

Final Report-Apple/Grape Commodity Survey for VT Agency of Ag, Food and Markets
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Grape Commodity Survey

- Traps were placed at 8 sites in 5 counties for the following arthropod pests:
 - Summer Fruit Tortrix Moth (*Adoxophyes orana*)
 - Light Brown Apple Moth (*Epiphyas postvittana*)
 - European grape vine moth (*Lobesia botrana*)
 - False codling moth (*Thaumatotibia leucotreta*)
 - Honeydew moth (*Cryptoblabes gnidiella*)

- Counties included Chittenden (UVM Horticultural Research Center and 2 sites at Shelburne Vineyards), Addison (Lincoln Peak Winery), Grand Isle (East Shore Vineyard), Washington (Fresh Tracks Farm) and Lamoille (Boyden Valley Winery)
- Appropriate traps for each pest were set out and brought back to the UVM Plant Diagnostic Clinic to be examined on a 14 day schedule from June through September, 2016. Lures were changed at appropriate times as dictated by pest and trap.
- All survey activity followed the approved methods and survey guidelines presented in the CAPS-approved methods for survey and identification/diagnostics of 2016 CAPS target pests from the Priority Pest List if available.

RESULTS: None of the pests listed were found at any of the 8 sites in 5 counties on any date.

Apple Commodity Survey

- Traps were placed at 10 sites in 5 counties for the following arthropod pests:
 - Variegated Golden Tortrix Moth (*Archips xylosteanus*)
 - Cherry Bark Tortrix (*Enarmonia formosana*)
 - Light Brown Apple Moth (*Epiphyas postvittana*)
 - Summer Fruit Tortrix Moth (*Adoxophyes orana*)
 - Plum Fruit Moth (*Grapholita funebrana*)

- Counties included Chittenden (Adams Apple Orchard, Hazelrigg Orchard, Hayden Orchard, Shelburne Orchards), Addison (Sunrise Orchard), Grand Isle (Allenholm Orchard, Hackett's Orchard), Washington (Bradshaw Orchard) and Orange (VT Technical College Orchard)
- Appropriate traps for each pest were set out and brought back to the UVM Plant Diagnostic Clinic to be examined on a 14 day schedule from June through September, 2016. Lures were changed at appropriate times as dictated by pest and trap.
- All survey activity followed the approved methods and survey guidelines presented in the CAPS-approved methods for survey and identification/diagnostics of 2016 CAPS target pests from the Priority Pest List if available.

RESULTS: None of the pests listed were found at any of the 10 sites in 5 counties on any date.

Orchards and vineyards surveyed, Summer 2016.

Apple Orchards		Grape Vineyards	
Orchard Name	VT County	Vineyard Name	VT County
Adams Apple Orchard	Chittenden	Boyden Valley Winery	Lamoille
Allenholm Orchard	Grand Isle	East Shore Vineyard	Grand Isle
Hazelrigg Orchard	Chittenden	Fresh Tracks Farms	Washington
Hayden Orchard	Chittenden	Lincoln Peak Winery	Addison
Hackett's Orchard	Grand Isle	Shelburne Vineyard-#1	Chittenden
Shelburne Orchards	Chittenden	Shelburne Vineyard-#2	Chittenden
Sunrise Orchard	Addison	UVM HREC	Chittenden
Bradshaw Orchard	Washington		
UVM HREC	Chittenden		
VTC - Randolph	Orange		

Sites (coordinates and address)

1. Adams Family Orchard (44.4538, -73.0725) 986 Old Stage Rd, Williston, VT 05495
2. Allenholm Orchard (44.644245, -73.302394) 11 South St, South Hero, VT 05486
3. Boyden Valley Winery (44.6474, -72.8892) 64 VT-104, Cambridge, VT 05444
4. Bradshaw Orchard (44.339578, -72.529404) 1189 Wheeler Road, Calais, VT 05648
5. Hayden Orchard (44.427025, -73.155122) 3054 Hinesburg Road, South Burlington, Vermont, 05403
6. Hazelrigg Orchard (44.432057, -73.123497) 206 Walker Hill Road, Williston, VT 05495
7. East Shore Vineyard (44.6280, -73.2849) 20 E Shore Rd, South Hero Vermont, VT 05486
8. Fresh Tracks Farm Vineyard & Winery (44.2282, -72.6180) 4373 VT-12, Montpelier, VT 05602
9. Hackett's Orchard (44.6344, -73.3029) 86 South St, South Hero, VT 05486
10. Lincoln Peak Winery (44.0557, -73.1646) 142 River Road, New Haven, VT 05472
11. Shelburne Orchards (44.3519, -73.2660) 216 Orchard Road Shelburne, VT 05482
12. Shelburne Vineyard (44.3664, -73.2339) 6308 Shelburne Rd, Shelburne, VT 05482 (2 sites)
13. Sunrise Orchard (43.3180, -90.8311) about 1287 N Bingham St, Cornwall, VT 05753
14. UVM HREC (44.4307, -73.2043) 65 Green Mountain Drive, South Burlington, VT 05403
15. Vermont Technical College Orchard (43.9339, -72.6004) 124 Admin Drive, Randolph Center, VT 05061

Survey dates (traps set and/or collected)

Traps replaced every two weeks at each site (orchard or vineyard) from June to September, 2016. All traps were set out the first week of June and changed every 14 days; 6/15, 6/30, 7/15, 7/29, 8/15, 8/30, 9/15 and 9/30.

Lures were replaced according to protocol for efficacy period (see table below).

2016 Apple Commodity Survey

Survey	Scientific Name	Common Name	Trap Type	IPHIS Product ID	# of Traps	Lure Type	Lure Efficacy Period	Lure #
Apple Commodity Survey	<i>Archips xylosteanus</i>	Variegated Golden Tortrix Moth	Plastic/paper Wing	27	70	<i>A. xylosteanus</i> rubber septum	28	40
Apple Commodity Survey	<i>Enarmonia formosana</i>	Cherry Bark Tortrix	Paper delta (green/brown/orange 2 sticky sides)	109	70	<i>E. formosana</i> rubber septum	28	40
Apple Commodity Survey	<i>Epiphyas postvittana</i>	Light Brown Apple Moth	Jackson	5	70	<i>E. postvittana</i> rubber septum	42	30
Apple Commodity Survey	<i>Adoxophyes orana</i>	Summer Fruit Tortrix Moth	Paper delta (green/brown/orange 2 sticky sides)	110	70	<i>A. orana</i> rubber septum	84	20
Apple Commodity Survey	<i>Grapholita funebrana</i>	Plum Fruit Moth	Plastic wing	27	70	<i>G. funebrana</i>	28	40

10 sites, @ least 5 counties 5 traps for 5 pests per site 50 traps per cycle

2016 Grape Commodity Survey

Survey	Scientific Name	Common Name	Trap Type	IPHIS Product ID	# of Traps	Lure Type	Lure Efficacy Period	Lure #
Grape Commodity Survey	<i>Adoxophyes orana</i>	Summer Fruit Tortrix Moth	Paper delta (green/brown/orange 2 sticky sides)	110	56	<i>A. orana</i> rubber septum	84	16
Grape Commodity Survey	<i>Epiphyas postvittana</i>	Light Brown Apple Moth	Jackson	5	56	<i>E. postvittana</i> rubber septum	42	24
Grape Commodity Survey	<i>Lobesia botrana</i>	European grape vine moth	Paper delta (green/brown/orange 2 sticky sides)	108	56	<i>L. botrana</i> rubber septum	28	32
Grape Commodity Survey	<i>Thaumatotibia leucotreta</i>	False codling moth	wing trap (plastic/paper)	103	56	<i>T. leucotreta</i> rubber septum	56	24
Grape Commodity Survey	<i>Cryptoblabes gnidiella</i>	Honeydew moth	wing trap (plastic/paper)	27	56	<i>C. gnidiella</i> rubber septum	2	32

8 sites, @ least 4 counties 5 traps for 5 pests per site 40 traps per cycle

