

# 2009 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 170 full- and part-time professional and support staff located in New Hampshire's 10 counties, at the main UNH campus in Durham, and the urban campus in Manchester. More than 4,000 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.

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.

Community Development programs help New Hampshire communities face many emerging and overlapping challenges, which include changing demographics, shifting economic structures, a rise in family and community crises, a decline in volunteerism, loss of jobs and unprecedented growth

in some regions and decline in others.

New planned programs include our ongoing work in food safety and childhood obesity and health. Through the Nutrition Connections program, staff teach low-income families, pregnant and parenting teens, the elderly and children to eat healthfully, stretch food dollars and practice food safety. Food safety programs include training and certification for people working in the food service industry as well as consumers.

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	85.0	0.0	0.0	0.0
Actual	83.0	0.0	0.0	0.0

## II. Merit Review Process

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

- External Non-University Panel
- Expert Peer Review

### 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. For example, 4-H youth development staff in ME, VT, and MA volunteered to review the 4-H youth development plans for NH one year and Agriculture staff reviewed Agriculture plans. This system not only provided New Hampshire with valuable expert-review, but also increased the level of awareness of potential shared programs in neighboring states and helped the reviewers to reflect more critically on their own plans. Each state is reviewed approximately every four years.

## III. Stakeholder Input

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

- Targeted invitation to traditional stakeholder groups
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to non-traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of traditional stakeholder individuals
- Survey of selected individuals from the general public

### 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
- Open Listening Sessions
- Needs Assessments
- Use Surveys

**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
- Meeting with traditional Stakeholder individuals
- Survey of selected individuals from the general public

**Brief explanation.**

See above.

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

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

**Brief explanation.**

Once significant issues were identified, teams of interdisciplinary staff formed and have been developing concept papers (white papers) that describe the issue, provide pertinent data around the issue and identify existing Extension programs that address the issue. These teams are consulting with other non-Extension faculty and stakeholders to determine what additional program needs to be developed and whether Extension is the appropriate organization (has the capacity). Once this occurs logic models will be developed and new programs implemented.

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

{NO DATA ENTERED}

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>
1597075	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>	1597075	0	0	0
<b>Actual Matching</b>	1597075	0	0	0
<b>Actual All Other</b>	16404010	0	0	0
<b>Total Actual Expended</b>	19598160	0	0	0

<b>3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from</b>				
<b>Carryover</b>	{No Data Entered}	{No Data Entered}	{No Data Entered}	{No Data Entered}

**V. Planned Program Table of Content**

<b>S. No.</b>	<b>PROGRAM NAME</b>
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	Program Development and Evaluation
7	Natural Resource Business Institute
8	Sea Grant and Water Resources
9	Food Safety
10	Childhood Obesity

**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%			

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

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

Year: 2009	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
287473	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
287473	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
2952722	0	0	0

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

**1. Brief description of the Activity**

- Implement components of the NH Forest Resources Plan - Conduct, sponsor, co-sponsor or provide educational expertise for over 250 workshops, seminars or educational events.

- Develop statewide and regional coordinated/standardized programs accomplished by Forestry and Wildlife staff working individually or in teams.

- Develop messages and strategies using ownership size, watershed location or landscape location. Audiences, messages and strategies may differ by location in the state.

- Develop key messages for landowners consistent with our public awareness strategy.
- Develop a checklist of topics to cover on site visits
- Landowner outreach to reach new clientele
- Review and update standard operating procedures on staff approaches to landowner site visits.
- Develop an evaluation and improvement process for follow-through on site visits.
- Maintain contact with landowners through newsletters, web page, and special mailings.
- Develop materials to help landowners make informed decisions when selling timber and disseminate these materials through town offices and other means.
- Involve key family members in woodlot visits and woodlot planning
- Reach clientele through training programs (Coverts - Tree Stewards)
- Maintain volunteer's role as ambassadors of messages and programs and not as providers of technical expertise.

**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**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	6700	22000	0	500
<b>Actual</b>	6634	29630	4241	5370

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

**Patent Applications Submitted**

Year: 2009  
 Plan: 0  
 Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	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 reached implementing components of the NH Forest Resources Plan  
Not reporting on this Output for this Annual Report

**Output #2**

**Output Measure**

- Number of workshops, seminars or educational events where educational expertise is offered

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	400	481

**Output #3**

**Output Measure**

- People reached through development of statewide and regional coordinated/standardized programs accomplished by Forestry and Wildlife staff working individually or in teams  
Not reporting on this Output for this Annual Report

**Output #4**

**Output Measure**

- Number of people reached through messages and strategies around ownership size, watershed location or landscape location  
Not reporting on this Output for this Annual Report

**Output #5**

**Output Measure**

- Number of landowners receiving key messages consistent with our public awareness strategy  
Not reporting on this Output for this Annual Report

**Output #6**

**Output Measure**

- Number of site visits where a check list of topics is used  
Not reporting on this Output for this Annual Report

**Output #7**

**Output Measure**

- Number of one-on-one consultations with new landowners  
Not reporting on this Output for this Annual Report

**Output #8**

**Output Measure**

- Number of staff who review, update, and evaluate standard operating procedures on landowner site visits

<b>Year</b>	<b>Target</b>	<b>Actual</b>
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2009 15 15

**Output #9**

**Output Measure**

- Number of people reached through newsletters, web page, and special mailings

Year	Target	Actual
2009	40000	80250

**Output #10**

**Output Measure**

- Number of landowners who receive materials to help them make informed decisions when selling timber  
Not reporting on this Output for this Annual Report

**Output #11**

**Output Measure**

- Number of key family members involved in woodlot visits and woodlot planning  
Not reporting on this Output for this Annual Report

**Output #12**

**Output Measure**

- Number of clientele reached through training programs (Coverts and Tree Stewards)

Year	Target	Actual
2009	550	565

**Output #13**

**Output Measure**

- Number of volunteers who maintain role as ambassadors of messages and programs, but don't provide technical expertise inappropriately  
Not reporting on this Output for this Annual Report

**Output #14**

**Output Measure**

- Number of teachers and educators using Project Learning Tree to teach youth about forest resource issues  
Not reporting on this Output for this Annual Report

**Output #15**

**Output Measure**

- Number of people reached through collaboration with partners: include projects, consultations, committee work on a town, county, state, multi-state basis with partner organizations and agencies include Extension collaborations

Year	Target	Actual
2009	{No Data Entered}	1456

**Output #16**

**Output Measure**

- Number of one-on-one consultations: 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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	1758

**Output #17**

**Output Measure**

- Number of people reached through presentations, workshops and talks

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	13890

## 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
12	Number of professional loggers in NH who increase their knowledge and market forest products to Sustainable Forestry Initiative companies requiring certified loggers through the Professional Loggers Program with NH Timberland Owners Association and the UNH Thompson School
13	Crosscutting narrative for Forestry and Wildlife

**Outcome #1**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	20000	12259

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

**Outcome #2**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	75	63

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

**Outcome #3**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	50	102

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

**Outcome #4**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	350	565

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
124	Urban Forestry
135	Aquatic and Terrestrial Wildlife

**Outcome #5**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	75

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

136 NH licensed foresters out of 300

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

**Outcome #6**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	5000	6945

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

**Outcome #7**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	10	7

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources
135	Aquatic and Terrestrial Wildlife

**Outcome #8**

**1. Outcome Measures**

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

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	10000	19679

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**



**KA Code**    **Knowledge Area**  
 123            Management and Sustainability of Forest Resources

**Outcome #9**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	429

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

**KA Code**    **Knowledge Area**  
 123            Management and Sustainability of Forest Resources

**Outcome #10**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #11**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #12**

**1. Outcome Measures**

Number of professional loggers in NH who increase their knowledge and market forest products to Sustainable Forestry Initiative companies requiring certified loggers through the Professional Loggers Program with NH Timberland Owners Association and the UNH Thompson School

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	240	371

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

**Outcome #13**

**1. Outcome Measures**

Crosscutting narrative for Forestry and Wildlife

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	0

### 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 under private ownership. 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 429 landowners owning 36,649 acres to licensed foresters who wrote forest stewardship plans on over 12,200 acres.

565 Coverts Cooperators and Community Tree Stewards are actively involved in conservation in their communities. Volunteers contributed over 23,000 hours in 2009.

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 \$245,180 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 105,000 acres and reached out to over 50,000 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 \$500,000 of NRCS funds came into New Hampshire for management planning and EQIP in 2009. These funds provided a financial stimulus for the forest-based economy during challenging market conditions.

Minimizing Fragmentation and Sprawl through Community Conservation Planning and Permanent Land Protection: 2 communities completed natural resource inventories as a prelude to conservation planning and identifying important lands to permanently protect. Over 19,679 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

KA Code	Knowledge Area
123	Management and Sustainability of Forest Resources

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

**External factors which affected outcomes**

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

**Brief Explanation**

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

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)

**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**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	20%			
205	Plant Management Systems	20%			
211	Insects, Mites, and Other Arthropods Affecting Plants	5%			
212	Pathogens and Nematodes Affecting Plants	5%			
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	10%			
604	Marketing and Distribution Practices	10%			
	<b>Total</b>	100%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	18.0	0.0	0.0	0.0
Actual	17.5	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
335386	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
335386	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
3444842	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

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	5000	200000	0	0
<b>Actual</b>	30608	63312	375	293

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

##### Patent Applications Submitted

Year: 2009

Plan: 0

Actual: 0

#### Patents listed

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

##### Number of Peer Reviewed Publications

2009	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 attending pasture walks

**Year**

**Target**

**Actual**

2009 100 174

**Output #2**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	1200	1115

**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

**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

**Output #5**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	6000	1938

**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

**Output #7**

**Output Measure**

- Number of people who attend twilight grower meetings

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	600	1640

**Output #8**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	6000	2453

**Output #9****Output Measure**

- Number of Pesticide Applicators attending recertification training

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	1500	365

**Output #10****Output Measure**

- Number of soil and plant analyses conducted by diagnostic labs

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	1250	2995

**Output #11****Output Measure**

- Educational Workshops - Single & multi-day educational events such as grower schools, state-wide grazing events, etc.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	400	894

**Output #12****Output Measure**

- Conferences: Farm & Forest, Producer Association Meetings

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	8000	1810

**Output #13****Output Measure**

- Number of arthropod identification's conducted

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	200	226

**Output #14****Output Measure**

- Number of people reached through publications, fact sheets, news releases, newsletters, web page, TV & Radio Spots

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	61516



**V(G). State Defined Outcomes****V. State Defined Outcomes Table of Content**

<b>O. No.</b>	<b>OUTCOME NAME</b>
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.
11	Number of landscapers, arborists, groundskeepers, urban foresters, and nursery owners that increase their knowledge of the invasive Asian Longhorned Beetle, including identification, life history, impacts, management, and alternative non-host trees to plant.

**Outcome #1**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	120	271

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #2**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	1000	632

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #3**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	250	281

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

**Issue (Who cares and Why)**

Over-application of fertilizers can negatively impact water quality as well as plant growth, and is expensive. Under-application of fertilizers results in poor plant growth and loss of potential yields and profits. Soil tests and plant tissue tests (for perennial fruit crops) are tools that help growers determine nutrient availability and crop needs. Our Objectives:

- Increase use of soil/tissue testing and implementation of recommendations based on results
- Educate growers about the effective use of soil and tissue tests as nutrient planning tools
- Educate growers about how to identify and correct nutrient imbalances in vegetable/fruit crops

**What has been done**

This report focuses on soil tests for home grounds and gardens, plus specific commercial commodities. During the 12 month period from October 2008 to September 2009, UNHCE issued recommendations for:

- 2013 home grounds and gardens samples
- 155 commercial fruit growers' samples
- 184 commercial corn, forage and pasture samples
- 243 commercial vegetable growers' samples
- 260 non-commercial hay and forage samples

Along with other types of samples, recommendations were issued to approximately 1500 farmers, land managers, or citizens for 2995 samples during this period. This reflects a 8% increase over the number of samples done during the previous year. The increase was primarily due to a 25% increase in numbers of home grounds and gardens samples and a 22% increase in non-commercial hay and pasture samples.

### Results

In Fall 2007, a representative sample of 200 NH citizens that had used UNHCE Soil Testing for Home Grounds and Gardens within the past two years were phoned to assess impact of the soil testing program. Of those 200, 127 were reached and interviewed. A representative sample of 106 commercial farmers that had submitted fruit, vegetable, commercial corn, forage and pasture, or non-commercial hay and forage tests were selected. Forty-six were phoned, and 37 were reached and interviewed.

The overwhelming majority of respondents to our survey valued UNHCE Soil testing, found it useful, followed the soil test recommendations, and would not only use the service again, but would also recommend it to others.

Specific impacts, commercial soil tests:

- 82% (32 people) felt that soil test recommendations from UNHCE were useful
- 74% (29 farmers) followed the recommendations and based fertilizer decisions on test results.
- Farmers were not able to estimate whether more or less material was used than would have been used without tests, since they base application decisions on soil tests.
- 79% (31 farmers) planned to test their soil on a regular basis, every 1-3 years.
- 90% (35 people) would recommend soil testing to others.

Commercial farmers were more likely to have learned about soil testing from UNHCE educators or specialists (46%), whereas homeowners rarely (13%) learned about soil testing from educators or specialists. Friends and websites were more common (48%) sources of information about soil testing for homeowners.

## 4. Associated Knowledge Areas

KA Code	Knowledge Area
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

### Outcome #4

#### 1. Outcome Measures

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	150	770

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

**Issue (Who cares and Why)**

Needs assessments undertaken by UNH CE Ag Resources staff have found that NH farmers desire education to develop risk management strategies to minimize risks associated with production, marketing, finances, as well as human resource and legal and environmental issues.

Additionally, NH producers seek assistance with estate and business transfer planning that will sustain a viable business for the incoming generation while providing an adequate retirement for the exiting generation. Finally, producers want to improve their business through enhanced financial management, focusing on understanding economic principles and business planning techniques.

**What has been done**

- \*10 risk management workshops for family farms were conducted.
- \*NH Risk Management Seminar for Agricultural Professionals was offered.
- \*28 agricultural professionals across the Northeast were trained in whole farm planning.
- \*"Transferring the Farm" programs were held in Connecticut, New Hampshire and Vermont.
- \*UNH CE Ag staff provided educational sessions on budgeting analysis, financial records and planning, financing and tax planning.
- \*More than 100 individual farm visits were made that focused on business planning, estate and succession planning, economic feasibility, and sound decision-making.

**Results**

As a result of the farm management activities throughout the state, more than 25 producers reported developing whole farm plans to guide their decisions. Other growers developed estate and farm transition plans that allowed farms to be sold or gifted to future generations. As part of these plans, new business structures have been implemented as well. Several plans for complex situations helped mitigate conflicts between on and off-farm siblings.

More than 50 growers put into place record-keeping systems and use these to assess economic impacts of various on-farm decisions. These include guiding equipment purchases, adding, expanding or deleting enterprises, and assessing alternative production systems and markets.

NH farmers increased their skills and awareness in tax planning and are modifying how they use deductions, depreciation, and professional assistance. Programming has also resulted in farmers procuring new markets including restaurants, food cooperatives, and other such venues, increasing farm profits. Farm efficiency analysis has helped farms increase their gross income by as much as 20% by saving on labor and reducing crop losses.

**4. Associated Knowledge Areas**

**KA Code    Knowledge Area**

601	Economics of Agricultural Production and Farm Management
602	Business Management, Finance, and Taxation
604	Marketing and Distribution Practices

**Outcome #5**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	200	388

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #6**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	200	650

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

NH agriculture, based on small, diversified retail farms and worth approximately \$935 million/year, is conducted on nearly half a million acres. Consumers expect unblemished products and strongly prefer that growers not use chemical pesticides. The UNH CE IPM program teaches growers a holistic approach to pest problems, combining preventative measures, monitoring, and controls. Our IPM program improves economic benefits, reduces potential human health risks, and reduce risks to the environment from pest management methods. Our IPM programs expanded by applying IPM principles to human disease vectors and enabled us to provide assistance to state agencies and officials for human diseases such as West Nile, Lyme's Disease, and Eastern Equine Encephalitis (EEE).

**What has been done**

In FY 09 the IPM program produced a fruit IPM newsletter, a series of 20 grower meetings and workshops, 230 farm visits, 5 new publications, website and other media delivery of information and assistance on hundreds of questions and problems. We ran a network of vegetable and orchard insect traps, posting the data to assist growers. We trained 80 Master Gardeners in IPM, issued several mosquito advisories (EEE risk), and assisted 12 communities considering mosquito control decisions at their town meetings.

**Results**

The UNH CE Integrated Pest Management program assisted farmers to reduce dependence on chemical pesticides, reduce pest injury, and save money while protecting the environment. In FY2009, impacts on the apple industry alone saved \$190,000 and the incidence of pest injury was 5% below pre-IPM levels. In sweet corn, we reduced spraying and reduced cull losses (discarding infested ears) by approximately \$200,000. In greenhouses, we saw continued progress in adopting biological controls with nearly 66% of respondents indicating they have tried them. When this work initiated, less than 10% of greenhouse growers tried biological controls. UNH CE offered information and training that helped NH residents reduce their risk of acquiring Lyme's Disease and EEE. Despite the highest percentage of infected mosquitoes since NH started keeping records, there was only one human EEE case in 2009.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
211	Insects, Mites, and Other Arthropods Affecting Plants
212	Pathogens and Nematodes Affecting Plants
216	Integrated Pest Management Systems

**Outcome #7****1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #8**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	30	46

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #9**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
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2009                      6000                      4266

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

**Issue (Who cares and Why)**

New Hampshire's population now exceeds 1,288,000. Each year UNHCE receives thousands of requests from New Hampshire citizens for education and information on a wide range of topics including home gardening, wildlife, household pests, food preparation and food safety, trees and shrubs and many other topics.

**What has been done**

6858 consumer calls and emails were answered at the Family, Home and Garden Education Center by 174 Master Gardener volunteers. 474 Master Gardener volunteers statewide, 10010 volunteer hours at FHGEC and county education programs and events.

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #10**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #11**

**1. Outcome Measures**

Number of landscapers, arborists, groundskeepers, urban foresters, and nursery owners that increase their knowledge of the invasive Asian Longhorned Beetle, including identification, life history, impacts, management, and alternative non-host trees to plant.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	18570

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
211	Insects, Mites, and Other Arthropods Affecting Plants
216	Integrated Pest Management Systems

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

**External factors which affected outcomes**

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

**Brief Explanation**

{No Data Entered}

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

1. Evaluation Studies Planned

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

**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%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	12.0	0.0	0.0	0.0
Actual	15.5	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
303444	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
303444	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
3116762	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

Project/activity volunteer training-multiple delivery methods

Club/group organization, management, and reporting  
 4-H Foundation work (local and state-wide)  
 Marketing / PR, general 4-H, newsletters, specific events or activities  
 Fund raising events and activities  
 4-H club/group/session- youth leadership/citizenship development  
 Event and activity development and management  
 Subject matter/life skill training-multiple delivery methods  
 Records, Resume, recognition opportunities  
 County Fair

4-H After school (includes coalitions, meetings, staff training, etc.)  
 CYFAR &ndash (includes coalitions, meetings, staff training, etc.)  
 OMK - (includes coalitions, meetings, staff training, etc.)  
 Youth coalition development/participation  
 Technical support to youth serving agencies/organizations

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

Youth &ndash 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**

<b>2009</b>	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Plan</b>	2400	2000	23500	5000
<b>Actual</b>	14605	720	10623	607

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

**Patent Applications Submitted**

Year: 2009  
 Plan: 0  
 Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

<b>2009</b>	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>	0	0	
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of middle managers supported and recognized  
Not reporting on this Output for this Annual Report

**Output #2**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	100	237

**Output #3**

**Output Measure**

- Number of volunteers supported and recognized

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	3500	1356

**Output #4**

**Output Measure**

- Number of project/activity volunteers trained  
Not reporting on this Output for this Annual Report

**Output #5**

**Output Measure**

- Number of clubs/groups supported

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	400	557

**Output #6**

**Output Measure**

- Number of youth participating in 4-H camp

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	700	147

**Output #7**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	25	45

**Output #8**

**Output Measure**

- Number of youth participating in subject matter/life skill training  
Not reporting on this Output for this Annual Report

**Output #9**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	100	447

**Output #10**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	35	447

**Output #11**

**Output Measure**

- Number of youth serving on coalitions/boards in partnership with adults  
Not reporting on this Output for this Annual Report

**V(G). State Defined Outcomes****V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	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 NH 4-H YD new volunteers who demonstrate an increase in their understanding and use of positive youth development concepts when working with youth.
4	Number of NH 4-H YD middle management volunteers who gain knowledge and practice skills to master specific leadership roles.
5	Number of volunteers on UNHCE targeted boards, committees and collaborations who report increased recognition of the value of youth on their boards
6	Number of youth and adults surveyed on involvement in 4-H YD programs who increase knowledge and skills related to successful community action.
7	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.
8	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
9	Number of targeted partnerships, coalitions, and groups who report the sharing or acquisition of resources through significant Extension involvement.

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

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	900	1503

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The development of critical life skills is universally recognized as a primary task of childhood and adolescence in preparation for healthy and productive futures. Without the basic skills of effective communication, goal setting, decision making, problem solving, and conflict resolution, young adults have a difficult time acquiring and retaining employment, living on their own, and starting a family.

**What has been done**

Through 4-H, screened and trained volunteer leaders guide youth in acquiring and practicing critical life skills in safe program environments that meet the basic needs of youth for belonging, mastery, independence and generosity. Critical program components used in New Hampshire's 4-H Youth Development program to achieve these goals include juried 4-H curriculum, educational events and activities, and varied delivery methods including 4-H clubs, afterschool programs, and camps. UNH Cooperative Extension staff provides 4-H volunteers with program orientation, ongoing training and curriculum resources related to project areas and core life skills.

**Results**

The Annual 4-H Group Activity Report asks 4-H volunteers to assess how 4-H has influenced the youth they work with in their groups. Statewide, volunteers from the 164 reporting groups answered questions about their perceptions related to the skills learned and practiced by the 1,893 4-H members.

\*One-quarter of 4-H youth applied leadership skills (26%, n=487); one-quarter served as an officer (25%, n=472); and 16% served on a committee (n=301) at the local, county, and/or state level at some time during the program year. Examples include serving as an officer in their 4-H group, mentoring younger members as a junior leader, organizing a special activity, and assuming a major responsibility during an event or activity.

\*A majority of 4-H youth participated in at least one county 4-H event (79%, n=1,501) and one in five participated in at least one state event (20%, n=381). These activities reinforced a sense of belonging to something larger than their own local 4-H group. They also provided opportunities for youth to gain experience meeting youth from other communities, learn how to be part of an organized activity, and share knowledge and skills with others

\*Over half of 4-H youth modified his/her opinion (55%, n=1,045) as a result of their 4-H participation. This often includes becoming more tolerant of differences, respecting and following constructive suggestions for improvement, and learning to value time and organizational practices.

\*4-H provides youth with community service learning opportunities that help them learn responsibilities of citizenship and become contributing and connected members of society. Over three-quarters of the reporting



groups (82%, n =121) indicated the group members had planned and completed one or more community service projects during the past year. There were 239 such projects reported. They reported 1,716 youth and 989 adults as participating in these community service projects. A total of 8,290 hours were contributed to these projects including 4,177 by the youth and 4,237 by the adults. At the 2007 Independent Sector rate of \$19.51 per hour of volunteer time, these community service project contributions represent \$161,738 in unpaid services.

#### 4. Associated Knowledge Areas

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

#### Outcome #2

##### 1. Outcome Measures

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

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2009	1000	1452

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

###### Issue (Who cares and Why)

Positive youth development is the conceptual foundation of the 4-H program. The development of critical life skills is universally recognized as a primary task of childhood and adolescence. Young adults are better equipped for adulthood when they master basic skills of effective communication, goal setting, decision making, problem solving, and conflict resolution.

###### What has been done

Through 4-H Animal Science Projects, youth acquire and practice critical life skills to meet basic needs for belonging, independence, generosity and master. The NH 4-H Youth Development program trains and supports 4-H volunteers to incorporate life skills development across all programs and delivery methods. Youth gain knowledge, and learn and practice new skills in a variety of activities including quiz bowls, shows, and presentations.

###### Results

During the 2009 program year, 292 4-H youth participants in animal science programs (10% of 2,933 members) responded to a post-reflective survey asking them to assess how 4-H has influenced their development of knowledge and skills. The survey was distributed at all state animal science events held during the year. One quarter of the surveyed youth (24%) had participated in 4-H for two years or less, one-third (38%) had participated from three to five years, and one-quarter (25%) had participated from six to eight years. The remaining youth (14%) reported participating from nine to over eleven years. All of the youth were age 12 or older, with the majority between age 13 and 16 (75%).

Goal Setting - 4-H provides opportunities for youth participating in animal science projects to plan their projects by setting goals and strategies to reach these goals.

\*86% of the surveyed youth (n=250) reported that now after participating in 4-H they "usually" or "always" think about different ways to reach my goals, compared with 52% (n=151) who reported they "usually" or "always" did this back before they participated in 4-H. This is an improvement for 99 youth (34%).

\*76% of these youth (n=222) "usually" or "always" break goals into logical steps and work through these steps to achieve their goal now after participating in 4-H. In reflecting back, 37% (n=107) of these youth think they did this before participating in 4-H. This is an improvement for 115 of the youth (39%).

Organizational and Presentation Skills - 4-H provides youth with opportunities to gather and organize information, and use it to present their ideas to others.

\*91% of surveyed youth (n=266) reported that now, after participating in 4-H, they "usually" or "always" know how to gather and organize information they need to make a presentation. In reflecting back, before participating in 4-H, 55% of these youth (n=161) reported they "usually" or "always" knew how to do this. This is an improvement for 105 youth (36%).

\*74% of these youth (n=216) report that now after participating in 4-H they "usually" or "always" feel confident when speaking in front of others, compared with 29% (n=85) youth who "usually" or "always" felt this way back before participating in 4-H. This is an improvement for 131 youth (45%).

\*88% of surveyed youth (n=257) reported that now, after participating in 4-H, they "usually" or "always" use suggestions from others to improve presentation skills. Over half of these youth (54%, n=157) report they "usually" or "always" did this back before participating in 4-H. This is an improvement for 100 youth (34%).

Interpersonal and Conflict Resolution Skills - Learning to make and keep friends, be accepting of others, and resolve problems and conflicts are critical life skills that are encouraged and practiced through 4-H.

\*90% of surveyed youth (n=260) report that now, after participating in 4-H, they "usually" or "always" make friends who are a positive influence, compared with 75% (n=218) who believed this back before their 4-H experiences. This is an improvement for 42 youth (14%).

\*88% of these youth (n=258) believe that now, after participating in 4-H, they "usually" or "always" know how to solve conflicts in ways that are not hurtful to others. In reflecting back before their 4-H experiences, 67% (n=195) believed they "usually" or "always" did this. This is an improvement for 63 youth (22%).

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
806	Youth Development

#### Outcome #3

##### 1. Outcome Measures

Number of NH 4-H YD new volunteers who demonstrate an increase in their understanding and use of positive youth development concepts when working with youth.

##### 2. Associated Institution Types

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	150	31

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #4**

**1. Outcome Measures**

Number of NH 4-H YD middle management volunteers who gain knowledge and practice skills to master specific leadership roles.

Not Reporting on this Outcome Measure

**Outcome #5**

**1. Outcome Measures**

Number of volunteers on UNHCE targeted boards, committees and collaborations who report increased recognition of the value of youth on their boards

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

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

2009

60

13

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services

**Outcome #6**

**1. Outcome Measures**

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

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	1716

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services
806	Youth Development

**Outcome #7**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	500	977

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
806	Youth Development

**Outcome #8**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #9**

**1. Outcome Measures**

Number of targeted partnerships, coalitions, and groups who report the sharing or acquisition of resources through significant Extension involvement.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	0	17

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services
806	Youth Development

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

**External factors which affected outcomes**

- Economy
- Appropriations changes
- Populations changes (immigration, new cultural groupings, etc.)

**Brief Explanation**

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

**1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)

**Evaluation Results**

**Key Items of Evaluation**

**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
131	Alternative Uses of Land	30%			
805	Community Institutions, Health, and Social Services	40%			
903	Communication, Education, and Information Delivery	30%			
<b>Total</b>		100%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	3.0	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
95825	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
95825	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
984240	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**

Primarily 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**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	1000	2000	0	0
<b>Actual</b>	2514	1830	189	0

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

**Patent Applications Submitted**

Year: 2009  
 Plan: 0  
 Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	Extension	Research	Total
<b>Plan</b>	0	0	
<b>Actual</b>	1	1	2

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

**Output Target**



**Output #1**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	20	28

**Output #2**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	600	534

**Output #3**

**Output Measure**

- Number of people viewing web-based Inventory Citizen Engagement/Leadership Resources  
Not reporting on this Output for this Annual Report

**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.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	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.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	10	10

**V(G). State Defined Outcomes****V. State Defined Outcomes Table of Content**

<b>O. No.</b>	<b>OUTCOME NAME</b>
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 - Strengthening NH Communities

**Outcome #1**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	20	15

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services
903	Communication, Education, and Information Delivery

**Outcome #2**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	20	3

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services

**Outcome #3**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	15	15

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services

**Outcome #4**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	70

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services

**Outcome #5**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	15	7

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
805	Community Institutions, Health, and Social Services
903	Communication, Education, and Information Delivery

**Outcome #6**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2009	100	90

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
805	Community Institutions, Health, and Social Services

**Outcome #7**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	15	9

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services

**Outcome #8**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	30	30

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
805	Community Institutions, Health, and Social Services

**Outcome #9**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2009	10	50

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
805	Community Institutions, Health, and Social Services
903	Communication, Education, and Information Delivery



**Outcome #10**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	15	101

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services

**Outcome #11**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	132

### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

**What has been done**

**Results**

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services
903	Communication, Education, and Information Delivery

## Outcome #12

### 1. Outcome Measures

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 Action Outcome Measure

### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2009	10	10

### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

**What has been done**

**Results**

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services
903	Communication, Education, and Information Delivery

**Outcome #13****1. Outcome Measures**

Crosscutting narrative - Strengthening NH Communities

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Agencies and organizations are under increasing pressure to respond to societal needs, including changing demographics, shifting economic structures, emerging societal crises, unprecedented growth in some regions, and decline in others. In the midst of the recession, the needs of public stakeholders have increased, yet support for service providers has decreased.

**What has been done**

- \* Facilitated strategic planning processes for six-plus organizations/agencies, as follows:
  - \* Helped NH Stimulus office and UNH Office of the VP for Research to engage the public in a statewide (telebroadcast) forum on the Economic Stimulus Package.
  - \* Assisted NH Growth & Develop. Round table conduct strategic planning & outreach to unite interests of conservation & workforce housing.
  - \* Guided Save Great Bay coalition through a strategic/action planning process to provide education & outreach and policy direction aimed at protecting Great Bay).
  - \* Moderated forum sponsored by the NH Charitable Foundation and NH Housing Fin. Authority on smart growth action steps.
  - \* Helped Ashland conduct strategic planning/ problem solving for the Select Board.
  - \* Engaged two communities in Community Profiles Visioning processes (Derry and Henniker).

**Results**

Each of the organizations/agencies that worked with Cooperative Extension formulated action plans that consider the needs of stakeholders. As a result of these plans, the agencies/organizations have built public value (and therefore support). As examples, the Growth & Development Round table (GDR) secured long-term support to sustain the Round table's work and three communities received funding (facilitated by GDR) to implement innovative land use plans/policies to preserve natural resources and build the stock of affordable housing. UNH Cooperative Extension assisted two of these communities in their strategic planning and implementation process, supported though GDR funding. Two communities have already preserved land and/or set aside land for conservation, while the third community is working on its Master Plan which outlines the community's vision for how it will grow and develop physically.

**4. Associated Knowledge Areas**

**KA Code    Knowledge Area**

131	Alternative Uses of Land
805	Community Institutions, Health, and Social Services
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
- Competing Public priorities
- Populations changes (immigration, new cultural groupings, etc.)

**Brief Explanation**

{No Data Entered}

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

1. Evaluation Studies Planned

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

**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**

<b>KA Code</b>	<b>Knowledge Area</b>	<b>%1862 Extension</b>	<b>%1890 Extension</b>	<b>%1862 Research</b>	<b>%1890 Research</b>
703	Nutrition Education and Behavior	40%			
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	30%			
724	Healthy Lifestyle	10%			
801	Individual and Family Resource Management	10%			
802	Human Development and Family Well-Being	10%			
	<b>Total</b>	100%			

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

<b>Year: 2009</b>	<b>Extension</b>		<b>Research</b>	
	<b>1862</b>	<b>1890</b>	<b>1862</b>	<b>1890</b>
Plan	27.0	0.0	0.0	0.0
Actual	10.0	0.0	0.0	0.0

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

<b>Extension</b>		<b>Research</b>	
<b>Smith-Lever 3b &amp; 3c</b>	<b>1890 Extension</b>	<b>Hatch</b>	<b>Evans-Allen</b>
191649	0	0	0
<b>1862 Matching</b>	<b>1890 Matching</b>	<b>1862 Matching</b>	<b>1890 Matching</b>
191649	0	0	0
<b>1862 All Other</b>	<b>1890 All Other</b>	<b>1862 All Other</b>	<b>1890 All Other</b>
1968481	0	0	0

**V(D). Planned Program (Activity)****1. Brief description of the Activity**

Nutrition Connections - educational courses to income eligible New Hampshire residents' - ability to meet nutritional needs through available resources. Includes EFNEP (Expanded Food and Nutrition Education Program) and FSNEP (Food Stamp Nutrition Education Program.)

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.

Prepare for Eldercare - Cooperative Extension and AARP working together with local partners to develop effective delivery mechanisms to reach out to family caregivers with limited incomes and those whose care recipients may have limited incomes and resources

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, child care providers, policy makers, human service agencies, families, food service workers

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

**1. Standard output measures**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	10000	200000	1750	0
<b>Actual</b>	59210	35148	10438	27

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

**Patent Applications Submitted**

Year: 2009

Plan: 0

Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	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**

- Percent increase in web usage of Lighten Up! New Hampshire web site  
Not reporting on this Output for this Annual Report

**Output #2**

**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

**Output #3**

**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)

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	1100	4807

**Output #4**

**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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	500	84

**Output #5**

**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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	1000	3709

**Output #6**

**Output Measure**

- Number of adults participating in 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

**Output #7**

**Output Measure**

- Number of youth participating in 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

**Output #8**

**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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	8000	44935

**Output #9**

**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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	4000	1671



## 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 program participants who report their intention to apply their understanding of general developmental milestones and progressions in ways that support their child's progress - socially, emotionally, physically, and intellectually
4	Number of participants who report an increase in their physical activity
5	Number of participants who report eating nearer to the recommended number of cup equivalents from the Fruits and Vegetable Group
6	Number of participants who adopt one or more healthier food/nutrition practices (choose foods according to MyPyramid and the Dietary Guidelines)
7	Number of participants who report eating nearer to MyPyramid amounts (unspecified)
8	Number of participants who report keeping food at safe temperatures
9	Number of participants who practice personal hygiene such as hand washing
10	Number of program participants who document an increase in their financial literacy on evaluation instruments
11	Number of resource and referral agencies that make Better Kid Care training available in NH
12	Number of youth who learn how to choose foods according to the Pyramid and Dietary Guidelines
13	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
14	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.
15	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.
16	Participants adopt healthier food/nutrition practices and increase physical activity (Crosscutting narrative statement)
17	Financial Resource Management - participants document improved money management practices and an increase in their financial literacy (Crosscutting narrative statement).

**Outcome #1**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	61

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #2**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	875	1083

### 3c. Qualitative Outcome or Impact Statement

#### Issue (Who cares and Why)

See crosscutting narrative statement

#### What has been done

#### Results

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management

## Outcome #3

### 1. Outcome Measures

Number of program participants who report their intention to apply their understanding of general developmental milestones and progressions in ways that support their child's progress - socially, emotionally, physically, and intellectually

### 2. Associated Institution Types

- 1862 Extension

### 3a. Outcome Type:

Change in Action Outcome Measure

### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2009	250	0

### 3c. Qualitative Outcome or Impact Statement

#### Issue (Who cares and Why)

#### What has been done

#### Results

### 4. Associated Knowledge Areas

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

**Outcome #4**

**1. Outcome Measures**

Number of participants who report an increase in their physical activity

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	1750	124

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

**Issue (Who cares and Why)**

See crosscutting narrative statement

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior
724	Healthy Lifestyle

**Outcome #5**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

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

2009

200

270

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

**Issue (Who cares and Why)**

See crosscutting narrative statement

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior
724	Healthy Lifestyle

**Outcome #6**

**1. Outcome Measures**

Number of participants who adopt one or more healthier food/nutrition practices (choose foods according to MyPyramid and the Dietary Guidelines)

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	600	283

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

**Issue (Who cares and Why)**

See crosscutting narrative statement

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior
724	Healthy Lifestyle

**Outcome #7**

**1. Outcome Measures**

Number of participants who report eating nearer to MyPyramid amounts (unspecified)

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	300	388

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

**Issue (Who cares and Why)**

See crosscutting narrative statement

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior
724	Healthy Lifestyle

**Outcome #8**

**1. Outcome Measures**

Number of participants who report keeping food at safe temperatures

Not Reporting on this Outcome Measure

**Outcome #9**

**1. Outcome Measures**

Number of participants who practice personal hygiene such as hand washing

Not Reporting on this Outcome Measure

**Outcome #10**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	700	1202

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

**Issue (Who cares and Why)**

See crosscutting narrative statement

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
801	Individual and Family Resource Management

**Outcome #11**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	15	1

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #12**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #13**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #14**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	31

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

**Issue (Who cares and Why)**



**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #15**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	274

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #16**

**1. Outcome Measures**

Participants adopt healthier food/nutrition practices and increase physical activity (Crosscutting narrative statement)

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	0

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

**Issue (Who cares and Why)**

Physical Activity and nutrition play vital roles in overall health. Research has found that diet is associated with the leading causes of death; many are preventable; heart disease, diabetes, obesity and several types of cancer. Following the recommendations of the Dietary Guidelines and MyPyramid can lower the risk of disease. Given rising rates of obesity in NH, UNH Cooperative Extension remains committed to education focused on encouraging physical exercise and diet/healthy lifestyle choices.

**What has been done**

UNH Cooperative Extension Nutrition Connections Program, Family and Consumer Resources and 4 H Youth Development staff implement the nutrition and health programming in New Hampshire. Activities target physical activity, nutrition, community involvement and obesity awareness and prevention. The Nutrition Connections Program mandate is to work with limited income adults, youth and families. Programming is evaluated with a pre/post survey and a pre/post analysis of foods after a series of lessons.

**Results**

1996 families participated in one or more education lessons an increase of over 700 families and 4957 youth were reached. Pre/post food recalls and surveys show that: 49% eat closer to the recommendation for fruit, increased 0.3 servings; 60% eat closer to the vegetable recommendation, increased 0.4 servings; 97% eat closer to the recommendations of the Dietary Guidelines and MyPyramid; 86% improved at least one nutrition practice: choosing healthy foods, not using salt, reading food labels; 22% improved the amount of daily physical activity closer to 30 minutes per day; 30% more often did not allow meat and dairy foods to sit out for more than two hours; 24% always follow the recommended practice; 46% more often did not thaw foods at room temperatures; 23% always follow the recommended practice; 76% improved at least one or more food resource management practice: planning meals, comparing prices; using grocery list; not running out of food

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior
724	Healthy Lifestyle

**Outcome #17**

**1. Outcome Measures**

Financial Resource Management - participants document improved money management practices and an increase in their financial literacy (Crosscutting narrative statement).

**2. Associated Institution Types**

- 1862 Extension

### 3a. Outcome Type:

Change in Action Outcome Measure

### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2009	{No Data Entered}	0

### 3c. Qualitative Outcome or Impact Statement

#### Issue (Who cares and Why)

The changing economy facing New Hampshire has made every individual and family vulnerable to potential financial instability due to job loss, decreased retirement or college education portfolios and the rising costs and access to services for basic survival, such as food, housing, heating, transportation, child care, and health care. Particularly at risk, are people with already limited financial resources, retirees who rely on Social Security or pension incomes and people with insufficient savings in particular retirement savings. Older persons carry debt loads with fixed incomes, dwindling retirement savings and, in many cases, devalued homes. Youth are ill-prepared and lack skills to manage their finances. This past year, some New Hampshire residents wondered how they were going to pay their bills or keep their homes. Others were concerned about their future financial security and savings.

#### What has been done

Most people desire the ability to save for the future while keeping pace with day-to-day needs. Those with poor money skills are risking their financial security. Research has shown that adequate financial assets provide security and have economic and social effects on families and children. Financial assets can result in less economic strain on households, more financial resiliency and less risk of poverty spanning across generations. Our money management education tools are designed to address the most needed financial skills. Our programs: Managing Money in Tough Times, Making Money Work For You, Credit CheckUp, Don't Get Crushed by Debt, Legal Issues: Are You Prepared?, Take the Road to Financial Security in Later Life, High School Financial Planning Program, New Hampshire Saves and Earned Income Tax Education have made a tangible difference in NH residents' lives.

#### Results

At the end of the educational workshops, 68% of participants reported increasing savings by an average of \$75 a month. Eighty two percent will save towards having an emergency fund due to education. Eighty three percent reported they will manage credit and reduce debt. Eighty seven percent will develop a spending savings plan. Ninety five percent of participants report that they expect to improve money management skills as a result of taking these workshops. Ninety five percent expect to increase confidence in their ability to manage money in tough financial times. Ninety five percent expect to use the money management skills learned. In the third annual America Saves/New Hampshire Saves campaign, New Hampshire residents pledged to save over \$30,000 a month to build wealth not debt. Under the New Hampshire Statewide EITC Alliance organized by UNH Cooperative Extension, for tax year 2008 there were 12,663 New Hampshire individual and families who went to one of the New Hampshire free tax preparation sites with certified IRS volunteers. Saving money on the tax preparation provided \$1,582,875 for these taxpayers.

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
801	Individual and Family Resource Management

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

**External factors which affected outcomes**

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

**Brief Explanation**

{No Data Entered}

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

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)

**Evaluation Results**

{No Data Entered}

**Key Items of Evaluation**

{No Data Entered}

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

**Program # 6**

**1. Name of the Planned Program**

Program Development and Evaluation

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

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
902	Administration of Projects and Programs	100%			
	<b>Total</b>	100%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	0.0	0.0
Actual	0.0	0.0	0.0	0.0

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

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

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

**1. Brief description of the Activity**

This work is being discontinued as a planned program - but will continue under our administrative function.

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

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

**1. Standard output measures**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	80	180	0	0
<b>Actual</b>	0	0	0	0

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

### Patent Applications Submitted

Year: 2009

Plan: 0

Actual: 0

### Patents listed

## 3. Publications (Standard General Output Measure)

### Number of Peer Reviewed Publications

2009	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 staff attending in-service opportunities and training using the logic model to develop outcome-based programs, evaluation methods/tools, use of new on-line system, and writing impact statements  
Not reporting on this Output for this Annual Report

#### Output #2

##### Output Measure

- Number of staff who use web-based support for outcome-based program development, evaluation and reporting  
Not reporting on this Output for this Annual Report

#### Output #3

##### Output Measure

- Number of one-on-one consultations with staff requiring assistance in outcome-based program development, evaluation tools, data analysis, using the on-line planning and reporting system; and writing impact reports  
Not reporting on this Output for this Annual Report

#### Output #4

##### Output Measure

- Number of staff receiving email tips/newsletter on program development and evaluation topics; reporting system use; and updates to web page support

Not reporting on this Output for this Annual Report

**V(G). State Defined Outcomes****V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Percent of UNHCE staff attending professional development workshops who use program development resources to develop, submit, and implement evaluation plans that can accomplish measuring formative and summative data for their programs.
2	Percent of staff who report using data for reports, improving programs, making decisions about future programs, or other uses
3	Percent of UNHCE Extension Educator staff who submit outcome-based plans and evaluation data according to the plans
4	Percent of UNHCE staff who attend PD and E professional development functions who show an increase in skills and knowledge on a post-workshop test designed to measure knowledge and skills in developing outcome-based programs and using appropriate evaluation methodology
5	Percent of staff using the on-line planning and reporting system who report having the appropriate skills and knowledge to plan and report outcome data using the system



## **Outcome #1**

### **1. Outcome Measures**

Percent of UNHCE staff attending professional development workshops who use program development resources to develop, submit, and implement evaluation plans that can accomplish measuring formative and summative data for their programs.

Not Reporting on this Outcome Measure

## **Outcome #2**

### **1. Outcome Measures**

Percent of staff who report using data for reports, improving programs, making decisions about future programs, or other uses

Not Reporting on this Outcome Measure

## **Outcome #3**

### **1. Outcome Measures**

Percent of UNHCE Extension Educator staff who submit outcome-based plans and evaluation data according to the plans

Not Reporting on this Outcome Measure

## **Outcome #4**

### **1. Outcome Measures**

Percent of UNHCE staff who attend PD and E professional development functions who show an increase in skills and knowledge on a post-workshop test designed to measure knowledge and skills in developing outcome-based programs and using appropriate evaluation methodology

Not Reporting on this Outcome Measure

## **Outcome #5**

### **1. Outcome Measures**

Percent of staff using the on-line planning and reporting system who report having the appropriate skills and knowledge to plan and report outcome data using the system

Not Reporting on this Outcome Measure

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

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

- Economy
- Appropriations changes
- Populations changes (immigration, new cultural groupings, etc.)

### **Brief Explanation**

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

1. Evaluation Studies Planned

- After Only (post program)
- Retrospective (post program)

**Evaluation Results**

**Key Items of Evaluation**

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

**Program # 7**

**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%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	0.5	0.0	0.0	0.0
Actual	0.8	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
15971	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
15971	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
164040	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**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	40	0	0	0
<b>Actual</b>	45	0	0	0

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

**Patent Applications Submitted**

Year: 2009  
 Plan: 0  
 Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	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

Year	Target	Actual
2009	20	25

**V(G). State Defined Outcomes****V. State Defined Outcomes Table of Content**

<b>O. No.</b>	<b>OUTCOME NAME</b>
1	Percent of participants who start, expand or modify a business enterprise
2	Percent of participants who are active in groups that advocate for an improved natural resource business environment
3	Percent of participants who report completing a planning worksheets on a regular basis
4	Percent of participants who indicate on a post institute survey they gained information and/or experiences to help reach their personal goals

**Outcome #1**

**1. Outcome Measures**

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

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	10	85

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

**Outcome #2**

**1. Outcome Measures**

Percent of participants who are active in groups that advocate for an improved natural resource business environment

Not Reporting on this Outcome Measure

**Outcome #3**

**1. Outcome Measures**

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

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	50	25

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

**Issue (Who cares and Why)**

What has been done

Results

**4. Associated Knowledge Areas**

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

**Outcome #4**

**1. Outcome Measures**

Percent of participants who indicate on a post institute survey they gained information and/or experiences to help reach their personal goals

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	40	80

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

**Issue (Who cares and Why)**

Businesses directly or indirectly involved with farming, fishing or forestry enterprises not only make significant contributions to the New Hampshire economy, but also provide stewardship of the state's natural resources and a working landscape benefiting citizens and attracting tourists. If the present natural resource businesses are to continue and new ones start, they need to carefully evaluate their personal goals, resource base and enterprise

options. UNH Cooperative Extension is familiar with and especially positioned to assist natural resource businesses through a natural resource business institute.

**What has been done**

Twenty-five participants registered for the 13 week Natural Resources Business Institute held in Durham, targeting agricultural and forestry-based enterprises from the eastern section of the state. The series was co-conducted by an interdisciplinary team including agriculture, natural resources, 4-H, and family and consumer resources educators.

**Results**

Twenty (80%) participants completed the course assignments demonstrating application of the knowledge gained and received FSA borrower certification, 16 (64%) earned 4 CEUs. 20 business were represented; 17 (85%) of the businesses completed the course. A follow-up survey to measure the level of implementation of past participants is in the development stage, but an immediate post-program evaluation indicated participant satisfaction that the course had met their objectives and that they had gain information and experiences helpful to reach their personal goals. Comments regarding how information was currently being applied included: "Writing a mission & vision statement, creating a timeline, and soil survey levels"; "Clarifying family roles & business roles, finding funding - FSA loan applications in process, animal production, housing considerations, developing budgets & reports"; "My goals worksheet has been hyped up and implemented. I've become more organized with my business information"; and "Cash flow, budget, info on leases, soil maps, web links, FSA/First Pioneer loans."

**4. Associated Knowledge Areas**

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

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

**External factors which affected outcomes**

- Economy
- Competing Programmatic Challenges

**Brief Explanation**

{No Data Entered}

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

1. Evaluation Studies Planned

- After Only (post program)
- Time series (multiple points before and after program)

**Evaluation Results**

{No Data Entered}

**Key Items of Evaluation**

{No Data Entered}



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

**Program # 8**

**1. Name of the Planned Program**

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	30%			
131	Alternative Uses of Land	25%			
133	Pollution Prevention and Mitigation	20%			
135	Aquatic and Terrestrial Wildlife	10%			
307	Animal Management Systems	10%			
903	Communication, Education, and Information Delivery	5%			
	<b>Total</b>	100%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Plan	6.0	0.0	0.0	0.0
Actual	3.5	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
63883	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
63883	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
656160	0	0	0

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

1. Brief description of the Activity

Provide educational workshops on the following:

- Economic benefits of fish handling strategies aimed at enhancing product freshness and shelf-life
- Mobil fishing gear and methods to reduce sea-bed impact in the fishing industry
- Assist fishermen with cooperative research projects as necessary -Act as a "match maker" to identify potential partners among commercial fishermen and researchers and assist fishermen in developing research ideas that can be incorporated into joint fishermen/scientist proposals
  - Conduct dockside or on-water demonstrations of innovative gear technologies and of low impact mobile fishing gear innovations
  - 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
  - Produce printed, presentation, web and other educational materials
  - Conduct workshops for garden clubs, community groups, watershed associations and others interested in sustainable landscaping practices and water resources protection - workshops will include a presentation and when possible, a practical assessment of the property where the workshop is held
    - Conduct activity-based Great Bay Discovery Cruises to provide citizens with the opportunity to learn about the estuary aboard the University's research vessel
    - Continue to write scripts, record and monitor a low power radio station (Great Bay Area Radio) dedicated to informing the 30,000 motorists passing by the Estuary daily. Scripts focus on natural history, research, educational opportunities and Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET). Share CICEET derived research and resources relevant to coastal communities
    - Work with the Natural Resource Outreach Coalition (NROC) to recruit communities and develop marketing materials
    - 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
    - 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
    - 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**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	1700	210000	0	0
<b>Actual</b>	1653	65	14	0

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

**Patent Applications Submitted**

Year: 2009  
 Plan: 0  
 Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	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

Year	Target	Actual
2009	5	5

**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

**Output #3**

**Output Measure**

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

Year	Target	Actual
2009	2	3

**Output #4****Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	10	27

**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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	10	22

**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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	8500	4879

**Output #7****Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	20	39

**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

**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

**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

#### 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

Year	Target	Actual
2009	2	1

#### 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

#### Output #13

##### Output Measure

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

Year	Target	Actual
2009	2	6

#### 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.

Year	Target	Actual
2009	8	5

#### 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.

Year	Target	Actual
2009	7	6

#### Output #16

##### Output Measure

- Number of Safety-at-Sea programs held.

Year	Target	Actual
2009	2	2

**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.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	100	68

**Output #18**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	25	4

**Output #19**

**Output Measure**

- Number of fishermen trained in safe welding practices

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	20	44

## V(G). State Defined Outcomes

### V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Number of residents, decision makers or visitors who report gaining knowledge about NH coastal ecosystems, research, sources of land and water degradation or improved yard care practices.
2	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
3	Number of teachers who learn to utilize marine science concepts and contexts to support teaching core science and other content standards in their classrooms
4	Number of fishermen who choose non-mandatory conservation-minded gear over traditional equipment
5	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
6	Number of fishermen who choose soft-bottom fishing gear over traditional equipment
7	Number of fishermen who successfully complete cooperative research projects
8	Number of communities to develop action plans for making progress in community based natural resource protection projects.
9	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
10	Number of K-12 students who improve performance in content areas as a result of teachers incorporating marine science into their lesson plans
11	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
12	Number of fishermen who gain knowledge increase knowledge of new conservation fishing gear that reduces benthic habitat impact.
13	Number of fishermen who become certified as safety drill conductors.
14	Number of communities to implement or start to implement a natural resource protection project.
15	Number of community decision makers, conservation groups or development professionals who report gaining knowledge about preventing degradation from storm water runoff.
16	Crosscutting Narrative - Land and Water Conservation
17	Increase in Sustainable Seafood and Direct Marketing

**Outcome #1**

**1. Outcome Measures**

Number of residents, decision makers or visitors who report gaining knowledge about NH coastal ecosystems, research, sources of land and water degradation or improved yard care practices.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	100	0

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
112	Watershed Protection and Management
131	Alternative Uses of Land

**Outcome #2**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	0	6971



### 3c. Qualitative Outcome or Impact Statement

#### Issue (Who cares and Why)

The UNH Marine Docent Program is the primary vehicle for delivering marine science education programs to the formal pre-K - 12 school audience and adults in New Hampshire and New England. The program addresses the needs and intended outcomes of the strategic plan for marine science education of the UNH Cooperative Extension Program and New Hampshire Sea Grant Program, as well as the ocean literacy goals of NOAA.

#### What has been done

The Docent programs that address the situation fall into the following categories:

- \*SeaTrek Programs, which are the marine science education programs Docents bring to classrooms or adult gatherings addressing such topics as the rocky shore, sandy beach, or global climate change.
- \*Boat-based programs that are offered on the R/V Gulf Challenger or party fishing boats and involve hands-on activities on the water.
- \*Training opportunities that address Docent competency which include the intensive training for new Docents, the on-going WADE training for veteran Docents, and monthly meetings which always include an educational component.

#### Results

Impacts resulting from the Docent program include:

- \*Trained 21 new UNH Marine Docents in basic marine science, and formal and informal education practices. These new Docents joined existing program teams to provide educational programming to schools or are volunteering at other informal marine education venues including the Seacoast Science Center, Sandy Point Discovery Center, the Great Bay Coast Watch, and the Gundalow Program.
- \*Conducted approximately 115 SeaTrek marine education programs for approximately 3,550 students in 100 schools.
- \*Trained 250 students from 6 schools in boat-based marine science activities through the Docent-led Floating Lab program. During this half-day program students learn about the Gulf of Maine marine environment by participating in hands-on activities in water quality measurement, plankton collection and observation, current measurement, benthic sampling, and navigation.
- \*Increased the knowledge and awareness of 100 adult and 50 children from the general public about the Gulf of Maine, the Isles of Shoals, and the Shoals Marine Laboratory through five one-day Shoals Discovery Cruises to Appledore Island.
- \*Conducted "Day of the Coast" programs in Plaistow and Dover, New Hampshire which provided over 100 SeaTrek programs to more than 500 hundred students and teachers.
- \*Provided marine science awareness to thousands of New Hampshire citizens at exhibits at "Discover Wild New Hampshire Day", the Tall Ships weekend in Portsmouth, the Rochester Fair, River Days in Portsmouth and Durham, and UNH "University Day."
- \*Provided marine science awareness to over 5,000 New Hampshire citizens at the inaugural Fish and Lobster Festival in Portsmouth, NH.

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
135	Aquatic and Terrestrial Wildlife

**Outcome #3**

**1. Outcome Measures**

Number of teachers who learn to utilize marine science concepts and contexts to support teaching core science and other content standards in their classrooms

Not Reporting on this Outcome Measure

**Outcome #4**

**1. Outcome Measures**

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

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	10	18

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
135	Aquatic and Terrestrial Wildlife

**Outcome #5**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	5	10

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
135	Aquatic and Terrestrial Wildlife

**Outcome #6**

**1. Outcome Measures**

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

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	10	0

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

**Issue (Who cares and Why)**

{No Data Entered}

**What has been done**

{No Data Entered}

**Results**

{No Data Entered}

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
135	Aquatic and Terrestrial Wildlife

**Outcome #7**

**1. Outcome Measures**

Number of fishermen who successfully complete cooperative research projects

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	5	27

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
307	Animal Management Systems
903	Communication, Education, and Information Delivery

**Outcome #8**

**1. Outcome Measures**

Number of communities to develop action plans for making progress in community based natural resource protection projects.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	2	13

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

**Issue (Who cares and Why)**

See crosscutting narrative - Land and Water Conservation

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
112	Watershed Protection and Management
131	Alternative Uses of Land
133	Pollution Prevention and Mitigation

**Outcome #9**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #10**

**1. Outcome Measures**

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

Not Reporting on this Outcome Measure

**Outcome #11****1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	70	66

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The fresh waters of New Hampshire represent a valuable resource contributing to New Hampshire's economic base through recreation, tourism and real estate revenues. Some lakes and rivers also serve as current or potential drinking water supplies. For most residents, our waters help insure a high quality of life. However, New Hampshire currently leads all 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 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. 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 of our estuaries, lakes, ponds, rivers and streams.

**What has been done**

The NH Lakes Lay Monitoring Program (LLMP), supported and administered by UNH Cooperative Extension, offers a cost-shared, quality-assured water quality monitoring and assessment program taking advantage of the commitment of county residents to serve as volunteer monitors. We have worked with a majority of the towns and local lake and watershed associations in New Hampshire's Lakes Region and several others (for over 35 years in some cases) providing monitoring and water quality assessment assistance

**Results**

Several towns and watershed associations report various individual impacts as a result of the Lakes Lay Monitoring Program. Highlights include:

\*Assistance in water quality analysis for the Saco River monitoring program of the Green Mountain Conservation Group has promoted stronger multijurisdictional (Maine and NH) watershed collaboration and has prompted efforts to secure additional grant funding to further assess surface and groundwater impacts.

\*Working with local volunteers, 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).

\*Over \$98,000 in volunteer effort match generated by NH LLMP programs for use as match for federal and state

grants for the UNH Center for Freshwater Biology (CFB), the UNH Water Resources Research Center, NH Municipalities, and NH Department of Environmental Services.

\*The CFB/LLMP Analysis Laboratory provided over \$22,000 (figure discounted \$10 TP, \$9 chl and \$8 ecoli rate -- fee would be \$20 for professionals) in discounted water analyses and field sampling to NH municipalities and communities.

\*The CFB/LLMP Analysis Laboratory provided over \$10,000 (one free chl/month, accessory TP/chl collected during CFB field visit) in free laboratory analyses to NH municipalities and communities.

\*The CFB/LLMP Analysis Laboratory provided over \$1,000 (lake management student TP processing, Field Limnology chl & TP) in free or heavily discounted laboratory analyses for UNH faculty and students and also lent out sampling and water quality analysis equipment.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
903	Communication, Education, and Information Delivery

#### Outcome #12

##### 1. Outcome Measures

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

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2009	30	0

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

###### Issue (Who cares and Why)

{No Data Entered}

###### What has been done

{No Data Entered}

###### Results

{No Data Entered}

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
135	Aquatic and Terrestrial Wildlife

**Outcome #13**

**1. Outcome Measures**

Number of fishermen who become certified as safety drill conductors.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	20	0

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

**Issue (Who cares and Why)**

{No Data Entered}

**What has been done**

{No Data Entered}

**Results**

{No Data Entered}

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
903	Communication, Education, and Information Delivery

**Outcome #14**

**1. Outcome Measures**

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 Action Outcome Measure



**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	2	0

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

**Issue (Who cares and Why)**

{No Data Entered}

**What has been done**

{No Data Entered}

**Results**

{No Data Entered}

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
112	Watershed Protection and Management
131	Alternative Uses of Land

**Outcome #15**

**1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	12	0

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

**Issue (Who cares and Why)**

{No Data Entered}

**What has been done**

{No Data Entered}

**Results**

{No Data Entered}

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
112	Watershed Protection and Management

**Outcome #16**

**1. Outcome Measures**

Crosscutting Narrative - Land and Water Conservation

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	0

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

**Issue (Who cares and Why)**

Rapid land use changes are causing environmental, economic and social impacts. People have less connection with traditional uses of land. Rural and pristine waters and habitats are at risk and urban water quality remains in need of improvement and/or protection.

People often respond most when the impacts are personal. Community and conservation leaders are mainly volunteers without extensive backgrounds in natural resources and other disciplines related to land use and water quality issues. Tools are available for conserving natural resources and managing growth but many community and conservation leaders have limited understanding of them. Groups and individuals need long-term, sustained assistance as well as timely access to information and other resources for better natural resources stewardship.

**What has been done**

Extension's Land & Water Conservation Program assists New Hampshire communities and conservation groups with land and water conservation planning projects, such as natural resources inventories, conservation planning, land protection, public outreach, and building public support.

**Results**

During the reporting period, Land & Water Conservation Staff provided assistance to 35 towns and four conservation groups with natural resources inventories, water resources protection, conservation planning and land protection, and participated in 13 regional meetings. Direct assistance to communities, workshops and courses involved total participation of 1,342 participants.

Education and training provided by Land & Water Conservation programming has increased communities' abilities

to be pro-active about land conservation. Conserved land has significant water quality benefits, helps maintain the state's biodiversity, and supports natural resource-based industries such as forestry and agriculture. Program highlights for the reporting period include the following:

71 participants from six communities (Hampton, Milton, Dover, Raymond, Greenland, Brentwood) and one Watershed Group (Lamprey River Watershed Association), received assistance from the Natural Resources Outreach Coalition (NROC), which Land & Water Conservation staff coordinates. Community projects conducted with NROC assistance include: stormwater issues (Dover, Hampton and Brentwood), reviewing the draft site planning web tool (Milton, Dover, Raymond), natural resources inventory (Greenland), and natural resources planning (Lamprey River Watershed Association)

406 participants from 14 communities attended workshops on land conservation topics presented in Northwood, Barrington, Raymond, Deerfield, New Castle, Lee, Candia, Rochester, Lyndeborough, Strafford, Bridgewater, Epsom, Farmington, North Hampton.

124 participants from five communities (Keene, Newbury, Bradford, Springfield and Grantham) received assistance with using the Wildlife Action Plan and incorporating wildlife information into their conservation planning. Over 1300 people were reached through the Taking Action for Wildlife e-newsletter.

47 participants from two communities (Hebron, Andover) and one conservation group (Monadnock Conservancy) received assistance with natural resources inventories.

53 participants from four Conservation groups received assistance with land conservation planning (Belknap Range Conservation Coalition, Bear Paw Regional Greenways, Monadnock Conservancy and Ausbon Sargent Land Trust).

531 participants attending 13 regional presentations (workshops and conferences) received assistance with natural resources inventories, land conservation planning, using the Wildlife Action Plan, and land conservation options.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
112	Watershed Protection and Management
131	Alternative Uses of Land

#### Outcome #17

##### 1. Outcome Measures

Increase in Sustainable Seafood and Direct Marketing

##### 2. Associated Institution Types

- 1862 Extension

##### 3a. Outcome Type:

Change in Action Outcome Measure

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
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2009 {No Data Entered} 0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Commercial fishing has been a vital component of New England's economy for over two centuries and has grown to a half-a-billion dollar industry. Equally important, recent economic studies based on National Marine Fisheries Service (NMFS) data suggests that every job created in the seafood industry generates one-and-a-half jobs in the regional economy: jobs in other sectors such as food processing, tourism, restaurants and boatyards.

During the last ten years, however, an influx of lower-cost, imported seafood has displaced domestic seafood in many commercial markets. The prevalence of imported seafood now threatens to put an end to the rich tradition and high quality of regionally harvested seafood. Today 80 percent of the seafood eaten in the United States is imported. Yet, according to recent research, a sizeable number of consumers would like to purchase local seafood if the option were available.

**What has been done**

Recognizing this demand, several New England fishing communities have partnered with buy local/eat local organizations, agricultural farmer's markets, seafood distributors, restaurant owners and university extension organizations to adapt to economically-limiting regulations and the global seafood market. These efforts, for the most part, are just getting off the ground. Based on recent successes resulting from individual direct marketing efforts, others in the industry are now expressing interest in direct marketing to local consumers and have asked UNH Cooperative Extension/Seagrant for assistance.

**Results**

The rising cost of fees and fuel, coupled with a tenuous economy, has caused fishermen to weigh their options and find a positive solution. The N.H. fishing industry sought out a way to sell fish locally in order to reduce the cost of transportation and handling by out-of-state distribution agents as well as provide additional economic opportunities. In 2009, the NH Commercial Fisherman's Association (NHCFA) undertook a partnership with UNH Cooperative Extension, N.H. Sea Grant and the Yankee Fishermen's Cooperative, along with local seafood groups, restaurants and fish markets to develop a local brand for NH seafood. Since the brands unveiling July 1st 2009, twenty-three (23) seacoast businesses have become NH Fresh and Local brand partners. Vendors sign an agreement that products marketed under the N.H. Fresh and Local brand have been delivered efficiently and directly to consumers, that the species marketed are those managed sustainably, and that there is confidence regarding their point of origin.

In addition to the collaboration around branding of New Hampshire seafood, the Yankee Fishermen's Cooperative became the first NH fishing organization to participate in the New Hampshire Seacoast's Winter Farmers' Market. Starting in February of 2009, the cooperative sold fresh-caught northern shrimp at the Exeter and Stratham farmer's markets. Not only did they sell about 2,000 pounds of shrimp, but they also increased foot travel to the farmer's markets by 30%. It is clear from the pilot efforts of the Yankee Fisherman's Cooperative and the NHCFA that there is a significant demand for locally-harvested fish and seafood.

During the summer of 2009, two additional Farmer's Markets were developed (Rye and New Market) with fishing industry collaboration. The first NH fresh fish community supported fishery (CSF) was established with over 100 customers and five delivery locations. Yankee Fisherman's Cooperative will be hosting the first shrimp CSF for the 2009-2010 shrimp season. Community share holders stand at more than 150 individuals with four delivery sites. The Coop. will also be participating in the Winter farmer's market season and anticipate selling more than 10K additional pounds of shrimp direct to consumers at an estimated value of \$18,000.00.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
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
- Populations changes (immigration, new cultural groupings, etc.)

#### **Brief Explanation**

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

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

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

#### **Evaluation Results**

{No Data Entered}

#### **Key Items of Evaluation**

{No Data Entered}

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

**Program # 9**

**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%			

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

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

Year: 2009	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
79854	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
79854	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
820201	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**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
<b>Actual</b>	2500	0	1250	0

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

**Patent Applications Submitted**

Year: 2009

Plan:

Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	Extension	Research	Total
<b>Plan</b>			
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of farms attending USDA Good Agricultural Practices workshops.

Year	Target	Actual
2009	{No Data Entered}	22

**Output #2**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	1320

**Output #3**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	400

**Output #4**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	1250

**Output #5**

**Output Measure**

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

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	1139



**V(G). State Defined Outcomes****V. State Defined Outcomes Table of Content**

O. No.	OUTCOME NAME
1	Number of farms receiving USDA Good Agricultural Practices certification as a result of Extension workshops.
2	Number of participants who report keeping food at safe temperatures
3	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.

**Outcome #1**

**1. Outcome Measures**

Number of farms receiving USDA Good Agricultural Practices certification as a result of Extension workshops.

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	4

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources

**Outcome #2**

**1. Outcome Measures**

Number of participants who report keeping food at safe temperatures

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	161

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)****What has been done****Results****4. Associated Knowledge Areas**

KA Code	Knowledge Area
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

**Outcome #3****1. Outcome Measures**

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

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	1133

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

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 48% of their food dollar in restaurants. As a state dependent on the tourism industry, the food service sector in New Hampshire is an important component. In 2007, there were an estimated 2,824 eating and drinking establishments in NH employing 44,300 workers. Restaurant jobs constitute 9.7% of total employment in the state. The New Hampshire food service industry has sales of \$2.2 billion dollars per year. New Hampshire regulations do not require food managers or workers to have formal training in food safety and sanitation.

**What has been done**

UNH Cooperative Extension Family and Consumer Resources Educators implement two food safety programs targeting food workers; SAFE (Safety Awareness in the Food Environment) and the ServSafe(R) 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 of New Hampshire's 10 counties. Seven Family and Consumer Resources Educators are certified by the National Restaurant Association's Educational Foundation as ServSafe(R) instructors. UNH Cooperative Extension coordinates with the NH Lodging and Restaurant Association to offer ServSafe(R)

programs throughout New Hampshire. Programs are offered in both one day and two day formats.

**Results**

SAFE: 53 SAFE programs were conducted reaching 1051 food workers in NH. 979 post workshop questionnaires were received. 912 participants (93%) scored 75% or greater on the knowledge questionnaire.

More than 50% of 482 SAFE participants completing a post workshop practices questionnaire indicated they implemented eight food safety practices routinely.

ServSafe(R): 269 food managers/workers were administered the ServSafe(R) examination and/or participated in ServSafe(R) programs. 221 participants (82%) passed the examination with a score of 75% or greater.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

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

**External factors which affected outcomes**

- Economy
- Government Regulations
- Competing Programmatic Challenges

**Brief Explanation**

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

1. Evaluation Studies Planned

- After Only (post program)
- Before-After (before and after program)

**Evaluation Results**

**Key Items of Evaluation**

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

**Program # 10**

**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%			

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

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

Year: 2009	Extension		Research	
	1862	1890	1862	1890
Actual	11.0	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
223590	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
223590	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
2296562	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 Challenge

This planned program covers not only childhood obesity, but over all efforts by UNH Cooperative Extension to address the health and well-being of all people in New Hampshire. Included are efforts from our Nutrition Connections program (EFNEP) and Supplemental Nutrition Education Program (SNAP-ed).

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**

2009	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
<b>Plan</b>	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}	{NO DATA ENTERED}
<b>Actual</b>	2500	200000	750	0

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

**Patent Applications Submitted**

Year: 2009

Plan:

Actual: 0

**Patents listed**

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

**Number of Peer Reviewed Publications**

2009	Extension	Research	Total
<b>Plan</b>			
<b>Actual</b>	0	0	0

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

**Output Target**

**Output #1**

**Output Measure**

- Number of youth participating in Nutrition Connections programs.

Year	Target	Actual
2009	{No Data Entered}	1139

**Output #2**

**Output Measure**

- Number of low-income adults participating in Nutrition Connections - educational course to income eligible New Hampshire residents

Year	Target	Actual
2009	{No Data Entered}	2500

**Output #3**

**Output Measure**

- Number of youth participating in 4-H Healthy Living programs

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2009	{No Data Entered}	150

**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	Number of participants who report an increase in their physical activity
3	Number of participants who report eating nearer to the recommended number of cup equivalents from the Fruits and Vegetable Group



## **Outcome #1**

### **1. Outcome Measures**

# 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

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

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2009	{No Data Entered}	1433

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

#### **Issue (Who cares and Why)**

Physical Activity and nutrition play vital roles in overall health. Research has found that diet is associated with the leading causes of death; many are preventable; heart disease, diabetes, obesity and several types of cancer. Following the recommendations of the Dietary Guidelines and MyPyramid can lower the risk of disease. Given rising rates of obesity in NH, UNH Cooperative Extension remains committed to education focused on encouraging physical exercise and diet/healthy lifestyle choices.

#### **What has been done**

A total of 4957 youth, in 243 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 1737 youth and SNAP-Ed programming reached 3220 youth.

Three hundred and fifty-eight (358) volunteers extended the resources of Nutrition Connections contributing 1.5 FTE for youth programming and 0.5 FTE for adult programs.

#### **Results**

71% (of 886 youth) now eat a variety of foods; 86% (of 733) youth increased their knowledge of human nutrition; 88% (of 562) youth increased their ability to select low-cost, nutritious foods and: 81% (of 699) youth improved practices in food preparation and safety.

Feedback from teachers hosting a nutrition series include:

"Students want to run more at recess."

"Students want to move their body more."

"Students are more aware of the importance of exercise and how it can help their hearts."

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

<b>KA Code</b>	<b>Knowledge Area</b>
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population

**Outcome #2**

**1. Outcome Measures**

Number of participants who report an increase in their physical activity

**2. Associated Institution Types**

- 1862 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	200

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior

**Outcome #3**

**1. Outcome Measures**

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 Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2009	{No Data Entered}	200

### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

**What has been done**

**Results**

### 4. Associated Knowledge Areas

<b>KA Code</b>	<b>Knowledge Area</b>
703	Nutrition Education and Behavior
704	Nutrition and Hunger in the Population

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

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

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

#### **Brief Explanation**

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

#### 1. Evaluation Studies Planned

#### **Evaluation Results**

{No Data Entered}

#### **Key Items of Evaluation**

{No Data Entered}