

**2019 Final Report - Corn Commodity Survey for VT Agency of Ag, Food and Markets  
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**CORN COMMODITY SURVEY**

Conduct moth trapping surveys at 7 sites in 5 counties. With the exception of the UVM HREC (two separate corn fields), one trap per site for each of the five arthropod pest species listed below.

- Silver Y Moth (*Autographa gamma*)
- Cotton cutworm (*Spodoptera litura*)
- Old World Bollworm (*Helicoverpa armigera*)
- Small brown plant hopper (*Laodelphax striatellus*)
- Spotted stemborer (*Chilo partellus*)

Counties included: Addison, Chittenden, Grand Isle, Franklin and Washington

Specific traps for each pest were set out and brought back to the UVM Plant Diagnostic Clinic to be examined on an approximate 14 day schedule from June through September, 2019. Lures were changed at appropriate times as dictated by pest and trap.

All survey activity followed the approved methods and survey guidelines for pest surveillance in the CAPS Pest Datasheet (<https://pest.ceris.purdue.edu/>).

**Results:** None of the pests listed were found at any of the 7 sites in 5 counties on any date.

### **Farms (corn) surveyed, summer 2019**

<b>Corn</b>	
<b>Farm Name</b>	<b>VT County</b>
Halverson Farm	Washington
Hazelrigg Orchard/Farm	Chittenden
Hudak Farm	Franklin
Pete's Greens	Orleans
Pomykala Farm	Grand Isle
UVM HREC (2 fields)	Chittenden

### **Sites (coordinates and address)**

1. Halverson Farm (44.2282, -72.6180) 138 White Rock Drive, Montpelier, VT 05602
2. Hazelrigg Orchard/Farm (44.432057, -73.123497) 206 Walker Hill Road, Williston, VT 05495
3. Hudak Farm (44.8491, - 73.0884) 599 St Albans Road, Swanton, VT 05488
4. Pete's Greens (44.6329, -72.3698) 266 S Craftsbury Road, Craftsbury, VT 05826
5. Pomykala Farm (44.7474, -73.2710) 197 E Shore North, Grand Isle, VT 05458
6. UVM HREC (44.4307, -73.2043) 65 Green Mountain Drive, S. Burlington, VT 05403

### **Survey dates (traps set and/or collected)**

Traps replaced every two weeks at each site (field or farm) from June to September, 2019. All traps were set out mid-June and changed approximately every 14 days; 6/10, 6/24, 7/08, 7/22, 8/05, 8/19, 9/02, 9/16 and 10/01.

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

**2019 Corn Commodity Survey**

Survey	Scientific Name	Common Name	Trap Type	Product ID	# of Traps	Lure Type	# Liners	# Lures	Lure Efficacy (days)
Tomato Commodity Survey	<i>Autographa gamma</i>	Silver Y Moth	Plastic Bucket (unitrap)	18	7	<i>A. gamma</i> rubber septum	NA	40	28
	<i>Spodoptera litura</i>	Cotton Cutworm	Plastic Bucket (unitrap)	18	7	<i>S. littoralis</i> laminate lure	NA	30	84
	<i>Helicoverpa armigera</i>	Old World Bollworm	Plastic Bucket (unitrap)	18	7	<i>H. armigera</i> rubber septum	NA	40	28
	<i>Laodelphax striatellus</i>	Small Brown planthopper	Yellow Sticky Card	43	60	NA	NA	40	14
	<i>Chilo partellus</i>	Spotted stem borer	Wing trap (plastic)	27	60	<i>Chilo partellus</i> rubber septum	60	40	28

10 sites, 7 counties, 5 traps for 5 pests per site.

