

- Vineyard disease management that works. 2022 New England Vegetable and Fruit Conference. Manchester NH. 12/15/22 (45)
- Question those assumptions: Success with modern orchard systems demands attention to the details. 2022 New England Vegetable and Fruit Conference. Manchester NH. 12/14/22 (85)
- Apple Insect Management in Cider Apple Production Systems. West Virginia University Cider School. Online 6/8/22 (35)
- Northeast Cider Apple Project. New England Extension Fruit Consortium Winter Webinar Series 3/22/22 (100)
- Journal Articles
 - Bradshaw T., Autio, W. Blatt, S. Clements, J. Einhorn, T. Elkins, R. Fallahi, E., Francescato, P., Lordan, J., Minas, I., Peck, G., Robinson, T., and Yao, S. 2023. Performance of 'Modi' apple trees after 5 years under Organic management as affected by several dwarf rootstocks in the 2015 NC-140 Apple Rootstock Trial. J Am Pom Soc. (APS) 77:14-27 http://www.pubhort.org/aps/77/v77_n1_a2.htm
 - Foster, J., Kingsley-Richards, S.L. and Bradshaw, T.L. 2022. Summer applications of NAA and ethephon show little effect on return bloom, yield, tree growth, and juice quality of cider apple cultivars. Acta Hort. 1346, 511-518 DOI: 10.17660/ActaHortic.2022.1346.65.

- \$124 average individual saving in pesticide costs

Advanced Training Webinars

- Soil Health Webinar: Nutrient Management Planning for Lawn & Garden. UVM Master Gardener Helpline Annual Spring Training 3/9/22 (19 attendees and 8 recording views)
- Garden Pests for 2022 Webinar 4/21/22 (27 attendees and 11 recording views)
- Mindful Pest Management Webinar 6/29/22 (20 attendees and 32 recording views)
- "Bringing Nature Home to Vermont" and "IPM Update: Looking Back & Looking Forward" keynote presentations annual UVM Extension Master Gardener Conference 12/3/22 (120 attendees)

IPM for Pollinator Health

Tree Fruit Pollinator Community Assessment

- Bee boxes installed for 2022 season

Greenhouse/High Tunnel/Nursery Pollinator Plantings

- Habitat plantings, educational signs and brochure holders established at 6 sites
- 900 beneficial habitat plantings brochures distributed
- 1 factsheet
- 5 presentations (~150 attendees)

Master Gardener Pollinator Education

- Un-Bee-lievable Beneficials 101 5/25/22 (13 attendees and 45 recording views)
- Benefits for Beneficials: Habitat Hedges 8/17/22 (9 attendees and 107 recording views)

Pesticide Education Pollinator IPM Training

- Reducing Pesticide Risk to Pollinators in Pest Management (Laura Johnson).

- "The information I received meant I was able to give recommendations to commercial growers that provided alternatives to pesticide use"
- "I plan to make more use of this service in the future as I continue to understand how beneficial it can be"

Extension Outreach Education

- Presentations (attendees)
 - Tree Diseases. UNH Pesticide Supervisory workshop. Online 1/12/22 (30)
 - Climate Change Panel VT Garden Network panelist. Online 1/12/22 (30)
 - Planning committee and Root disease recap. Tristate IPM Conference. Online 1/20/22 and 1/27/22 (63)
 - UVM Plant Diagnostic Clinic updates. Northeast Plant Diagnostic Network 1/31/22 (20)
 - Pests and Diseases of Past and Future. Hanover Garden Club. Online 2/1/22 (35)
 - Vermont Hemp research projects. Fourth Annual NE Hemp Conference. Online 3/16/22 (107) eval. <https://na.eventscloud.com/website/35699/>
 - PSS 124 Agroecology Class 3/

- 98% moderate/considerable (31% increase) general knowledge about Ag Container Recycling
- 98% moderate/considerable (14% increase) general knowledge about Pesticide Risk to Pollinators
- 94% moderately/very likely to apply and use pesticides more safely
- 92% moderately/very likely to adopt at least one new IPM practice
- 88% moderately/very likely to adopt at least one new IPM practice to protect pollinators
- Initial Pesticide Certification Meetings: White River Junction 4/19/22 (27 attendees), Burlington 4/21/22 (33 attendees)
 - IMPACTS:
 - 91% pass rate
 - 87% moderately/well prepared (104% increase) to take the exam following the review session
 - 51% moderately/very likely to apply and use pesticides more safely
 - 81% moderately/very likely to adopt at least one new IPM practice
 - 89% moderately/very likely to adopt at least one new IPM practice to protect pollinators
 - "This was a very helpful review course to prepare for the exam."

