

VegNet Vol. 12, No. 9. June 8, 2005
Ohio State University Extension Vegetable Crops
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Post-Emergence Weed Control in Sweet Corn with Callisto by Doug Doohan
Need to kill triazine resistant lambsquarters? Canada thistle? Giant ragweed?
Consider Callisto POST. Early post-emergence Callisto (weeds up to 5 inches tall) will provide excellent control of these species and many others. Following a PRE application of Dual or Outlook + atrazine, the additional residual activity provided by Callisto will extend weed control through the growing season on most sweet corn acres. NIS (Non Ionic Surfactant) or COC (Crop Oil Concentrate) must always be included with Callisto POST. To keep crop chlorosis to a minimum use NIS rather than COC, except as noted in the fourth paragraph of this article.

Since 2002 we have tested tolerance of approximately 40 sweet corn varieties to Callisto POST (see VegNet Vol 12 (5) April 29, 2005). Crop tolerance was generally very good but leaf chlorosis (whitening) and shorter plant occurred with some varieties and under certain environmental conditions. Even with these injury symptoms we did not detect statistically significant reductions in yield in trials conducted in 2002-2004. Complete reports of these trials can be found under Research at (<http://www.oardc.ohio-state.edu/weedworkshop/>).

In OSU trials, weed control with Callisto POST at 3 oz/A has been outstanding. Control of lambsquarters, common-, and giant-ragweed averaged nearly 100%. Control of a dense stand of Canada thistle 7 weeks after application (WAA) was 85% and 78%, with NIS and COC, respectively. Addition of a nitrogen source (UAN or AMS) did not improve thistle control and adversely affected corn tolerance.

Syngenta Crop Protection recommends addition of atrazine at -1 pt/A with Callisto POST to improve control of broadleaf weeds including thistles, although this was not observed in our trials. Vegetable growers should be cautious not to apply too much atrazine. Generally, vegetables should not be grown the following year if more than 1 lb/A of total atrazine is applied in PRE + POST applications. POST Callisto, without the atrazine tank-mix, should use COC instead of NIS. Vegetable growers need to be cautious about restrictions on crop rotation with Callisto as well. Field corn may be replanted immediately and small grains within 120 days. Soybean, potatoes, alfalfa and sweet corn may be planted 10 months after Callisto application. Other crops may not be rotated until 18 months after Callisto use.

Be careful to follow all precautions regarding Callisto POST and insecticides. Do not apply Callisto POST to sweet corn that has been treated with Lorsban or Counter and do not tank-mix Callisto with organophosphate or carbamate insecticides. Also, applying insecticides in these groups within 7 days before or after Callisto application may result in severe crop injury.

Northwest Ohio Vegetable Crops Tour by Dusty Sonnenberg, OSU Extension, Henry County

Each year the OSU Extension State Vegetable Crops Team hosts an early summer vegetable crops tour in Northwest Ohio. This tour is designed for OSU Extension and OARDC Researchers to travel to the various county fields and meet with growers, consultants, and OSU Extension Agents. This tour allows producers and consultants to bring plant samples and questions to the researchers, as well as identification and discussion of issues in the fields visited.

The 2005 Northwest Ohio Vegetable Crops Tour will be held on Thursday, June 16th. This year the tour will feature two main stops focusing on both processing and production. The first stop is scheduled to begin at 12:30 p.m. at the Tom Schulte Farm in Putnam County. Tom is a diversified vegetable crop grower. His operation is located East of Pandora, Ohio, off of State Route 12. Tom has a Roadside Farm Market, so visitors can follow the signs on Route 12 to his operation. The second stop will be at Hartung Brothers in Bowling Green. The Hartung Brothers cucumber grading facility is located just East of Bowling Green at 815 South Dunbridge Road.

Crop Reports Southeast Ohio Hal Kneen

Dry weathers persists and growers are irrigating tomatoes peppers vine crops and sweet corn. Trellising tomatoes continues with some growers putting on the third string by this weekend. Tomato fruit size is anywhere from a quarter to silver dollar size. Cucumbers are forming on the vine. Peppers just starting to take off and grow nicely.

Sweet corn has tassels just starting to emerge in several plantings. No catches for beet armyworm, corn earworm and European corn borer this past week.

The pumpkins have started to emerge from the first seeding.

Colorado potato beetles are feeding on potatoes. Baythroid did not work because of suspected resistance. Now using alternative class of chemicals.

Henry County Vegetable Up-date (Week of June 6th) Dusty Sonnenberg

Most of the vegetables in Henry County are still in need of a good rain. Irrigation began last week on some crops. Early spinach is being cut this week. Planting of green beans and other specialty crops continues. Most crops are still about 2 weeks behind schedule due to the lack of temperature and sunlight in May. Heat finally returned late last week, and the forecast for this week has temperatures in the upper 80s to low 90s and dry with only a 30% chance of rain predicted during most of the week.

Wayne County Report Ron Becker 6/08/05

Vegetable insect activity has increased with the warmer temperatures in the Wayne and surrounding counties. Light infestations of cutworm, common stalk borer, armyworm and corn borer have been found in sweet corn fields during this past week. Flea beetles populations have been moderate in most crops with several fields of sweet corn and cabbage requiring rescue treatments. Eggplant that has recently been planted will likely need rescue treatments for flea beetles next week. Cucumber beetles are being sprayed for where Admire was not used at planting. Potato leafhopper is being found in potatoes and green beans, though at populations below threshold. Several fields of green beans have had to be treated for bean leaf beetle. Aphids are building up to near threshold levels in peppers and tomatoes. Thrips are also building to near threshold levels in onions. Direct seeded pumpkins are starting to emerge.

Ohio Land Improvement Contractors Association Open House by Mark Koenig
Friday, June 24, 2005

OARDC North Central Agricultural Research Station
1:00 - 3:00 P.M.

The OARDC in conjunction with the Ohio Land Improvement Contractors Association are going to be making several drainage improvements at the research farm. We would like to invite the public to stop by for an informal discussion or work being conducted and see what types of improvement are taking place. A formal program is being planned to go along with the Vegetable Crops Field Day on August 4.

Thing up here as far as veggie's go are on time as far as planting goes. Everything could use some rain and a few guys are talking about irrigation for tomatoes and sweet corn. I have seen them set-up but have not seen any water in the air yet.

Southwest OH From June 1, 2005 by Brad Bergefurd

Rains up to one inch fell over the Memorial day weekend and temperatures in the high 70's and low 80's are allowing vegetable crops to put on more growth. Tomatoes are being staked and suckered. Pumpkins were planted the end of last week by some growers. Planting of sweet corn, peppers, tomatoes, melons, cucumbers, watermelons continues. First sprays are being made to cabbage and cole crops for worm control. Some early blight is beginning to show up in high tunnel tomatoes. Harvest of high tunnel tomatoes is beginning. Sweet corn planted under plastic is about 4 feet tall and tassels are beginning to be seen in the whorl whereas sweet corn planted on bare ground is about a foot tall. Harvest of plasticulture strawberries is in full swing and the crop has been outstanding in terms of yields and quality so far, with many fields still showing bloom which means harvest should continue for the next 20 days. Harvest of matted row strawberries has just begun. Fields of plastic mulch from last years crops continue to be burnt down with herbicides and later crops of summer squash and cucumbers are being planted to these fields.

Henry County Vegetable Up-date May 31, 2005 Dusty Sonnenberg

Most of the vegetables in Henry County are about 2 weeks behind schedule due to the lack of temperature and sunlight. Most are doing well otherwise. Disease pressure is relatively low. Weed pressure is average to above average. Potatoes are looking very good. The early Spinach is about ready for harvest, and other crops continue to be planted daily. The forecast for this week has temperatures in the upper 70s to low 80s and dry with rain predicted on the weekend. The irrigation of some crops may resume midweek.

Eastern OH Vegetable update May 26, 2005 by Steve Schumacher

We have had cool and damp weather during the month of may.....so we are seeing slow growth and some lack of germination.

Sweet corn - what is up is growing slowly and there is some yellowing. Sections of fields you see poor stands. Some may need to be replanted.

Strawberries are in bloom and about 10 day from harvest.

Some delayed planting of vegetables due to cool weather and soils. Markets are delaying opening dates.

Ontario Vegetable Grower Tour - June 22 23, 2005

Headquarters Hotel Leamington Ramada Inn

201 Erie Street North, Leamington, Ontario N8H 3A5

Registration Fee: \$50.00 per person OVPGA member; \$70.00 per person non-member. Registration fee includes Wednesday bus transportation and box lunch.

Participants are responsible for their hotel accommodations. The group rate at the Ramada is: \$89.00

(CN) + 12% tax per night (approximately \$76 (US) per night), Reservations: 800-340-9841

Wednesday, June 22, 7:30 am, bus departure

Case Versnel & Sons, Corey Versnel

Field tour of fresh market peppers, tomatoes, Mid East specialty vegetables and eggplant for the wholesale market.

Lycor Land Farms, Dave Epp

Field tour of processing tomatoes, sweet corn, and peas with drip irrigation/fertigation. Also see their high capacity irrigation reservoir.

Harry Bradley

Field tour of processing and fresh market potatoes with drip irrigation.

On farm research plots, Kent County

Laura Van Eerd, Environmental Management, Ridgeway College, University of Guelph coordinates these research plots on peppers, carrots and nitrogen fertility.

Ridgeway College Research Station

Picnic lunch provided. Specialists available: Steve Loewen, Processing Tomato Breeding; Dr. Ron Pitblado, Processing Vegetable Pest Management;

Dr. Darren Robinson, Horticultural Crop Weed Management; John Zandstra, Fruit & Vegetable Cropping Systems. The campus is situated on 450 acres of land in the heart of the most intensive agricultural region of the province. The site houses many

multi-functional facilities that serve the research programs. The college also has unique physical research assets including: Processing tomato process laboratory, Mushroom growing chambers, Genetic marker laboratory, Tissue culture laboratory and Chemistry/microbiology laboratories. More than 75 different farms throughout Southwestern Ontario are also involved in their research programs.

Return to Ramada Inn, 5:30 pm

BBQ, 7:00 pm, at the Leamington Municipal Marina, 249 Sherk Street Cookout is courtesy of the Ontario Processing Vegetable Growers, John Mumford, General Manager

Thursday, June 23, 8:00 am

Room checkout and begin self drive tour Since Harrow is west, participants will drive their own vehicles and proceed to the US border at tour conclusion.

Wrightland Farms, Keith Wright

Fresh market asparagus, cabbage and melons

Greenhouse tomato production (tentative)

Greenhouse and Processing Crops Research Station (Agriculture and Agri-Food Canada) The Greenhouse and Processing Crops Research Centre (GPCRC), located at Harrow, Ontario, is part of a national network of 19 research centres of Agriculture and Agri- Food Canada. The Centre develops and transfers new technologies for production of greenhouse vegetables (tomatoes, cucumbers and peppers), field-grown processing vegetables, soybeans, and edible beans. Specialists available: Chin Tan (Ph.D.), Soil Water Management; Al Hamill (Ph.D.), Weed Management; Tiequan Zhang, (Ph.D.), Soil Fertility/Root Ecology; John Warner, (M.Sc.), Vegetable Production.

Grower requested tour stop (TBA)

We have a flexible schedule, so an impromptu tour stop may be added at participants request. Tour to conclude in early afternoon.

Registration Form on OVPGA web site:

www.ohiovegetables.org (see Grower News).

Or for more information, contact Kathy Lutz,

ph: 614-246-8292, fx: 614-246-8692,

email: klutz@ofbf.org.

Maps and other information on reverse