RUTGERS COOPERATIVE RESEARCH & EXTENSION AT THE NEW JERSEY AGRICULTURAL EXPERIMENT STATION

PLANT & PEST ADVISORY

CRANBERRY EDITION $1.50 JULY 6, 2006

INSIDE

Insect Update

Cesar Rodriguez-Saona, Ph.D., Specialist in Entomology and Dan Schiffhauer, Agricultural Specialist, Ocean Spray Cranberries

✔ **Post-pollination insecticide applications:** We are approaching the end of bloom, and now is the time to begin considering post-pollination insecticide options. Not every bog, however, will require the post-pollination application, especially if one or more insecticides were used during the pre-pollination period. You may also be able to skip a post-pollination insecticide if pheromone traps for **Sparganothis fruitworm** and **spotted fireworm** indicated a weak flight.

We recommend the use of Intrepid 2F, Confirm 2F, or SpinTor 4SC for control of Sparganothis fruitworm, spotted fireworm, and **blackheaded fireworm**. These reduced-risk insecticides are selective against **lepidopterans**. In addition, these compounds can be used when bees are still present. SpinTor can be used during bloom provided a 3 hr drying period between application and time of first bee activity. In other words, SpinTor should be applied at dusk. Confirm and Intrepid are safe to bees.

If you have used a pre-pollination application of an organophosphate (Diazinon or Lorsban), do not use the same insecticide in the post-pollination spray. This will prevent insect resistance by rotating different pesticide chemistries. Similarly, if you have not used an organophosphate during pre-pollination or in the last year, you may consider using one in your post-pollination spraying. Organophosphates are recommended only if you have high populations of **blunt-nosed leafhoppers** in addition to worms.

✔ **Spotted fireworm:** We have not seen considerable numbers of egg masses. In the few bogs where eggs were found (weedy areas), most egg masses hatched last week. Several of these eggs masses were heavily parasitized. Intrepid and Confirm are most effective if targeted against newly hatched larvae. This insect is one of the main targets for post-pollination insecticide applications.

✔ **Sparganothis fruitworm:** Together with spotted fireworm, this insect is an important post-pollination pest to manage. In the past, insecticides have been applied two weeks after the peak moth flight. Adult flight often peaks the first week of July. Thus, post-pollination application to control this insect is expected around mid-July. If adult captures are low to moderate (10-50 per trap per week at peak), larval

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populations in the following generations are expected to be low and insecticide application is not recommended.

✔ **Blunt-nosed leafhoppers:** We do not have a scouting protocol for leafhoppers in cranberries. At this time, blunt-nosed leafhoppers are in the adult stage and are easier to see in sweep net samples compared to earlier stages (nymphs). A light sweep net sampling for adults after bloom is recommended. We are currently working on the development of color sticky traps to better monitor adult blunt-nosed leafhoppers. The best timing for control of blunt-nosed leafhopper is during the pre-bloom period, targeting the nymphs. Adults are easy to control after bloom but they are busy laying eggs during this time so there is always the possibility that the population will quickly rebound the following year. If adult numbers are not high it is probably better to make a note of the bed(s) and target the nymphs the following spring.

✔ **Cranberry Fruitworm:** Last year saw unusually high levels of cranberry fruitworm damage on some beds. This was probably due to the cooler than average spring weather, which had the effect of synchronizing the emergence of cranberry fruitworm adults with the cranberry beds. Cranberry fruitworm damage is normally quite low on New Jersey cranberry beds and this insect is more of a problem in blueberry production. Cranberry fruitworm should not be any more of a problem this year than normally and growers should not target a spray specifically for this pest. Spray timing for cranberry fruitworm is difficult and involves spraying while the bees are still on the beds, a very tricky proposition. Cranberry fruitworm is a major pest in Massachusetts and Wisconsin and New Jersey growers should be very thankful that it is not a big problem here. Let's hope it stays that way! ❑

Weekly Weather Summary

Keith Arnesen, Ph.D., Agricultural Meteorologist

Temperatures averaged much above normal, averaging 74 degrees north, 75 degrees central and 76 degrees south. Extremes were 93 degrees at Hammonton and Pomona on the 3rd, and 56 degrees at Flemington on the 1st. Weekly rainfall averaged 3.51 inches north, 1.33 inches central, and 1.73 inches south. The heaviest 24 hour total reported was 2.89 inches at Flemington on the 27th to 28th. Estimated soil moisture, in percent of field capacity, this past week averaged 95 percent north, 88 percent central and 88 percent south. Four inch soil temperatures averaged 76 degrees north, 76 degrees central and 77 degrees south.

Weather Summary for the Week Ending 8 am Monday 7/ 3/ 6

	RAINFALL			TEMPERATURE				GDD BASE50		MON
WEATHER STATIONS	WEEK	TOTAL	DEP	MX	MN	AVG	DEP	TOT	DEP	%FC
CANOE BROOK	2.42	15.46	-1.32	90	58	76.	5	1245	343	86
CHARLOTTEBURG	3.40	16.69	-.30	84	58	73.	5	1012	301	85
FLEMINGTON	4.71	21.22	5.15	89	56	74.	2	1189	255	94
NEWTON	missing									
FREEHOLD	.87	15.35	-.39	92	58	75.	3	1202	173	84
LONG BRANCH	.42	15.87	.11	92	62	74.	2	1113	155	66
NEW BRUNSWICK	1.48	15.51	.12	92	58	76.	2	1275	179	92
TOMS RIVER	.89	12.97	-2.73	93	59	76.	3	1198	241	84
TRENTON	2.97	16.10	1.70	92	60	76.	2	1306	161	79
CAPE MAY COURT HOUSE	.80	9.79	-4.11	91	61	75.	2	1217	179	74
DOWNSTOWN	1.87	12.52	-1.70	91	60	76.	2	1277	115	80
GLASSBORO	3.82	13.61	-1.76	91	62	76.	2	1430	289	81
HAMMONTON	.95	11.73	-3.28	93	60	76.	2	1352	218	78
POMONA	.35	12.50	-1.09	93	61	76.	4	1250	209	59
SEABROOK	2.58	15.53	1.83	91	63	77.	3	1481	312	72
SOUTH HARRSION	3.02	12.43	-2.97	91	61	75	NA	1411	NA	NA

*some past data is missing and therefore cumulative values and departures will be off.

WES KLINE — GDD BASE 40 PINEY HOLLOW

LAST WEEK 258 (Ending 6/26/06)

THIS WEEK 255 (Ending 7/3/06)

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