

# Agriculture and Environmental Sustainability

Agriculture and Environmental Sustainability

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

### 1. Name of the Planned Program

Agriculture and Environmental Sustainability

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

### 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	1%		4%	
104	Protect Soil from Harmful Effects of Natural Elements	0%		2%	
112	Watershed Protection and Management	11%		10%	
123	Management and Sustainability of Forest Resources	3%		0%	
133	Pollution Prevention and Mitigation	5%		6%	
201	Plant Genome, Genetics, and Genetic Mechanisms	0%		2%	
204	Plant Product Quality and Utility (Preharvest)	4%		5%	
205	Plant Management Systems	5%		2%	
206	Basic Plant Biology	0%		2%	
216	Integrated Pest Management Systems	8%		8%	
302	Nutrient Utilization in Animals	0%		2%	
305	Animal Physiological Processes	1%		3%	
307	Animal Management Systems	6%		7%	
313	Internal Parasites in Animals	2%		0%	
315	Animal Welfare/Well-Being and Protection	0%		4%	
601	Economics of Agricultural Production and Farm Management	28%		18%	
602	Business Management, Finance, and Taxation	13%		14%	
605	Natural Resource and Environmental Economics	4%		3%	
723	Hazards to Human Health and Safety	4%		4%	
801	Individual and Family Resource Management	5%		4%	
<b>Total</b>		100%		100%	

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

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	27.7	0.0	10.0	0.0
<b>Actual</b>	22.0	0.0	8.8	0.0

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b> 887704	<b>1890 Extension</b> 0	<b>Hatch</b> 1005717	<b>Evans-Allen</b> 0
<b>1862 Matching</b> 2070315	<b>1890 Matching</b> 0	<b>1862 Matching</b> 1186481	<b>1890 Matching</b> 0
<b>1862 All Other</b> 1036613	<b>1890 All Other</b> 0	<b>1862 All Other</b> 0	<b>1890 All Other</b> 0

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

**1. Brief description of the Activity**

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.
  - 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.
  - Sheep program. Hands-on workshop, applied research, newsletter.
  - Healthy soil. Workshops and various media.
  - 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.
  - Master Gardener. Course, train the trainer
  - Private/commercial Landowner and Industry Professional Education: Consultations, media
  - Small Ruminant Dairy Project. Conference, newsletter, workshops, consultations
  - Sustainable Forests. Workshops, newsletter, consultations
  - Urban Watershed and Water Quality. Presentations, demonstrations, media, in-school program
  - UVM Tax School. conference, tax book
  - Watershed & Water Quality Education. In-school program, curriculum development, presentationsAES efforts.
- 
- Develop of affordable, portable, easily integrated animal manure treatment systems
  - Design effective, affordable storm and wastewater management systems
  - Explore perturbation of soil ecosystems by anthropomorphic interventions
  - Test soil nutrient effect on forest ecosystem productivity and lake water quality
  - Reduce soil fertility/chemistry/physical problems associated with waste disposal
  - Examine economics of organic dairy production, transition, distribution
  - Explore economics of organic farming, crop management and alternative energy
  - Describe ecological services provided through treed farmland habitats
  - Develop and share knowledge about heifer nutrition, rearing and management
  - Reduce dairy mastitis through genetic and nutritional options
  - Improve small ruminant production, product development, and management systems
  - Develop strategies to address applied equine issues
  - Explore on-farm energy sources uses, and impacts of production

## Agriculture and Environmental Sustainability

- Examine ways to create just policies and tenure systems for longterm sustainable management of ecosystem services for forestlands and watersheds

- Identify genetic traits that make species invasive
- Survey, increase awareness, and prevent northward spread of Asian Longhorned Beetle
- Manage thrips pests in forests and greenhouses
- Develop fungal means of biological pest management for common crops
- Explore microbial pesticides and fungal components as IPM strategies
- Explore innate immunity, DNA-based vaccines and mastitis prevention
- Develop means for hormonal regulation of glucose synthesis and milk production
- Develop functional foods from diverse array of farm products
  - Develop technologies from recycled, environmentally safe farm by-products
  - Develop new markets and local producers and distributors for farm-based products
- Explore local food systems as food landscapes and foodsheds change
  - Develop new technologies to increase maple sap collection and quality
- Examine impacts of global climate change on forest and montane habitats
- Explore genetic diversity among new world ferns and geographic distribution
- Test cold hardiness of horticultural perennials, wine grapes, and organic apple varieties

## 2. Brief description of the target audience

- Adults
- Age 13 - 18 Youth
- Age 19 - 24 Young Adult
- Age 25 - 45 Adult
- Age 25 - 60 Adult
- Age 46 - 65 Adult
- Age 6 - 12 School Age
- Age 60 - Senior
- Age 8 - 18 Youth
- Agriculture/Natural Resources: Watershed Based Organizations
- Agriculture: Apple Growers
- Agriculture: Beef Producers
- Agriculture: CCA & Crop Consultants
- Agriculture: Crop Producers
- Agriculture: Dairy Processors
- Agriculture: Dairy Producers
- Agriculture: Equine Producers/Owners
- Agriculture: Farm Employees
- Agriculture: Farm Families
- Agriculture: Farmers
- Agriculture: Goat & Sheep Producers
- Agriculture: Greenhouse Ornamental Growers
- Agriculture: Home Gardeners
- Agriculture: Industry Professionals
- Agriculture: Livestock producers

## Agriculture and Environmental Sustainability

- Agriculture: Maple Sugar Producers
- Agriculture: Ornamentals Industry Professionals
- Agriculture: Service Providers
- Agriculture: Small Fruit & Vegetable Growers
- Agriculture: Value added Dairy processors
- Agriculture:Dairy Goat, Meat Goat and Dairy Sheep Producers
- Agriculture:Government Agency Personnel
- Communities: Cities and Towns
- Communities: Educators
- Communities: Local Officials/Leaders
- Communities: Non-Governmental Organizations
- Communities: Schools
- Community leaders and citizens
- Dairy Professionals
- Environmental Professionals: Environmental Managers
- Extension: Advisors
- Extension: Faculty/Staff
- Food Industry: Handlers
- Food Industry: Processors
- Forestry: Landscape Industry
- Forestry: Loggers
- Forestry: Wood Products Businesses
- Forestry: Woodland Managers/Foresters
- Forestry: Woodland Owners
- Master Gardeners
- Policy Makers: Legislators

Agriculture and Environmental Sustainability

- Public: Age 1-5 (Preschoolers)
- Public: Age 13-18 (Youth)
- Public: Age 3-21
- Public: Age 6-12 (Children)
- Public: College Students
- Public: Families
- Public: General
- Public: Homeowners
- Public: Media Outlets
- Public: Nonprofit Organizations
- Public: Parents
- Public: Small Business Owners/Entrepreneurs
- Train-the-Trainer recipients:adults
- USDA personnel
- Youth

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

**1. Standard output measures**

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

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	30000	55000	3000	200
2008	27000	615000	3300	0

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

**Patent Applications Submitted**

<b>Year</b>	<b>Target</b>
<b>Plan:</b>	1
2008:	9

**Patents listed**

PCT/US2007/086838

60/848,438

11/862,765PCT/US2007/079883

60/974,951

Maple Spout with vacuum check valve -- not yet assigned

Maple check valve with antimicrobial -- under review

Maple booster spout -- under review

Whey-based paper glue -- under review

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

**Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>	1	1	
2008	2	3	5

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

**Output Target**

**Output #1**

**Output Measure**

4-H biosecurity program

*Not reporting on this Output in this Annual Report*

**Output #2**

**Output Measure**

Addison County Agriculture Legislative Farm Tour

*Not reporting on this Output in this Annual Report*

**Output #3**

**Output Measure**

Ag Business Management Course

*Not reporting on this Output in this Annual Report*

**Output #4**

**Output Measure**

Ag Engineering farm visits

*Not reporting on this Output in this Annual Report*

**Output #5**

**Output Measure**

Agricultural Profitability Team meetings

*Not reporting on this Output in this Annual Report*

**Output #6**

**Output Measure**

Asian Longhorned beetle (ALB) information distribution

*Not reporting on this Output in this Annual Report*

**Output #7**

**Output Measure**

Asian Longhorned beetle website

*Not reporting on this Output in this Annual Report*

**Output #8**

**Output Measure**

Avian influenza - ATF-television

*Not reporting on this Output in this Annual Report*

**Output #9**

**Output Measure**

Avian influenza drill

*Not reporting on this Output in this Annual Report*

**Output #10**

**Output Measure**

Balance Sheet/Budgeting Clinics

*Not reporting on this Output in this Annual Report*

**Output #11**

**Output Measure**

Beef - print media

*Not reporting on this Output in this Annual Report*

**Output #12**

**Output Measure**

Beef Conference

*Not reporting on this Output in this Annual Report*

**Output #13**

**Output Measure**

Beef consultations

Agriculture and Environmental Sustainability

*Not reporting on this Output in this Annual Report*

**Output #14**

**Output Measure**

Beef factsheets

*Not reporting on this Output in this Annual Report*

**Output #15**

**Output Measure**

Bio-security recommendations for farm visits

*Not reporting on this Output in this Annual Report*

**Output #16**

**Output Measure**

Bio-security training communication

*Not reporting on this Output in this Annual Report*

**Output #17**

**Output Measure**

Business plan implementation

*Not reporting on this Output in this Annual Report*

**Output #18**

**Output Measure**

Business plans completed

*Not reporting on this Output in this Annual Report*

**Output #19**

**Output Measure**

Calf and Heifer Conference

*Not reporting on this Output in this Annual Report*

**Output #20**

**Output Measure**

Classes for Master Gardener and Master Composter

*Not reporting on this Output in this Annual Report*

**Output #21**

**Output Measure**

Completed soil health database

*Not reporting on this Output in this Annual Report*

**Output #22**

**Output Measure**

Crop Insurance workshop

*Not reporting on this Output in this Annual Report*

**Output #23**

**Output Measure**

Forage and Pasture Consultations

*Not reporting on this Output in this Annual Report*

**Output #24**

**Output Measure**

Crop Insurance articles

*Not reporting on this Output in this Annual Report*

**Output #25**

**Output Measure**

Dairy Reproduction and Forage Quality on-line training

*Not reporting on this Output in this Annual Report*

**Output #26**

**Output Measure**

Dairy Stewardship Alliance article

*Not reporting on this Output in this Annual Report*

**Output #27**

**Output Measure**

Dairy Stewardship Alliance data summarization  
*Not reporting on this Output in this Annual Report*

**Output #28**

**Output Measure**

Dairy Stewardship Alliance farm visits  
*Not reporting on this Output in this Annual Report*

**Output #29**

**Output Measure**

Dairy Stewardship Assessment  
*Not reporting on this Output in this Annual Report*

**Output #30**

**Output Measure**

Dairy commodity grant articles  
*Not reporting on this Output in this Annual Report*

**Output #31**

**Output Measure**

Dairy price education articles  
*Not reporting on this Output in this Annual Report*

**Output #32**

**Output Measure**

Dairy price education newsletter  
*Not reporting on this Output in this Annual Report*

**Output #33**

**Output Measure**

Dairy/Forage Research Day  
*Not reporting on this Output in this Annual Report*

**Output #34**

**Output Measure**

Development of Farm Assessments  
*Not reporting on this Output in this Annual Report*

**Output #35**

**Output Measure**

Economic Analysis of Northern Forest Canoe Trail  
*Not reporting on this Output in this Annual Report*

**Output #36**

**Output Measure**

Edit State Support Function 11  
*Not reporting on this Output in this Annual Report*

**Output #37**

**Output Measure**

Fair & Field Day staff education  
*Not reporting on this Output in this Annual Report*

**Output #38**

**Output Measure**

Farm Management plans -APT  
*Not reporting on this Output in this Annual Report*

**Output #39**

**Output Measure**

Farm Safety Task Force  
*Not reporting on this Output in this Annual Report*

**Output #40**

**Output Measure**

Financial Security/business Farm visits

*Not reporting on this Output in this Annual Report*

**Output #41**

**Output Measure**

Farmedic class

*Not reporting on this Output in this Annual Report*

**Output #42**

**Output Measure**

Farmer consults

*Not reporting on this Output in this Annual Report*

**Output #43**

**Output Measure**

Farmer Nutrient Management Training presentation

*Not reporting on this Output in this Annual Report*

**Output #44**

**Output Measure**

Farmers Market training

*Not reporting on this Output in this Annual Report*

**Output #45**

**Output Measure**

Farming Alternatives presentations

*Not reporting on this Output in this Annual Report*

**Output #46**

**Output Measure**

Feeder sales

*Not reporting on this Output in this Annual Report*

**Output #47**

**Output Measure**

Forage and Pasture Mgt education presentation

*Not reporting on this Output in this Annual Report*

**Output #48**

**Output Measure**

Germ City at Sheep Camp

*Not reporting on this Output in this Annual Report*

**Output #49**

**Output Measure**

Germ City train the trainer

*Not reporting on this Output in this Annual Report*

**Output #50**

**Output Measure**

Grain Growing workshops

*Not reporting on this Output in this Annual Report*

**Output #51**

**Output Measure**

Grain Research project

*Not reporting on this Output in this Annual Report*

**Output #52**

**Output Measure**

Greenhouse IPM workshop

*Not reporting on this Output in this Annual Report*

**Output #53**

**Output Measure**

Greenhouse IPM handouts

*Not reporting on this Output in this Annual Report*

**Output #54**

**Output Measure**

Greenhouse IPM manual

*Not reporting on this Output in this Annual Report*

**Output #55**

**Output Measure**

Growing Places II course

*Not reporting on this Output in this Annual Report*

**Output #56**

**Output Measure**

Grow Your Business consultations

*Not reporting on this Output in this Annual Report*

**Output #57**

**Output Measure**

Growing Places course

*Not reporting on this Output in this Annual Report*

**Output #58**

**Output Measure**

Growing Places on-line class

*Not reporting on this Output in this Annual Report*

**Output #59**

**Output Measure**

Growing by Design cropping systems trial

*Not reporting on this Output in this Annual Report*

**Output #60**

**Output Measure**

Growing by Design field day

*Not reporting on this Output in this Annual Report*

**Output #61**

**Output Measure**

Incident Command System training workshop

*Not reporting on this Output in this Annual Report*

**Output #62**

**Output Measure**

IPM/PESP (for farmers and Certified Private Applicators)

*Not reporting on this Output in this Annual Report*

**Output #63**

**Output Measure**

IPM/PESP for Certified Commercial Applicators

*Not reporting on this Output in this Annual Report*

**Output #64**

**Output Measure**

Introduction to Sheep Management workshop

*Not reporting on this Output in this Annual Report*

**Output #65**

**Output Measure**

Lamb feeding trial

*Not reporting on this Output in this Annual Report*

**Output #66**

**Output Measure**

Lambing Clinic

*Not reporting on this Output in this Annual Report*

**Output #67**

**Output Measure**

Live Lamb Grading Workshop

*Not reporting on this Output in this Annual Report*

**Output #68**

**Output Measure**

Livestock discussion group

*Not reporting on this Output in this Annual Report*

**Output #69**

**Output Measure**

ME/Vermont Organic Dairy Analysis consultations

*Not reporting on this Output in this Annual Report*

**Output #70**

**Output Measure**

Medium Farm Operation Nutrient Management Assessment tool

*Not reporting on this Output in this Annual Report*

**Output #71**

**Output Measure**

Medium Farm Operation Nutrient Management Survey-BMP field site visit

*Not reporting on this Output in this Annual Report*

**Output #72**

**Output Measure**

Medium Farm Operation Nutrient Management Survey-NRCS field site visit

*Not reporting on this Output in this Annual Report*

**Output #73**

**Output Measure**

Managed Intensive Grazing Pasture workshop

*Not reporting on this Output in this Annual Report*

**Output #74**

**Output Measure**

Maine/Vt. Organic Milk Research Study Field visit

*Not reporting on this Output in this Annual Report*

**Output #75**

**Output Measure**

Maple - ATF- television

*Not reporting on this Output in this Annual Report*

**Output #76**

**Output Measure**

Maple Mainline newsletter

*Not reporting on this Output in this Annual Report*

**Output #77**

**Output Measure**

Maple research web material

*Not reporting on this Output in this Annual Report*

**Output #78**

**Output Measure**

Maple Syrup Digest article

*Not reporting on this Output in this Annual Report*

**Output #79**

**Output Measure**

Maple consultations

*Not reporting on this Output in this Annual Report*

**Output #80**

**Output Measure**

Nutrient Management Plan (NMP) training course for farmers

*Not reporting on this Output in this Annual Report*

**Output #81**

**Output Measure**

NRCS co-facilitated workshops

*Not reporting on this Output in this Annual Report*

**Output #82**

**Output Measure**

National Extension Tourism Conference

*Not reporting on this Output in this Annual Report*

**Output #83**

**Output Measure**

National Extension Tourism Conference presentation

*Not reporting on this Output in this Annual Report*

**Output #84**

**Output Measure**

National Income Tax Book

*Not reporting on this Output in this Annual Report*

**Output #85**

**Output Measure**

New England Agro-Security manual

*Not reporting on this Output in this Annual Report*

**Output #86**

**Output Measure**

NxLevel Course

*Not reporting on this Output in this Annual Report*

**Output #87**

**Output Measure**

On-farm biodiesel results publication

*Not reporting on this Output in this Annual Report*

**Output #88**

**Output Measure**

On-farm vegetable oil/biodiesel project demonstration

*Not reporting on this Output in this Annual Report*

**Output #89**

**Output Measure**

Organic apple production presentation/workshop

*Not reporting on this Output in this Annual Report*

**Output #90**

**Output Measure**

P-Reducing Slag Barrier field day

*Not reporting on this Output in this Annual Report*

**Output #91**

**Output Measure**

P-Reducing Slag Barriers research site

*Not reporting on this Output in this Annual Report*

**Output #92**

**Output Measure**

PESP - Initial Certification for Pesticide Applicators workshop

*Not reporting on this Output in this Annual Report*

**Output #93**

**Output Measure**

PESP Program School IPM Award of Achievement

*Not reporting on this Output in this Annual Report*

**Output #94**

**Output Measure**

PESP newsletter

*Not reporting on this Output in this Annual Report*

**Output #95**

**Output Measure**

PESP website

*Not reporting on this Output in this Annual Report*

**Output #96**

**Output Measure**

Parasite fields study sites

*Not reporting on this Output in this Annual Report*

**Output #97**

**Output Measure**

Parasite workshops

*Not reporting on this Output in this Annual Report*

**Output #98**

**Output Measure**

Participatory Modeling workshop

*Not reporting on this Output in this Annual Report*

**Output #99**

**Output Measure**

Pasture Walks

*Not reporting on this Output in this Annual Report*

**Output #100**

**Output Measure**

Plant Diagnostic Clinic email/phone consultations

*Not reporting on this Output in this Annual Report*

**Output #101**

**Output Measure**

Plant Diagnostic Clinic website

*Not reporting on this Output in this Annual Report*

**Output #102**

**Output Measure**

Plant Insect Pest Diagnostic inquiries email/phone

*Not reporting on this Output in this Annual Report*

**Output #103**

**Output Measure**

Plant Insect Pest Diagnostic identification and recommendations

*Not reporting on this Output in this Annual Report*

**Output #104**

**Output Measure**

Poultry biosecurity workshop

*Not reporting on this Output in this Annual Report*

**Output #105**

**Output Measure**

Poultry production conference

*Not reporting on this Output in this Annual Report*

**Output #106**

**Output Measure**

Public Access for Tourism and Recreation on Private Lands web page

*Not reporting on this Output in this Annual Report*

**Output #107**

**Output Measure**

Sheep communication inquiries (electronic; email / phone)

*Not reporting on this Output in this Annual Report*

**Output #108**

**Output Measure**

Soil Health Assessment - field site visits

*Not reporting on this Output in this Annual Report*

**Output #109**

**Output Measure**

Soil Health Assessment - orchards

*Not reporting on this Output in this Annual Report*

**Output #110**

**Output Measure**

Soil Health Field days/workshops

*Not reporting on this Output in this Annual Report*

**Output #111**

**Output Measure**

State Animal Response Team newsletter

*Not reporting on this Output in this Annual Report*

**Output #112**

**Output Measure**

Maple Survey of sap collection methods and outcome

*Not reporting on this Output in this Annual Report*

**Output #113**

**Output Measure**

Tractor safety course

*Not reporting on this Output in this Annual Report*

**Output #114**

**Output Measure**

Transferring the Farm program

*Not reporting on this Output in this Annual Report*

**Output #115**

**Output Measure**

UVM Tax Schools

*Not reporting on this Output in this Annual Report*

**Output #116**

**Output Measure**

VT Large Farm Dairy Conference

*Not reporting on this Output in this Annual Report*

**Output #117**

**Output Measure**

Veg. & Berry radio commentaries

*Not reporting on this Output in this Annual Report*

**Output #118**

**Output Measure**

Veg. & Berry magazine columns

*Not reporting on this Output in this Annual Report*

**Output #119**

**Output Measure**

Veg. & Berry technical publications

*Not reporting on this Output in this Annual Report*

**Output #120**

**Output Measure**

Veg & Berry farmer consultations

*Not reporting on this Output in this Annual Report*

**Output #121**

**Output Measure**

Vermont Grass Farmer's Association newsletter

*Not reporting on this Output in this Annual Report*

**Output #122**

**Output Measure**

Vermont Maple conferences

*Not reporting on this Output in this Annual Report*

**Output #123**

**Output Measure**

Vermont Maplerama conference

*Not reporting on this Output in this Annual Report*

**Output #124**

**Output Measure**

Vermont New Farmer Network development training

*Not reporting on this Output in this Annual Report*

**Output #125**

**Output Measure**

Vermont Tourism Data Center

*Not reporting on this Output in this Annual Report*

**Output #126**

**Output Measure**

Vermont Travel Industry Conference

*Not reporting on this Output in this Annual Report*

**Output #127**

**Output Measure**

Vermont vegetable and berry web site articles

*Not reporting on this Output in this Annual Report*

**Output #128**

**Output Measure**

Womens Ag Network (WAgN) Newsletter

*Not reporting on this Output in this Annual Report*

**Output #129**

**Output Measure**

Womens Ag Network (WAgN) website updates

*Not reporting on this Output in this Annual Report*

**Output #130**

**Output Measure**

Womens Ag Network (WAgN) workshops, learning circles, etc.

*Not reporting on this Output in this Annual Report*

**Output #131**

**Output Measure**

Winter Dairy Herd Mgmt meeting

*Not reporting on this Output in this Annual Report*

**Output #132**

**Output Measure**

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

*Not reporting on this Output in this Annual Report*

**Output #133**

**Output Measure**

Municipal level Water Quality Protection Workshops

*Not reporting on this Output in this Annual Report*

**Output #134**

**Output Measure**

"Harvest To Table" outreach education

*Not reporting on this Output in this Annual Report*

**Output #135**

**Output Measure**

Starting a Goat Dairy Workshop(s)

*Not reporting on this Output in this Annual Report*

**Output #136**

**Output Measure**

2006/2007 New England Dairy/Meat and Dairy Sheep Directory

*Not reporting on this Output in this Annual Report*

**Output #137**

**Output Measure**

AgTerror Responder Training

*Not reporting on this Output in this Annual Report*

**Output #138**

**Output Measure**

America in Bloom judging

*Not reporting on this Output in this Annual Report*

**Output #139**

**Output Measure**

An article describing research results collected from the Cover Cropping Trial

*Not reporting on this Output in this Annual Report*

**Output #140**

**Output Measure**

Apple IPM Newsletter

*Not reporting on this Output in this Annual Report*

**Output #141**

**Output Measure**

Apple IPM Presentation

*Not reporting on this Output in this Annual Report*

**Output #142**

**Output Measure**

Apple IPM Website

*Not reporting on this Output in this Annual Report*

**Output #143**

**Output Measure**

Apple IPM one-on-one Education

*Not reporting on this Output in this Annual Report*

**Output #144**

**Output Measure**

Biofuel workshops to teach farmers how to grow, process, and produce biofuel.

*Not reporting on this Output in this Annual Report*

**Output #145**

**Output Measure**

Business plan applications

*Not reporting on this Output in this Annual Report*

**Output #146**

**Output Measure**

Clean beaches Program workshops

*Not reporting on this Output in this Annual Report*

**Output #147**

**Output Measure**

Develop an Organic Dairy Website as part of the eXtension eOrganic project

*Not reporting on this Output in this Annual Report*

**Output #148**

**Output Measure**

Farm Evaluation/Technical Assistance to current and new farmers

*Not reporting on this Output in this Annual Report*

**Output #149**

**Output Measure**

Farm Transfer Workshop

*Not reporting on this Output in this Annual Report*

**Output #150**

**Output Measure**

Farm Safety educational programs

*Not reporting on this Output in this Annual Report*

**Output #151**

**Output Measure**

Farm Transfer farm visits

*Not reporting on this Output in this Annual Report*

**Output #152**

**Output Measure**

Goat Dairy Farmer Discussion Groups

*Not reporting on this Output in this Annual Report*

**Output #153**

**Output Measure**

Farmers: A New Generation

*Not reporting on this Output in this Annual Report*

**Output #154**

**Output Measure**

Flower Trials

*Not reporting on this Output in this Annual Report*

**Output #155**

**Output Measure**

Forage and Pasture Data Collection and analysis

*Not reporting on this Output in this Annual Report*

**Output #156**

**Output Measure**

GAP "From Garden to Table"

*Not reporting on this Output in this Annual Report*

**Output #157**

**Output Measure**

GIS Workshops for Municipal Officials

*Not reporting on this Output in this Annual Report*

**Output #158**

**Output Measure**

GIS curriculum for teachers and for municipal officials prepared for VCGI use

*Not reporting on this Output in this Annual Report*

**Output #159**

**Output Measure**

GIS training guidebook for teacher and municipal officials prepared for Vermont Center for Geographic information

*Not reporting on this Output in this Annual Report*

**Output #160**

**Output Measure**

Germ City Educational leadership

*Not reporting on this Output in this Annual Report*

**Output #161**

**Output Measure**

Germ City: revise evaluation

*Not reporting on this Output in this Annual Report*

**Output #162**

**Output Measure**

Grape IPM Newsletter

*Not reporting on this Output in this Annual Report*

**Output #163**

**Output Measure**

Grape IPM Presentations

*Not reporting on this Output in this Annual Report*

**Output #164**

**Output Measure**

Grape IPM website

*Not reporting on this Output in this Annual Report*

**Output #165**

**Output Measure**

Grape IPM one-on-one education

*Not reporting on this Output in this Annual Report*

**Output #166**

**Output Measure**

Healthy Farms - Healthy Agriculture video distribution

*Not reporting on this Output in this Annual Report*

**Output #167**

**Output Measure**

Horse Owner Technical Assistance

*Not reporting on this Output in this Annual Report*

**Output #168**

**Output Measure**

Household Property management workshop

*Not reporting on this Output in this Annual Report*

**Output #169**

**Output Measure**

IPM/PESP for home gardeners

*Not reporting on this Output in this Annual Report*

**Output #170**

**Output Measure**

Lake Champlain Live program: a unique science opportunity for students in grades 8-12 on UVM's Research Vessel Melosira

*Not reporting on this Output in this Annual Report*

**Output #171**

**Output Measure**

Land Link Vermont Matching Service

*Not reporting on this Output in this Annual Report*

**Output #172**

**Output Measure**

Low Impaact Development Workshop

*Not reporting on this Output in this Annual Report*

**Output #173**

**Output Measure**

Low Input Landscape management training

*Not reporting on this Output in this Annual Report*

**Output #174**

**Output Measure**

Maine/Vermont Organic Dairy Analysis

*Not reporting on this Output in this Annual Report*

**Output #175**

**Output Measure**

Maintaining and providing articles and excel template programs for The Vermont Crops and Soils Homepage

*Not reporting on this Output in this Annual Report*

**Output #176**

**Output Measure**

Maple electronic/email consultations

*Not reporting on this Output in this Annual Report*

**Output #177**

**Output Measure**

Master Composter Course

*Not reporting on this Output in this Annual Report*

**Output #178**

**Output Measure**

Master Composter Outreach

*Not reporting on this Output in this Annual Report*

**Output #179**

**Output Measure**

Master Gardener Outreach

*Not reporting on this Output in this Annual Report*

**Output #180**

**Output Measure**

Montreal Gardens Tour

*Not reporting on this Output in this Annual Report*

**Output #181**

**Output Measure**

NPS pollution prevention training

*Not reporting on this Output in this Annual Report*

**Output #182**

**Output Measure**

New England Greenhouse Conference

*Not reporting on this Output in this Annual Report*

**Output #183**

**Output Measure**

New England Grows workshop

*Not reporting on this Output in this Annual Report*

**Output #184**

**Output Measure**

Nutrient Management consultation

*Not reporting on this Output in this Annual Report*

**Output #185**

**Output Measure**

Organic Apple Website

*Not reporting on this Output in this Annual Report*

**Output #186**

**Output Measure**

Pest management presentations

*Not reporting on this Output in this Annual Report*

**Output #187**

**Output Measure**

Producer/exhibitor education fact sheet publication

*Not reporting on this Output in this Annual Report*

**Output #188**

**Output Measure**

Professional Development workshop - single session

*Not reporting on this Output in this Annual Report*

**Output #189**

**Output Measure**

Public education display/exhibit

*Not reporting on this Output in this Annual Report*

**Output #190**

**Output Measure**

Rain Garden demonstrations

*Not reporting on this Output in this Annual Report*

**Output #191**

**Output Measure**

Rain Garden installation

*Not reporting on this Output in this Annual Report*

**Output #192**

**Output Measure**

Rain Garden workshops

*Not reporting on this Output in this Annual Report*

**Output #193**

**Output Measure**

Ration balancing for goat dairies consultation

*Not reporting on this Output in this Annual Report*

**Output #194**

**Output Measure**

Reduced P on Lawns presentations

*Not reporting on this Output in this Annual Report*

**Output #195**

**Output Measure**

Scoop on Poop internal parasite workshops

*Not reporting on this Output in this Annual Report*

**Output #196**

**Output Measure**

Sheep newsletter

*Not reporting on this Output in this Annual Report*

**Output #197**

**Output Measure**

Sheep Nutrition Workshop with Sheep Ruminant Nutritionist

*Not reporting on this Output in this Annual Report*

**Output #198**

**Output Measure**

Sheep Parasite Workshops

*Not reporting on this Output in this Annual Report*

**Output #199**

**Output Measure**

Small Ruminant Dairy Newsletter and Calendar of Events

*Not reporting on this Output in this Annual Report*

**Output #200**

**Output Measure**

Pasture / grazing technical assistance consultations

*Not reporting on this Output in this Annual Report*

**Output #201**

**Output Measure**

Pasture / grazing workshop, single session on the farm

*Not reporting on this Output in this Annual Report*

**Output #202**

**Output Measure**

Town residential surveys workshop series

*Not reporting on this Output in this Annual Report*

**Output #203**

**Output Measure**

Maple Treenet: web page demonstrating sap flow physiology

*Not reporting on this Output in this Annual Report*

**Output #204**

**Output Measure**

Urban Watershed Education curricula

*Not reporting on this Output in this Annual Report*

**Output #205**

**Output Measure**

Vermont Master Gardener Basic Course

*Not reporting on this Output in this Annual Report*

**Output #206**

**Output Measure**

Vermont Master Gardener Helpline (electronic/phone)

*Not reporting on this Output in this Annual Report*

**Output #207**

**Output Measure**

Vermont Water Quality Gateway

*Not reporting on this Output in this Annual Report*

**Output #208**

**Output Measure**

Vermont Flower Show seminar

*Not reporting on this Output in this Annual Report*

**Output #209**

**Output Measure**

Watershed Alliance (WSA) Education & Monitoring Program --intern training  
*Not reporting on this Output in this Annual Report*

**Output #210**

**Output Measure**

Watershed Alliance (WSA) Education & Monitoring Program --outreach projects  
*Not reporting on this Output in this Annual Report*

**Output #211**

**Output Measure**

Watershed Alliance (WSA) Education & Monitoring Program -- workshops and activities  
*Not reporting on this Output in this Annual Report*

**Output #212**

**Output Measure**

Womens Ag Network (WAgN) Startup Manual  
*Not reporting on this Output in this Annual Report*

**Output #213**

**Output Measure**

Farm finance article/publication  
*Not reporting on this Output in this Annual Report*

**Output #214**

**Output Measure**

Bio-security Team effort coordination  
*Not reporting on this Output in this Annual Report*

**Output #215**

**Output Measure**

Lawn/garden care, low input, publication/article  
*Not reporting on this Output in this Annual Report*

**Output #216**

**Output Measure**

Urban Watershed: middle school curricula  
*Not reporting on this Output in this Annual Report*

**Output #217**

**Output Measure**

Lawn/garden supply nursery staff training  
*Not reporting on this Output in this Annual Report*

**Output #218**

**Output Measure**

Water Quality - youth team training  
*Not reporting on this Output in this Annual Report*

**Output #219**

**Output Measure**

Class/course

Year	Target	Actual
2008	{No Data Entered}	42

**Output #220**

**Output Measure**

Consultation

Year	Target	Actual
2008	{No Data Entered}	1796

**Output #221**

**Output Measure**

Conference

Agriculture and Environmental Sustainability

	<b>Year</b>	<b>Target</b>	<b>Actual</b>
<b>Output #222</b>	2008	{No Data Entered}	15
<b>Output Measure</b>			
Demonstration			
<b>Output #223</b>	2008	{No Data Entered}	29
<b>Output Measure</b>			
Discussion Group			
<b>Output #224</b>	2008	{No Data Entered}	33
<b>Output Measure</b>			
Display or exhibit			
<b>Output #225</b>	2008	{No Data Entered}	20
<b>Output Measure</b>			
Education, evaluation instrument			
<b>Output #226</b>	2008	{No Data Entered}	1
<b>Output Measure</b>			
Electronic communication/phone			
<b>Output #227</b>	2008	{No Data Entered}	5600
<b>Output Measure</b>			
Field day/fairy			
<b>Output #228</b>	2008	{No Data Entered}	19
<b>Output Measure</b>			
Field site visit			
<b>Output #229</b>	2008	{No Data Entered}	301
<b>Output Measure</b>			
Funding Request			
<b>Output #230</b>	2008	{No Data Entered}	4
<b>Output Measure</b>			
Presentation			
<b>Output #231</b>	2008	{No Data Entered}	272
<b>Output Measure</b>			
Curriculum			
<b>Output #232</b>	2008	{No Data Entered}	2
<b>Output Measure</b>			
Fact sheet			

Agriculture and Environmental Sustainability

	<b>Year</b>	<b>Target</b>	<b>Actual</b>
<b>Output #233</b>	2008	{No Data Entered}	10
<b>Output Measure</b>			
Magazine articles			
<b>Output #234</b>	2008	{No Data Entered}	32
<b>Output Measure</b>			
Manual			
<b>Output #235</b>	2008	{No Data Entered}	4
<b>Output Measure</b>			
Newsletter			
<b>Output #236</b>	2008	{No Data Entered}	91
<b>Output Measure</b>			
Newsprint article			
<b>Output #237</b>	2008	{No Data Entered}	75
<b>Output Measure</b>			
Referred journal article			
<b>Output #238</b>	2008	{No Data Entered}	2
<b>Output Measure</b>			
Research project			
<b>Output #239</b>	2008	{No Data Entered}	1
<b>Output Measure</b>			
TV segment/Across the Fence			
<b>Output #240</b>	2008	{No Data Entered}	20
<b>Output Measure</b>			
Technical Publication			
<b>Output #241</b>	2008	{No Data Entered}	33
<b>Output Measure</b>			
Tours			
<b>Output #242</b>	2008	{No Data Entered}	3
<b>Output Measure</b>			
Train the Trainer trainings			
<b>Output #243</b>	2008	{No Data Entered}	11
<b>Output Measure</b>			
Webpage/webpage updates			

*Not reporting on this Output in this Annual Report*

**Output #244**

**Output Measure**

Workshop - series

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	54

**Output #245**

**Output Measure**

Workshop single session

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	{No Data Entered}	157

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

O No.	Outcome Name
1	beef producers report information and services improved their profitability, stewardship and/or management
2	customers that receive organic grain production research data will integrate results into production systems
3	extension employees will know what is expected from them in a disaster
4	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.
5	extension and agency personnel gain new skills that can be applied in their work
6	number of businesses or organizations who report better decision making
7	number of dairy farmers who adopt a best management practice they learned from another farmer participant
8	number of dairy farmers who adopt best management practices to improve weak areas of the farming operation
9	number of dairy farmers who indicate intent to make at least 1 change
10	Increase in number of dairy farms increasing forage quality as measured by ADF, NDF, Protein, and NEL
11	Increase in number of dairy farms that increase pregnancy/fertility rates
12	number of farm families who take action on a recommendation made by an Extension team after the APT plan is developed
13	Increase in number of farmers having a greater understanding of the costs associated with organic farming
14	Increase in number of farms completing Dairy Stewardship assessment who adopt at least two sustainable practices
15	Increase in number of maple producers who adopt recommended practices that increase overall system efficiency and syrup quality
16	Increase in number of producers who have increased understanding of avian influenza risk, signs of disease, and who to contact
17	Increase in number of sheep farmers demonstrating better livestock management skills who report an increase in the number of healthy sheep
18	Increase in number of sheep producers who report a reduced parasite load in animals
19	Increase in number of sheep farms who report decreased lamb mortality
20	Increase in the number of communities that integrate the participatory modeling tool into long-term town planning
21	Increase in the number of vegetable and berry growers who implement changes in production, pest control, and/or management practice resulting in the desired outcome
22	number of growers implementing IPM practices reducing reliance on pesticides
23	Increase the number of commercial applicators implementing IPM practices
24	Increase in number of farm and forest landowners who report greater understanding of farm and/or forest transfer issues and options
25	Increase the number of farm and forest landowners who implement or change their estate plan and/or transfer plan
26	number of farmers selling directly to consumers implementing marketing, production and record keeping skills
27	Increase the number of farmers who implement at least one cropping practice to improve productivity, forage quality and profitability
28	number of farmers with business plans who use financial statements to address management problems in farm operation increasing farm profitability
29	Increase the number of maple producers adopting a recommended practice increasing their sap yields by 5%
30	Increase the number of maple producers making use of research findings to better estimate best tapping date
31	number of participants who maintain direct involvement in promoting the importance of Vermont Agriculture
32	Increase the number of participants passing the required applicators licensing test
33	Increase the number of planners reporting increased feelings of competency in understanding requirements in NMP and assisting farmers in implementation of Nutrient Management Plans
34	Increase the number of maple producers adopting most effective sap collection techniques
35	number of forest owners who plan for long term disposition of woodlands
36	participants will begin growing organic grains as a part of their farming operation
37	participants will have gained knowledge on how to grow organic grains
38	acres of forest land will be opened for tourism and recreation access
39	participants will implement information learned from Grain Growing workshops
40	equine facilities incorporate biosecurity, safety and preventative measures
41	increase in collaboration with agency and industry personnel to address farm safety
42	Increase in number of Growing Places graduates who make an intentional, informed decision not to start a business after completing the course
43	Increase in number of Growing Places graduates who go on to start a business within 18 months of course completion

## Agriculture and Environmental Sustainability

44	number of fair and field days, and similar events that incorporate assessment and implementation of practical safeguards
45	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)
46	Increase in number of farmers who develop water quality protection plans
47	Increase in number of farmers who indicate increased knowledge about forage and grazing practices
48	Increase in number of farmers who create and implement business plans
49	Increase in number of farmers who use financial statements to identify farm management problems
50	number of farms that have current plans for use by emergency first responders
51	Increase in number of farms that incorporate biosecurity, safety and preventative measures
52	Increase in number of new/aspiring farmers who have a completed goal statement and an action plan for a new agricultural business
53	number of new/aspiring farmers who have a completed goal statement and an action plan for a new agricultural business
54	Increase in number of participants who have a greater understanding of their expenses and profit centers
55	Increase in number of participants who show a 5% or more increase in farm profitability after implementing recommended management changes
56	Increase in number of participants who will understand what pieces are in a plan, and will have a better focus for their farm business
57	Increase in number of participating service providers report increased understanding of services provided by other agencies and organizations
58	Increase in number of program participants who make informed decisions about crop insurance
59	Increase in number of service providers who use the legal guide as a reference
60	Increase in number of tax school participants stating improved accuracy of tax reporting for their clients
61	Increase in number of farmers who identify and use a tool (such as Quicken) for farm financial records
62	Increase in number of tax schools participants understanding federal and state tax laws and requirements
63	Increase in number of farmers who use financial reports with another person for business purposes
64	Increase in number of farmers who implement a practice that improves soil quality resulting in improved crop yield and quality
65	Increase in number of farmers who implement at least one change as outlined in the water quality protection plan
66	Increase the number of businesses who expand as a result of canoe trail recreation
67	number of beef farmers participating in consignment sales and value added beef markets who report an increased net profit
68	number of businesses who report expected increases in profitability directly related to tourism
69	Increase in number of farmers that develop a nutrient management plan for their farm
70	Increase the number of farmers who implement at least one change in nutrient management plan practices
71	Increase the number of farmers who implement grazing plans
72	Increase the number of farmers who increase their knowledge of slag barrier technology
73	Increase the 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
74	Increase the number of legislators and key decision makers who increase understanding of current local agricultural issues
75	Increase the number of school facilities that implement IPM strategies
76	Increase the number of sheep producers who supply lamb to Vermont Quality Meats
77	Decrease in number of days of beach closures in pilot areas.
78	Farmers will make a change by learning how to: grow oil seed crops, harvest oil seed crops, process oil seed crops into oil, produce biofuel, and plan a cooperative on-farm biofuel facility
79	Increase growers who will save time (therefore money from labor savings) as a result of learning how to access information they need more readily, and from new knowledge of pest-control sites, be able to provide better, more cost effective, and least toxic controls.
80	Increase in number of dairy/diverse livestock farmers who indicate intent to make at least 1 change
81	Increase in number of tour leaders and organizers that enforce biosecurity measures when visiting farms
82	Increase in small ruminant dairy farmers who will use information to make decisions, change management or purchases to improve animal health/production and farm profitability.
83	Increase in small ruminant farmers who intend to use information to make decisions, change management or purchases to improve animal health/production and farm profitability.
84	Increase in the number of Extension Nonprofit organizations who express an interest in the manual implement programming for women farmers.
85	Increase in the number of Watershed Alliance (WSA) interns who report increased knowledge and skills related to environmental education and watersheds.

## Agriculture and Environmental Sustainability

86	Increase the number of Vermont Maple Producers who have improved knowledge about how to meet Vermont Maple Quality Standards.
87	Increase in number of farms that implement business plans resulting in increased profitability.
88	Increase number of gardeners and growers provided results will change knowledge, grow new crops.
89	Increase number of towns using stormwater management and non-point source pollution prevention/ best management practices.
90	Increase the knowledge and skills of youth to raise healthy animals. (Action)
91	Increase the number of growers implementing Integrated Pest Management (IPM) practices reducing reliance on pesticides.
92	Increase the number of participants who understand current local agricultural issues related to dairy farming and environmental protection.
93	Increase the number of participants who average 8 hours each in seminars who will change business practices
94	Increase the number of participants who maintain direct involvement in promoting the importance of Vermont agriculture
95	Increase the number of private landowners who will change their gardening practices to save money, be more environmentally sustainable as a result of education provided.
96	Increase the number of private landowners who will change garden practices
97	Increase the public's awareness of the threat of ALB
98	Increased towns use of geospatial data relating to water resource protection
99	Increase/maintain the USDA NRCS support for Sustainable Ag practices
100	Increased delivery of organic dairy information to dairy farmers across the nation that is accessible, reliable, credible and up-to-date.
101	Local retail lawn and garden centers are sources of information about low input lawn care options
102	Growers increase knowledge of IPM strategies and techniques and how to prevent pest management problems.
103	Increase in number of Master Gardener participants earning certification
104	Increase in number of community watershed organizations developing pollution prevention outreach effort
105	Increase in number of educators in Watershed Alliance Program increasing knowledge and use of new teaching tools and techniques
106	Increase in number of growers intending to use biorational pesticides
107	Increase in number of households adopting low input lawn/garden care practices
108	Increase in number of lakeshore households aware of link between residential practices and coastal water quality
109	Increase in number of middle school students demonstrating increased awareness of the importance of urban watersheds
110	Increase in number of participants who report making a change in on-farm production, marketing, financial management, legal or human resource aspects of their business
111	Increase in number of schools that continue to participate in Watershed Alliance (WSA) Program in subsequent years
112	Increase in number of sheep farmers who increase knowledge about grazing practices
113	Increase in number of students demonstrating increased knowledge of watersheds
114	Increase in number of towns adopting residential domestic NPS surveys to develop pollution prevention education
115	Increase in the number of horse owners who improve pasture management practices
116	Increase in the number of horse owners with increased knowledge of pasture management as it relates to surface water runoff
117	Increase in the number of student led community service watershed/water quality outreach projects
118	Increase knowledge of organic apple production techniques
119	Increase or maintain the number of growers who will make informed decisions regarding best integrated pest management (IPM) options to reduce economic, health and/or environmental risks
120	Increase the number of commercial properties reducing landscape inputs
121	Increase the number of home gardeners who implement Integrated Pest Management (IPM) practices
122	Increase the number of home gardeners who increase their knowledge of Integrated Pest Management (IPM) practices
123	Increase the number of people who show improvement in food safety and preservation practices
124	Increase the number of sheep farmers who implement grazing plans
125	Increase the number of sheep producers who increase knowledge and skills in Managed Intensive Grazing
126	Increase the number of student interns teaching backyard composting
127	number of beach pilot areas who reduce the number of days of beach closures
128	farms plan for and incorporate biosecurity, safety and preventative measures
129	producers make a facility change to improve either herd health, herd productivity, the environment, community relations, labor, efficiency, and/or crop quality/quantity
130	farmers implement cover cropping on their farm

## Agriculture and Environmental Sustainability

131	growers report cost savings from more cost effective and less toxic pest control due to easy access to pest control information sites
132	Number of equine experts actively contributing to eXtension CoP- HorseQuest
133	Increase mastitis treatment options for dairy farmers
134	Increase the publics awareness of the threat of invasive threats (i.e. Asian Longhorn Beetle)
135	Increase the number of available nutrient management system options available to dairy farmers
136	Increase adoption of integrated pest management for thrips in greenhouse ornamentals
137	Increase number of cost effective pest control options available to farmers

**Outcome #1**

**1. Outcome Measures**

*Not reporting on this Outcome for this Annual Report*

**2. Associated Institution Types**

**3a. Outcome Type:**

**3b. Quantitative Outcome**

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

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

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

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

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

**External factors which affected outcomes**

Natural Disasters (drought, weather extremes, etc.)

Economy

Appropriations changes

Public Policy changes

Government Regulations

Competing Public priorities

**Brief Explanation**

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

**1. Evaluation Studies Planned**

After Only (post program)

Retrospective (post program)

Before-After (before and after program)

Case Study

Other (other data sources)

**Evaluation Results**

### **Key Items of Evaluation**

A survey was conducted among customers at greenhouses, garden centers and nurseries in Maine, New Hampshire and Vermont to determine what proportion of the general public knew about IPM. This survey served two purposes, 1. to gain insight into the knowledge level of the public about IPM and 2. to spread the word about IPM on an individual basis.

Among the 260 people interviewed, we found that only 20% of had heard the term. Of those who thought they had heard of IPM, only 5% gave an accurate general definition. Over 68% of those questioned said they would be willing to pay more for plants grown according to IPM practices, now that they knew its value to the environment and human health. This indicated that significant public education about IPM is needed and that IPM grown products could generate added revenue for growers. We handed out IPM brochures to all those who took part in the survey and encouraged growers to continue to promote the concept through posters and distribution of educational materials.