

PLANT & PEST ADVISORY

CRANBERRY EDITION \$1.50

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Insect Update

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✓ **Blackheaded fireworm:** Adult catches in pheromone traps have peaked during the third week of June around the Chatsworth area. Adult flight will continue for another week or so. Most of the larvae are in the second and third instar stages at this time.

Blackheaded fireworm in the second generation web several uprights together and feed on blossoms and berries. They feed on the surface of the berries and sometimes completely hollow the berries. Damage caused during this generation may also result in reduced crop for the following year because injured tips may fail to produce terminal buds. If you are observing patches of browning typical of fireworm damage, inspect infested areas to determine if blackheaded fireworm larvae are present. Recently, Confirm 2F (tebufenozide) has received a Section 18 registration for Blackheaded fireworm control in New Jersey. If you have a Blackheaded fireworm infestation that requires an application of Confirm 2F, contact me at the Research Station (Tel: (609-726-1590) for instructions on using Confirm 2F.

✓ **Spotted fireworm:** Male moth catches in pheromone traps continue to increase. We are very close to the peak pheromone trap catches. Egg laying on broadleaf weed species and grasses is continuing. Hatching of egg-masses is just beginning. We expect that the peak egg hatch will be in the following 8-10 days.

Spotted fireworm larvae can feed on fruit as well as foliage in the second generation. Although we do not have an economic threshold estimated for this insect, we feel that populations below an average of 4 medium sized larvae per 25 sweeps may not require insecticide treatments. The most effective control of Spotted fireworm is achieved when larvae are in early stages of development and not tightly enclosed in leaves or entered berries. If insecticide treatments are required, post-pollination application of one of Diazinon, Guthion or Lorsban will effectively suppress spotted fireworm populations.

✓ **Sparganothis fruitworm:** Adult captures in pheromone traps are increasing. Pheromone trap catches are not expected to peak for another 7-10 days.

✓ **Cranberry rootworm:** Adults are active on several bogs feeding on the foliage. Adults skeletonize foliage and score on berries. Adults are 1/4 inch long and shiny mahogany brown. This insect overwinters as a grub in the soil and generally has a one-year life cycle, but a few grubs may take more than one season to mature. Beetle activity is

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expected to last for another 1-2 weeks. A second and third application of Sevin XLR may be required in heavily infested areas to prevent further spread of the infestation. Sevin XLR should be applied late in the evening after bees have stopped foraging. Recently the label for Sevin XLR has undergone some changes. As per the new label, Sevin XLR can be applied only once every 7 days up to a total of 5 applications per acre per season. Night sweeping may provide more accurate information on the levels of infestations than day time sweeping. For more information on honey bee hazard due to Sevin XLR Plus, please read the label carefully and follow all instructions.

✓ **False armyworm and other Cutworms:** Unusually high levels of False armyworm and Cutworm infestations are being seen in several areas. All sizes of the larvae are present at this time. These larvae primarily cut hooks and runners and can cause significant yield loss. False armyworm and Cutworms are nocturnal and therefore only night sweeping will give an accurate estimate of their populations. Bt insecticides are effective only if you have small to medium sized larvae. ☐

Weekly Weather Summary

Keith Arnesen, Agricultural Meteorologist

Temperatures averaged much below normal. Extremes were 80 degrees at Toms River on the 14th, and 42 degrees at Charlotteburg on the 9th. Weekly rainfall averaged 4.09 inches north, 3.16 inches central, and 2.69 inches south. The heaviest 24 hour total was 3.88 inches at Charlotteburg on the 13th to 14th. Estimated soil moisture, in percent of field capacity, this past week averaged 82 percent north, 76 percent central and 67 percent south. Four inch soil temperatures averaged 60 degrees north, 62 degrees central and 64 degrees south.

Weather Summary for the Week Ending 8 a.m. Monday, 6/15/98

WEATHER STATIONS	RAINFALL			TEMPERATURE				GDD BASE50		MON %FC
	WEEK	TOTAL	DEP	MX	MN	AVG	DEP	TOT	DEP	
BELVIDERE BRIDGE	3.59	23.27	9.95	76	46	63.	-5	734	150	99
CANOE BROOK	4.41	23.52	9.05	76	47	65.	-3	885	337	100
CHARLOTTEBURG	5.43	24.65	10.16	75	42	60.	-5	616	206	100
FLEMINGTON	MISSING									
LONG VALLEY	4.22	22.66	7.88	70	48	61.	-5	626	166	100
NEWTON	2.80	18.32	5.34	74	46	62.	-5	624	154	100
FREEHOLD	MISSING									
LONG BRANCH	2.87	26.83	13.01	73	51	63.	-6	693	102	100
NEW BRUNSWICK	3.78	23.71	10.37	76	49	64.	-6	818	125	100
PEMBERTON	MISSING									
TOMS RIVER	3.51	30.87	17.33	80	47	64.	-4	877	288	100
TRENTON	2.48	22.57	10.22	74	47	64.	-7	804	67	98
CAPE MAY COURT HOUSE	2.63	17.41	5.43	79	50	66.	-3	840	182	93
DOWNSTOWN	2.20	17.11	4.87	78	49	66.	-5	950	191	96
GLASSBORO	3.25	16.83	3.66	78	57	67.	-4	965	226	94
HAMMONTON	2.36	17.17	4.35	79	50	66.	-5	899	169	95
POMONA	2.24	21.63	9.84	79	50	66.	-3	882	219	98
SEABROOK	3.25	18.94	7.39	79	54	67.	-4	1004	239	95
ATLANTIC CITY MARINA	2.87	22.65	11.47	79	57	67.	-1	803	194	92
WOODSTOWN	4.03	16.59	4.36	82	49	67	NA	1038	NA	NA
WES KLINE — GDD BASE 40 PINEY HOLLOW										
Last Week	153 (Ending 6/8/98)									
This Week	183 (Ending 6/15/98)									

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