

United States Department of Agriculture
Progress Report

Funding Source		
Accession No.	F€FHÌ€G	Grants.gov No.
Project No.	XVÐHGGÌÏ	

United States Department of Agriculture
Progress Report

Accession No. 1013802

Project No. VTN32287

Continuation of ongoing objectives:

- Agromony Field Days and Winter Conferences:** *Ü^ ^æçæcc^} ä^•Ä, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Ä []c^äÄ•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Dry Bean Disease Survey:** *& [{]|^c^ä*
- Seed Quality Testing:** *Y ä||Äç!æ&\Ä} ~ { ä^!Ä [-Ä-æ! { ^!Äc^•cä } *Äc@^ä!Ä•^^äD [, Ä { æ } ^Ä&@ [•Äç [Ä] ~!&@æ•^Ä&^!cä-ä^äÄ•^^äÄæ } äD [! &|^æ } Äc@^ä!Ä•^^äÉ*
- Agromony Extension Outreach Education:** *WX T Ä B [!c@ , ^•cÄÖ! []•Ä, ^ä•äc^ÉÄP [] ÄÓ [*ÄÜ [•c•LÄP [] ÄÜ [, ^!ÄP [~! , ^ä]æ!•LÄÜ!^•^ } cæcä [] •ÄæçÄ [&æ|Äæ } äÄ!^*ä [] æ|Ä& [] ^!^ } &^•LÄÜ^] ^æçæcc^} ä^•Ä, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Ä []c^äÄ•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Orchard/Vineyard Scouting Network:** *-ä}æ|Ä!^] [!cÄ, ä||Ä^Ä~!ä|ä•@^äLÄB ~ { ä^!Ä [-Ä*! [, ^!Ä•& [~cä } *Ä, ä||Ä^Ä& [||^c^äÉ*
- Apple/Grape IPM Guideline Assessment:** *Ö@æ } *Ä, ^äÄ]|æc- [! { LÄÖ! [, ^!Äc!æD^çæ] ~æcä [}*
- Apple/Grape Extension Outreach Education:** *WX T Ä B [!c@ , ^ä•äc^ÉÄ|ä•c^!ç•ÉÄ! [*Ä] [•c•LÄ*! [, ^!Ä& [] •|cæcä [] •LÄÜ } É-æ! { , [!\•@ [] LÄ] !^•^ } cæcä [] •ÄæçÄ [&æ|Äæ } äÄ } æcä [] æ|Ä& [] ^!^ } &^•LÄÜ^] ^æçæcc^} ä^•Ä, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Äæä [] cä [] Ä [-Ä•] ^ä-ä&ÄQU T Äcæ&çä&•LÄ } ~ { ä^!Ä [-Ä*! [, ^!Ä•& [~cä } *Ä, ä||Ä^Ä& [||^c^äÉ*
- Greenhouse/High Tunnel/Nursery Tri-State IPM:** *Ü~!ç^ ^Ä [-Ä!^] ^æçæcc^} ä^•Äc [Äæ••••Äæä [] cä [] Ä [-Ä•] ^ä-ä&ÄQU T cæ&çä&•É*
- Greenhouse/High Tunnel/Nursery IPM First:** *Ü~!ç^ ^Ä [-ÄQU T ÄB!•cÄ } æ!cä&ä } æ } cÄc [Äæ••••Äæä [] cä [] Ä [-Ä•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Greenhouse/High Tunnel/Nursery Extension Outreach Education:** *WX T Ä *!^] @ [~•^D@ä* @Äc ~ } ^|D|æ } ä•&æ] ^ÄQU T , ^ä]æ*^•LÄWX T ÄÖ } c [[! [*^ÄBÄÜæ~! [] ÄDæ&ä [\Ä] æ*^LÄÖ!^] Ö! [, ^!Ä|ä•c^!çLÄ-æ&c•@^c•LÄæ!cä&|^•ÉÄ, ^ä]æ!•ÉÄ, ^ä]æ!^c•L] !^•^ } cæcä [] •ÄæçÄ [&æ|D } æcä [] æ|Ä& [] ^!^ } &^•LÄÜ~!ç^ ^Ä [-Ä!^] ^æçæcc^} ä^•Äc [Äæ••••Äæä [] cä [] Ä [-Ä•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Master Gardener Course:** *Üc~ä^ } cÄ [-ÄGEGFÄ& [~!••Ä, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Äæä []c^äÄ•] ^ä-ä&ÄQU T cæ&çä&•É*
- Master Gardener Helpline:** *P^!]|ä } ^Ä&|ä^ } cÄ, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Äæä []c^äÄ•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Master Gardener Advanced Training:** *R^! ^æçæcc^} ä^•Ä, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Äæä []c^äÄ•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Orchard Pollinator Survey:** *Ö! [, ^!Ä, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Äæä []c^äÄ•] ^ä-ä&ÄQU T cæ&çä&•É*
- Greenhouse/High Tunnel/Nursery Pollinator Habitat Program in greenhouses/high tunnels and nursery:** *Ü! [*!æ {]æ!cä&ä } æ } cÄ, ä||Ä^Ä~!ç^ ^äÄç [Äæ••••Ä, @^c@^!Äc@^ ^Ä@æç^ Äæä []c^äÄ•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Master Gardener Pollinator Short Course:** *Ü!^D [•cÄ~!ç^ ^Ä [-Äc~ä^ } cÄc [Äæ••••Ä\ [, |Ä^*^Ä*æä } Ä [] Ä] ||ä } æ [!ÄQU T •c!æc^*ä^•É*
- Plant Diagnostic Clinic Disease/Insect/Weed Diagnostics:** *ÜÖÖÄ&|ä^ } cÄ•~!ç^ ^äÄ- [!Äæä [] cä [] Ä [-Ä•] ^ä-ä&ÄQU T Äcæ&çä&•É*
- Plant Diagnostic Clinic Extension Outreach Education:** *Ü~!ç^ ^Ä [-Ä!^] ^æçæcc^} ä^•Äc [Äæ••••Äæä [] cä [] Ä [-Ä•] ^ä-ä&ÄQU T cæ&çä&•É*
- Pesticide Applicator Online Education:** *KÄÜ!^D [•cÄ~!ç^ ^Ä [-Äc~ä^ } cÄc [Äæ••••Ä\ [, |Ä^*^Ä*æä } Ä [] Ä] ||ä } æ [!ÄQU T •c!æc^*ä^•É*

Participants

Actual FTE's for this Reporting Period

Role	Non-Students or faculty	Students with Staffing Roles			Computed Total by Role
		Undergraduate	Graduate	Post-Doctorate	
Scientist	0.4	0	0	0	0.4
Professional	0.9	0	0	0	0.9
Technical	0.7	0	0	0	0.7

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Actual FTE's for this Reporting Period

Role	Non-Students or faculty	Students with Staffing Roles			Computed Total by Role
		Undergraduate	Graduate	Post-Doctorate	
Administrative	1.5	0	0	0	1.5
Other	0	0	0	0	0
Ô [{] ~ c^âÁV [cæ]	3.5	0	0	0	3.5

Student Count by Classification of Instructional Programs (CIP) Code

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Target Audience

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Products

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2021	NO

Citation

Bradshaw, T. & S. Kingsley-Richards. 2021. Commercial Horticulture. <https://www.uvm.edu/extension/horticulture/commercial>

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2021	NO

Citation

Darby, H. 2021. Northwest Crops and Soils Program. <https://www.uvm.edu/extension/nwcrops>

Type	Status	Year Published
Other	Published	0 rg (2021)Tj 0 g ET 1 0 0 1 0 0 cm [] 0 d 2 J 1 0 0 1 0 0 cm BT 1 0 0 1 21 2

Citation

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Project No. VTN32287

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	NO

Citation

Hazelrigg, A. 2021. Observations from the UVM Diagnostic Lab. The Dirt, Spring. Vol. 47(1). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	NO

Citation

Hazelrigg, A. 2021. Observations from the UVM Diagnostic Lab. The Dirt, Winter/Spring. Vol. 46(4). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2021	YES

Citation

Hazelrigg, A. 2021. Plant Diagnostic Clinic. <https://www.uvm.edu/extension/pdc>

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2021	YES

Citation

Hazelrigg, A. 2021. UVM Extension Master Gardener. <https://www.uvm.edu/extension/mastergardener>

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2021	YES

Citation

Hazelrigg, A. & S. Kingsley-Richards. 2021. Pesticide Safety Education Program. <https://www.uvm.edu/extension/psep>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	NO

Citation

Hazelrigg, A. 2020. Observations from the UVM Diagnostic Lab. The Dirt, Fall. Vol. 46(3). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	NO

Citation

Hazelrigg, A. 2020. Observations from the UVM Diagnostic Lab. The Dirt, Summer. Vol. 46(2). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	NO

Citation

Hazelrigg, A. 2020. Observations from the UVM Diagnostic Lab. The Dirt, Spring. Vol. 46(1). VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

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Type	Status	Year Published	NIFA Support Acknowledged
Other	Accepted	2020	NO

Citation

Parker, B.L., A. Davari & M. Skinner. 2020. Can Western Flower Thrips be managed without insecticides? American Floral Endowment Thrips & Botrytis Newsletter, Fall 2020, Issue 3.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	NO

Citation

Skinner, M., C.F. Sullivan & B.L. Parker. 2021. Want to save money on pesticides? Scout for Thrips! American Floral Endowment, Thrips & Botrytis Newsletter, Feb 2021, Issue 1.

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	YES

Citation

Skinner, M. & C.F. Sullivan. 2021. Wait a Minute! The Dirt, Summer. Vol. 47(2) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Websites	Published	2021	NO

Citation

Sullivan, C.E.F. and Skinner, M. 2021. Greenhouse Integrated Pest Management Website: <http://www.uvm.edu/~entlab/Greenhouse%20IPM/UVMGreenhouseIPM.html>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2021	YES

Citation

Sullivan, C.F. & M. Skinner. 2021. Lively Lady Beetles, Our Un-Bee-lievable Beneficials (Part 4). The Dirt, Winter. Vol. 46(4) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	YES

Citation

Sullivan, C.F. & M. Skinner. 2020. The Insidious Flower Bug, Our Un-Bee-lievable Beneficials (Part 3). The Dirt, Fall. Vol. 46(3) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

Type	Status	Year Published	NIFA Support Acknowledged
Other	Published	2020	YES

Citation

Sullivan, C.F. & M. Skinner. 2020. Persistent Pest Parasites, Our Un-Bee-lievable Beneficials (Part 2). The Dirt, Summer. Vol. 46(2) VT Assoc. of Professional Horticulturists. Ferrisburgh, VT. <https://vnlavt.org/news-events/the-dirt/>

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decision-making.

Product Type

Other

Description

Apple/Grape Extension Outreach Education: newsletters, blog posts, and/or factsheets containing time- and crop-sensitive IPM information integrating weather and pest models, on-farm workshop to demonstrate IPM practices, one-on-one consultations, revisions of the New England Tree Fruit Management Guide, planning and presentations at regional grower meetings.

Product Type

Other

Description

Greenhouse/High Tunnel/Nursery Tri-State IPM: presentations on insect and disease-related IPM topics. Attendees take part in hands-on demonstrations and receive information packets on current IPM topics.

Product Type

Educational Aids or Curricula

Description

Greenhouse/High Tunnel/Nursery IPM First: five specialty crop operations enrolled annually, receiving on-site visits by specialists over the growing season to improve IPM skills.

Product Type

Other

Description

Greenhouse/High Tunnel/Nursery Extension Outreach Education: webinets (10-minute narrated, web-based presentations), IPM factsheets for workshops, advanced IPM topics, case studies on IPM adoption based on grower experiences, IPM Facebook posts, and northeast region Greengrower listserve.

Product Type

Other

Description

Master Gardener Course: a 13 week course with 120 students offered through a web-based platform; including three lectures on IPM topics.

Product Type

Other

Description

Master Gardener Helpline: popular statewide toll-free service staffed with trained volunteers to answer questions on insect, weed and disease problems and their management.

Product Type

Other

Description

Master Gardener Advanced Training: for Master Gardener volunteers addressing recent inquiries from the public. Factsheets developed on these topics posted on the website.

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Product Type

Data and Research Material

Description

Orchard Pollinator Survey: orchard pollinator community composition assessed in two orchards using pan traps to collect pollinators weekly throughout the growing season. Collected insects identified to develop baseline data for use in developing or assessing IPM programs protective of pollinators in orchard systems.

Product Type

Educational Aids or Curricula

Description

Pollinator Habitat Program for ornamentals/vegetables in greenhouses/high tunnels and nursery settings: operations enrolled to encourage conservation of pollinators. Habitat plantings at each site established with annual and native perennial plant varieties useable for sale as cut flowers, providing continual floral resources to attract the pollinators and

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