

PLANT & PEST ADVISORY

CRANBERRY EDITION \$1.50

AUGUST 8, 1997



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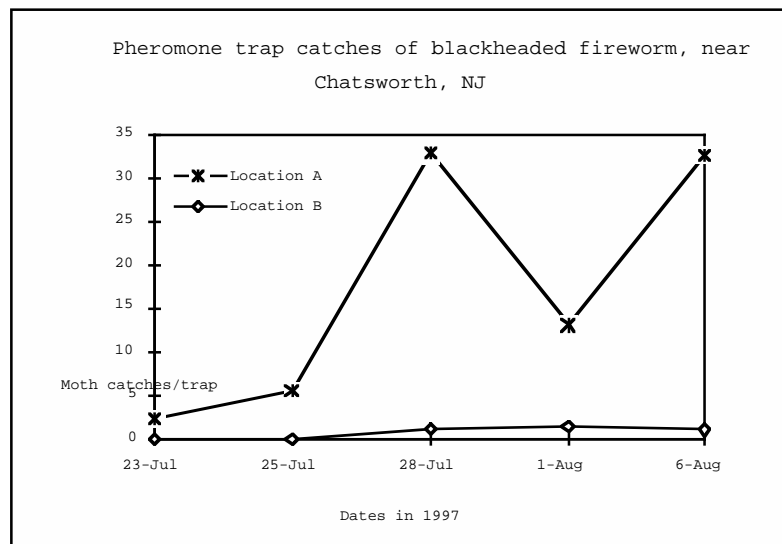
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Insect Update

Sridhar Polavarapu, Ph.D., Entomology and IPM

✓ **Flea beetles:** Growers should be on the look out for Flea beetle infestations in the next 2-3 weeks. Flea beetle adults are 1/8 to 1/5 inch long, shiny black with a reddish sheen on the front half. Adults can be distinguished by their jumping habit. Adults mostly feed on terminal foliage, skeletonizing the leaves from the lower surface. On occasion adults may also feed on berries. Damaged berries will have surface scars. Cranberries can tolerate substantial damage to the foliage at this stage of the crop. Young beds are more likely to have Flea beetle infestations. Only severe infestations of Flea beetles may require an insecticide application. Sevin 4F or Diazinon AG500 will provide effective control of Flea beetles.

✓ **Blackheaded fireworm:** The second generation adults have been in flight for the past two weeks. Trap catches are expected to peak this week. Blackheaded fireworm lays eggs singly on the lower surface of cranberry leaves. Most of the eggs laid in this generation will overwinter and not hatch until the following spring.



See Insects on page 3

American Cranberry Growers Association, Inc.



Summer Meeting

August 28, 1997

Rutgers Cranberry/Blueberry Research Center, Oswego, NJ

8:00 a.m. to 8:30 a.m. Coffee and Danish

8:30 a.m. to 11:30 a.m. A.M. Field Plot Session

Fruit Rot Control - Evaluation of sprayer efficacy

Dr. Peter Oudemans - Rutgers Cranberry/Blueberry Research Center

Screening of Newer Insecticides - to manage major caterpillar pests of cranberry

Dr. Sridhar Polavarapu - Rutgers Cranberry/Blueberry Research Center

Herbicide Testing in Cranberries

Dr. Bradley Majek and Dr. Albert Ayeni - Rutgers Agricultural Research and Extension Center, Centerton, NJ

Presented by Ms. Susan Butkewich, Agricultural Weed Scientist - Ocean Spray Cranberries, Inc.

Variety Plots - Evaluating wild and cultivated varieties

Dr. Nicholi Vorsa - Rutgers Cranberry/Blueberry Research Center

11:30 a.m. to 12:30 p.m. Picnic Lunch

American Cranberry Growers Association Business Session

Tom Gerber, President

12:30 - 3:30 p.m. Laboratory Session

Initial Results Using GSP in Precision Cranberry Culture

Steven Lee - Cranberry Grower

Biological Control Cranberry Fruit Rot

Dr. Donald Kobayoshi - Dept. of Plant Pathology, Rutgers

Development of DNA Fingerprinting Technology

Dr. James Polashock - Rutgers Cranberry/Blueberry Research Center

Evaluating for Phytophthora Root Rot Resistance

Dr. Peter Oudemans - Rutgers Cranberry/Blueberry Research Center

Life History & Management of Major Grub Species Infesting Cranberry

Dr. Sridhar Polavarapu and Dr. Robin Stuart - Rutgers Cranberry/Blueberry Research Center

Cranberry Species from Around the World

Dr. Nicholi Vorsa - Rutgers Cranberry/Blueberry Research Center

Weekly Weather Summary

Keith Arnesen, Agricultural Meteorologist

Temperatures averaged near normal. Extremes were 94 degrees at Pemberton, Toms River and Woodstown on the 29th and 46 degrees at Newton on the 30th. Weekly rainfall averaged 0.29 inches North, 0.05 inches Central, and 0.03 inches South. The heaviest 24 hour total was 0.76 inches at Charlotteburg on the 3rd to 4th. Estimated soil moisture, in percent of field capacity, this past week averaged 82 percent North, 65 percent Central and 56 percent South. Four inch soil temperatures averaged 71 degrees North, 74 degrees Central and 74 degrees South.

Weather Summary for the Week Ending 8 a.m. Monday 8/ 4/97

WEATHER STATIONS	RAINFALL			TEMPERATURE				GDD BASE50		MON %FC
	WEEK	TOTAL	DEP	MX	MN	AVG	DEP	TOT	DEP	
BELVIDERE BRIDGE	.00	18.06	-2.13	86	49	72.	-1	1514	-133	66
CANOE BROOK	.10	20.64	-.64	90	51	74.	0	1816	173	76
CHARLOTTEBURG	.76	19.37	-2.09	88	49	70.	-2	1420	142	84
FLEMINGTON	.11	19.73	-.87	88	53	72.	-2	1569	-120	75
LONG VALLEY	.00	20.62	-1.47	87	52	70.	-2	1392	-64	73
NEWTON	.75	16.83	-2.88	85	46	69.	-3	1287	-207	89
FREEHOLD	.00	19.65	-.34	91	54	76.	1	1796	-13	65
LONG BRANCH	.00	18.78	-1.14	91	60	76.	1	1722	-9	46
NEW BRUNSWICK	.06	26.09	6.10	89	53	74.	0	1743	-152	74
PEMBERTON	.00	18.41	-1.69	94	53	75.	0	1971	122	40
TOMS RIVER	.00	18.23	-2.31	94	53	74.	0	1756	22	44
TRENTON	.25	21.22	2.01	88	53	73.	-3	1726	-249	51
BRIDGETON	.00	.00	.00	0	99	0.	0	0	0	0
CAPE MAY COURT HOUSE	.01	15.24	-2.45	91	57	75.	-1	1821	-27	28
DOWNSTOWN	.02	16.82	-1.88	90	56	75.	-1	1837	-150	50
GLASSBORO	.02	20.21	.53	90	60	76.	0	1976	15	47
HAMMONTON	.00	16.68	-3.06	91	54	75.	-1	1822	-138	44
POMONA	.00	20.20	2.35	91	55	75.	0	1836	6	42
SEABROOK	.10	18.82	.76	93	57	76.	0	1960	-34	48
ATLANTIC CITY MARINA	.07	18.08	.98	91	64	77.	2	1825	83	44
WOODSTOWN	.05	17.86	-1.98	94	54	76	NA	1996	NA	NA
WES KLINE — GDD BASE 40 PINEY HOLLOW										
Last Week 218 (Ending 07/28/97)										
This Week 247 (Ending 08/04/97)										

Insects from page 1

✓ **Spotted fireworm:** The second flight of spotted fireworm has begun. Pheromone trap catches of Spotted fireworm are expected to peak around August 18. Spotted fireworm lays its eggs in large masses of up to 200 eggs, mostly on weeds in and around the bogs. These egg-masses will begin to appear in the next 4-5 days. Parasites belonging to the genus *Trichogramma* attack the eggs of both Spotted fireworm and Sparganothis fruitworm and cause significant egg mortality in the second generation. Upon reaching the second instar stage, Spotted fireworm larvae spin a hibernacula and overwinter on the bog floor. Therefore, larvae in this generation do not cause any damage to the crop. □

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