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CORNELL COOPERATIVE EXTENSION

CORNELL VEGETABLE PROGRAM



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Issue 15



July 20, 2022

Something Different This Week: VegEdge Lite

Julie Kikkert, Cornell Cooperative Extension, Cornell Vegetable Program

Due to unexpected circumstances we do not have administrative support for VegEdge this week. The team is committed to bringing you important information, but we are keeping it short and simple this week. As always if you have any questions or need assistance, please contact one of our vegetable specialists listed on the back page of VE. Events are also listed in this issue and if you have computer access they also appear on our website at <https://cvp.cce.cornell.edu/events.php>. Thanks again for your support and we hope to be back to normal soon.

WNY Sweet Corn Trap Network Report, 7/19/22

Marion Zuefle, NYS IPM Program; <http://sweetcorn.nysipm.cornell.edu>

Statewide, 32 sites reported this week. European corn borer (ECB)- E was caught at three sites and ECB-Z was caught at two sites. The hybrid ECB was caught at three of the six sites trapping for it. Sixteen sites reported corn earworm (CEW) catches this week with 14 sites high enough to be on a 4, 5, or 6 day spray schedule (see table at bottom of post). Fall armyworm (FAW) was only caught at nine sites and Western bean cutworm (WBC) was caught at 20 sites. WBC numbers are beginning to increase. Peak flight usually occurs around the first week of August. It is important to begin scouting for egg masses even if cumulative trap catches have not reached 50, as egg masses have been found when cumulative trap catches were still in the single digits.

Average corn earworm catch and recommended spray interval

Per Day	Per Five Days	Per Week	Days Between Sprays
<0.2	<1.0	<1.4	No Spray (for CEW)
0.2-0.5	1.0-2.5	1.4-3.5	6 days
0.5-1.0	2.5-5.0	3.5-7.0	5 days
1-13	5-65	7-91	4 days
over 13	over 65	over 91	3 days

Add one

WNY Pheromone Trap Catches: July 19, 2022

Location	ECB -E	ECB -Z	ECB Hybrid	CEW	FAW	WBC	DD to Date
Batavia (Genesee)	0	0	NA	0	0	6	2381
Bellona (Yates)	2	1	2	0	7	12	2437
Collins (Erie)	0	0	NA	2	0	1	2268
Eden (Erie)	NA	NA	NA	NA	NA	NA	2372
Farmington (Ontario)	0	0	NA	0	0	12	2432
Geneva (Ontario)	0	0	0	2	6	5	2374
Hamlin (Monroe)	0	0	NA	3	0	1	2310
Leroy (Genesee)	4	0	NA	0	0	3	2366
Lyndonville (Orleans)	0	0	NA	0	0	24	2249
Oswego (Oswego)	0	0	NA	0	0	19	2168
Panama (Chautauqua)	0	0	NA	3	0	18	2097
Penn Yan (Yates)	0	0	0	2	0	NA	2366
Portville (Cattaraugus)	0	0	NA	11	1	25	2107
Ransomville (Niagara)	0	0	NA	0	0	0	2362
Seneca Castle (Ontario)	2	0	3	2	1	20	2361
Williamson (Wayne)	1	0	NA	1	NA	NA	2179

ECB - European Corn Borer
CEW - Corn Earworm
FAW - Fall Armyworm

WBC - Western Bean Cutworm
NA - not available
DD - Degree Day (mod. base 50F) accumulation

About VegEdge

VegEdge newsletter is exclusively for enrollees in the Cornell Vegetable Program, a Cornell Cooperative Extension partnership between Cornell University and CCE Associations in 14 counties.



The newsletter is a service to our enrollees and is intended for educational purposes, strengthening the relationship between our enrollees, the Cornell Vegetable Program team, and Cornell University.

We're interested in your comments. Contact us at:
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VegEdge is published 25 times per year, parallel to the production schedule of Western New York growers. Enrollees in the Cornell Vegetable Program receive a complimentary electronic subscription to the newsletter. Print copies are available for an additional fee. You must be enrolled in the Cornell Vegetable Program to subscribe to the newsletter. For information about enrolling in our program, visit cvp.cce.cornell.edu. Cornell Cooperative Extension staff, Cornell faculty, and other states' Extension personnel may request to receive a complimentary electronic subscription to VegEdge by emailing Angela Parr at aep63@cornell.edu. Total readership varies but averages 700 readers.

Information provided is general and educational in nature. Employees and staff of the Cornell Vegetable Program, Cornell Cooperative Extension, and Cornell University do not endorse or recommend any specific product or service.

This publication contains pesticide recommendations. Changes in pesticide regulations occur constantly and human errors are possible. Some materials may no longer be available and some uses may no longer be legal. All pesticides distributed, sold or applied in NYS must be registered with the NYS Department of Environmental Conservation (DEC). Questions concerning the legality and/or registration status for pesticide usage in NYS should be directed to the appropriate Cornell Cooperative Extension (CCE) specialist or your regional DEC office.

CCE and its employees assume no liability for the effectiveness or results of any chemicals for pesticide usage. No endorsement of products or companies is made or implied. **READ THE LABEL BEFORE APPLYING ANY PESTICIDE.**

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Help us serve you better by telling us what you think. Email us at cce-cvp@cornell.edu or write to us at Cornell Vegetable Program, 480 North Main Street, Canandaigua, NY 14424.



Cornell University
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Cornell Vegetable Program

Contents

Contact Us

Cornell Vegetable Program06

Articles

Something Different This Week: VegEdge Lite01

NY Sweet Corn Pheromone Trap Network Report01

Crop Insights – Our Observations from the Field and Recommendations.....03

Upcoming Events

Vegetable Pest and Cultural Management Field Days for Auction Growers04

Niagara County Vegetable Twilight Meeting04

Growing Degree Days Chart

.....05

VegEdge Sponsors

.....05

The next issue of VegEdge will be July 27, 2022

CROP INSIGHTS



GENERAL

Reminder to register for the 7/28 Niagara meeting – (585) 406-3419. Topics include fresh market field walk, laser scare crows, powdery mildew control, and phytophthora (*P.cap*) management. Free to attend. Please come at 5:45 pm for pizza and to sign-in for DEC credits. The program starts at 6:00 pm, starting at Rickard Nursery Growers on Checkered Tavern in Gasport, ending at Harris Farm Market on the ridge. 1.5 DEC credits available. —EB

BEETS

There have not been a lot of *Cercospora* leaf spot (CLS) or other leaf diseases to date because of previous dry conditions and smaller plant canopies. Irrigated beets are more at risk. For all fields, the risk of CLS infection reached a moderate (Albion, Bergen, Elba, Geneva, Lyndonville, Waterport weather stations) or high level (Medina and Sodus weather stations) over the weekend according to the CLS decision support system <https://www.newa.cornell.edu/beet-cercospora-leaf-spot>. Crop scouting is critical and fungicide applications are generally only advised if CLS is present in the field, there is moderate to high level of risk, and the crop has a long way to harvest. - JK

COLE CROPS

Observed my first cabbage aphids of the year on some cauliflower yesterday. These guys are insidious! Gray-blue and dusty, they reproduce prolifically, hide in crevices, and can be difficult to remove. Watch for them, and be aggressive once they're spotted. Aphid-specific materials are preferred because pyrethroids will also kill any biocontrol natural enemies in your field. Also seeing a touch of swede midge out there – very important for organic growers to crop destruct as soon as you're done with a planting.

CUCUMBERS

Downy Mildew is now present on cucumbers in New York and expected to reach our region immediately. Cucumbers and cantaloupes are highest risk, but growers should watch pumpkins and squash as well.

Growers are encouraged to use Downy Mildew specific fungicides:

Ranman (group 21, 0 D PHI, max 6 applications)

Orondis Ultra (groups 40 and 49, 0 D PHI, max 4 applications)

*Cymbal Balance (groups 27 and 28, 3 D PHI, max 5 applications, restricted use)

These materials should be tank mixed with protectants including chlorothalonil (group M 05, 0 D PHI) or copper (group M 01, 0 D PHI).

Powdery mildew is also present and growers should include sprays targeting this as well:

Inspire Super (groups 3 and 9, 7 D PHI)

Sulfur (group M 02, 0 D PHI)

Prolivo (group 50, 0 D PHI)

Questions? Call Judson, Robert or Elizabeth.

DRY BEANS

Many fields are starting to enter or are in bloom, so white mold management should now be considered. An initial application of Omega 500F is recommended followed by a second application of Endura 70 WDG. The first application should be made at the early bloom stage. Western bean cutworm (WBC) numbers are starting to increase across the region, though overall remain lower than last year at this time. We are likely still a week or two out from peak flight, after which scouting should take place. WBC trap numbers this week in dry beans: Alexander – 11, Avoca Hill – 10, Avoca Valley – 4, Caledonia – 8, Churchville – 30, LeRoy – 67, Pavilion – 5, Penfield – 26, Penn Yan 1 – 6, Penn Yan 2 – 12, Wayland – 4, Wyoming – 24. -ML

PEPPERS

European corn borer damage is starting to be reported in fruit. Nothing to be done for them once they're inside the pepper. Fruit that are coloring up undersized and prematurely could have ECB damage. ECB drilled fruit tend to rot messily, so take them off now to avoid a mess and allow the plant to focus energy on better prospects.

continued on next page

POTATOES

Heavy rains this week increase the risk of late blight and other fungal diseases moving through the area. Be sure to be diligent about fungicide sprays this week. Second generation Colorado potato beetle adults are starting to emerge. Fields with large numbers of beetles earlier in the season should be monitored for egg clusters. -ML

SNAP BEANS

Recent rain was welcome, however, high temperatures continue to stress beans. For fields that are in flower, the high temperatures will likely inhibit pollination, potentially causing reduced or split sets, a problem for one-pass harvest used in processing beans. Last night I arrived at the Rochester airport at 11 pm and it was 82 degrees outside and we are predicted to have several days well into the 90's this week. From S. Reiners, Cornell: Daytime temperatures over 86 F or night temperatures over 80 F at flowering can result in poor set. Moisture stress can also lead to problems in beans. Although the critical time for optimum soil moisture is at the time of flowering and set, dry conditions when the crop has two trifoliolate leaves can decrease later vegetative growth and affect flower initiation. This may result in lowered yields and uneven crop maturity. -JK

SWEET CORN

Corn ear worm counts are low and on a 6 day spray schedule everywhere except the Portville (Catt Co.) trap, which is on a 4 day schedule. Western bean cutworm continues to build through the region. Watch for white egg masses near the base of upper leaves, they cast shadows through the leaf if you're lucky enough to have corn taller than you are. Egg masses turn purple within 24 hours of hatching. Treat shortly after hatch.

TOMATOES

WANTED – bacterial spot or speck locations for a biopesticide trial in Niagara, Orleans, Erie, or Genesee counties! Contact Elizabeth, 585-406-3419. Trial will include a small grower stipend.

Upcoming Events

Vegetable Pest and Cultural Management Field Meetings for Auction Growers

July 19, 2022 (Tuesday) – *notice the new date for this meeting* | 6:00 pm - 8:00 pm

L. Stoltzfus Farm, 4825 Rt 414, Romulus, NY 14541 (Seneca County)

July 22, 2022 (Friday) | 7:00 pm - 9:00 pm

Ray Hoover Farm, 4341 Rt 14A, Rock Stream, NY 14878 (Schuyler County)

July 26, 2022 (Tuesday) | 7:00 pm - 9:00 pm

L. Weaver Farm, 3396 Depew Rd, Canandaigua, NY 14424 (Ontario County)

These courses will demonstrate pest management in fresh market vegetables in both field and greenhouse (high tunnel) vegetables, primarily for those growing for wholesale auction. A hands-on demonstration of weed, insect and disease identification in vegetables including management options such as inter-row cover crops, grafting and where appropriate, spray options will be used to educate growers. Judson Reid, Senior Extension Associate with the Cornell Vegetable Program, along with CCE staff will instruct participants and facilitate peer-based learning. Details on each topic will focus on field observations at these farms.

Free to attend. DEC recertification credits will be offered (2.0 credits in categories 10, 1a, 23; 1.75 credits in category 24). For more information, contact Judson Reid at 585-313-8912.

Niagara County Twilight Meeting

July 28, 2022 (Thursday)

Rickard Nursery Growers and Harris Farm Market, Gasport, NY 14067

Topics include fresh market field walk on pest and disease management, laser scarecrows, powdery mildew management, phytophthora mitigation. Contact Elizabeth Buck for more information: 585-406-3419, emb273@cornell.edu

Accumulated Growing Degree Days, 7/18/22

Nina Gropp, CCE Cornell Vegetable Program

Accumulated Growing Degree Days (AGDD) Base 50°F: April 1 – July 18, 2022

Location	2022	2021	2020
Albion	1441	1382	1295
Appleton	1212	1252	1210
Arkport	1100	1102	1096
Bergen	1235	1251	1254
Brocton	1262	1291	1240
Buffalo*	1287	1364	1299
Ceres	1044	1130	1057
Elba	1169	1193	1208
Fairville	1191	1207	1218
Farmington	1208	1253	1241
Fulton*	1180	1218	1253
Geneva	1260	1293	1279
Hammondsport	1205	1221	1219
Hanover	1244	1274	1236
Jamestown	1091	1123	1074
Lodi	1389	1097	1288
Lyndonville	1133	1262	1264
Niagara Falls*	1350	1314	1256
Penn Yan*	1302	1367	1322
Rochester*	1277	1301	1286
Romulus	1296	1331	1315
Sodus	1314	1320	1204
Versailles	1209	1226	1200
Waterport	1201	1232	1229
Williamson	1201	1193	1186

* Airport stations

** Data from other station/airport sites is at <https://nwa.cornell.edu>

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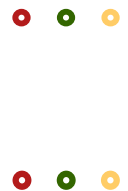
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480 North Main Street
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VegEdge is the award-winning newsletter produced by the Cornell Vegetable Program in Western New York. It provides readers with information on upcoming meetings, pesticide updates, pest management strategies, cultural practices, marketing ideas and research results from Cornell and Cornell Cooperative Extension. VegEdge is produced every few weeks, with frequency increasing leading up to and during the growing season.



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