanding of the issues facing their community.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
------	---------------------	--------

2010

30

113

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #9**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of citizens who take on new leadership roles within their community as a result of Extension programs.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	10	81

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #10**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of action groups/committees that utilize UNH Cooperative Extension expertise in partnership with other agencies/organizations around the state to preserve and conserve open space.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	15	15

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #11**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of citizens and community leaders who develop a better understanding of local land use planning and zoning policies

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	15

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #12**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of action groups/committees that engage diverse audiences in planning for the economic viability of their communities.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	10	2

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

**Outcome #13**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure
- Crosscutting narrative for the above outcome measures

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
------	---------------------	--------

2010 {No Data Entered} 0

### 3c. Qualitative Outcome or Impact Statement

#### Issue (Who cares and Why)

Community leaders, businesses, policy-makers and residents of New Hampshire are concerned that shifting demographics, declining resource-based industries, lack of affordable housing for families and workers, degradation of land and water resources, increased incidence of high school dropouts, low levels of volunteerism, and declining participation in community decision-making, are threatening individuals' and communities' quality of life in New Hampshire.

#### What has been done

UNH Cooperative Extension's community development programming helps communities achieve long-term well-being by building human, environmental, economic, and social capacity by providing a variety of educational services to community residents, organizations, and local governments. Programs include:

- Community Profiles Visioning Program
- Master Plan Public Input Assistance
- Local Economic Analysis and Economic Development Planning Assistance
- Community Needs Assessment

#### Results

- Over a dozen state agencies and organizations received strategic planning support from Cooperative Extension that resulted in plans aimed at sustaining them into the future.
- Eight community action committees resulting from Extension's facilitation of Community Profiles (community visioning) in 6 communities continue to pursue activities aimed at improving their communities (e.g. downtown revitalization project, beautification of downtown parkway, inventory of business needs and assets, securing of funds to conserve agricultural land, etc.)
- Four communities engaged their respective residents in the process of revitalizing their Master Plans with the help of Cooperative Extension. The Master Plans have resulted in new incentives, modified regulations, and technical support to preserve attributes valued by community residents.
- Twenty-two individuals learned how to facilitate public meetings through the facilitation workshop series. Over half have gone on to facilitate forums, meetings, and planning sessions for their respective communities and organizations.
- Two communities conducted assessments of local economic assets and opportunities with Extension's support. One of these communities (Henniker) subsequently formed a Chamber of Commerce to pursue the economic opportunities identified and has provided financial and technical support to new and existing businesses.

### 4. Associated Knowledge Areas

- 805 - Community Institutions, Health, and Social Services
- 806 - Youth Development
- 903 - Communication, Education, and Information Delivery

## V(H). Planned Program (External Factors)

### External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

### Brief Explanation

{No Data Entered}

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

### (OPTIONAL SECTION)

#### 1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

### 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**

Family and Consumer Resources

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

**1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
801	Individual and Family Resource Management	50%			
802	Human Development and Family Well-Being	50%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	27.0	0.0	0.0	0.0
Actual	14.0	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
335156	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
335156	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
2643602	0	0	0

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

**1. Brief description of the Activity**

- Parenting Education such as Strengthening Families 10- 14, Dare To Be You, Family Focus, Supportive Connections for Single Parent Families, Stepfamilies, Relatives as Parents; Cradle Crier and Toddler Tales ( age- paced newsletters); Single topic sessions including Positive Discipline, Raising Your Child's Self- Esteem

- Better Kid Care, Promoting the Social Emotional Competence of Young Children, Collaborations with NH Resource and Referral Agencies.

- Making Money Work for You, Planning Ahead...Staying Ahead, Credit Check Up, Debt Check Up, Starting Over Bankruptcy Education, Take the Road to Financial Security in Later Life, Investing for Your Future, Legally Secure Your Financial Future, High School Financial Planning

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

Parents, youth, child care providers, policy makers, human service agencies, families

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	10000	200000	2500	0
<b>Actual</b>	0	0	0	0

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

**Patent Applications Submitted**

Year: 2010

Plan: 0

Actual: {No Data

**Patents listed**

{No Data Entered}

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
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<b>Plan</b>	0	0	
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of people who participate in ServSafe; workshops, SAFE (Safety Awareness in the Food Environment)
- Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	1000	0

**Output #2**

**Output Measure**

- Number of low-income adults participating in Nutrition Connections - educational courses to income eligible New Hampshire residents - Includes EFNEP (Expanded Food and Nutrition Education Program) and FSNEP (Food Stamp Nutrition Education Program)
- Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	2500	1062

**Output #3**

**Output Measure**

- Number of people participating in Better Kid Care, Promoting the Social Emotional Competence of Young Children, Collaborations with NH Resource and Referral Agencies
- Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	400	0

**Output #4**

**Output Measure**

- Number of adults participating in Making Money Work for You, Planning Ahead...Staying Ahead, Credit Check Up, Debt Check Up, Starting Over Bankruptcy Education, Take the Road to Financial Security in Later Life, or Investing for Your Future
- Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	1000	965

**Output #5**

**Output Measure**

- Number of adults participating in food safety programming through Nutrition Connections - educational courses to income eligible New Hampshire residents on how to prepare, handle and store food safely
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	350	299

**Output #6**

**Output Measure**

- Number of youth participating in nutrition and food safety programming through Nutrition Connections - educational courses to income eligible New Hampshire residents on how to eat healthier on a limited budget
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	875	0

**Output #7**

**Output Measure**

- Number of people participating in Parenting Education such as Strengthening Families 10- 14, Dare To Be You, Family Focus, Supportive Connections for Single Parent Families, Stepfamilies, Relatives as Parents; receiving Cradle Crier and Toddler Tales
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	10000	9877

**Output #8**

**Output Measure**

- Number of youth participating in Making Money Work for You, Planning Ahead...Staying Ahead, Credit Check Up, Debt Check Up, Starting Over Bankruptcy Education, Take the Road to Financial Security in Later Life, or Investing for Your Future
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	3000	0

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of program participants who report utilizing effective practices that lead to quality child care experiences
2	Number of money management education participants who document their improved money management practices on evaluation instruments
3	Number of participants who report an increase in their physical activity
4	Number of participants who report eating nearer to the recommended number of cup equivalents from the Fruits and Vegetable Group
5	Number of participants who report keeping food at safe temperatures
6	Number of participants who practice personal hygiene such as hand washing
7	Number of program participants who document an increase in their financial literacy on evaluation instruments
8	Number of resource and referral agencies that make Better Kid Care training available in NH
9	Number of youth who learn how to choose foods according to the Pyramid and Dietary Guidelines
10	Number of program participants who score 75% or greater on knowledge tests of high risk practices including: * Personal hygiene * Holding/time and temperature * Cooking temperatures * Prevention of contamination
11	Number of people who attend the parent education program and complete the pre- and post-survey report they intend to apply their understanding of general developmental milestones and progressions in ways that support their child's progress - socially, emotionally, and intellectually.
12	Number of people who attend the parent education program and complete the pre- and post-survey report they intend to apply their understanding of positive discipline techniques in ways that support their child's growth and development.
13	Note -- many of the outcomes for this planned program are now reported under Childhood obesity and Food safety planned programs

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of program participants who report utilizing effective practices that lead to quality child care experiences

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	69

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #2**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of money management education participants who document their improved money management practices on evaluation instruments

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure  
 Change in Action Outcome Measure  
 Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	875	785

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management  
 802 - Human Development and Family Well-Being

**Outcome #3**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of participants who report an increase in their physical activity

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure  
 Change in Action Outcome Measure  
 Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	200	299

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #4**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of participants who report eating nearer to the recommended number of cup equivalents from the Fruits and Vegetable Group

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	200	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #5**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of participants who report keeping food at safe temperatures

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	400	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

**Outcome #6**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of participants who practice personal hygiene such as hand washing

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	550	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #7**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of program participants who document an increase in their financial literacy on evaluation instruments

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	700	640

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #8**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of resource and referral agencies that make Better Kid Care training available in NH

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	15	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #9**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of youth who learn how to choose foods according to the Pyramid and Dietary Guidelines

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	1800	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

**Outcome #10**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of program participants who score 75% or greater on knowledge tests of high risk practices including: \* Personal hygiene \* Holding/time and temperature \* Cooking temperatures \* Prevention of contamination

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	700	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

**Outcome #11**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of people who attend the parent education program and complete the pre- and post-survey report they intend to apply their understanding of general developmental milestones and progressions in ways that support their child's progress - socially, emotionally, and intellectually.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	75

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #12**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of people who attend the parent education program and complete the pre- and post-survey report they intend to apply their understanding of positive discipline techniques in ways that support their child's growth and development.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	50

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

**Outcome #13**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Note -- many of the outcomes for this planned program are now reported under Childhood obesity and Food safety planned programs

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	{No Data Entered}	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 801 - Individual and Family Resource Management
- 802 - Human Development and Family Well-Being

## V(H). Planned Program (External Factors)

### External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

### Brief Explanation

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

### (OPTIONAL SECTION)

#### 1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

### Evaluation Results

### Key Items of Evaluation



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

**Program # 6**

**1. Name of the Planned Program**

Natural Resource Business Institute

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

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
601	Economics of Agricultural Production and Farm Management	25%			
602	Business Management, Finance, and Taxation	25%			
604	Marketing and Distribution Practices	25%			
605	Natural Resource and Environmental Economics	25%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	1.0	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
16757	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
16757	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
132180	0	0	0

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

**1. Brief description of the Activity**

Conduct two 13-week, intensive Natural Resources Business Institutes annually across the state for new and existing natural resource-based businesses. The institute will include forty hours of instruction, homework, and the opportunity for participants to receive college credit.

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

People interested in starting or already running natural resource-based businesses in New Hampshire

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	20	0	0	0
<b>Actual</b>	243	0	0	0

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

**Patent Applications Submitted**

Year: 2010  
 Plan: 0  
 Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
<b>Plan</b>	0	0	
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of people completing the Natural Resource Business Institute
- Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	20	57



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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Percent of participants who start, expand or modify a business enterprise
2	Percent of participants who report completing a planning worksheets on a regular basis

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Percent of participants who start, expand or modify a business enterprise

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	10	5

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 601 - Economics of Agricultural Production and Farm Management
- 602 - Business Management, Finance, and Taxation
- 604 - Marketing and Distribution Practices
- 605 - Natural Resource and Environmental Economics

**Outcome #2**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Percent of participants who report completing a planning worksheets on a regular basis

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	50	4

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 601 - Economics of Agricultural Production and Farm Management
- 602 - Business Management, Finance, and Taxation
- 604 - Marketing and Distribution Practices
- 605 - Natural Resource and Environmental Economics

**V(H). Planned Program (External Factors)**

**External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

**Brief Explanation**

{No Data Entered}

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

**(OPTIONAL SECTION)**

**1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

**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**

Sea Grant and Water Resources

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

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
112	Watershed Protection and Management	10%			
131	Alternative Uses of Land	20%			
133	Pollution Prevention and Mitigation	30%			
135	Aquatic and Terrestrial Wildlife	25%			
307	Animal Management Systems	5%			
903	Communication, Education, and Information Delivery	10%			
	<b>Total</b>	100%			

**Add knowledge area**

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Plan	7.0	0.0	0.0	0.0
Actual	5.0	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
100546	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
100546	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
793080	0	0	0

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

### **1. Brief description of the Activity**

#### **COMMERCIAL FISHERIES**

- Hold educational workshops on the following topics:
  - Focusing efforts on reducing by-catch and increasing selectivity of fishing gear;
  - focusing efforts on reducing sea-bed impacts by mobile fishing gear;
  - facilitating cooperative research partnerships between fishermen and scientists;
  - Safety drill conductor training.
  - Welding safe practices and techniques.
  - Weather interpretation and forecasting.
  - Marine engine repair.
  
- Publish information sheets, technical reviews, and web pages which detail innovative fishing gears and technologies that reduce by-catch, minimize benthic impacts and enhance gear selectivity.

#### **LAND AND WATER CONSERVATION**

- Provide focused training and long-term assistance to communities on natural resource planning and land conservation.
  - Provide direct assistance to towns and conservation groups upon request
  - Conduct land conservation and natural resources workshops and other educational activities as suggested by program staff and as requested by communities and conservation groups
  - Conduct the Natural Resources Outreach Coalition program for communities selected annually.
  - Develop, enhance and deliver presentations (including GIS-based) about land use/water quality to local decision makers
  
- Facilitate community meetings to develop action plans for implementing water and natural resource based planning

## **COASTAL ECOSYSTEM HEALTH AND COMMUNITIES**

- Broadcast educational messages over low power radio (Great Bay Area Radio) to motorists about the estuary, research, educational opportunities and Sea Grant.
- Conduct at least 5 activity-based Great Bay Discovery Cruises.
- Provide information to communities and development professionals to encourage the use of more innovative stormwater management.
- Produce printed, presentation, web and other educational materials

## **MARINE SCIENCE EDUCATION**

- Review and revise existing programs and curriculum materials to support teaching core science standards through a marine context
- Develop new marine education K-12 Sea Trek programs that reflect emerging national scientific issues and address prioritized education standards
- Expand our programs and materials that target adult audiences and recruit and train a cadre of Docents specifically for that role
- Develop programs focused on high school level teachers and students that provide exposure to marine research and encourage students to pursue marine fields in college and beyond
- Develop convenient and effective teacher training in conjunction with all boat-based and field programs utilizing both face-to-face and remote methods
- In partnership with schools and UNH, develop new programs that engage in-service and pre-service teachers directly with researchers, faculty, and graduate students

## **WATER QUALITY**

- Hold water quality monitoring training sessions for new and existing volunteers - conduct field visits for in-depth monitoring and quality assurance
- Provide analytical services, data base management and data analysis for Great Bay Coastal Watch and NH Lakes Lay Monitoring Program collected samples

- Produce annual lake reports and coastal reports on water quality assessments from volunteer monitoring efforts
- Hold regular meetings of the monitors to provide program updates, advanced monitoring technique trainings and data interpretation/presentation skill building. Also conduct needs assessment and evaluation
- Provide data and data interpretation as requested by decision-makers, cooperators and watershed stakeholder groups

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

Commercial fishermen and related industries; land owners and recreational users of New Hampshire's lakes, estuaries, rivers, and ocean beaches; Formal and non-formal educators and K-12 students; policy and decision makers

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	1700	50000	0	0
<b>Actual</b>	1272	0	0	0

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

**Patent Applications Submitted**

Year: 2010  
 Plan: 0  
 Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
<b>Plan</b>	0	0	
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of activity-based Great Bay Discovery Cruises provided to citizens with the opportunity to learn about the estuary aboard the University's research vessel

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	5	0

**Output #2**

**Output Measure**

- Number of motorists passing by the Great Bay estuary exposed to a low power radio station (Great Bay Area Radio) dedicated to informing them with recorded messages on natural history, research, educational opportunities and Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET)

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	30000	0

**Output #3**

**Output Measure**

- Number of water quality monitoring training sessions held for new and existing volunteers

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	2	11

**Output #4**

**Output Measure**

- Number of annual lake reports and coastal reports published on water quality assessments from volunteer monitoring efforts

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	5	6

**Output #5**

**Output Measure**

- Number of new volunteers trained in proper water quality sampling methods and who participate in seasonal sampling as part of the Great Bay Coastal Watch or Lakes Lay Monitoring Program

Not reporting on this Output for this Annual Report

Year	Target	Actual

2010 10 10

**Output #6**

**Output Measure**

- Number of hours NH Lakes Lay Monitoring Program volunteers contribute toward conducting water quality monitoring and analysis activities in their local watersheds

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	8500	5087

**Output #7**

**Output Measure**

- Number of towns and conservation groups provided with direct assistance regarding land and water conservation

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	20	17

**Output #8**

**Output Measure**

- Number of new marine education K-12 Sea Trek programs that reflect emerging national scientific issues and address prioritized education standards

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	3	0

**Output #9**

**Output Measure**

- Number of marine science education programs focused on high school level teachers and students that provide exposure to marine research and encourage students to pursue marine fields in college and beyond

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	5	0

**Output #10**

**Output Measure**

- Number of guides developed to existing curricular and program materials that identify how the marine context can be used to address core content standards

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	5	0

2010 2 0

**Output #11**

**Output Measure**

- Number of convenient and effective teacher training programs held in conjunction with all boat-based and field programs utilizing both face-to-face and remote methods

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	2	0

**Output #12**

**Output Measure**

- Number of new programs developed in partnership with schools and UNH, that engage in-service and pre-service teachers directly with researchers, faculty, and graduate students

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	2	0

**Output #13**

**Output Measure**

- Number of NROC communities provided with water resource/water quality related technical assistance

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	2	2

**Output #14**

**Output Measure**

- Number of educational workshops for commercial fishermen on the following topics: \* Focusing efforts on reducing by-catch and increasing selectivity of fishing gear; \* Focusing efforts on reducing sea-bed impacts by mobile fishing gear; \* Facilitating cooperative research partnerships between fishermen and scientists.

Not reporting on this Output for this Annual Report

Year	Target	Actual
2010	8	48

**Output #15**

**Output Measure**

- Number of published information sheets, technical reviews, and web pages which detail innovative fishing gears and technologies that reduce by-catch, minimize benthic impacts and enhance gear selectivity.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	7	8

**Output #16**

**Output Measure**

- Number of Safety-at-Sea programs held.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	2	1

**Output #17**

**Output Measure**

- Number of homeowners provided with information about home and yard care practices that prevent or minimize contamination of water resources via runoff.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	100	320

**Output #18**

**Output Measure**

- Number of communities and development professionals provided information to encourage the use of more innovative stormwater management.

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	25	0

**Output #19**

**Output Measure**

- Number of fishermen trained in safe welding practices

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	10	0

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of adults and children with a measurable increase in their marine science literacy through specialist and volunteer delivered outcome-based, formal and informal education programs
2	Number of fishermen who choose non-mandatory conservation-minded gear over traditional equipment
3	Number of cooperative research proposals submitted involving scientists and fishermen that focus on reducing benthic impacts of mobile fishing gear are submitted to appropriate programs/agencies
4	Number of fishermen who choose soft-bottom fishing gear over traditional equipment
5	Number of fishermen who successfully complete cooperative research projects
6	Number of communities to develop action plans that include a variety of approaches for making progress in community-based natural resource protection projects.
7	Number of K-12 teachers who adopt marine science concepts and contexts learned through Sea Grant /UNHCE programs that support teaching of core sciences and other content standards
8	Number of K-12 students who improve performance in content areas as a result of teachers incorporating marine science into their lesson plans
9	Percent of new or existing volunteer monitoring programs that request assistance and then initiate enhanced or expanded program efforts due to assistance provided by the project
10	Number of fishermen who gain knowledge increase knowledge of new conservation fishing gear that reduces benthic habitat impact.
11	Number of fishermen who become certified as safety drill conductors.
12	Number of communities to implement or start to implement a natural resource protection project.
13	Number of community decision makers, conservation groups or development professionals who report gaining knowledge about preventing degradation from storm water runoff.
14	Number of community decision-makers and Coverts Cooperators who identify actions they will take to conserve the state's biodiversity.
15	Percent of water quality program participants who indicate an increase in knowledge on the impacts development has on water quality.
16	Number of participating organizations each year that will embark on extensive monitoring/management efforts in their watersheds.

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of adults and children with a measurable increase in their marine science literacy through specialist and volunteer delivered outcome-based, formal and informal education programs

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	0	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #2**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of fishermen who choose non-mandatory conservation-minded gear over traditional equipment

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	5	15

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #3**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of cooperative research proposals submitted involving scientists and fishermen that focus on reducing benthic impacts of mobile fishing gear are submitted to appropriate programs/agencies

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	5	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #4**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of fishermen who choose soft-bottom fishing gear over traditional equipment

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	5	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #5**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of fishermen who successfully complete cooperative research projects

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	5	16

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #6**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of communities to develop action plans that include a variety of approaches for making progress in community-based natural resource protection projects.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	10	16

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

Extension's Land & Water Conservation Program assists New Hampshire communities and conservation groups with land and water conservation planning projects, including natural resources inventories, conservation planning, land protection, public outreach, and building public support. During the reporting period, assistance was provided to 15 towns and two conservation groups and participated in 12 statewide meetings. Direct assistance to communities, workshops and courses involved total participation of 765 participants. Publication of the Taking Action for Wildlife e-newsletter 3 times/year reaches more than 1,300 people with each issue.

**Results**

Improved Information Gathering and Research: These actions help provide local data and information upon which rational conservation decisions can be based.  
 ?Fourteen communities (Barrington, Brentwood, Danville, East Kingston, Fremont, Lempster, Nelson, Nottingham, Rochester, Seabrook, Sandown, Stoddard, Wakefield, Washington), two conservation groups (Lamprey River Watershed Association and Bear Paw Regional Greenways) and participants at 12 statewide events improved their background knowledge for future decision making about natural resources protection.  
 ?247 participants at the 9th Annual Saving Special Places Conference increased their knowledge of a variety of land conservation and stewardship issues. This annual event is co-sponsored and organized by UNHCE, the Society for the Protection of NH Forests, and the Natural Resources Conservation Service.  
 ?60 participants at three Taking Action For Wildlife workshops learned information about wildlife habitat conservation to incorporate into their conservation planning.

?Through the Natural Resources Outreach Coalition (NROC) community assistance, theLamprey River Watershed Association conducted several public outreach sessions, successfully submitted a nomination packet for inclusion of the Lamprey River in the State Rivers program and revised their strategic plan.

?Revision and update of the Method for Evaluating Freshwater Wetlands in New Hampshire.

?Development of Taking Action for Wildlife web pages, a joint effort between UNHCE and NH Fish & Game.

Better Planning for Natural Resources Protection: Through the Taking Action for Wildlife program, six communities (Fremont, Sandown, Lempster, Washington, Nelson and Stoddard) used information from NH?s Wildlife Action Plan in their natural resources inventories and conservation plans. Nelson contacted eight landowners to gauge their interest in land conservation with personalized calls and wildlife information packets. Lempster is developing a natural resources inventory and conservation plan that includes a focus on wildlife. Washington is collaborating with Lempster on land conservation projects along the town boundaries.

Enhanced Policies and Regulation: Through the NROC program, Newmarket applied for and received a grant to hire a consultant to help them develop improved stormwater measures in their subdivision and site plan review regulations.

Progress from Decisions to Actions: As a result of Taking Action for Wildlife, Fremont, Sandown and Danville applied for and received a grant to hire a biologist to inventory the wildlife habitats in the three adjacent communities along the Exeter River. The three communities are conducting public outreach efforts to publicize the project. Fremont is planning a plant and wildlife ?bio-blitz? event for the public in spring 2011. Bradford conducted a public outreach event focused on their Natural Resources Inventory and NH Wildlife Action Plan information.

#### **4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

#### **Outcome #7**

##### **1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of K-12 teachers who adopt marine science concepts and contexts learned through Sea Grant /UNHCE programs that support teaching of core sciences and other content standards

##### **2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	100	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #8**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of K-12 students who improve performance in content areas as a result of teachers incorporating marine science into their lesson plans

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	500	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #9**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Percent of new or existing volunteer monitoring programs that request assistance and then initiate enhanced or expanded program efforts due to assistance provided by the project

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
------	---------------------	--------

2010                      70                      0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #10**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of fishermen who gain knowledge increase knowledge of new conservation fishing gear that reduces benthic habitat impact.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	30	76

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

#### 4. Associated Knowledge Areas

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

#### Outcome #11

##### 1. Outcome Measures

- Not Reporting on this Outcome Measure  
Number of fishermen who become certified as safety drill conductors.

##### 2. Associated Institution Types

- 1862 Extension

##### 3a. Outcome Type:

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	10	23

##### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

**What has been done**

**Results**

#### 4. Associated Knowledge Areas

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife

- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #12**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of communities to implement or start to implement a natural resource protection project.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	2	15

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #13**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of community decision makers, conservation groups or development professionals who report gaining knowledge about preventing degradation from storm water runoff.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	12	246

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #14**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Number of community decision-makers and Coverts Cooperators who identify actions they will take to conserve the state's biodiversity.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	25	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #15**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

Percent of water quality program participants who indicate an increase in knowledge on the impacts development has on water quality.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	50	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife
- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

**Outcome #16**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of participating organizations each year that will embark on extensive monitoring/management efforts in their watersheds.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	3	6

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

The fresh waters of New Hampshire represent a valuable resource contributing to the State's economic base through recreation, tourism, real estate revenues and taxes. In addition some lakes and rivers serve as current or potential drinking water reservoirs/supplies. For most residents our generally pristine waters help to insure a high quality of life. However, New Hampshire currently leads all of the New England states in the rate of new development and redevelopment. The long-term consequences of the resulting pressure and demands on the state's precious water resources remain unknown. Of particular concern is the response of our waters to increasing non-point source pollutant loading due to watershed development and land use activities. Local citizens, lake/watershed associations and local decision-makers remain in dire need of additional information required for the intelligent management of our water resources on the local level. State agencies need to be better informed on water quality changes and trends. Limited financial resources do not allow for adequate monitoring of these waters by state or federal agencies, and the increased development and recreational use require a more accurate assessment of the water quality conditions of our estuaries, lakes, ponds, rivers and streams.

**What has been done**

The NH Lakes Lay Monitoring Program (NH LLMP) that is supported by UNH Cooperative Extension and co-administered by UNH CE and the UNH Center for Freshwater Biology (CFB; College of Life Science and Agriculture) offers a cost-shared, quality assured water quality monitoring and assessment program taking advantage of the commitment of local residents to serve as volunteer monitors. For over thirty years in some cases we have worked with towns and local lake and watershed associations throughout the state providing monitoring and water quality assessment assistance. Over 100 lakes and over 350 tributary streams in NH, and a few lakes in Maine and Massachusetts have been monitored. The water quality data collected by volunteers

provides the information needed for condition assessment as well as the establishment of baseline condition to evaluate the impacts of development, re-development and various land uses/land covers have on water quality. Through training sessions, workshops and quality assurance visits UNH extension faculty and students work with the volunteers to teach them methods for sampling, sample processing and measurement with the result being high quality data collected on a timely basis to detect both problematic situations, that can be addressed early-on to mitigate the damage, and long-term trends.

### Results

1. Ossipee Watershed. Output: Continued to assist in program design/modifications and water quality analysis for the Saco River monitoring program of the Green Mountain Conservation Group. Outcome: This has promoted stronger multijurisdictional (Maine and NH) watershed collaboration and prompted efforts to secure additional grant funding to further assess surface and groundwater impacts. The NH LLMP is currently assisting the GMCG in developing a proposal to create a Watershed Management Plan for the Ossipee Watershed (Carrol County and Maine)
2. Newfound Lake Watershed. Output: Continued to collect data for a water/nutrient budget on Newfound Lake as part of a collaborative effort to designate Newfound Lake as a state "High Quality Water" that includes representation from Plymouth State University, Newfound Lake Region Association, Society for the Protection of New Hampshire Forests, Jeffrey Taylor and Associates, local towns, etc. In 2010 we expanded the water quality monitoring program and trained new volunteer monitors who initiated headwater stream sampling in 2010 with project partners that included GIS mapping assistance by the Society for the Protection of New Hampshire Forests. Outcomes: Community meetings for establishing buy-in of setting outstanding resource water status were provided with monitoring results and lake assessment information in order to make an informed choice. An additional 319 grant was awarded to support the implementation of the Newfound Lake Watershed Management Plan.
4. Acton ME/Wakefield NH Output: Continued to assist in expanded lake monitoring programs and assessments. Outcome: Working with local volunteers, we collected water quality data that will be used to track water quality changes and to help generate phosphorus loading thresholds that will sustain high quality waters (participating lakes include: Horn Pond, Great East Lake, Lovell Lake and Lake Ivanhoe; Carrol County).
5. Mirror Lake (Tuftonboro). Outcome: Using existing data on lake water quality and cyanobacteria blooms we assisted the Mirror Lake Protective Association with expanded water quality monitoring aimed at better understanding watershed phosphorus sources and potential mitigation strategies in association with funding received.
6. Winnepesaukee. Output: Assisted the Lake Winnepesaukee Watershed Partnership in expanding Lake Winnepesaukee water quality sampling to better characterize the current conditions of Meredith Bay, Governor's Island, Saunders Bay and Paugus Bay. Outcome: Current and historical data are being used to manage phosphorus loading through an integrated science based land use planning process. NH DES has selected this collaborative to perform similar analysis and community engagement for Center Harbor and Moultonboro areas of the lake.

### 4. Associated Knowledge Areas

- 112 - Watershed Protection and Management
- 131 - Alternative Uses of Land
- 133 - Pollution Prevention and Mitigation
- 135 - Aquatic and Terrestrial Wildlife

- 307 - Animal Management Systems
- 903 - Communication, Education, and Information Delivery

### **V(H). Planned Program (External Factors)**

#### **External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

#### **Brief Explanation**

{No Data Entered}

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

#### **(OPTIONAL SECTION)**

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

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

#### **Evaluation Results**

**Key Items of Evaluation**

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

**Program # 8**

**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
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	10%			
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	90%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Actual	4.0	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
83789	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
83789	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
660900	0	0	0

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

**1. Brief description of the Activity**

Each year, foodborne diseases cause an estimated 76 million illnesses, 325,000 hospitalizations, and 5000 deaths in the U.S. UNH Cooperative Extension programs target each sector of the food system - from farm to table. Good Agricultural Practices (GAP) programs target farmers and growers while food entrepreneurs are provided Hazard Analysis and Critical Control Point (HACCP) information and resources. UNH Cooperative Extension Family and Consumer Resources Educators implement two food safety programs targeting foodservice workers; SAFE (Safety Awareness in the Food Environment) and the ServSafe® program of the National Restaurant Association Educational Foundation. The SAFE program is a two hour, interactive workshop designed to update food workers in three critical food safety areas; the importance of personal hygiene, recommended storage and cooking temperatures, and how to prevent cross contamination. This workshop is implemented in all 10 New Hampshire's counties. Seven Family and Consumer Resources Educators are certified by the National Restaurant Association's Educational Foundation as ServSafe® instructors. These Educators implement ServSafe® programs throughout the state. Extension Educators, Nutrition Connection staff, and the UNH Cooperative Extension Education Center provide one-on-one and group programs to consumers, including income eligible consumers, on general food safety and food preservation topics.

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

Farmers, growers, food entrepreneurs, foodservice workers, consumers, income eligible consumers

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	{NO DATA}	{NO DATA}	{NO DATA}	{NO DATA}
<b>Actual</b>	1854	0	0	0

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

**Patent Applications Submitted**

Year: 2010  
 Plan:  
 Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
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<b>Actual</b>	0	0	0
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**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

- Number of people who participate in ServSafe; workshops, SAFE (Safety Awareness in the Food Environment)

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	{No Data Entered}	1465

**Output #2**

**Output Measure**

- Number of adults participating in food safety programming through Nutrition Connections educational courses to income eligible New Hampshire residents

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	{No Data Entered}	299

**Output #3**

**Output Measure**

- Number of participants in food safety and preservation education for consumers

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	{No Data Entered}	90

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of food managers/workers who participated in ServSafe and passed the examination with a score of 75% or greater.
2	Number of participants who score 75% or greater on knowledge tests of high risk practices including: Personal hygiene, holding/time and temperature, cooking temperatures, and prevention of contamination.

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

Number of food managers/workers who participated in ServSafe and passed the examination with a score of 75% or greater.

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	{No Data Entered}	188

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

It is estimated that foodborne diseases cause an estimated 76 million illness, 325,000 hospitalizations, and 5000 deaths each year in the U.S. Demographic and lifestyle changes have increasingly shifted the responsibility for the safety of food from the consumer to other sectors of the food system. The National Restaurant Association reports that consumers spend approximately 48% of their food dollar in restaurants. As a state dependent on the tourism industry, the food service industry in New Hampshire is an important sector of the economy. New Hampshire regulations do not require food managers or workers to have formal training in foods safety and/or sanitation.

**What has been done**

The Safety Awareness in the Food Environment program (SAFE) is a one-session program targeting food workers. The program focuses on personal hygiene, cross contamination, and time and temperature principles. SAFE is evaluated with a post-workshop knowledge questionnaire and a food safety practices questionnaire. The program is implemented in all ten New Hampshire counties.

Seven UNH Cooperative Extension Family and Consumer Resources Educators are certified ServSafe® instructors. ServSafe® is a national food safety and sanitation certification program. ServSafe® programs are offered to food managers/workers throughout the state.

**Results**

56 SAFE programs were conducted in FY 2010 reaching 1246 food workers in NH. 976 post-workshop questionnaires were received. 906 participants (93%) scored 75% or greater on the food safety knowledge questionnaire. Seventy-five percent of 392 SAFE participants completing

a post-workshop food safety practices questionnaire indicated they implemented seven food safety practices for 6 months or more. The only food practice not reaching the 75% completion rate for 6 months or more was checking food temperatures with calibrated thermometer at 68%. 219 food managers/workers were administered the ServSafe® examination and/or participated in ServSafe® programs. 188 participants (86%) passed the examination with a score of 75% or greater.

#### 4. Associated Knowledge Areas

- 711 - Ensure Food Products Free of Harmful Chemicals, Including Residues from
- 712 - Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and

#### Outcome #2

##### 1. Outcome Measures

- Not Reporting on this Outcome Measure

Number of participants who score 75% or greater on knowledge tests of high risk practices including: Personal hygiene, holding/time and temperature, cooking temperatures, and prevention of contamination.

##### 2. Associated Institution Types

- 1862 Extension

##### 3a. Outcome Type:

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	{No Data Entered}	909

##### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

**What has been done**

**Results**

#### 4. Associated Knowledge Areas

- 711 - Ensure Food Products Free of Harmful Chemicals, Including Residues from
- 712 - Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and

## **V(H). Planned Program (External Factors)**

### **External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

### **Brief Explanation**

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

### **(OPTIONAL SECTION)**

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

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

### **Evaluation Results**

### **Key Items of Evaluation**



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

**Program # 9**

**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	50%			
704	Nutrition and Hunger in the Population	50%			
	<b>Total</b>	100%			

Add knowledge area

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

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Actual	8.0	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
167578	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
167578	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
1321801	0	0	0

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

**1. Brief description of the Activity**

Nutrition Activities: Nutrition for Children, Nutrition for Teens, 4-H Healthy Living ChallengeThe

Nutrition Connections Program (EFNEP) is delivered to youth through in school, after school, and youth-related organizations.

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

Low income and food stamp-eligible youth 4-H youth development club and after school participants (ages 5 - 18) Parents of low income and food stamp-eligible youth

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	{NO DATA}	{NO DATA}	{NO DATA}	{NO DATA}
<b>Actual</b>	0	0	5823	0

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

**Patent Applications Submitted**

Year: 2010

Plan:

Actual: 0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

2010	Extension	Research	Total
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- # of youth who learn how to choose foods according to the Pyramid and Dietary Guidelines

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
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2010	{No Data Entered}	4823
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**Output #2**

**Output Measure**

- # of youth participating in New Hampshire's Youth Voice: Youth Choice Challenge

Not reporting on this Output for this Annual Report

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2010	{No Data Entered}	1000

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

**V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	# of youth who learn how to choose foods according to the Pyramid and Dietary Guidelines
2	# of youth gaining understanding of the "5210 plan" for healthy eating, active living

**Add Cross-cutting Outcome/Impact Statement or Unintended or Previously Unknown Outcome Measure**

**Outcome #1**

**1. Outcome Measures**

Not Reporting on this Outcome Measure

# of youth who learn how to choose foods according to the Pyramid and Dietary Guidelines

**2. Associated Institution Types**

1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	{No Data Entered}	4823

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Nutrition Connections consists of two federal nutrition initiatives, EFNEP (Expanded Food and Nutrition Education Program) and SNAP-Ed (Supplemental Nutrition Assistance Program Education), whose key mission is to provide education to low-income audiences in the areas of nutrition, food budgeting/shopping, cooking, and food safety. Because we are able to work with people of all ages, the form and content of our programs vary greatly. We are also able to adapt our programs to accommodate the needs of specific populations using a variety of teaching materials, curricula, and publications. Nutrition Connections focuses on improving short and long term outcomes. Individuals gain awareness and knowledge to apply skills and/or change behaviors.

**What has been done**

A total of 4823 youth, in 218 groups, participated in a series of lessons. Youth from pre-school through high school were reached in school, after-school settings and other youth related organizations. EFNEP programming reached 1194 youth and SNAP-Ed programming reached 3629 youth.

Three hundred and fifty-three (353) volunteers extended the resources of Nutrition Connections contributing 1.4 FTE for youth programming and 0.5 FTE for adult programs.

Nine staff provided EFNEP and SNAP-Ed programming in eight counties this past year. Staff formed 63 agreements with agencies and organizations and served on 32 coalitions. A total of \$824,211 grant dollars and \$217,929 in funds to enhance programs in local areas were used to compliment the overall programming by Nutrition Connections.

**Results**

Observations of students from teachers hosting a nutrition series include:

- Eating more fruits and vegetables. Bringing in healthier snacks and having daily conversations about healthier food choices. Trying new foods at lunch time.
- A significant number of children made healthier milk choices as a result of these lessons. Many children switched from whole, 2% and sweetened milks to 1% or skim milk.
- More children are going home and teaching their families what they have learned.
- More kids eat breakfast.

Observations of students from teachers hosting a nutrition series include:

- Spend more of recess playing not just talking.
- Added more physical activity to our school day.
- More students walking the walking path during recess

**4. Associated Knowledge Areas**

- 703 - Nutrition Education and Behavior
- 704 - Nutrition and Hunger in the Population

**Outcome #2**

**1. Outcome Measures**

- Not Reporting on this Outcome Measure

# of youth gaining understanding of the "5210 plan" for healthy eating, active living

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

- Change in Knowledge Outcome Measure
- Change in Action Outcome Measure
- Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2010	{No Data Entered}	141

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Rising health care costs affect the economic vitality of NH; from government, business, and non-profit agencies to families and individuals. Causes and factors related to these increased costs are complex; long-term and multi-faceted solutions are needed. One action-to slow or reverse sedentary lifestyle and the increasing prevalence of overweight and obesity ? can help reduce

costs and enhance the health and well-being of NH citizens.

### **What has been done**

Health has always been a core commitment of 4-H, and is one of the H's in the 4-H pledge. 4-H strives to engage youth and families in a dynamic process of healthy living so they are physically, emotionally, and socially prepared to meet the challenges of the 21st century. 4-H Clubs are spreading the word about healthy choices through the use of their youth voices.

"The Youth Voice ? Youth Choice Healthy Living program sponsored by National 4-H Council with funding from the Wal-Mart Foundation provided \$50,000 grants to 15 grantee sites across the United States and Puerto Rico. Each of the 15 grantees provided programming related to physical activity/fitness, nutrition and healthy eating, and/or personal safety. Many of the programs had an explicit intention to engage teens as teachers and facilitators of programs for younger children.

New Hampshire's Youth Voice: Youth Choice Challenge targeted 1000 youth for participation in one or more of the project goals. Four project goals included:

?4-H clubs, after-school programs, existing forums and 4-H projects emphasize nutrition, physical activity and wellness. Participants learn and understand basic concepts.

?Participants practice and maintain learned wellness practices through personal action plans.

?Participants act locally by identifying community resources and accessibility gaps, joining local wellness projects and initiatives, raising public awareness, and/or leading by example.

?County rodeo round-up events provide a venue for youth to showcase their 4-H healthy living projects, recognize success, increase public awareness and provide recognition of partners including the Walmart Healthy Living Foundation, National 4-H Council and local partners.

### **Results**

This project provided the NH 4-H Youth Development program with tools and resources to establish a focused effort on Health. It generated excitement within the 4-H staff team, and among partnering afterschool programs across the state. It also provided us with a way to establish a base-line of information about where our 4-H youth in terms of understanding and practice of basic nutrition, physical activity and safety practices. Although we don't yet have results of the national survey, our own survey related to the state ?5210? plan provides us with some information to guide future program direction:

4-H participants show an understanding of the ?5210 plan? for healthy eating, active living.

?In a survey completed by a cross-section of 141 4-H youth from five NH counties, 86% (n=124) think that ?healthy living? means making good decisions about what I eat; 63% (n=89) think it means following safety rules; 80% (n=113) think it means being physically active; 77% (n=109) think it means eating more fruits and vegetables each day; 70% (n=109) think it means limiting the time spent watching TV or playing computer games; and 67% (n=95) think it means eating fewer sugary drinks and snacks.

?When asked the meaning of the ?5210 plan?, 53% (n=74) of these same youth correctly identified ?1? in the statement ?get \_\_\_ or more hours of physical activity; and 41% (n=58) correctly identified ?2? for the limit of hours watching TV or playing computer games. The youth did better identify ?0? for amount of sugary drinks and snacks (68%, n=96); and ?5? for number of servings of fruits and vegetables (81%, n=115).

There are three identified outcomes that were not expected:

?Parent enthusiasm - Staff report they did not expect the project to be received as enthusiastically as it has been. Seeing parents excited about their child's experiences and reactions, and seeking ways to become more involved themselves was a pleasant surprise. Some

parents have asked to be involved in program activities with their children, including the walking program in Merrimack County. Parents in Belknap County requested pedometers to track their own success after watching their children have fun learning about healthy active choices. As a result, county staff are considering ways to initiate more family outdoor activities, perhaps in partnership with the NH Parks program.

?Community response ? The project has helped community organizations better understand the 4-H program and mission, and recognize new opportunities for collaborative work. One youth serving agency in northern NH read about the program in the paper and has asked to collaborate in the future.

?Staff enthusiasm ?Staff show great appreciation for the tools and resources made available to their county programs through the project. There is a sense of direction in making the H? for Health more prominent in the day-to-day planning and approaches of volunteers and staff. Staff have rallied around the project wherever possible and unanimously agreed to add a category for ?4-H Healthy Living? to the statewide annual poster contest.

In one afterschool program, enrollment was high for a martial arts club, but low for the 4-H Healthy Living. Working with the martial arts instructor, project staff arranged a joint program. The participants loved the combination of healthy eating with physical activity and the instructor was amazed at the positive results. The youth have formed a Tae Kwon Do 4-H Healthy Living team and have brought the message of nutrition, healthy choices and active lifestyle out to the public through performances at their school, malls and public gatherings. We never expected ?youth voices? could be so well expressed and heard through a partnership of such diverse programs.

#### 4. Associated Knowledge Areas

- 703 - Nutrition Education and Behavior
- 704 - Nutrition and Hunger in the Population

#### V(H). Planned Program (External Factors)

##### External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other

##### Brief Explanation

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

##### (OPTIONAL SECTION)

## 1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.
- Comparison between locales where the program operates and sites without program intervention
- Other

## Evaluation Results

## Key Items of Evaluation