

## Vegetable Insects

C. Welty

### Cucurbit pests:

the striped cucumber beetle and the spotted cucumber beetle are now being joined by large numbers of the third common beetle species, the western corn rootworm beetle. The western corn rootworm beetle has stripes that are usually wider and less sharply defined than those on the striped cucumber beetle. Unlike the other 2 beetle species, the western corn rootworm beetle does not transmit bacterial wilt. The insecticide 'Admire' which is now legal for use on cucurbits at-planting, is looking excellent for early-season control of cucumber beetles. Squash bug adults and egg masses are now being found in our Columbus pumpkin fields. Squash vine borer adults continue to be caught in pheromone traps; counts for vine borer in the past week were 3 in Clark County (Springfield), 1.5 in Clark County (South Charleston), 4 at Columbus, and 2 at Fremont. See last week's VegNet for more info on vine borer.

### Peppers and corn borer:

As reported in May, the number of Orthene applications allowed on peppers has been reduced to two per year. This is a major concern because Orthene has the reputation as the best insecticide for corn borer control on peppers, based on its trans-laminar activity. Orthene has been used in up to 10 applications per year until now. When limited to just 2 Orthene applications per year, the best time to use them is probably at a 7-day interval during the time of peak egg hatch (usually early August). After this, use Confirm or Baythroid if a 7-day preharvest interval is manageable, or switch to SpinTor or Pounce if a shorter preharvest interval is needed. This program should control the second generation of corn borer larvae well. The worry is that if this is a year with a third generation, then control of the third generation must be made without Orthene. However, there is hope for increased use of Orthene; last week, the manufacturer (Valent) applied for a Special Local Needs ('24C') label in Ohio and several other states that would allow the limit to be increased to four applications of Orthene per year, but we do not yet know if this will be approved. If the 24C is granted, then two applications could be allotted to each generation of borers.

### European corn borer:

The number of corn borer moths caught in traps remains low but beware that a surge indicating the start of the next generation could begin any time in next week or two. Because the first flight was more prolonged than usual, we anticipate that the second flight will start early and be prolonged. In our blacklight trap at Fremont, 0 moths were trapped during the past week, down from 1 moth the previous week. In pheromone traps, the number of corn borer moths caught last week were 0 in

Columbus, 0 in Wayne County (commercial farm), 0 in Wayne County (research farm), 3 in Summit County, 4 in Sandusky County.

Corn earworm:

This pest is active at low levels at some locations. In the past week, the number of corn earworm moths caught in pheromone traps was 0 in Columbus, 1 in Summit County, 1 in Sandusky County. See page 217 of the 2000 Ohio Veg Production Guide or last week's VegNet newsletter for more information on managing this pest.

Trap summaries:

Weekly trap reports for corn earworm, European corn borer, squash vine borer, variegated cutworm at various Ohio locations, plus black cutworm and fall armyworm at a single Ohio location, are now posted on OSU's IPM web page which can be accessed through the VegNet site or directly at: <http://www.ag.ohio-state.edu/~ipm/traps/20vegrpt.htm>

## Crop Reports

Ron Becker

### Wayne County

We now have spider mites starting to enter the vine crops. Though not heavy yet, they are there and people are starting to treat. They have been found for several weeks in green beans. While ear worm moth counts are going down, we are again starting to catch corn borer moths in the traps and will continue spraying silking sweet corn on a 7 day schedule. Peppers will also soon start a spray schedule to protect the pods from corn borer. We are also starting to have fields of peppers go over threshold for aphid populations. Leafhopper numbers are still significant, but have dropped from two weeks ago. Worm activity in the cabbage is also down. Diseases being found are powdery mildew, anthracnose, bacterial wilt and angular leaf spot in vine crops, early blight in potatoes and tomatoes and rust in sweet corn and beans.

## TomCast Report

K. Scaife

At Fremont,. The total DSV's as of 14 July are 49. Last week, 5 July: 39 DSV's. Daily accumulations for Fremont will be reported on the Tomcast page at the VegNet website but updated only once or twice a week.

## The 7 Day Outlook\*

AKRON-CANTON

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 61 77| 60 78| 61 84| 63 86| 66 87| 65 87|

WIND | 5 7| 5 6| 4 6| 5 7| 5 7| 5 7|

PREC

PROB 24 | 67 | 61 | 35 | 28 | 31 | 35 |

CLEVELAND

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 62 79| 61 76| 60 83| 64 86| 66 85| 66 86|

WIND | 5 7| 5 6| 4 7| 5 8| 5 8| 6 8|

PREC

PROB 24 | 66 | 58 | 33 | 28 | 31 | 34 |

COLUMBUS

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 63 83| 62 82| 64 85| 66 88| 69 92| 69 90|

WIND | 3 6| 3 5| 3 5| 3 5| 3 6| 3 6|

PREC

PROB 24 | 59 | 55 | 29 | 26 | 31 | 35 |

CINCINNATI

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 63 83| 63 82| 66 88| 68 91| 71 91| 71 89|

WIND | 4 9| 4 8| 5 7| 5 7| 5 7| 6 8|

PREC

PROB 24 | 44 | 44 | 22 | 24 | 31 | 34 |

DAYTON

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 64 84| 63 80| 64 87| 68 88| 71 91| 69 91|

WIND | 4 7| 5 6| 3 5| 4 6| 4 6| 4 6|

PREC

PROB 24 | 49 | 47 | 23 | 24 | 31 | 34 |

TOLEDO

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 62 82| 60 80| 61 85| 64 89| 67 88| 66 87|

WIND | 4 8| 4 6| 2 7| 4 7| 5 7| 4 8|

PREC

PROB 24 | 54 | 46 | 24 | 25 | 30 | 33 |

YOUNGSTOWN

DAY DATE | FRI 14| SAT 15| SUN 16| MON 17| TUE 18| WED 19|

TEMP

MIN/MAX | 59 77| 56 76| 57 84| 60 86| 62 87| 63 85|

WIND | 5 7| 4 7| 3 7| 4 7| 5 7| 5 7|

PREC

PROB 24 | 71 | 63 | 39 | 29 | 31 | 35 |

\* LEGEND:

TEMP MIN/MAX - forecasted minimum and maximum temperature  
for time periods midnight to noon and noon to midnight.

WIND - MEAN WIND SPEED(KTS) FOR TIME PERIODS periods  
midnight to noon and noon to midnight.

PREC. PROB. 24 - probability of precipitation for the 24  
hour period.

What's New At The VegNet Web Site

Pumpkin Production Chart

Originally available only in the print version of the 2000 Ohio Vegetable Production Guide, this WEB version can be found in "The Pumpkin Patch" The chart is a quick guide and timeline to key factors necessary for a successful pumpkin crop.

Another NEW! VegWeb Fact Sheet.

Table on Susceptibility of sweet corn hybrids to Stewart's Bacterial Wilt as rated by Jerald Pataky (Univ. of Illinois). Adapted by Dr. Celeste Welty, Extension Entomology, OSU Columbus. This table was published in last week's VegNet Newsletter. A WEB edition is now available from the VegNet homepage. More information on Stewart's wilt and its history in Ohio will be available soon.

Vegetable Faculty WEB Pages.

Dr Matt Kleinhenz has recently posted his faculty webpage. At the site you can find his research projects, results and review his presentations made this past winter. A link from VegNet will be provided soon. To visit Matt's homepage, go to:  
<http://www.oardc.ohio-state.edu/kleinhenz/>

From Dr. Brent Rowell, Univ of KY,  
email: [browell@ca.uky.edu](mailto:browell@ca.uky.edu)

Our new KY Vegetable Recommendations book is on the web now. A print version is also available. The introductory section on marketing might be of interest to southern OH tobacco growers.

<http://www.ca.uky.edu/agc/pubs/id/id36/id36.htm>

The marketing section is also available as a separate publication.

<http://www.ca.uky.edu/agc/pubs/id/id134/id134.htm>

Visit: "The Library, Online Edition of the 2000 OH Vegetable Production Guide, NOW AVAILABLE.

The OH Vegetables Production Guide ranks #22 in top downloads from OSU Extension Ohioline with over 1,000 downloads. Most of the new features are available in the online edition including the New Insecticide Efficacy tables. The new Pumpkin Production Chart is not there but I hope to have it posted soon in "The Pumpkin Patch" section of the VegNet website.

NEW! VegWeb Fact Sheets.

This new feature offers some valuable information on certain aspects of vegetable production that you can print out directly in your home or office. The first two are by Dr. Mac Riedel, OSU Plant Pathology, and are available from the VegNet homepage.

Fungicides Labeled for Pumpkins

Confused by the many new fungicides now available for pumpkins. Check out this fact sheet to see how to use these fungicides.

Fungicide Activity For Control of Tomato Diseases Which fungicide is best for a particular tomato disease.

Available from the Vegetable Crops Homepage, [Click Here!](#)

The 1999 Pumpkin Review and Slide Show.

Yield Data plus pictures of pumpkin cultivars from this year's trials. Also, see pumpkin varieties rated for powdery mildew resistance. There are many new and interesting pumpkin varieties in all size categories.

Visit: 'The Pumpkin Patch' for pictures and yield data.

The 1999 Green Pepper Evaluation and Slide Show.

Yield Data Slide Show From The Muck Crops Branch at Celeryville,

From The Enterprise Center

Comparison of Disease Control on Fresh Tomatoes using TOMCAST and SKYBIT to Time Fungicide Applications.

Evaluation of Watermelon Cultivars for Southern Ohio, 1999

1999 Ornamental Corn Evaluation

Evaluation of Eastern Style Muskmelons for Southern Ohio, 1999

[Link To Research Summaries From The Enterprise Center at Piketon.](#)

[Return to Vegetable Crops Homepage | Ohio State University Extension](#)

We appreciate very much the financial support for this series of vegetable reports which we have received from the board of growers responsible for the Ohio Vegetable and Small Fruit research and Development Program. This is an example of use of Funds from the "Assessment Program".

Where trade names are used, no discrimination is intended and no endorsement by Ohio State University Extension is implied. Although every attempt is made to produce information that is complete, timely and accurate, the pesticide user bears the responsibility of consulting the pesticide label and adhering to those directions.

Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, Keith L. Smith, Director, Ohio State University Extension.

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