

PLANT & PEST ADVISORY

VEGETABLE CROPS EDITION \$1.50

OCTOBER 1, 1997



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Vegetable Crops Diseases

Stephen A. Johnston, Ph.D., Plant Pathology

- ✓ **Cole Crops:** Apply Aliette or maneb every 7 days, or Ridomil/ Bravo every 14 days for the control of **Downy mildew**.
- ✓ **Cucumber:** Maintain applications of Bravo + Benlate on a 7-day schedule for control of **anthracnose** and **powdery mildew**.
- ✓ **Eggplant:** Maintain applications of a copper fungicide + maneb with a spreader sticker every 7-10 days for the control of **Phytophthora** and **Phomopsis fruit rots**.
- ✓ **Lettuce:** Several fields of Romaine lettuce are yellow in appearance. This is the result of **nitrogen** and **magnesium deficiency** brought about by the heavy rains in late August. Sidedress with a nitrogen containing fertilizer and Epsom salt. Observe fields for the presence of **Septoria leaf spot**, and apply maneb as a foliar spray for control.
- ✓ **Pepper:** Maintain applications of a copper fungicide + maneb with a spreader sticker every 7-10 days for the control of **Phytophthora fruit rot** and **anthracnose**.
- ✓ **Potato (Sweet):** Be sure to cure potatoes as soon as possible after digging to reduce incidence of **surface rot (Fusarium)**. This disease will result in a brown lesion the size of a silver dollar on the potato, and the rot will progress approximately 1/4 inch into the flesh of the potato. The longer potatoes are held prior to initiating the curing process, the greater the incidence of this disease. Potatoes should be cured at 80°-85°F and 90% relative humidity for 6-8 days. After curing, lower temperature to 55°F but keep relative humidity at 85%.
- ✓ **Pumpkin & Squash (Winter):** Maintain applications of Bravo + a copper fungicide every 7-10 days for control of **foliar** and **fruit diseases**.
- ✓ **Spinach:** Observe fields for the presence of **white rust**. Once observed in young fields, apply Kocide LF as a foliar spray and repeat every 7 days. In fields closer to harvest, apply Aliette as a foliar spray.
- ✓ **Tomato:** Maintain applications of Bravo every 7 days for control of **foliar** and **fruit diseases**. □

Vegetable IPM Update

Kristian E. Holmstrom, Vegetable IPM Program Associate and Sally Walker, Vegetable IPM Program Associate

◆ Cole Crops

The three main cole crop pests, **imported cabbage-worm (ICW)**, **cabbage looper (CL)** and **diamondback moth (DBM)**, continue to be active throughout the state. As light frosts approach, low to moderate levels of **CL** feeding on the leaves can become a significant problem in fields of cabbage, broccoli, and cauliflower. This is because cold conditions cause them to migrate toward the centers of the plants, damaging the heads.

◆ Pepper

The **European corn borer (ECB)** adult population has dropped off in all areas of the state. The **corn earworm (CEW)** population is low and should not be a problem for peppers. **CEW** and **ECB** larvae were found in fruit in an unsprayed test plot in Salem County last week, but at very low levels (less than 4% of the fruit were infested).

Fall armyworm (FAW) pheromone trap catches still remain at moderate to high levels in Cumberland and Atlantic counties. In one field in Atlantic County that has not been sprayed recently a significant number of fruit were infested with large and small **FAW** larvae, and trap catches there remain high.

Beet armyworm (BAW) adult moths are still being caught in traps in Cumberland County, but at low levels.

◆ Sweet Corn

CEW activity continues to be moderate in the south and low in the central and northern counties. Cooler evening temperatures in combination with lower populations should minimize the risk to silking sweet corn at this time.

The highest nightly **CEW** blacklight trap catches are as follows:

Medford	9	Cranbury	3	Milltown	3
Hammonton	5	Hancock's Brdg	3	Shiloh	3
Elmer	4	Hopewell	3	Stow Creek	3
Shirley	4	Jamesburg	3	Cedarville	2

The **ECB** population has dropped radically in the past week throughout the state. The **FAW** population remains high in the southern counties and moderate in the central and northern counties.

The highest nightly **ECB** blacklight trap catches are as follows:

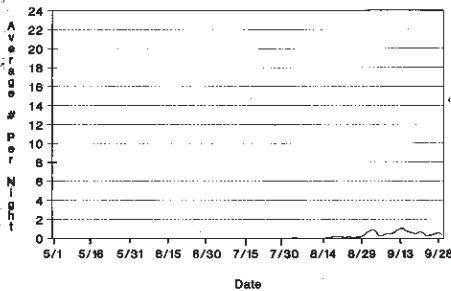
Shirley	3	Chapel Heights	1	Hammonton	1
Allentown	2	Cohansey	1	Indian Mills	1
Burlington	1	Cranbury	1	Mullica Hill	1
Cedarville	1	East Vineland	1	Woodstown	1

◆ General Sweet Corn Spray Schedule

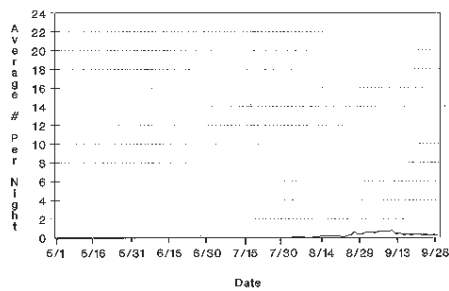
Silking stage:	North	4 - 5 days*
	Central	3 days*
	South	3 days*

*These are general spray recommendations for large areas of the state. Growers can increase or decrease the intervals based on their own local situations.

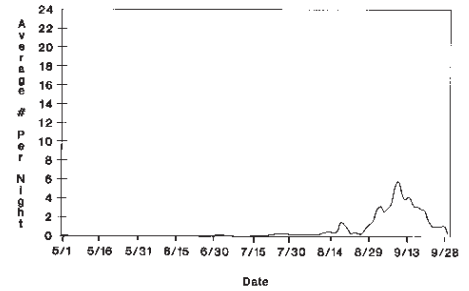
Northern NJ- CORN EARWORM (CEW)
Blacklight Trap Catches



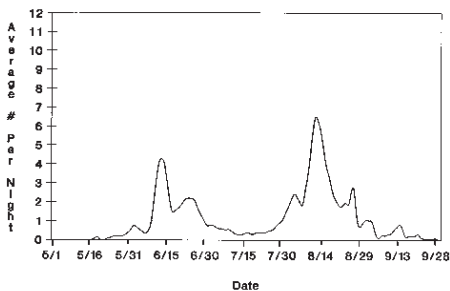
Central NJ- CORN EARWORM (CEW)
Blacklight Trap Catches



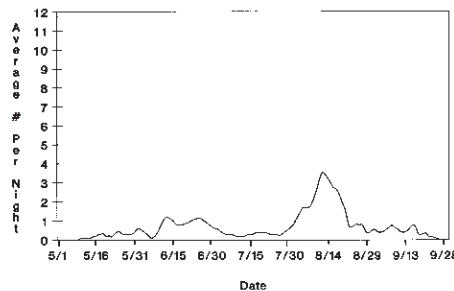
Southern NJ- CORN EARWORM (CEW)
Blacklight Trap Catches



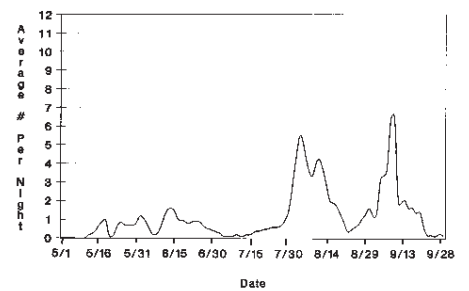
Northern NJ- EUROPEAN CORN BORER (ECB)
Blacklight Trap Catches



Central NJ -EUROPEAN CORN BORER (ECB)
Blacklight Trap Catches



Southern NJ -EUROPEAN CORN BORER (ECB)
Blacklight Trap Catches



1997-98 New Jersey Farm Management Program

Frances E. Adelaja, Program Associate in Farm Management

Under the umbrella of the 1997-98 New Jersey Farm Management Program, we are offering 28 seminars throughout New Jersey from November 1997 to March 1998. The seminars listed below are on topics farmers say would be most useful for their business operations. Up-to-date information is provided via lectures and practical exercises at seminars. Hands-on computer instruction is provided at computer seminars. These seminars are open to the public.

Some highlights of the seminars include: computerized accounting systems, tax management, the Internet and World Wide Web, estate planning, business writing for farmers, writing a business plan, creating a home page, computer basics & buying a computer, investments, family business issues, greenhouse business for the future, and nursery business for the future.

We invite you to attend any seminar that may be of interest to you. For registration, please call Joan Sorensen at 732-932-0100. For all other information pertaining to these seminars, please call Fran Adelaja at 732-932-9171 ext. 31

1997-98 NJ Farm Management Program

Event Date: November 3, 1997
 Event Time: 9:00 A.M. to 4:00 P.M.
 Event Title: What Does A Cooperative Director Do?
 Event Location: Cumberland County Extension Office, Millville, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: November 5, 1997
 Event Time: 9:30 A.M. to 3:45 A.M.
 Event Title: Marketing: Attracting Customers and Dealing with Laws and Regulations
 Event Location: Quality Inn, Somerset, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: November 11-12, 1997
 Event Time: 9:00 a.m. to noon and 1:30 to 4:30 p.m. each day
 Event Title: Computerized Farm Business Recordkeeping Using Quicken & QuickPay
 Event Location: Gloucester County College, Sewell, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: November 20, 1997
 Event Time: 9:00 A.M. to 1:00 P.M.
 Event Title: Retirement and Estate Planning for Farmers

Event Location: Old York Country Club, Old York Rd., Columbus, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: December 1, 1997
 Event Time: 6:00 p.m. to 9:00 p.m.
 Event Title: Farm Income Tax Management
 Event Location: Cook Campus Center, Cook Campus, New Brunswick, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: December 9, 1997
 Event Time: 9:00 a.m. to 1:00 p.m.
 Event Title: What New Laws Will Affect Your Estate Planning?
 Event Location: Columbus Grange, Columbus, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: December 16, 1997
 Event Time: 9:30 a.m. to 12:30 p.m.
 Event Title: Positioning Your Nursery Business for the Future
 Event Location: Somerset County Extension Office, Bridgewater, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: January 9, 1998
 Event Time: 9:30 a.m. to 12:30 p.m.
 Event Title: Finding Agricultural Information on the Internet
 Event Location: Loree Building, Microcomputer Lab, Cook Campus, New Brunswick, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: January 9, 1998
 Event Time: 1:00 P.M. to 4:00 p.m.
 Event Title: How to Create a Business Presence on the World Wide Web
 Event Location: Loree Building, Microcomputer Lab, Cook Campus, New Brunswick, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: January 12, 1998
 Event Time: 9:15 a.m. to 12:15 p.m.
 Event Title: Business Writing Skills for Farmers
 Event Location: Labor Education Center, Cook Campus, New Brunswick, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: January 14, 1998
 Event Time: 9:00 a.m. to 5:00 p.m.
 Event Title: QuickBooks for Windows
 Event Location: Gloucester County College, Sewell, NJ
 Contact: Joan Sorensen (732) 932-0100

Event Date: January 16, 1998
 Event Time: 9:30 a.m. to 12:30 p.m.
 Event Title: Computer Basics & How to Buy a Computer
 Event Location: Loree Building, Microcomputer Lab, Cook Campus, New Brunswick, NJ
 Contact: Joan Sorensen (732) 932-0100

The '97-98 schedule will continue in next week's issue.

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Pesticide User Responsibility: Use pesticides safely and follow instructions on labels. The user is responsible for the proper use of pesticides, residues on crops, storage and disposal, as well as damages caused by drift. For specific labels, special local-needs label 24(c) registration, or section 18 exemption, contact Rutgers Cooperative Extension of your County.

Use of Trade Names: Trade names are used in this publication with the understanding that no discrimination is intended and no endorsement is implied. In some instances the compound may be sold under different trade names, which may vary as to label clearances.