

# 2007 University of Vermont Combined Research and Extension Plan of Work

## Brief Summary about Plan of Work

Extension Faculty and staff at the University of Vermont Extension and Agricultural Experiment Station (VT-AES) are focused on meeting the needs of the state's citizens. These experienced and innovative professionals continually work to integrate higher education, research and outreach services to protect and enhance a quality of life characterized by a thriving natural environment, a strong sense of community, and a deeply rooted connection to agriculture. Though our research conclusions offer lessons nationwide, even globally, Extension and the VT-AES apply the results closer to home, in our own communities, helping people where they live, cultivating healthy communities.

Today, VT-AES and UVM Extension address issues ranging from farm profitability, water and soil quality, and dairy herd disease resistance and health, to global climate change, renewable energy, youth life skills education, community development and planning, and obesity, nutrition and health. Together we concentrate on relevant research that helps our diverse audience--including farmers, forest and land stewards, children and families, rural community members--improve business profitability, environment, economics, nutrition, food safety, and youth and adult life-skills development.

Our work is guided and evaluated by dedicated citizen advisors with whom we meet regularly to review priorities, spending, and program impact. We seek additional feedback from those attending Extension events, an annual state-wide poll, and we meet with university, local, state and national opinion leaders, and policymakers to review our research and outreach portfolio and direction. Research and outreach efforts are enhanced through active partnerships, and volunteer workers.

The goal of UVM Extension and VT-AES is to put our health, environment, and agricultural research into action resulting in improved agriculture and environmental sustainability, community development, human health, and the personal and intellectual development of youth.

## Estimated number of professional FTEs/SYs to be budgeted for this plan.

Year	Extension		Research	
	1862	1890	1862	1890
2007	59.7	0.0	13.8	0.0
2008	59.7	0.0	13.8	0.0
2009	59.7	0.0	13.8	0.0
2010	59.7	0.0	13.8	0.0
2011	59.7	0.0	13.8	0.0

## Merit Review Process

### The merit review process that will be employed during the 5-Year Plan of Work cycle

- External University Panel
- Expert Peer Review

## Brief explanation

The University of Vermont Extension and AES has entered into a formal agreement with Extension in Maine, New Hampshire, and Massachusetts to develop and implement a four-state planning and reporting system. Working in collaboration with three other states in developing our system has also resulted in discussions around state and regional programs, opportunities for multistate work, sharing staff resources and a much better understanding of how each of our unique programs are similar and different than others in New England.

As a result, the four states have agreed to provide merit review for each state as part of our formal partnership. The new system provides access to each state plan of work for all four states, allowing for easy sharing of ideas and opportunities for further collaboration. Further, we've agreed to set up a rotating system of more comprehensive merit review by selecting a different state plan each year for in-depth review by Extension staff from the other three states. With this system, we will be sharing plans with one another continuously, and every four years every state's plan will go through a more rigorous review process by the

other three states.

## Evaluation of Multis & Joint Activities

### 1. How will the planned programs address the critical issues of strategic importance, including those identified by the stakeholders?

In Vermont, our issues of strategic importance include agricultural profitability and diversity; developing rural economics, niche product development; environmental quality, and a healthy and productive population.

We work to help people understand the range of programs we provide and our connection to the knowledge-base of UVM faculty. It is a priority to focus on addressing selected critical problems in Vermont, so VT-AES research and UVM Extension programs yield the greatest impact.

More than 100 citizens serve in advisory capacities to ensure that educational programming is targeted and relevant to areas that are important to Vermonters. Working collaboratively, and with other departments of the University, UVM Extension and AES strive to strengthen efforts to ensure that research results, and educational resources remain accessible and relevant to the state's citizens.

Additionally, UVM's Centers of Excellence help to coordinate, conduct and promote much of the research that is supported by AES funds, competitive private and public grants, sponsorships, and donations. These centers also utilize citizen advisory boards to inform and guide a research and outreach agenda that is responsive to local, state, and national needs and priorities. The Centers of Excellence include:

- Center for Sustainable Agriculture—an interdisciplinary approach to integrating university and community expertise to promote sustainable farming systems throughout Vermont and the region.
- Center for Rural Studies—connecting information and technical expertise with communities, businesses and policy makers in researching rural issues and information dissemination.
- Proctor Maple Research Center—applied research in the production of maple sap and syrup.

### 2. How will the planned programs address the needs of under-served and under-represented populations of the State(s)?

Health: focuses on food security for limited resource children, families and seniors. Examples of programs follow:

- Community Farm Partners: enhance the amount of locally grown produce that is consumed by Vermonters with limited resources and sold by small scale Vermont producers
- EFNEP (Expanded Food and Nutrition Education Program): designed specifically to meet the needs of limited resource families. These families face many barriers to healthful eating. These include limited access to healthy foods, low literacy and education levels, limited income to purchase healthy foods, and living in an environment that promotes poor nutrition and physical inactivity
- Growing Connections: a program for at-risk youth that teaches nutrition, food safety, and food security issues through gardening
- Healthy Eating: targeted at increasing the amount of fruits and vegetable offered to toddlers by parents enrolled in WIC (Women, Infants, Children)
- Senior Farm Share Nutrition Programs: nutrition workshop for low-income seniors to increase their consumption of local, fresh produce by enhancing participants skills to prepare fresh fruits and vegetables and gain nutritional knowledge based on the Dietary Guidelines

Youth & community development: addresses community strengths and challenges, focusing programs to build assets through its citizens who may be of limited resources, a community struggling to thrive, migrant workers and disabled workers wanting to stay in the workforce. Program examples follow:

- Migrant Education Recruitment Program (MEP): ensure that children of migrant farm workers, and qualifying youth under age 22, are aware of the educational support services available to them
- Northern New England AgrAbility Project: make recommendations that can be used by farmers with disabilities to maintain employment, through development of accommodations in support of recommendations made
- Rural and Agricultural VocRehab Program: assist individuals with disabilities living in rural areas and those in agricultural professions or self-employment, by providing them with a variety of services tailored to their needs in order to maintain or obtain their selected employment outcome
- 4-H: delivers educational programs to all youth developing life skills, with extra effort in place to target urban cities and activities for the teen audience as well as limited resource families and youth who are at-risk

Agriculture & Environmental Sustainability: Agriculture is a struggling industry, its workers are at risk and entering into the business with needed supports can be a challenge especially for some audiences, especially women. Program examples follow:

- Women's Agricultural Network: provide educational and technical assistance to individuals starting or expanding agricultural businesses; targeted primarily at women
- Migrant Ed, AgrAbility, and Rural and Agricultural VocRehab: address the need of the audiences as identified in each of these programs

In addition scholarships are available to those wishing to participate in Extension programs, but do not have necessary resources.

**3. How will the planned programs describe the expected outcomes and impacts?**

Planned programs are developed using the Logic Model, defining outcomes and impacts and the associated indicators of change. Outcomes are written to reflect the ultimate results desired, are achievable by the program, and will usually require multiple years to come to fruition. Intermediate indicators will serve as benchmarks of progress over the duration of the program, and will be reported annually.

**4. How will the planned programs result in improved program effectiveness and/or efficiency?**

Beginning with the identification of a situation and the clear articulation of a problem or issue that needs addressing, planned programs set a course of action. Through the use of both process and summative evaluation, the focus shifts from determining activities and inputs, to improving the learning environment and opportunities for our clientele, and measuring actual achievement of impacts. Tracking program costs will provide additional criterion in determining the efficiency of the program, enabling us to further promote programming that works.

**Stakeholder Input**

**1. Actions taken to seek stakeholder input that encourages their participation (Check all that apply)**

- Use of media to announce public meetings and listening sessions
- Targeted invitation to traditional stakeholder individuals
- Targeted invitation to selected individuals from general public
- Survey of the general public

**Brief explanation.**

Stakeholders are part of a 100 member citizen advisory board system who meet regularly to review program priorities and to review progress towards addressing the states identified problems. Faculty and staff work with many partners and program participants who offer input on present and future programming to address identified needs.

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

**1. Method to identify individuals and groups**

- Use Advisory Committees
- Use Internal Focus Groups
- Use External Focus Groups
- Use Surveys

**Brief explanation.**

{NO DATA ENTERED}

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

**1. Methods for collecting Stakeholder Input**

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Meeting with traditional Stakeholder individuals
- Survey of traditional Stakeholder individuals
- Survey of the general public
- Meeting specifically with non-traditional groups
- Survey specifically with non-traditional groups
- Meeting specifically with non-traditional individuals
- Survey specifically with non-traditional individuals
- Meeting with invited selected individuals from the general public
- Survey of selected individuals from the general public

**Brief explanation**

Annually the Vermonter Poll surveys Vermont citizens on relevant issues. Program participants are surveyed to measure how we are or can better meet their needs, and research and extension programs identify users and partners from whom to solicit input. Input is gathered by survey, interview, group meetings and individual contact.

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

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

**Brief explanation.**

{NO DATA ENTERED}

### 1. Name of the Planned Program

Personal and intellectual development of youth

### 2. Program knowledge areas

- 806 Youth Development 95 %
- 801 Individual and Family Resource Management 5 %

### 3. Program existence

- Mature (More than five years)

### 4. Program duration

- Long-Term (More than five years)

### 5. Brief summary about Planned Program

The University of Vermont 4-H program has been teaching youth leadership, citizenship and life skills, operating in all fourteen counties in Vermont through a variety of well-tested delivery modes. All programs are based on learning-by-doing approaches--the experiential model--that allow youth to experience mastery in subject matter, a sense of belonging to a group, a sense of generosity to those around them, and a sense of independence, with opportunities to take on leadership and make important decisions.

Project-based curriculum is focused on life skills education over 6-8 hours of sequential learning and perhaps years of contact with a trained leader. Two-thirds of participants live in towns with fewer than 10,000 people, and an additional 12% live on farms, reflecting the rural and small-town audiences primarily served. Over half of all youth served live in racially and ethnically mixed communities.

Today, Vermont 4-H serves youth in both traditional 4-H subjects and in new and growing area of interests, such as technology, through 4-H clubs, afterschool programs and other innovative venues.

### 6. Situation and priorities

Vermont youth lack opportunities to gain mastery of life skills. 4-H programs bring the experiential learning model and project-based education--key strategies identified in Critical Hours (Miller)- to communities, offering traditional and non-traditional programming to reach as many youth as possible. In addition to the 4-H club program, special interest clubs and events, afterschool programs are growing in popularity and make a positive difference for youth participants. Effects of the youth programming are stronger "for those individuals who need the help most and have the fewest options (Miller, 2003 p.59)." The greatest benefit is for those who attend the most hours over the most years. Addressing Identified barriers to youth participation in such is essential to meeting the goal of this program area.

### 7. Assumptions made for the Program

Materials included in the 4-H National Curriculum Collection address Life Skills education

More hours of programming with a caring adult carries a greater benefit

Youth in limited resources families have fewer options for opportunities to gain mastery of life skills

### 8. Ultimate goal(s) of this Program

Improve personal and intellectual development of Vermont youth

Youth gain mastery of life skills

### 9. Scope of Program

- In-State Extension
- Multistate Extension

### Inputs for the Program

#### 10. Expending formula funds or state-matching funds

- Yes

#### 11. Expending other than formula funds or state-matching funds

- Yes

**12. Expending amount of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2007	10.0	0.0	0.0	0.0
2008	10.0	0.0	0.0	0.0
2009	10.0	0.0	0.0	0.0
2010	10.0	0.0	0.0	0.0
2011	10.0	0.0	0.0	0.0

**Outputs for the Program**

**13. Activity (What will be done?)**

4-H Lifeskills Development Program : Help youth acquire Life Skills in the following areas: Decision Making; Critical Thinking; Problem-Solving; Communication; Goal-Setting; and Skills for Everyday Living to succeed as adults.

Delivery Methods: 6-8 sequential learning hours using experiential learning techniques for in- school, afterschool, or out-of-school settings.

Expand Caring Communities (ECC) grant funded program: EnviroQuest - Help youth acquire Life Skills in the following areas: Decision Making; Critical Thinking; Problem-Solving; Communication; Goal-Setting; and Skills for Everyday Living to succeed as adults.

Delivery Methods: 6-8 sequential learning hours using experiential learning techniques for in-school, afterschool, or out-of-school settings.

Personal Financial Literacy: Promote, teach and support personal financial literacy education for youth.

Delivery Methods: Exhibit at professional development meetings and public events to promote and teach the use of the free curriculum and support materials.

**14. Type(s) of methods will be used to reach direct and indirect contacts**

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Other 1 (Train the Trainer)</li> <li>● Other 2 (4-H Afterschool, club)</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Other 1 (school enrichment)</li> <li>● Other 2 (radio ed. spots)</li> </ul>

**15. Description of targeted audience**

4-H: Adult Volunteers

4-H: Youth Volunteers

Adults

Communities: Local Officials/Leaders

Communities: Non-Governmental Organizations

Communities: Schools

Extension: Faculty/Staff

Public: Families

4-H: Youth

Youth

**16. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	400	575	1350	2400
2008	400	575	1350	2400
2009	400	575	1350	2400
2010	400	575	1350	2400
2011	350	575	1350	2400

**17. (Standard Research Target) Number of Patents**

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

**18. Output measures**

**Output Text**

4-H Adult New volunteer training

2007 Target: 1  
 2008 Target: 1  
 2009 Target: 1  
 2010 Target: 1  
 2011 Target: 1

**Output Text**

4-H Adult Volunteer training

2007 Target: 40  
 2008 Target: 40  
 2009 Target: 40  
 2010 Target: 40  
 2011 Target: 40

**Output Text**

4-H Adult volunteer contest implementation training

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

4-H Educator training

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

4-H lifeskill programming in clubs, afterschool, in-school and out of school

2007 Target: 150  
2008 Target: 150  
2009 Target: 150  
2010 Target: 150  
2011 Target: 150

**Output Text**

4-H volunteer review (program, forms, policies, prodedures)

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Academic year program

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Afterschool site program

2007 Target: 7  
2008 Target: 7  
2009 Target: 7  
2010 Target: 7  
2011 Target: 7

**Output Text**

CYFAR presentation

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

CYFERnet review of publications

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Collaborations with project site

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Dairy interviews

2007 Target: 150  
2008 Target: 150  
2009 Target: 150  
2010 Target: 150  
2011 Target: 150

**Output Text**

ECC Annual Report

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

ECC close out report

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Embryology project

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Evaluation of beginner record book

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Financial Literacy adult-presentation

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Financial information review

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Financial literacy - ATF-television

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Financial literacy - radio

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Health Rocks

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Jumpstart website

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Livestock contest evaluation

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Personal Financial Literacy - youth class

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Youth Educator support

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Summer Work and Learn program

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Teen Leadership project

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

VT State 4-H day session

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Working Steer project book evaluation

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Youth Horticulture project

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Youth educator support

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Outcomes for the Program**

**19. Outcome measures**

**Outcome Text: Awareness created**

**Outcome Text**

number of 4-H staff self-reporting an increase in their ability to work with youth and adults to implement 4-H lifeskill development opportunities

**Outcome Type:** Medium

2007 Target: 11  
2008 Target: 11  
2009 Target: 11  
2010 Target: 11  
2011 Target: 11

**Outcome Text**

number of youth that develop financial literacy life skills

**Outcome Type:** Medium

2007 Target: 142  
2008 Target: 142  
2009 Target: 142  
2010 Target: 142  
2011 Target: 142

**Outcome Text**

number of club members who exhibit self-confidence (a skill for everyday living) by participating in a communications or public presentation opportunity

**Outcome Type:** Medium

2007 Target: 1500  
2008 Target: 1500  
2009 Target: 1500  
2010 Target: 1500  
2011 Target: 1500

**Outcome Text**

number of volunteers self reporting an increase in their ability to implement a 4-H lifeskill development opportunity for youth

**Outcome Type:** Medium

2007 Target: 450  
2008 Target: 450  
2009 Target: 450  
2010 Target: 450  
2011 Target: 450

**Outcome Text**

in-kind and cash contributions in support of programming

**Outcome Type:** Short

2007 Target: 12500  
2008 Target: 12500  
2009 Target: 12500  
2010 Target: 12500  
2011 Target: 12500

**Outcome Text**

number of individuals who implement financial security strategies

**Outcome Type:** Medium

2007 Target: 27  
2008 Target: 27  
2009 Target: 27  
2010 Target: 27  
2011 Target: 27

**Outcome Text**

number of youth reached with lifeskills development programming self-report an increase in mastery for targeted life skill area: Decision making; critical thinking; problem solving; communication; goal setting or skills for everyday living

**Outcome Type:** Medium

2007 Target: 1800  
2008 Target: 1800  
2009 Target: 1800  
2010 Target: 1800  
2011 Target: 1800

**Outcome Text**

youth who have at least 50 contact hours of life skills programming

**Outcome Type:** Medium

2007 Target: 225  
2008 Target: 225  
2009 Target: 225  
2010 Target: 225  
2011 Target: 225

**20. External factors which may affect outcomes**

- Economy
- Appropriations changes
- Competing Public priorities
- Competing Programatic Challenges

**Description**

Transportation is often an issue for rural youth to participate in out of school hours programming

Meeting nutritional needs of youth in out of school settings is a problem

Youth Financial Literacy is not a required curriculum in VT public schools

**21. Evaluation studies planned**

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

**Description**

**22. Data Collection Methods**

- Observation
- Portfolio Reviews
- Journals
- Other (record books, recognition apps.)

**Description**

Human Service Research, Inc instrument will be used with all youth age 12 or above

Record books will be used with youth younger than 12

Recognition application information

## 1. Name of the Planned Program

Community Development

## 2. Program knowledge areas

- 604 Marketing and Distribution Practices 3 %
- 723 Hazards to Human Health and Safety 14 %
- 605 Natural Resource and Environmental Economics 2 %
- 724 Healthy Lifestyle 14 %
- 124 Urban Forestry 7 %
- 903 Communication, Education, and Information Delivery 5 %
- 806 Youth Development 18 %
- 805 Community Institutions, Health, and Social Services 23 %
- 608 Community Resource Planning and Development 13 %
- 609 Economic Theory and Methods 1 %

## 3. Program existence

- Mature (More than five years)

## 4. Program duration

- Long-Term (More than five years)

## 5. Brief summary about Planned Program

Extension and AES address community engagement, economic development, the identification of community assets and challenges to create sustainable and viable communities. Programming focuses on engaging youth in communities through service, building skills of business and community leaders, and building supports to meet the needs of the communities underserved or with at-risk populations. AES's work with rural communications, market development and public land management support Extension's programs with research based information.

Projects under this planned program are designed to bring together people with diverse interests to share perceived problems, find common ground, and identify resources and tools for prioritizing and solving those problems through a cooperative, collaborative effort.

## 6. Situation and priorities

Vermont is largely comprised of small rural communities where infrastructure is limited and a relatively low level of technology is available. Process and manufacturing businesses are limited and leaving the state. Transportation is an issue, and costs of living and doing business are rising. There is a growing divide between economic classes. Each community, however defined, has a unique set of challenges to address, from participation in local and state governance, to land use to support for new populations, and engagement of our youth.

Studies indicate a number of problems ranging from declining levels of voter participation and public apathy toward elections to decreasing interest in volunteer activities and community groups. They also document the younger generation's apparent disinterest in public affairs and lack of knowledge about our political system. There is a decline in civic engagement. Paul Woodruff, in *First Democracy: The challenge of an ancient idea* (2005), presents significant challenges for our current educational system, which focuses on preparing our young people for jobs, but fails in teaching good citizenship. And there continues to be a need to serve children and youth who move with family member(s) or guardian(s) in search of temporary or seasonal work in agriculture or logging. A positive relationship between parents and school is essential to the success of their children's academic life.

Issues around land use are abundant, including our urban and community forests. These assets provide ecological services that benefit the environmental, economic and social conditions of Vermont communities. This resource, which includes trees in our backyards, along our streets, in parks and town greens and in municipal forests can directly enhance the atmosphere and transform the surrounding environment through atmospheric carbon dioxide (CO<sub>2</sub>) reduction and energy conservation, airborne pollutant absorption and interception, and microclimate modifications. They protect and enhance water quality and supply by filtering out pollutants, controlling storm water runoff, enabling water infiltration and reducing erosion. They can help offset the high costs of fossil fuel consumption by reducing dependence on summer air conditioning and winter heating. They improve the economic development through increases in property values, rental occupancy rates, consumer patronage and expenditure, and

job market. When urban and community forests are well planned and managed, communities can begin to reap the many benefits they provide. While Vermont is approximately 78% forested, 38% of Vermont's residents live in urban areas and with the increasing urbanization of Vermont, up 22% from 1990, the canopy cover over Vermont communities is decreasing and in many cases the resource is in poor health. As the state continues to develop and we strive to keep our downtowns vibrant our urban and community forests become more important.

As we view our agricultural foundation and the people who live and work in Vermont, we find farm and rural residents with disabilities face challenges maintaining and securing employment. Agriculture, related industries, and rural residents of Vermont have a high rate of injuries and other disabling conditions. Individuals with disabilities experience a high rate of unemployment; however, individuals with disabilities can and want to work.

**7. Assumptions made for the Program**

- Youth want to engage with community organizations and agencies to address issues of the youth population. It is believed that participants will gain leadership skills and develop successful projects that will enable them to move their communities forward•
- Individuals living in rural areas have difficulty accessing services•
- An aging population combined with an increase in youth leaving the state for jobs leaves community human assets strained•
- Home grown entrepreneurship and recruiting will attract businesses to the state•
- Vermont products seen as valued added, as are the communities in which they are produced•
- Community planning leads to a more desirable living environment•
- Vermont prides itself on a tradition of local control and relies heavily on volunteers to staff the hundreds of local boards, commissions, and committees that keep local municipalities running

**8. Ultimate goal(s) of this Program**

Improve community collaboration to address issues and build community assets

- Citizens of target communities actively participate in local government and/or community groups where policy decisions are made•
- Community members will mobilize more effectively to better understand and solve community problems•
- Farm and rural residents with disabilities secure and maintain gainful employment•
- Youth are involved in communities as active, productive citizens•
- Economic development and maintenance of the state is improved•
- Local production and consumption are linked•
- Vermont communities are seen as desirable places to live and work

**9. Scope of Program**

- In-State Extension
- In-State Research
- Integrated Research and Extension
- Multistate Extension

**Inputs for the Program**

**10. Expending formula funds or state-matching funds**

- Yes

**11. Expending other than formula funds or state-matching funds**

- Yes

**12. Expending amount of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2007	14.0	0.0	1.6	0.0
2008	14.0	0.0	1.6	0.0
2009	14.0	0.0	1.6	0.0
2010	14.0	0.0	1.6	0.0
2011	14.0	0.0	1.6	0.0

## Outputs for the Program

### 13. Activity (What will be done?)

4-H Lifeskills Development Program: Help youth acquire Life Skills in the following areas: Decision Making; Critical Thinking; Problem-Solving; Communication; Goal-Setting; and Skills for Everyday Living to succeed as adults. Delivery Methods: 6-8 sequential learning hours using experiential learning techniques for in- school, afterschool, or out-of-school settings. Downtown Business District Analysis: This program provides the community with analytical techniques that can be put to work immediately in economic revitalization efforts. The process requires input from local residents so that recommendations reflect both market conditions as well as the preferences of the community. Delivery Methods: Group meetings and discussion groups in community. EnviroQuest: Help youth acquire Life Skills in the following areas: Decision Making; Critical Thinking; Problem-Solving; Communication; Goal-Setting; and Skills for Everyday Living to succeed as adults. Delivery Methods: 6-8 sequential learning hours using experiential learning techniques for in-school, afterschool, or out-of-school settings. Migrant Education Recruitment Program (MEP): To ensure that children of migrant farm workers, and qualifying youth under age 22, are aware of the educational support services available to them. Delivery Methods: Outreach to schools, agricultural employers, and social service agencies throughout the state. Northern New England AgrAbility Project: To make recommendations that can be used by farmers with disabilities to maintain employment, through development of accommodations. Delivery Methods: Process involves recruitment of eligible individuals through referrals. Intake information is recorded on farms provided by the National AgrAbility Project. Site visits are the primary means of contact. Rural and Agricultural VocRehab Program: To assist individuals with disabilities living in rural areas and those in agricultural professions or self-employed by providing them with a variety of services tailored to their needs in order to maintain or obtain their selected employment outcome. Delivery Methods: Process involves recruitment of eligible individuals through referrals, assessment, writing up a plan of action, and providing services for eligible individuals. Printed materials and individual technical assistance are offered to strengthen the capacity of individuals to maintain or to prepare for meaningful work. Take Charge (TC/RC): Helping community adult members to gain the skills necessary to be confident enough to take part in town government by ultimately competing for town government leadership positions. Delivery Methods: Meetings, discussion groups. Town Officers Education Conference & Municipal Officers Management (TOEC/MOMS): Local town officers, decisionmakers and officials receive education and tools to improve job performance and management, addressing topics from new legislation to handling difficult customers. Delivery methods: Each one-day conference is held annually, at multiple sites. Vermont Urban and Community Forestry program :A joint initiative between the University of Vermont Extension and the Department of Forests, Parks and Recreation. The mission of the program is to promote the stewardship of the urban and rural landscapes to enhance the quality of life in Vermont communities. The program provides educational, technical and financial assistance in the management of trees and forests, in and around the built landscape. Delivery Methods: Classes, meetings, various media, community volunteer projects. AES efforts: • Community Development and planning • On farm/community energy generation and secondary revenue generation • Community and technology for rural community development • Community market development and local foods distribution • Communication methods and research studies for non-profit and profit organizations • Agritourism • Public land management • Development of environmentally safe, non food product development (adhesives, plastics and road deicer) from whey • Development of Artisan cheese markets • Distinctiveness/marketing of regional foods • Food by-product development Transportation initiatives

### 14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites</li> </ul>

### 15. Description of targeted audience

• 4-H: Adult Volunteers • Adults • Agriculture: Farmers • Communities: Local Officials/Leaders • Communities: Non-Governmental Organizations • Community leaders and citizens • Extension: Faculty/Staff • Public: General • 4-H: Youth

**16. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	2330	2500	1000	0
2008	2330	2500	1000	0
2009	2330	2500	1000	0
2010	2330	2500	1000	0
2011	2330	2500	1000	0

**17. (Standard Research Target) Number of Patents**

Expected Patents	
Year	Target
2007	1
2008	1
2009	1
2010	1
2011	1

**18. Output measures**

**Output Text**

AgrAbility - on-farm assessments

- 2007 Target: 20
- 2008 Target: 20
- 2009 Target: 20
- 2010 Target: 20
- 2011 Target: 20

**Output Text**

AgrAbility - peer support groups

- 2007 Target: 1
- 2008 Target: 1
- 2009 Target: 1
- 2010 Target: 1
- 2011 Target: 1

**Output Text**

AgrAbility - public presentations

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

AgrAbility-identify prospective consumers

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Output Text**

Club service projects

2007 Target: 72  
2008 Target: 72  
2009 Target: 72  
2010 Target: 72  
2011 Target: 72

**Output Text**

Committee projects implemented

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Community Assistance and Support

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Output Text**

Foundation trustees trainings

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Journal of Extension Article

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Migrant Education Program Identification and Recruitment Certificate of Eligibility review

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Migrant Education Program Identification and Recruitment Certificate of Eligibility print materials

2007 Target: 5  
2008 Target: 5  
2009 Target: 5  
2010 Target: 5  
2011 Target: 5

**Output Text**

Migrant Education Program Recruiter Training & Support

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Migrant Education Program Recruiter Training & Support

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Marketing Study report

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Migrant Education Program Public Relations articles

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Output Text**

Rural and Ag VocRehab assessments

2007 Target: 165  
2008 Target: 165  
2009 Target: 165  
2010 Target: 165  
2011 Target: 165

**Output Text**

Rural and Ag VocRehab service plans

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Output Text**

Rural and Ag VocRehab services delivered

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Output Text**

Site project programs

2007 Target: 45  
2008 Target: 45  
2009 Target: 45  
2010 Target: 45  
2011 Target: 45

**Output Text**

State Council meetings

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Stewardship of the Urban Landscape class

2007 Target: 5  
2008 Target: 5  
2009 Target: 5  
2010 Target: 5  
2011 Target: 5

**Output Text**

Study Committee Research group meetings

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Take Charge/ReCharge Steering Committee members

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Take Charge/ReCharge committee teaching

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Take Charge/ReCharge presentations -National Extension Tourism conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

TakeCharge/ReCharge workshops

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Teen board for Teen congress meetings

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Tree Warden training

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Volunteer Training

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Voter responsibility and public policy training in 36 towns

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Town Officers Education Conference and Municipal Officers Management Seminars conferences

2007 Target: 1330  
2008 Target: 1330  
2009 Target: 1330  
2010 Target: 1330  
2011 Target: 1330

**Outcomes for the Program**

**19. Outcome measures**

**Outcome Text: Awareness created**

**Outcome Text**

number of Certificates of Eligibility reviewed by the Dept. of Education that will be 100% accurate and reflect eligible migrant students

**Outcome Type:** Short

2007 Target: 255  
2008 Target: 255  
2009 Target: 255  
2010 Target: 255  
2011 Target: 255

**Outcome Text**

number of community level town government positions that are contested on town ballot

**Outcome Type:** Medium

2007 Target: 5  
2008 Target: 5  
2009 Target: 5  
2010 Target: 5  
2011 Target: 5

**Outcome Text**

number of clubs doing at least 6 hours of community service

**Outcome Type:** Medium

2007 Target: 72  
2008 Target: 72  
2009 Target: 72  
2010 Target: 72  
2011 Target: 72

**Outcome Text**

number of hours contributed by trained adult volunteer Site Staff

**Outcome Type:** Medium

2007 Target: 1500  
2008 Target: 1500  
2009 Target: 1500  
2010 Target: 1500  
2011 Target: 1500

**Outcome Text**

number of hours of community service received by community organizations by youth involved in club programs

**Outcome Type:** Short

2007 Target: 432  
2008 Target: 432  
2009 Target: 432  
2010 Target: 432  
2011 Target: 432

**Outcome Text**

number of programs led or supported by trained volunteer Site Staff

**Outcome Type:** Short

2007 Target: 55  
2008 Target: 55  
2009 Target: 55  
2010 Target: 55  
2011 Target: 55

**Outcome Text**

number of youth serving as Foundation trustees who indicate a positive experience

**Outcome Type:** Medium

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Outcome Text**

number of youth serving on Boards

**Outcome Type:** Medium

2007 Target: 44  
2008 Target: 44  
2009 Target: 44  
2010 Target: 44  
2011 Target: 44

**Outcome Text**

number of Rural and Ag VocRehab consumers who report increased satisfaction with actual or potential employment

**Outcome Type:** Short

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Outcome Text**

number of Rural and Ag VocRehab consumers who have maintained or increased income, or decreased monetary losses

**Outcome Type:** Short

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Outcome Text**

number of Stewardship Of the Urban Landscapes participants who advocate for their communities' public tree resources

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of Take Charge/ReCharge participants are satisfied with the process used as a means meeting community planning needs

**Outcome Type:** Medium

2007 Target: 81  
2008 Target: 81  
2009 Target: 81  
2010 Target: 81  
2011 Target: 81

**Outcome Text**

number of Tree Warden and Tree Board members proactive in management of their urban forest

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of communities establishing or expanding community tree program

**Outcome Type:** Medium

2007 Target: 25  
2008 Target: 25  
2009 Target: 25  
2010 Target: 25  
2011 Target: 25

**Outcome Text**

number of farm and rural residents with disabilities successfully served (ie case is closed)

**Outcome Type:** Medium

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Outcome Text**

number of farmers with disabilities maintaining employment

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of Take Charge/Re Charge participants who are satisfied that the project does or will meet the community need(s) it was designed to fulfill

**Outcome Type:** Medium

2007 Target: 81  
2008 Target: 81  
2009 Target: 81  
2010 Target: 81  
2011 Target: 81

**20. External factors which may affect outcomes**

- Economy
- Appropriations changes
- Public Policy changes
- Competing Public priorities
- Competing Programmatic Challenges

**Description**

Transportation is often an issue for rural youth to participate in out of school hours programming

Apathy is learned from community environment

Transportation, time off from work for medical appointments, minimal to no services offered in rural areas, and lack of health insurance are some of the many barriers to employment that individuals with disabilities face every day

Lack of expertise and experience in New England by public and private agencies to make site visits and recommendations of accommodations to continue employment of farmers with disabilities, represents major barriers for farmers in achieving vocational goals

## 21. Evaluation studies planned

- Retrospective (post program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study

### Description

4-H record book review  
site visit interviews  
case reviews

## 22. Data Collection Methods

- Sampling
- Structured
- Unstructured
- Portfolio Reviews
- Journals

### Description

{NO DATA ENTERED}

**1. Name of the Planned Program**

Health

**2. Program knowledge areas**

- 801 Individual and Family Resource Management 1 %
- 704 Nutrition and Hunger in the Population 30 %
- 511 New and Improved Non-Food Products and Processes 3 %
- 703 Nutrition Education and Behavior 51 %
- 502 New and Improved Food Products 2 %
- 903 Communication, Education, and Information Delivery 1 %
- 501 New and Improved Food Processing Technologies 1 %
- 503 Quality Maintenance in Storing and Marketing Food Products 4 %
- 712 Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occuring Toxi 6 %
- 512 Quality Maintenance in Storing and Marketing Non-Food Products 1 %

**3. Program existence**

- Mature (More than five years)

**4. Program duration**

- Long-Term (More than five years)

**5. Brief summary about Planned Program**

The subject of health covers a myriad of topics from food and nutrition, physical activity, mental and emotional wellbeing, to interpersonal relationships, and social skills and responsibility. While all of these are valid areas for research and outreach, in Vermont we have chosen to focus our programming efforts around nutrition, obesity prevention, food safety, and health management as well as a small effort towards individuals and families with regard to social and interpersonal health-understanding financial matters in particular.

**6. Situation and priorities**

Overweight and sedentary lifestyles lead to or exacerbate many chronic diseases including cardiovascular disease, hypertension, diabetes, asthma, cancer, liver disease, and osteoporosis. The number of Vermont adults reporting chronic conditions increases with age; in a recent survey, 88 percent of those age 65 and older reported having one or more chronic conditions and 20 percent reported having four or more. One out of four Vermonters is believed to have diabetes or pre-diabetes and many cases of diabetes remain undiagnosed. Type 2 diabetes is increasing considerably in children and adolescents. Currently 56 percent of Vermont adults are overweight or obese with an increase in the rate of obesity among Vermont adults of 77 percent from 1990 to 2002. The prevalence of obesity among youth is high as well, with 24 percent of Vermont students in grades 8-12 overweight or at risk of becoming overweight as measured by age and gender specific body mass index. Overweight among young children is increasing at an alarming rate, more than doubling in the last 20 years. Currently, 29 percent of low-income children between two and five years of age in Vermont who are part of the Women Infants and Children (WIC) program are overweight or at risk of becoming overweight. By being overweight, children are at risk for chronic conditions at an earlier age.

Lifestyle changes that include more healthful eating (consumption of whole grains, vegetables, and fruits - especially those locally grown; portion control, fewer sweetened beverages), practicing good food safety skills, and increasing physical activity while reducing sedentary time can have a positive influence on reducing and managing chronic conditions to increase a person's chance for a longer life. These lifestyle changes are sometimes complicated by the greater, though not necessarily better, food choices for consumers, and heightened awareness about dieting, food safety, nutraceutical and functional foods that lead to complex and potentially less than healthy choices. In January of 2005, a federal mandate was issued requiring school food authorities to implement food safety programs based on Hazard Analysis Critical Control Point (HACCP). Section 111 of the Child Nutrition and WIC reauthorization Act of 2004 amended section 9 of the Richard B. Russell National School Lunch Act by requiring school food authorities to implement a food safety program for the preparation and service of school meals served to children in the school year beginning July 1, 2005. The program must be based on HACCP principles and conform to guidance issued by the Department of Agriculture (USDA). Vermont School Food Service operations vary considerably in size and sophistication and production methods vary from "conventional" where ingredients are purchased fresh and products are made

from scratch to "assembly service" where products are purchased already prepared. The physical plants range from full service commercial kitchens to very small kitchens that might lack commercial dishwashers, hand washing sinks, adequate storage areas, or commercial ovens. The educational level of staff ranges from college level to less than grade 8 and employee turnover is high.

Vermonters filing bankruptcy under the bankruptcy abuse prevention and consumer protection act require opportunities for debt management and repayment education. Teaching broad based decision-making skills is a key part of the strategy for improving financial security.

**7. Assumptions made for the Program**

• Preventing or managing chronic diseases can lower health care costs• Most chronic diseases can be prevented or mitigated through better lifestyle choices• Individuals practicing positive lifestyle changes will feel better about themselves, their families, and their communities and ultimately improve the quality of life of Vermonters• Particular methods of nutrition education with the public will influence behavior• Parental attitudes toward nutrition affect lifelong eating patterns of children• We have a global food supply, leading to many choices and an increase risk of foodborne illness• All HACCP programs are based on the assumption that the food service operation has in place a Food Safety and Sanitation program with all staff trained/certified• Pending bankruptcy presents a "teachable moment" for learning strategies for increasing financial security

**8. Ultimate goal(s) of this Program**

Improve individual and family health.

• Increase in the number of people who show an improvement in healthful eating practices• Increase in number of people who have knowledge and skills for management of diabetes• Increase production and/or access to safe, nutritious food• Decrease in chronic illness and associated costs• Child/adult care center managers are certified in food safety and sanitation• Food safety 'best practices' are implemented in schools• School food services implement HACCP plans• Reduce or eliminate impact of foodborne illness incidents• School food managers are certified in food safety and sanitation• Increase the number of participants repaying debts that cannot be wiped out under new bankruptcy law

**9. Scope of Program**

- In-State Extension
- In-State Research
- Integrated Research and Extension

**Inputs for the Program**

**10. Expending formula funds or state-matching funds**

- Yes

**11. Expending other then formula funds or state-matching funds**

- Yes

**12. Expending amount of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2007	8.0	0.0	2.0	0.0
2008	8.0	0.0	2.0	0.0
2009	8.0	0.0	2.0	0.0
2010	8.0	0.0	2.0	0.0
2011	8.0	0.0	2.0	0.0

## Outputs for the Program

### 13. Activity (What will be done?)

Dining with Diabetes (DWD): This class, designed for diabetics or those preparing food for diabetics, provides practical nutrition information and skills development on how to prepare healthy foods. Delivery methods: four-part series of classes,

EFNEP(Expanded Food and Nutrition Education Program): Is designed specifically to meet the nutritional education needs of limited resource families. Delivery methods: multi-session individual consultations, single and multi-session group classes.

Food Safety and Sanitation Certification Program: Food safety and sanitation course targeted at institutional food service managers and workers with the goal to increase knowledge of food safety and improve food handling practices in school foodservice operations. This course is a prerequisite for Hazard Analysis Critical Control Point (HACCP) program implementation. Delivery methods: Ten hour course with certification exam.

Food, Culture, and Reading (FCR): A train-the-trainer session for volunteers/teachers to implement the 6 lesson curriculum for pre-kindergarten through grade 2. Delivery methods: 1 3 hour class.

Growing Connections: A program for youth that teaches nutrition, food safety, and food security issues through gardening. Delivery methods: group workshops, individual instruction, various media, demonstrations, experiential learning.

Hazard Analysis Critical Control Point (HACCP): Training and Implementation Pilot, for Vermont School Food Service, statewide: Determine "best practices" and implementation strategies for successful HACCP programs used in school foodservice operations. Delivery methods: Course, consultation.

Healthy Eating: Nutrition classes designed for a wide range of people, with an emphasis on national Dietary Guidelines.

Participants learn the latest information about how to choose a healthy diet, practice food safety and incorporate physical activity into their day. Delivery methods: Classes, ranging from one to six sessions.

Senior Farm Share Nutrition : Nutrition education for low-income Senior Farm Share participants aimed at increasing their consumption of local, fresh produce by enhancing participants skills to prepare fresh fruits and vegetables and gain nutritional knowledge based on the Dietary Guidelines. Delivery methods: Single or multi-session workshop.

Bankruptcy education curriculum: Apply for federal recognition for UVM Extension to be a provider for bankruptcy education. Delivery Methods: Research project.

AES efforts:

- Internet based and telecommunication methods for weight control
- Development and evaluation of web-based instructional material for college-level teaching and delivery of such for nutritional education/management
- Nutritional management: increasing fruit/vegetable consumption and enhancing understanding of consumer food choices
- Childhood nutrition and obesity control research
- Detection and elimination of Listeria monocytogenes, E. coli and other pathogens in dairy products including raw milk cheeses
- Production methods to eliminate pathogen risk in raw milk cheeses
- Elimination of lactate crystals and other flaws from cheese production
- Elimination of pathogens in food production systems

### 14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> <li>● Other 1 (Train the Trainer)</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Other 1 (radio - educational)</li> <li>● Other 2 (professional pubs)</li> </ul>

### 15. Description of targeted audience

• Adults • Age 60 - Senior • Communities: Schools • Extension: Faculty/Staff • Food Industry: Food Service Workers • Public: Daycare Providers • Public: Families • Public: General • Youth

### 16. Standard output measures

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	1500	10	900	0
2008	1500	10	900	0
2009	1500	10	900	0
2010	1500	10	900	0
2011	1500	10	900	0

**17. (Standard Research Target) Number of Patents**

Expected Patents	
Year	Target
2007	1
2008	1
2009	1
2010	1
2011	1

**18. Output measures**

**Output Text**

Bankruptcy ATF TV program

2007 Target: 2  
 2008 Target: 2  
 2009 Target: 2  
 2010 Target: 2  
 2011 Target: 2

**Output Text**

Bankruptcy article

2007 Target: 1  
 2008 Target: 1  
 2009 Target: 1  
 2010 Target: 1  
 2011 Target: 1

**Output Text**

Bankruptcy education planning discussion group

2007 Target: 3  
 2008 Target: 3  
 2009 Target: 3  
 2010 Target: 3  
 2011 Target: 3

**Output Text**

Bankruptcy education: curriculum & application

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Bankruptcy radio

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Bankruptcy web articles

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Dining With Diabetes Workshop Series

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Dining With Diabetes website development

2007 Target: 1  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Output Text**

Diabetes News

2007 Target: 8  
2008 Target: 8  
2009 Target: 8  
2010 Target: 8  
2011 Target: 8

**Output Text**

Diabetes News-radio

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Food, Culture, and Reading curriculum

2007 Target: 1  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Output Text**

Food, Culture, and Reading training

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Five hour food safety and certification training

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 0  
2011 Target: 0

**Output Text**

Growing Connections training

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Healthy Eating workshops

2007 Target: 25  
2008 Target: 25  
2009 Target: 25  
2010 Target: 25  
2011 Target: 25

**Output Text**

Home visits/small groups

2007 Target: 256  
2008 Target: 256  
2009 Target: 256  
2010 Target: 256  
2011 Target: 256

**Output Text**

Nutrition and food safety news

2007 Target: 60  
2008 Target: 60  
2009 Target: 60  
2010 Target: 60  
2011 Target: 60

**Output Text**

Pre diabetes workshops

2007 Target: 14  
2008 Target: 14  
2009 Target: 14  
2010 Target: 14  
2011 Target: 14

**Output Text**

Revise evaluation instruments for certification training

2007 Target: 1  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Output Text**

Senior Farm Share workshops

2007 Target: 14  
2008 Target: 14  
2009 Target: 14  
2010 Target: 14  
2011 Target: 14

**Output Text**

School preparation and implementation of Hazard Analysis Critical Control Points

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 0  
2011 Target: 0

**Output Text**

Serve New England

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Ten hour food safety and sanitation training

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 0  
2011 Target: 0

**Output Text**

Two hour food safety and sanitation training

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 0  
2011 Target: 0

**Output Text**

Information/consultation

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

## Outcomes for the Program

### 19. Outcome measures

#### Outcome Text: Awareness created

##### Outcome Text

number of faculty who have materials to provide bankruptcy education

##### Outcome Type: Short

2007 Target: 3

2008 Target: 3

2009 Target: 3

2010 Target: 3

2011 Target: 3

##### Outcome Text

number of media providing information to the public regarding opportunities for bankruptcy education

##### Outcome Type: Short

2007 Target: 5

2008 Target: 5

2009 Target: 5

2010 Target: 5

2011 Target: 5

##### Outcome Text

child/adult care center managers passing food safety certification exam

##### Outcome Type: Short

2007 Target: 35

2008 Target: 35

2009 Target: 35

2010 Target: 0

2011 Target: 0

##### Outcome Text

number of participants who adopt at least three new dietary practices from US Dietary Guidelines

##### Outcome Type: Medium

2007 Target: 159

2008 Target: 159

2009 Target: 159

2010 Target: 159

2011 Target: 159

##### Outcome Text

number of participants who have blood sugar tested

**Outcome Type:** Short

2007 Target: 83  
2008 Target: 83  
2009 Target: 83  
2010 Target: 83  
2011 Target: 83

**Outcome Text**

number of participants who increase the quality and/or quantity of fruits and vegetables

**Outcome Type:** Medium

2007 Target: 93  
2008 Target: 93  
2009 Target: 93  
2010 Target: 93  
2011 Target: 93

**Outcome Text**

number of people who expand or change their preferences for or attitudes about healthy foods

**Outcome Type:** Medium

2007 Target: 53  
2008 Target: 53  
2009 Target: 53  
2010 Target: 53  
2011 Target: 53

**Outcome Text**

number of people who follow recommended portion size and number of servings

**Outcome Type:** Medium

2007 Target: 53  
2008 Target: 53  
2009 Target: 53  
2010 Target: 53  
2011 Target: 53

**Outcome Text**

number of people who improve food planning and shopping behaviors

**Outcome Type:** Short

2007 Target: 53  
2008 Target: 53  
2009 Target: 53  
2010 Target: 53  
2011 Target: 53

**Outcome Text**

number of people who increase their knowledge about the US Dietary Guidelines

**Outcome Type:** Short

2007 Target: 237  
2008 Target: 237  
2009 Target: 237  
2010 Target: 237  
2011 Target: 237

**Outcome Text**

number of people who increase their physical activity

**Outcome Type:** Medium

2007 Target: 306  
2008 Target: 306  
2009 Target: 306  
2010 Target: 306  
2011 Target: 306

**Outcome Text**

number of people with knowledge and skills to read labels and select good food

**Outcome Type:** Short

2007 Target: 53  
2008 Target: 53  
2009 Target: 53  
2010 Target: 53  
2011 Target: 53

**Outcome Text**

number of school food managers certified in food safety and sanitation

**Outcome Type:** Short

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

number of school food service workers using food safety 'best practices' when receiving, storing, handling, preparing and serving food

**Outcome Type:** Medium

2007 Target: 50  
2008 Target: 50  
2009 Target: 50  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

number of schools implementing Hazard Analysis Critical Control Point based food safety programs

**Outcome Type:** Medium

2007 Target: 5  
2008 Target: 5  
2009 Target: 5  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

number the people who show an improvement in healthful eating practices

**Outcome Type:** Short

2007 Target: 106  
2008 Target: 106  
2009 Target: 106  
2010 Target: 106  
2011 Target: 106

**Outcome Text**

people who show improvement in food safety and preservation practices

**Outcome Type:** Medium

2007 Target: 196  
2008 Target: 196  
2009 Target: 196  
2010 Target: 196  
2011 Target: 196

**Outcome Text**

number of previously food-insecure people who eat adequate and balanced meals on a regular basis

**Outcome Type:** Medium

2007 Target: 53  
2008 Target: 53  
2009 Target: 53  
2010 Target: 53  
2011 Target: 53

**Outcome Text**

number of people who develop a plan to improve dietary practices

**Outcome Type:** Short

2007 Target: 310  
2008 Target: 310  
2009 Target: 310  
2010 Target: 310  
2011 Target: 310

**20. External factors which may affect outcomes**

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

**Description**

Overweight and sedentary lifestyles lead to or exacerbate many chronic diseases including cardiovascular disease, hypertension, diabetes, asthma, cancer, liver disease, and osteoporosis

Vermont School Food Service operations vary considerably in size and sophistication, and the educational level of staff employed

Participants will have to repay debts that cannot be wiped out under the new bankruptcy law (600 declared bankruptcies in VT in 2005.)

**21. Evaluation studies planned**

- Retrospective (post program)
- Before-After (before and after program)
- Time series (multiple points before and after program)
- Comparisons between program participants (individuals,group,organizations) and non-participants
- Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

**Description**

{NO DATA ENTERED}

**22. Data Collection Methods**

- Sampling
- Structured
- Observation
- Tests
- Other (records)

**Description**

{NO DATA ENTERED}

## 1. Name of the Planned Program

### Agriculture and Environmental Sustainability

## 2. Program knowledge areas

- 133 Pollution Prevention and Mitigation 7 %
- 216 Integrated Pest Management Systems 6 %
- 602 Business Management, Finance, and Taxation 15 %
- 402 Engineering Systems and Equipment 2 %
- 601 Economics of Agricultural Production and Farm Management 24 %
- 307 Animal Management Systems 13 %
- 204 Plant Product Quality and Utility (Preharvest) 15 %
- 112 Watershed Protection and Management 12 %
- 723 Hazards to Human Health and Safety 3 %
- 123 Management and Sustainability of Forest Resources 3 %

## 3. Program existence

- Mature (More than five years)

## 4. Program duration

- Long-Term (More than five years)

## 5. Brief summary about Planned Program

Agriculture and Environmental Sustainability is a broad programmatic area which addresses various problems focusing on agricultural profitability; marketing and tourism opportunities; knowledge and skills to raise healthy animals; biosecurity issues; energy costs and stewardship of the environment. Identified by Extension and AES faculty, with stakeholder input, as basic to our research and outreach, it is the largest program area being addressed.

## 6. Situation and priorities

For many decades, Vermont's landscape has been a strong allure to visitors and residents alike. In many ways, tourism and quality of community life have become inextricably tied to agriculture, particularly dairying.

Change within the agricultural sector creates opportunities for Extension to affect the present and future well-being of Vermont's farmers. As farms expand, diversify and/or consolidate, farmers must master new skills such as capital and human resource management.

Vermont's agriculture is dependent on the state's agricultural industry. The historical instability in farm milk prices has left Vermont's dairy farmers in a vulnerable position. Regardless of length of time or experience in farming, or the size of the farm, today's farmers are searching for opportunities to improve their income-producing capacity.

The traditional mainstay, dairy, is undergoing many changes as producers strive to compete in national and global markets and adjust to market-based raw milk pricing. Many farms have increased cow numbers in an attempt to realize economies of scale while others have gone out of business. Although dairy cow numbers and milk production remain stable, the number of dairy farms in Vermont continues to decline, and the loss of farms has created concern about conversion of farmland to forest and development.

Farmers face many challenges; a primary challenge is their inability to clearly articulate their business idea to themselves and lenders or other sources of capital. Agricultural entrepreneurs may not be able to get a loan, may not be successful, and may be disenfranchised with Vermont agriculture. They often do not understand the financial limits (carrying loads) of their operations, are not able to communicate with lenders, or know how to read, understand, and interpret financial statements. Farmers who have not been saving for their retirement need to sell farm assets for retirement income.

Vermont farmers want to participate in the fastest growing area of dairy - organic milk production - but don't know if it's profitable, sustainable, or a viable option for them. There is a vacuum of any rigorous, quantified studies on the costs of producing organic milk in the United States despite growth and interest in the farming activity. The situation is particularly acute in the Northeast and upper Midwest where there is a small but rapidly growing organic dairy sector. Organic milk production has been the fastest growing agricultural sector in New England, with Vermont experiencing growth from just 2 certified organic farms in 1993 to more than 70 today. Although the total number of farms in the U.S. declined by more than 86,000 between 1997 and 2002 the number of farms owned and operated by women increased by nearly 30,000 during that same period. Since the

1978 Census of Agriculture, when the gender of the operator was first recorded, until the most recent Census of Agriculture in 1997, the number of women farm owners/operators increased from 5.2% to 11.1% of total farm ownership (USDA 2002 Census data). The demographic, social, and economic factors contributing to this increase in woman-owned/operated farms suggest that this growth trend will persist, gaining momentum, in all regions of the country. Among non-white farmers, women represent 10% of the farm owners/operators. The profile of women-owned farms indicates that many are small, diversified and financially at-risk.

Other challenges face agricultural producers affecting their ability to reach their marketing and profit potential. Farmers must reduce surface water pollution while maintaining profitability. Intensive crop production has often resulted in soil degradation, contributing to reduced crop yield, increased production inputs and lower farm profitability. Growers need to improve practices and/or maintain knowledge and skills related to IPM tools and methods, and the safe and judicious use of pesticides and alternatives, including organic options. Federal and State Tax laws and regulations keep changing each year, making it difficult for tax practitioners to keep up with those changes. Errors in tax returns resulting in lost revenue and increased costs to practitioners, government, and taxpayers. The Vermont and Federal legislature change tax law on a yearly basis to address state and national issues as they develop. In addition, part-time and rural tax practitioners are not able to attend professional tax schools that are within a reasonable driving distance, reasonably priced, and which offer several certification programs.

## 7. Assumptions made for the Program

Differences between low-yielding and high-yielding sap collection systems can often be attributed to education

A maple producer who may have purchased the necessary equipment often does not understand the steps necessary for its proper installation and maintenance

The character of Vermont makes an ideal location to raise sheep and with the development of two lamb marketing organizations, there is now a reliable market available in which to sell lamb

Education & research in organics will help farmers improve profitability

There still is a trend and place in Vermont for large dairy farm operations annual conference

Environmental regulations are only getting tighter, therefore making it increasingly difficult for all dairy operations

Each year, there is a new wave of people that are interested in raising sheep. For the most part, these people have no farming experience

Biosecurity training is required yet at this time few are actually trained

Price of fuel will remain unstable in the future and will continue to pose an economic risk to farmers

Economic advantages of on-farm biodiesel production will increase

Citizens are concerned about poor water quality of Lake Champlain

Farmers can reduce pollution and still remain profitable especially at low milk prices

The rate of adoption of dairy farm practice changes are influenced by farm profitability and personal beliefs in the value of any proposed changes in farm management

State and federal tax laws and regulations will continue to change, and practitioners will continue to need good information that is reasonably-priced

Usually farmers start-up with no business plan

Continued funding from USDA/RMA, Farm Viability, and Andrew Sigler Foundation is needed to support certain projects as is continued need and demand from producers for Farm Advisory Boards and technical assistance with ag. engineering projects

Extra mural funds are available to leverage federal allocation

## 8. Ultimate goal(s) of this Program

Improve agricultural and environmental sustainability

Improve coordination of Vermont agricultural agencies and organizations with regard to training, information dissemination and emergency preparedness

Create on-farm vegetable oil and/or biodiesel production facilities

Improved access to private land

Improved biosecurity and safety measures at fairs, field days and on farms

Improved profitability, stewardship, and/or management on Vermont farms

Improved soil health

Improved teaching by Extension and agency personnel around tourism and the environment

Increase accuracy of tax returns

Increase adoption of practices that improve sap production and boiling efficiency

Increase the number of communities implementing agriculture-oriented safety drills, equipment and response-oriented tools

Increase the number of farms that implement one or more changes in nutrient management practices

Increase the number of growers and facility managers who implement IPM strategies

Increase the number of sheep producers who meet the market expectations for lean meat

Increased application of management skills that optimize health, nutritional status, and productivity of animals.

Increased profitability of businesses related directly to tourism  
 Increased successful production of organic grains in Vermont  
 Increased use of business analysis tools to improve agricultural business management decision-making  
 Informed decision making by community, business and organizational decision makers  
 Maple producers meet Vermont quality standards  
 Successful farm and forest transfers

**9. Scope of Program**

- In-State Extension
- In-State Research
- Integrated Research and Extension
- Multistate Extension

**Inputs for the Program**

**10. Expending formula funds or state-matching funds**

- Yes

**11. Expending other than formula funds or state-matching funds**

- Yes

**12. Expending amount of professional FTE/SYs to be budgeted for this Program**

Year	Extension		Research	
	1862	1890	1862	1890
2007	27.7	0.0	10.0	0.0
2008	27.7	0.0	10.0	0.0
2009	27.7	0.0	10.0	0.0
2010	27.7	0.0	10.0	0.0
2011	27.7	0.0	10.0	0.0

**Outputs for the Program**

**13. Activity (What will be done?)**

Project listed in bold followed by delivery methods. Ag Business Management. Conferences, courses, consultations and farm visits. Agricultural safety. Courses, consultations and farm visits. Beef Program. Conferences, workshops, discussion groups, individual consultations, articles, web site. Bio-security Education. Workshops, discussion groups. Calf and heifer program. Workshops, discussion groups. Dairy Management. Conference. Equine program. Annual equine event, publications, workshops. Farm and Forest Transfers. Workshops, consultations, farm visits. Farm Viability. Farm visits, consultations. Farming Alternatives. Workshops, consultations, farm visits. Forage and Pasture Management Education. Conference, farm visits, consultations. Germ City. Demonstration. Maple Program. Conference, workshops, newsletter. Nutrient Management Program. Farm visits, consultations. Addison County Agriculture Legislative Farm Tour. Tour. Farm Assessments. Develop assessments. P-Reducing Slag Barriers. Publications, demonstrations. Growing by Design. On-farm research and demonstration. Farmer Nutrient Management. Training for dairy farmers, consultations. On-farm vegetable and biodiesel. On farm demonstration sites. Organic Grain Project. Demonstrations, data gathering. Pest Management Education. IPM and Pesticide Education and Safety Program (PESP) training. Pesticide Education and Safety. Course, consultations. Sheep program. Hands-on workshop, applied research, newsletter. Healthy soil. Workshops and various media. UVM Extension emergency management plan. Personnel training via workshops, mock disaster drill. Vegetable and Berry Growers. Consultations, farm visits, meetings, various media, presentations, website. Vermont New Farmer Network. Conference, networking, consultations. Vermont Pasture Network. Pasture walks, demonstrations and trials, conference, consultations, various media. Vermont Tourism and Recreation. Research, conference. Women’s Agricultural Network. Newsletters, website,

classes, workshops, individual and small group consultations. AES efforts. • Animal Manure Treatment Systems • Storm and Wastewater Management Systems • Perturbation of soil ecosystems by anthropomorphic interventions • Soil nutrient effect on forest ecosystem productivity and lake water quality • Soil fertility/chemistry/physical problems associated with waste disposal and bioremod faction • Economics of organic dairy, crop management and alternative energy • Heifer nutrition, rearing and management • Dairy nutritional immunology • Small ruminant production and management systems • Development of strategies to address applied equine issues • Biofuels from coconuts and other energy sources • Identification of genetic traits that make species invasive • Surveillance and prevention of spread of Asian Longhorned Beetle • Management of thrips pests in forests and greenhouses • Identification/control of fungal propagation • Fungal biological plant protection, collection and management • Explore microbial pesticides and fungal components as IPM strategies • Innate immunity, DNA-based vaccines and mastitis prevention • Hormonal regulation of glucose synthesis and milk production • Functional genomics and photoperiod effects on hormonal cycles/milk production • Explore ruminant lipid metabolism • Impact of global climate change on forest species diversity • Genetic diversity among new world ferns and geographic distribution • Cold hardiness of horticultural perennials

**14. Type(s) of methods will be used to reach direct and indirect contacts**

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> <li>● Education Class</li> <li>● Workshop</li> <li>● Group Discussion</li> <li>● One-on-One Intervention</li> <li>● Demonstrations</li> <li>● Other 1 (Train the Trainer)</li> <li>● Other 2 (Presentation/field days)</li> </ul>	<ul style="list-style-type: none"> <li>● Newsletters</li> <li>● TV Media Programs</li> <li>● Web sites</li> <li>● Other 1 (Publication- professional/peer)</li> </ul>

**15. Description of targeted audience**

Adults Age 25 - 60 Adult Agriculture: Apple Growers Agriculture: Beef Producers Agriculture: Dairy Producers Agriculture: Farmers Agriculture: Goat & Sheep Producers Agriculture: Greenhouse Ornamental Growers Agriculture: Home Gardeners Agriculture: Industry Professionals Agriculture: Maple Industry Agriculture: Maple Sugar Producers Agriculture: Small Fruit & Vegetable Growers Agriculture: Veterinarians Agriculture: Dairy Goat, Meat Goat and Dairy Sheep Producers Communities: Schools Community leaders and citizens Extension: Faculty/Staff Forestry: Woodland Owners Policy Makers: Legislators Public: Families Public: General Public: Small Business Owners/Entrepreneurs Public: Volunteers 4-H: Youth Age 13 - 18 Youth Youth

**16. Standard output measures**

**Target for the number of persons(contacts) to be reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	12700	257000	900	10
2008	12700	257000	900	10
2009	12700	257000	900	10
2010	12700	257000	900	10
2011	12700	257000	900	10

**17. (Standard Research Target) Number of Patents**

Expected Patents	
Year	Target
2007	1
2008	1
2009	1
2010	1
2011	1

**18. Output measures**

**Output Text**

4-H biosecurity program

2007 Target: 1  
 2008 Target: 1  
 2009 Target: 1  
 2010 Target: 1  
 2011 Target: 1

**Output Text**

Addison County Agriculture Legislative Farm Tour

2007 Target: 1  
 2008 Target: 1  
 2009 Target: 1  
 2010 Target: 1  
 2011 Target: 1

**Output Text**

Ag Business Management Course

2007 Target: 5  
 2008 Target: 5  
 2009 Target: 5  
 2010 Target: 5  
 2011 Target: 5

**Output Text**

Ag Engineering farm visits

2007 Target: 45  
 2008 Target: 45  
 2009 Target: 45  
 2010 Target: 45  
 2011 Target: 45

**Output Text**

Agricultural Profitability Team meetings

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Asian Longhorned beetle (ALB) information distribution

2007 Target: 200  
2008 Target: 200  
2009 Target: 200  
2010 Target: 200  
2011 Target: 200

**Output Text**

Asian Longhorned beetle website

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Avian influenza - ATF-television

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Avian influenza drill

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Balance Sheet/Budgeting Clinics

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Beef - print media

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Beef Conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Beef consultations

2007 Target: 50  
2008 Target: 50  
2009 Target: 50  
2010 Target: 50  
2011 Target: 50

**Output Text**

Beef factsheets

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Bio-security recommendations for farm visits

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Bio-security training communication

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Business plan implementation

2007 Target: 32  
2008 Target: 32  
2009 Target: 32  
2010 Target: 32  
2011 Target: 32

**Output Text**

Business plans completed

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Output Text**

Calf and Heifer Conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Classes for Master Gardener and Master Composter

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Completed soil health database

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Crop Insurance workshop

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Consultations

2007 Target: 1500  
2008 Target: 1500  
2009 Target: 1500  
2010 Target: 1500  
2011 Target: 1500

**Output Text**

Crop Insurance articles

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Dairy Reproduction and Forage Quality on-line training

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Dairy Stewardship Alliance article

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Dairy Stewardship Alliance data summarization

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Dairy Stewardship Alliance farm visits

2007 Target: 8  
2008 Target: 8  
2009 Target: 8  
2010 Target: 8  
2011 Target: 8

**Output Text**

Dairy Stewardship Assessment

2007 Target: 54  
2008 Target: 54  
2009 Target: 54  
2010 Target: 54  
2011 Target: 54

**Output Text**

Dairy commodity grant articles

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Dairy price education articles

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

Dairy price education newsletter

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Dairy/Forage Research Day

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Development of Farm Assessments

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Output Text**

Economic Analysis of Northern Forest Canoe Trail

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Edit State Support Function 11

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Fair & Field Day staff education

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Farm Management plans -APT

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Output Text**

Farm Safety Task Force

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Farm visits

2007 Target: 95  
2008 Target: 95  
2009 Target: 95  
2010 Target: 95  
2011 Target: 95

**Output Text**

Farmedic class

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Farmer consults

2007 Target: 80  
2008 Target: 80  
2009 Target: 80  
2010 Target: 80  
2011 Target: 80

**Output Text**

Farmer Nutrient Management Training presentation

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Farmers Market training

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Farming Alternatives presentations

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Feeder sales

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Forage and Pasture Mgt education presentation

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Germ City at Sheep Camp

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Germ City train the trainer

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Grain Growing workshops

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Grain Research project

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Greenhouse IPM workshop

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Greenhouse IPM handouts

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Greenhouse IPM manual

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Growing Places II course

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Grow Your Business consultations

2007 Target: 60  
2008 Target: 60  
2009 Target: 60  
2010 Target: 60  
2011 Target: 60

**Output Text**

Growing Places course

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Growing Places on-line class

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Output Text**

Growing by Design cropping systems trial

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Growing by Design field day

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Incident Command System training workshop

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

IPM/PESP (for farmers and Certified Private Applicators)

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

IPM/PESP for Certified Commercial Applicators

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Introduction to Sheep Management workshop

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Lamb feeding trial

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Lambing Clinic

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Live Lamb Grading Workshop

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Livestock discussion group

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Output Text**

ME/Vermont Organic Dairy Analysis consultations

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Output Text**

Medium Farm Operation Nutrient Management Assessment tool

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Medium Farm Operation Nutrient Management Survey-BMP field site visit

2007 Target: 50  
2008 Target: 50  
2009 Target: 50  
2010 Target: 50  
2011 Target: 50

**Output Text**

Medium Farm Operation Nutrient Management Survey-NRCS field site visit

2007 Target: 25  
2008 Target: 25  
2009 Target: 25  
2010 Target: 25  
2011 Target: 25

**Output Text**

Managed Intensive Grazing Pasture workshop

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Maine/Vt. Organic Milk Research Study

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Output Text**

Maple - ATF- television

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Maple Mainline newsletter

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Maple research web material

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Maple Syrup Digest article

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Maple consultations

2007 Target: 23  
2008 Target: 23  
2009 Target: 23  
2010 Target: 23  
2011 Target: 23

**Output Text**

Nutrient Management Plan training course for farmers

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

NRCS co-facilitated workshops

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

National Extension Tourism Conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

National Extension Tourism Conference presentation

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

National income tax book

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

New England Agro-Security manual

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

NxLevel Course

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

On-farm biodiesel results publication

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

On-farm vegetable oil/biodiesel project demonstration

2007 Target: 0  
2008 Target: 10  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Output Text**

Organic apple production workshop

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

P-Reducing Slag Barrier field day

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

P-Reducing Slag Barriers research site

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

PESP - Initial Certification for Pesticide Applicators workshop

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

PESP Program School IPM Award of Achievement

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

PESP newsletter

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

PESP website

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Parasite fields study sites

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Parasite workshops

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Participatory Modeling workshop

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Pasture Walks

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Output Text**

Plant Diagnostic Clinic email/phone consultations

2007 Target: 3000  
2008 Target: 3000  
2009 Target: 3000  
2010 Target: 3000  
2011 Target: 3000

**Output Text**

Plant Diagnostic Clinic website

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Plant Insect Pest Diagnostic enquiries email/phone

2007 Target: 200  
2008 Target: 200  
2009 Target: 200  
2010 Target: 200  
2011 Target: 200

**Output Text**

Plant Insect Pest Diagnostic identification and recommendations

2007 Target: 50  
2008 Target: 50  
2009 Target: 50  
2010 Target: 50  
2011 Target: 50

**Output Text**

Poultry biosecurity workshop

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

Poultry production conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Public Access for Tourism and Recreation on Private Lands web page

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Response to inquiries (email/phone)

2007 Target: 1000  
2008 Target: 1000  
2009 Target: 1000  
2010 Target: 1000  
2011 Target: 1000

**Output Text**

Soil Health Assessment - field site visits

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Output Text**

Soil Health Assessment - orchards

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Soil Health Field days/workshops

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

State Animal Response Team newsletter

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Tapping Survey (Maple)

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Tractor safety course

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Transferring the Farm program

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

UVM Tax Schools

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Output Text**

VT Large Farm Dairy Conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Veg. & Berry radio commentaries

2007 Target: 8  
2008 Target: 8  
2009 Target: 8  
2010 Target: 8  
2011 Target: 8

**Output Text**

Veg. & Berry magazine columns

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Veg. & Berry newsletters

2007 Target: 18  
2008 Target: 18  
2009 Target: 18  
2010 Target: 18  
2011 Target: 18

**Output Text**

Vegetable and Berry meetings

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Output Text**

Vermont Grass Farmer's Association newsletter

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Vermont Maple conferences

2007 Target: 5  
2008 Target: 5  
2009 Target: 5  
2010 Target: 5  
2011 Target: 5

**Output Text**

Vermont Maplerama meetings

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Vermont New Farmer Network development training

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Vermont Tourism Data Center

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Vermont Travel Industry Conference

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Vermont vegetable and berry web site articles

2007 Target: 52  
2008 Target: 52  
2009 Target: 52  
2010 Target: 52  
2011 Target: 52

**Output Text**

Womens Ag Network Newsletter

2007 Target: 4  
2008 Target: 4  
2009 Target: 4  
2010 Target: 4  
2011 Target: 4

**Output Text**

Womens Ag Network website articles

2007 Target: 12  
2008 Target: 12  
2009 Target: 12  
2010 Target: 12  
2011 Target: 12

**Output Text**

Womens Ag Network workshops, learning circles, etc.

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Output Text**

Winter Dairy Herd Mgmt meeting

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Output Text**

Conflict resolution in the Green Mtn Forest Canoe Trail - refereed journal article

2007 Target: 1  
2008 Target: 1  
2009 Target: 1  
2010 Target: 1  
2011 Target: 1

**Outcomes for the Program**

**19. Outcome measures**

**Outcome Text: Awareness created**

**Outcome Text**

beef producers report information and services improved their profitability, stewardship and/or management

**Outcome Type:** Medium

2007 Target: 15  
2008 Target: 15  
2009 Target: 15  
2010 Target: 15  
2011 Target: 15

**Outcome Text**

customers that receive organic grain production research data will integrate results into production systems

**Outcome Type:** Medium

2007 Target: 50  
2008 Target: 50  
2009 Target: 50  
2010 Target: 50  
2011 Target: 50

**Outcome Text**

extension employees will know what is expected from them in a disaster

**Outcome Type:** Short

2007 Target: 15  
2008 Target: 15  
2009 Target: 15  
2010 Target: 15  
2011 Target: 15

**Outcome Text**

farmers will make a change by growing oil seed crops, using local on-farm vegetable oil or biodiesel, and/or planning an individual or cooperative on-farm vegetable oil or biodiesel facility.

**Outcome Type:** Medium

2007 Target: 100  
2008 Target: 100  
2009 Target: 100  
2010 Target: 100  
2011 Target: 100

**Outcome Text**

extension and agency personnel gain new skills that can be applied in their work

**Outcome Type:** Short

2007 Target: 120  
2008 Target: 120  
2009 Target: 120  
2010 Target: 120  
2011 Target: 120

**Outcome Text**

number of businesses or organizations who report better decision making

**Outcome Type:** Short

2007 Target: 160  
2008 Target: 160  
2009 Target: 160  
2010 Target: 160  
2011 Target: 160

**Outcome Text**

number of dairy farmers who adopt a best management practice they learned from another farmer participant

**Outcome Type:** Medium

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Outcome Text**

number of dairy farmers who adopt best management practices to improve weak areas of the farming operation

**Outcome Type:** Medium

2007 Target: 3  
2008 Target: 3  
2009 Target: 3  
2010 Target: 3  
2011 Target: 3

**Outcome Text**

number of dairy farmers who indicate intent to make at least 1 change

**Outcome Type:** Short

2007 Target: 225  
2008 Target: 225  
2009 Target: 225  
2010 Target: 225  
2011 Target: 225

**Outcome Text**

number of dairy farms increasing forage quality as measured by ADF, NDF, Protein, and NEL

**Outcome Type:** Medium

2007 Target: 100  
2008 Target: 100  
2009 Target: 100  
2010 Target: 100  
2011 Target: 100

**Outcome Text**

number of dairy farms that increase pregnancy/fertility rates

**Outcome Type:** Medium

2007 Target: 100  
2008 Target: 100  
2009 Target: 100  
2010 Target: 100  
2011 Target: 100

**Outcome Text**

number of farm families who take action on a recommendation made by an Extension team after the APT plan is developed

**Outcome Type:** Medium

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Outcome Text**

number of farmers having a greater understanding of the costs associated with organic farming

**Outcome Type:** Short

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Outcome Text**

number of farms completing Dairy Stewardship assessment who adopt at least two sustainable practices

**Outcome Type:** Medium

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Outcome Text**

number of maple producers who adopt recommended practices that increase overall system efficiency and syrup quality

**Outcome Type:** Medium

2007 Target: 200  
2008 Target: 200  
2009 Target: 200  
2010 Target: 200  
2011 Target: 200

**Outcome Text**

number of producers who have increased understanding of avian influenza risk, signs of disease, and who to contact

**Outcome Type:** Short

2007 Target: 100  
2008 Target: 100  
2009 Target: 100  
2010 Target: 100  
2011 Target: 100

**Outcome Text**

number of sheep farmers demonstrating better livestock management skills who report an increase in the number of healthy sheep

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of sheep producers who report a reduced parasite load in animals

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of sheep farms who report decreased lamb mortality

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of communities that integrate the participatory modeling tool into long-term town planning

**Outcome Type:** Medium

2007 Target: 2  
2008 Target: 2  
2009 Target: 2  
2010 Target: 2  
2011 Target: 2

**Outcome Text**

number of vegetable and berry growers who implement changes in production, pest control, and/or management practice resulting in the desired outcome

**Outcome Type:** Medium

2007 Target: 150  
2008 Target: 150  
2009 Target: 150  
2010 Target: 150  
2011 Target: 150

**Outcome Text**

number of growers implementing IPM practices reducing reliance on pesticides

**Outcome Type:** Medium

2007 Target: 80  
2008 Target: 80  
2009 Target: 80  
2010 Target: 80  
2011 Target: 80

**Outcome Text**

number of commercial applicators implementing IPM practices

**Outcome Type:** Medium

2007 Target: 60  
2008 Target: 60  
2009 Target: 60  
2010 Target: 60  
2011 Target: 60

**Outcome Text**

number of farm and forest landowners who report greater understanding of farm and/or forest transfer issues and options

**Outcome Type:** Medium

2007 Target: 243  
2008 Target: 243  
2009 Target: 243  
2010 Target: 243  
2011 Target: 243

**Outcome Text**

number of farm and forest landowners who implement or change their estate plan and/or transfer plan

**Outcome Type:** Medium

2007 Target: 9  
2008 Target: 9  
2009 Target: 9  
2010 Target: 9  
2011 Target: 9

**Outcome Text**

number of farmers selling directly to consumers implementing marketing, production and record keeping skills

**Outcome Type:** Medium

2007 Target: 90  
2008 Target: 90  
2009 Target: 90  
2010 Target: 90  
2011 Target: 90

**Outcome Text**

number of farmers who implement at least one cropping practice to improve productivity, forage quality and profitability

**Outcome Type:** Medium

2007 Target: 64  
2008 Target: 64  
2009 Target: 64  
2010 Target: 64  
2011 Target: 64

**Outcome Text**

number of farmers with business plans who use financial statements to address management problems in farm operation  
increasing farm profitability

**Outcome Type:** Short

2007 Target: 32  
2008 Target: 32  
2009 Target: 32  
2010 Target: 32  
2011 Target: 32

**Outcome Text**

number of maple producers adopting a recommended practice increasing their sap yields by 5%

**Outcome Type:** Medium

2007 Target: 65  
2008 Target: 65  
2009 Target: 65  
2010 Target: 65  
2011 Target: 65

**Outcome Text**

number of maple producers making use of research findings to better estimate best tapping date

**Outcome Type:** Medium

2007 Target: 500  
2008 Target: 500  
2009 Target: 500  
2010 Target: 500  
2011 Target: 500

**Outcome Text**

number of participants who maintain direct involvement in promoting the importance of Vermont Agriculture

**Outcome Type:** Medium

2007 Target: 85  
2008 Target: 85  
2009 Target: 85  
2010 Target: 85  
2011 Target: 85

**Outcome Text**

number of participants passing the required applicators licensing test

**Outcome Type:** Medium

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Outcome Text**

number of planners reporting increased feelings of competency in understanding requirements in NMP and assisting farmers in implementation of Nutrient Management Plans

**Outcome Type:** Medium

2007 Target: 18  
2008 Target: 18  
2009 Target: 18  
2010 Target: 18  
2011 Target: 18

**Outcome Text**

number of maple producers adopting most effective sap collection techniques

**Outcome Type:** Medium

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Outcome Text**

number of forest owners who plan for long term disposition of woodlands

**Outcome Type:** Medium

2007 Target: 0  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

participants will begin growing organic grains as a part of their farming operation

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

participants will have gained knowledge on how to grow organic grains

**Outcome Type:** Short

2007 Target: 120  
2008 Target: 120  
2009 Target: 120  
2010 Target: 120  
2011 Target: 120

**Outcome Text**

acres of forest land will be opened for tourism and recreation access

**Outcome Type:** Medium

2007 Target: 100000  
2008 Target: 100000  
2009 Target: 100000  
2010 Target: 100000  
2011 Target: 100000

**Outcome Text**

participants will implement information learned from Grain Growing workshops

**Outcome Type:** Medium

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Outcome Text**

equine facilities incorporate biosecurity, safety and preventative measures

**Outcome Type:** Medium

2007 Target: 0  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

increase in collaboration with agency and industry personnel to address farm safety

**Outcome Type:** Medium

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Outcome Text**

number of Growing Places graduates make an intentional, informed decision not to start a business after completing the course

**Outcome Type:** Medium

2007 Target: 8  
2008 Target: 8  
2009 Target: 8  
2010 Target: 8  
2011 Target: 8

**Outcome Text**

number of Growing Places graduates who go on to start a business within 18 months of course completion

**Outcome Type:** Medium

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Outcome Text**

number of fair and field days, and similar events that incorporate assessment and implementation of practical safeguards

**Outcome Type:** Medium

2007 Target: 5  
2008 Target: 5  
2009 Target: 5  
2010 Target: 5  
2011 Target: 5

**Outcome Text**

number of fair, field days or event attendees who demonstrate an increased understanding of the health risks associated with the failure to wash hands by using safeguards provided (such as hand sanitation stations)

**Outcome Type:** Medium

2007 Target: 1000  
2008 Target: 1000  
2009 Target: 1000  
2010 Target: 1000  
2011 Target: 1000

**Outcome Text**

number of farmers who develop water quality protection plans

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of farmers who indicate increased knowledge about grazing practices

**Outcome Type:** Short

2007 Target: 36  
2008 Target: 36  
2009 Target: 36  
2010 Target: 36  
2011 Target: 36

**Outcome Text**

number of farmers who create and implement business plans

**Outcome Type:** Medium

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Outcome Text**

number of farmers who use financial statements to identify farm management problems

**Outcome Type:** Medium

2007 Target: 20  
2008 Target: 20  
2009 Target: 20  
2010 Target: 20  
2011 Target: 20

**Outcome Text**

number of farms that have current plans for use by emergency first responders

**Outcome Type:** Medium

2007 Target: 0  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

number of farms that incorporate biosecurity, safety and preventative measures

**Outcome Type:** Medium

2007 Target: 40  
2008 Target: 40  
2009 Target: 40  
2010 Target: 40  
2011 Target: 40

**Outcome Text**

number of new/aspiring farmers who have a completed goal statement and an action plan for a new agricultural business

**Outcome Type:** Medium

2007 Target: 26  
2008 Target: 26  
2009 Target: 26  
2010 Target: 26  
2011 Target: 26

**Outcome Text**

number of new/aspiring farmers who have a completed goal statement and an action plan for a new agricultural business

**Outcome Type:** Short

2007 Target: 60  
2008 Target: 60  
2009 Target: 60  
2010 Target: 60  
2011 Target: 60

**Outcome Text**

number of participants who have a greater understanding of their expenses and profit centers

**Outcome Type:** Short

2007 Target: 45  
2008 Target: 45  
2009 Target: 45  
2010 Target: 45  
2011 Target: 45

**Outcome Text**

number of participants who show a 5% or more increase in farm profitability after implementing recommended management changes

**Outcome Type:** Medium

2007 Target: 143  
2008 Target: 143  
2009 Target: 143  
2010 Target: 143  
2011 Target: 143

**Outcome Text**

number of participants will understand what pieces are in a plan, and will have a better focus for their farm business

**Outcome Type:** Medium

2007 Target: 45  
2008 Target: 45  
2009 Target: 45  
2010 Target: 45  
2011 Target: 45

**Outcome Text**

number of participating service providers report increased understanding of services provided by other agencies and organizations

**Outcome Type:** Short

2007 Target: 40  
2008 Target: 40  
2009 Target: 40  
2010 Target: 40  
2011 Target: 40

**Outcome Text**

number of program participants who make informed decisions about crop insurance

**Outcome Type:** Medium

2007 Target: 1750  
2008 Target: 1750  
2009 Target: 1750  
2010 Target: 1750  
2011 Target: 1750

**Outcome Text**

number of service providers who use the legal guide as a reference

**Outcome Type:** Medium

2007 Target: 0  
2008 Target: 0  
2009 Target: 0  
2010 Target: 0  
2011 Target: 0

**Outcome Text**

number of tax school participants stating improved accuracy of tax reporting for their clients

**Outcome Type:** Medium

2007 Target: 260  
2008 Target: 260  
2009 Target: 260  
2010 Target: 260  
2011 Target: 260

**Outcome Text**

number of farmers who identify and use a tool (such as Quicken) for farm financial records

**Outcome Type:** Medium

2007 Target: 24  
2008 Target: 24  
2009 Target: 24  
2010 Target: 24  
2011 Target: 24

**Outcome Text**

number of tax schools participants understanding federal and state tax laws and requirements

**Outcome Type:** Medium

2007 Target: 340  
2008 Target: 340  
2009 Target: 340  
2010 Target: 340  
2011 Target: 340

**Outcome Text**

number of farmers who use financial reports with another person for business purposes

**Outcome Type:** Medium

2007 Target: 15  
2008 Target: 15  
2009 Target: 15  
2010 Target: 15  
2011 Target: 15

**Outcome Text**

number of farmers who implement a practice that improves soil quality resulting in improved crop yield and quality

**Outcome Type:** Medium

2007 Target: 25  
2008 Target: 25  
2009 Target: 25  
2010 Target: 25  
2011 Target: 25

**Outcome Text**

number of farmers who implement at least one change as outlined in the water quality protection plan

**Outcome Type:** Medium

2007 Target: 15  
2008 Target: 15  
2009 Target: 15  
2010 Target: 15  
2011 Target: 15

**Outcome Text**

number of businesses who expand as a result of canoe trail recreation

**Outcome Type:** Medium

2007 Target: 10  
2008 Target: 10  
2009 Target: 10  
2010 Target: 10  
2011 Target: 10

**Outcome Text**

number of beef farmers participating in consignment sales and value added beef markets who report an increased net profit

**Outcome Type:** Medium

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Outcome Text**

number of businesses who report expected increases in profitability directly related to tourism

**Outcome Type:** Medium

2007 Target: 120  
2008 Target: 120  
2009 Target: 120  
2010 Target: 120  
2011 Target: 120

**Outcome Text**

number of farmers that develop a nutrient management plan for their farm

**Outcome Type:** Medium

2007 Target: 8  
2008 Target: 8  
2009 Target: 8  
2010 Target: 8  
2011 Target: 8

**Outcome Text**

number of farmers who implement at least one change in nutrient management plan practices

**Outcome Type:** Medium

2007 Target: 6  
2008 Target: 6  
2009 Target: 6  
2010 Target: 6  
2011 Target: 6

**Outcome Text**

number of farmers who implement grazing plans

**Outcome Type:** Medium

2007 Target: 40  
2008 Target: 40  
2009 Target: 40  
2010 Target: 40  
2011 Target: 40

**Outcome Text**

number of farmers who increase their knowledge of slag barrier technology

**Outcome Type:** Medium

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**Outcome Text**

number of farmers who increase their understanding of current requirements for planning and implementation of nutrient management plans for farm compliance with the Vermont medium farm operation permit

**Outcome Type:** Medium

2007 Target: 75  
2008 Target: 75  
2009 Target: 75  
2010 Target: 75  
2011 Target: 75

**Outcome Text**

number of legislators and key decision makers who increase understanding of current local agricultural issues

**Outcome Type:** Short

2007 Target: 50  
2008 Target: 50  
2009 Target: 50  
2010 Target: 50  
2011 Target: 50

**Outcome Text**

number of school facilities that implement IPM strategies

**Outcome Type:** Medium

2007 Target: 15  
2008 Target: 15  
2009 Target: 15  
2010 Target: 15  
2011 Target: 15

**Outcome Text**

number of sheep producers who supply lamb to Vermont Quality Meats

**Outcome Type:** Medium

2007 Target: 30  
2008 Target: 30  
2009 Target: 30  
2010 Target: 30  
2011 Target: 30

**20. External factors which may affect outcomes**

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

**Description**

Weather can affect sap and syrup quality

High cost of gas may hinder travel to workshops

Some sugarmakers may not have access to forest land with the proper species density or topography that permits efficient sap collection

Newer and more efficient technologies for both sap collecting and syrup making may be too expensive for some sugarmakers

Price of organic grain stays high

Sponsors of on-farm field days have become lax about practicing biosecurity, and many ag service providers bend to the culture of not inconveniencing hosts and attendees

Regulations for fuel production

Dairy farm profitability is currently influenced by decreasing price received for milk and meat products sold, coupled with increasing costs of production inputs including fuel, taxes, feed, fertilizer and labor

State and Federal water quality regulations require dairy farmers to implement management changes that may not be economically feasible or personally valued

There is money available to farmers to fund on-farm projects that improve water quality

Soil Building takes time and on some farms investments in soil quality will take more than the duration of the project to show results

If funds go away, so will the programs. If milk prices continue to be low, we may see a rise or fall in the demand for these

programs

Farmers are generally producers of commodities of which they have no control of the price. They are also subject to biological and natural processes which affect their financial security and profitability

#### 21. Evaluation studies planned

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- Case Study
- Other (other data sources)

#### Description

{NO DATA ENTERED}

#### 22. Data Collection Methods

- Sampling
- Mail
- Telephone
- Structured
- Unstructured
- Case Study
- Observation
- Portfolio Reviews

#### Description

{NO DATA ENTERED}