



Bayer CropScience



MUCK CROPS RESEARCH STATION IPM 2012

This is the Muck Crops Research Station Report and IPM Information for Friday April 27, 2012

The season started with relatively warm and dry conditions. The rain that we received in the last few days enabled growers to start field work and seeding activities. The warm temperatures that occurred around mid of April resulted in fast accumulation of degree days (DD) compared to the 2011 spring, which means emergence of most insects will be earlier than the 2011 growing season. Degree days for onion maggot are presently at 71, and first generation begins at 210 DD. Based on the local weather forecast, we may start to see onion maggot flies in about 12-15 days. To reduce onion maggot problems, all volunteer onions and any remaining cull piles should be removed. Application of granular insecticide at seeding reduces first-generation damage. Lorsban 15 G and Pyrifos 15 G insecticides are registered for onion maggot control.

Carrot Weevil DD is presently at 33 and adults will begin to lay eggs at 147 DD. We will start to set traps at our research station and carrot fields around the marsh to monitor movement of over wintering adult carrot weevils.

Carrot Rust Fly is at 96 DD and adults emerge at 329 DD, which will be in about 3 weeks. Tarnished plant bug and aster leafhopper DD are just beginning to accumulate.

Seeding of onions, early carrots and transplanting onions has been started around the Holland Marsh. Barley can be used to reduce wind erosion in onions and carrots. In onions, broadcast barley at a rate of 50 to 55 lbs/acre. In carrots use 45-50 lbs/acre. Seed the barley the same day you seed the crop. Treated barley seed is not necessary since barley smut is different from onion smut.

The 2010-2011 versions of the pub 363 Vegetable Production Recommendations and pub 75 Guide to Weed Control, and the new vegetable crop protection guide (pub 838) are available from OMAFRA. All page numbers listed in the IPM update (*Agriphone*) are for these editions of the guides.

Onion Herbicides recommendations can be found in Publication 75 the "Ontario Guide to Weed Control" on pages 225-227. Prowl can be applied to onion transplants once they are established, usually a good 10 days after transplant once the roots have begun to spread and establish. Goal can also be applied once the transplants are established. The onions should be exposed to one or better yet two sunny days before application.

Soil temperatures at the Research Station for April 26 at the 5 and 10 cm depth were 6.4°C. A total of 35.9 mm of rain was accumulated for the period of April 20 to April 26.

ANY QUESTIONS OR COMMENTS? Call Michael Tesfaendrias or Mary Ruth McDonald at 905-775-3783

