

# PLANT & PEST ADVISORY

CRANBERRY EDITION \$1.50

JUNE 24, 2008



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### Insect Update

*Cesar Rodriguez-Saona, Ph.D., Specialist in Entomology*

Growers continue to find gypsy moth larvae in certain areas of cranberry bogs, not necessarily at edges close to the woods. In cases where growers sprayed pre-bloom for gypsy moth, this is likely due to a spray coverage miss during aerial applications. Larvae at this time can cause severe damage to flowers because they are fairly large (about 2 inches long) and one larva can consume several flowers.

You have limited options for insecticide sprays during bloom. In general, if growers are required to use insecticides when honeybees are present, your choices of insecticides are limited to Insect Growth Regulators – IGRs- such as Intrepid 2F or Confirm 2F, or products containing the bacteria *Bacillus thuringiensis*, such as Dipel, Xentari, etc. Delegate WG can be used during bloom but ONLY at dusk, when honeybees are not active, because this product is extremely toxic to bees.

Because of the large size of gypsy moth larvae and honeybee activity, the best treatment option in areas where you have gypsy moth is to use an IGR. Intrepid often has better insecticidal activity than Confirm, and thus is recommended if you continue to have gypsy moth-infested area(s). Bt products do not work well against large gypsy moth larvae. Delegate is a very good product against various lepidopteran pests but due to toxicity to honeybees, its use during bloom should be restricted to instances where no other insecticide option is available. Because Intrepid will work against gypsy moth, we recommend using this insecticide instead.

Remember: Intrepid, being an insect growth regulator, will not kill the gypsy moth larvae right away, but will stop their feeding; thus it will prevent larvae from causing more damage, and eventually die from starvation or desiccation. □

# Weekly Weather Summary

Keith Arnesen, Ph.D., Agricultural Meteorologist

Temperatures averaged below normal, averaging 67 degrees north 69 degrees central and 71 degrees south. Extremes were 88 degrees at several locations on the 17th, and 48 degrees at Charlotteburg on the 19th. Weekly rainfall averaged 0.62 inches north, 0.15 inches central, and 0.13 inches south. The heaviest 24 hour total reported was 0.60 inches at Charlotteburg on the 20th to 21st. Estimated soil moisture, in percent of field capacity, this past week averaged 83 percent north, 66 percent central and 55 percent south. Four inch soil temperatures averaged 68 degrees north, 70 degrees central and 71 degrees south.

Weather Summary for the Week Ending 8 am Monday 6/23/ 8										
WEATHER STATIONS	RAINFALL			TEMPERATURE				GDD BASE50		MON
	WEEK	TOTAL	DEP	MX	MN	AVG	DEP	TOT	DEP	%FC
BELVIDERE BRIDGE	.31	14.79	.44	86	51	68.	-1	895	163	64
CANOE BROOK	.80	16.46	.97	87	50	68.	-1	907	209	93
CHARLOTTEBURG	1.13	15.85	.25	82	48	64.	-2	749	212	84
FLEMINGTON	.21	15.80	1.03	86	49	67.	-3	887	161	81
NEWTON	.63	14.84	.81	84	51	67.	-1	920	311	75
FREEHOLD	.30	12.00	-2.54	87	50	70.	-1	907	94	65
LONG BRANCH	.12	15.03	.38	82	55	68.	-2	841	94	55
NEW BRUNSWICK	.20	13.57	-.64	86	51	69.	-3	927	66	73
TOMS RIVER	.06	13.02	-1.43	85	52	69.	-1	916	175	46
TRENTON	.05	14.21	1.00	87	53	69.	-3	1009	98	44
CAPE MAY COURT HOUSE	.25	11.07	-1.75	88	54	71.	0	973	154	40
DOWNSTOWN	.06	12.55	-.53	87	52	69.	-3	1025	93	36
GLASSBORO	.00	13.71	-.42	88	56	72.	0	1126	215	50
HAMMONTON	.07	11.04	-2.71	88	53	71.	-1	1083	180	40
POMONA	.16	13.48	.95	88	53	70.	-1	1032	207	59
SEABROOK	.26	12.96	.48	88	54	72.	0	1124	186	41
SOUTH HARRISON	.07	13.53	-.43	88	54	71	NA	1106	NA	NA
WES KLINE -- GDD BASE 40 PINEY HOLLOW										
LAST WEEK 269 (Ending 6/16/08)										
THIS WEEK 205 (Ending 6/23/08)										

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