VegNet Vol. 10, No. 14, August 8, 2003

Sweet corn and pepper pest Update

C. Welty

Any sweet corn plantings in the silking stages should be managed for corn earworm if it is present, as detailed in last week's VegNet. Corn earworm moths have been detected at some but not all Ohio locations during the past week. The number of earworm moths caught in pheromone traps was 23 in Meigs County, 1 in Washington County, 2 in Franklin County, 2 in Clark County, 3 in Miami County, 0 in Wayne County, 0 in Huron County, 0 in Sandusky County, and 0 in Wood County.

Sweet corn and pepper growers should be ready for the start of second generation European corn borer. The corn borer moths have been detected in increasing numbers at most locations during the past week. Egg laying begins soon after the moth flight starts, and eggs take about 5 days to hatch. Many more moths are likely to emerge during the next few weeks. The number of borer moths caught in pheromone traps in the past week was 14 in Meigs County, 4 in Washington County, 6 in Franklin County, 1 in Clark County, 95 in Miami County, 14 in Wayne County, and 0 in Sandusky County. The number of borer moths in blacklight traps was 4 in Franklin County, 12 in Sandusky County, and 69 in Wood County.

Yellow Vine, a New Cucurbit Disease

Welty, Riedel, & Precheur

Last week we found the first case of a new disease in Ohio: yellow vine. This is a bacterial disease caused by Serratia marcescens and transmitted by the squash bug. The plant diagnosed was a giant pumpkin. The diagnosis was done in Oklahoma by specialists who are working on this new disease. Yellow vine attacks summer and winter squash, pumpkins, cantaloupe, and watermelon, but not cucumbers. Infected plants usually turn yellow then collapse. A diagnostic feature is a ring of honey-brown tissue when a cross-section is cut through the crown near the soil line. We suspect that this disease might be found throughout Ohio but has been mistaken for bacterial wilt or Anasa (squash bug) wilt. Management strategies include killing the squash bug during the seedling stages with insecticides, roguing infected plants as soon as they are found, and destroying plant remnants after harvest to eliminate the overwintering habitat of the squash bug.

Crop Notes

R. Precheur

Powdery Mildew was spotted last week in some pumpkin fields. As in previous years, this disease showed up right on time. It can usually be found the last week of July or the first week of August. See page 213 of the 2003 OH Vegetable Production Guide for recommended fungicides.

The 7 Day Outlook

R. Precheur

August 8, 2003; PLANET MARS QUITE BRIGHT IN MAINLY CLEAR SKIES.

SATURDAY LOOKS LIKE A SLIGHTLY BETTER CHANCE FOR THUNDERSTORMS AS MOISTURE MOVES INTO THE STATE. ALL OF THIS PRECIPITATION IS CAUSED BY AN UPPER LEVEL TROUGH THAT HAS BEEN PERSISTENT THROUGHOUT THE SUMMER. HIGHS ON SATURDAY ONCE AGAIN NEAR 80.

A STEADY STATE WEATHER PATTERN IS EXPECTED INTO NEXT WEEK WITH LOWS IN THE 60S AND HIGHS IN THE UPPER 70S TO LOWER 80S. THERE MAY BE SIGNS OF A WARM UP TOWARD THE END OF THE WEEK AS HIGH PRESSURE TRYS TO MOVE INTO THE STATE.

Akron Canton

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	65 67	64 69	64 71	63 74	64 75	65 74
POP 24 hrs	82	74	45	31	31	30

Cincinnati-

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	67 74	66 76	67 77	67 78	66 79	67 79
POP 24 hrs	50	50	34	28	23	22

Cleveland

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	67 68	65 71	65 73	64 75	66 75	68 75
POP 24 hrs	72	69	37	27	28	28

Columbus

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	68 72	66 74	66 76	65 79	66 79	67 79
POP 24 hrs	67	66	40	29	27	26

Dayton

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	62 72	64 74	64 75	64 77	66 78	67 78
POP 24 hrs	47	52	29	22	19	20

Findlay

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	64 70	64 72	63 72	62 76	63 76	65 76
POP 24 hrs	49	54	24	19	21	22

Mansfield

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	64 66	63 70	62 70	63 73	64 74	65 73
POP 24 hrs	79	80	50	42	45	45

Toledo

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
CLIMO						
Temp Min Max	64 72	65 74	65 74	63 76	64 76	66 77
POP 24 hrs	47	54	23	23	27	28
33						

Wilmington

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	64 71	63 72	64 74	63 75	64 76	65 75
POP 24 hrs	56	55	34	25	21	20

Zanesville

Day/Date	SUN 10	MON 11	TUE 12	WED 13	THU 14	FRI 15
Temp Min Max	67 69	64 72	64 74	64 77	64 78	65 77
POP 24 hrs	75	67	43	27	23	21

POP = Probability of precipitation over 24 hour period.

What's New At The VegNet Web Site

Problem Of The Week

**A pictorial comparison of Squash Vine borer damage and Bacterial Wilt in pumpkins.
While the symptoms are similar, there are some key differences.
Check it out. Click on the 'Problem of the Week' button of the left side.**

VegNet Vegetable Schools

A series of slide presentations are now available in order to update you on the latest pumpkin and sweet corn research. We begin with 6 pumpkin topics in Pumpkins 101 and have 10 slide presentations available in Sweet Corn 101. In sweet corn. Powerpoint presentations and html online slide shows are available now. Go to the VegNet homepage.

Pumpkins 101
The use of trap crops and Admire for cucumber beetle control and New varieties for 2001. We have presentations on cover crops for disease control and pumpkin fungicide use.

- **Perimeter Trap Cropping. Online html slide show | Perimeter Trap Cropping. PPT, 7 Mbytes**

See also the Research Results section on the home page for text version of the report.

Sweet Corn 101
Presently only Powerpoint presentations availabe. Coming Soon: Online HTML slide shows. Check back often Nine topics including:

- **Aspects of Variety Selection based on Disease Control [ppt 40 KB]**
- **Internet Link To "Reactions of Sweet Corn Hybrids to Prevalent Diseases" Dr. Jerald Pataky www.sweetcorn.uiuc.edu**
- **Producing Early Sweet Corn [ppt 3.5 Mbytes]**
- **Managing Weeds in Sweet Corn [ppt, 9 Mbytes]**
- **Sweet Corn Heribicies & Variety Sensitivity. [ppt 2Mbytes]**
- **Sweet Corn Development and Critical Periods for Irrigation Management [ppt 1.6 Mbytes]**
- **Flea Beetle Management in Sweet Corn [ppt 510 KB]**
- **How To Keep Worms Out of Sweet Corn Ears [ppt 8.3 Mbytes]**
- **Role of Bt Transgenic Hybrids in Sweet Corn Pest Management. [ppt 21.2 Mbytes]**

Bt Sweet Corn Efficacy in OH, 1999-2000 [ppt, 208 KB]

Return to Vegetable Crops Homepage | Ohio State University Extension

We appreciate very much the financial support for thisseries 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.

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