

CRANBERRY STATION NEWSLETTER

March 23, 2023 Vol. 24:3



UMass
Cranberry
Station

Research
& Extension



1 State Bog Road
East Wareham, MA 02538
508-295-2212
ag.umass.edu/cranberry

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UMASS CRANBERRY PESTICIDE SAFETY MEETING

The UMass Cranberry Pesticide Safety Meeting has been scheduled for **Tuesday, April 25, 2023, from 7:30 AM -12:00 PM**. This will be a hybrid meeting, you can choose to join via Zoom or in person at the Bogside Building, UMass Cranberry Station. In-person seating may fill up fast due to room capacity allowance. Please return the meeting form as soon as possible to get your preferred attendance choice. Registration fee is **\$50 per person**, and you will earn 4 pesticide credits. **To attend, see page 7** for meeting payment form.

TENTATIVE AGENDA

Tuesday April 25, 2023, 7:30 AM – 12:00 PM

7:30 Online and In Person Check-In Begins

8:00 WPS and Pesticide Safety Update – Marty Sylvia

8:20 FIFRA Special Labels – Hilary Sandler

8:45 Weevil Management in 2023 – Marty Sylvia

9:10 Groundwater Protection and Zone II – Hotze Wijnja

9:45 Frost Update – Peter Jeranyama

10:00 *COFFEE BREAK*****

10:20 Herbicides, and Weed Research Update – Katie Ghantous

10:40 Fungus, Fruit Rot, and the Keeping Quality Forecast – Leela Uppala

11:10 The Latest Insect Concerns (Blunt Nosed Leafhopper, Scale and Black Bug) – Anne Averill

11:35 Chemigation Myths and Revisiting Dye Tests – Gavin Bartlett, ADM

News from the Entomology Lab

by Anne Averill and Marty Sylvia

WPS TRAINING FOR HANDLERS

Zoom trainings with certificate are being offered on **Wednesday, March 29, 2023, Friday, April 14, 2023, Wednesday, April 26, 2023, and Friday, May 12, 2023**, starting at 7:30 AM and will last about 1 hour. This training can be done with each person on a smartphone or computer, or in a group setting around a screen – but verification is needed for each person attending. **To attend a training** or for more information please contact Marty at 508-265-6921 or martys@umass.edu.

INSECT IDENTIFICATION CLINICS - WHAT IS IN THE SPRING SWEEP NET?

Main Focus: Blunt-Nosed Leafhopper and Cranberry Black Bug

We have scheduled 3 in-person clinics focusing on identifying potential problem insects on the bog. **All sessions meet from 7:30-9:30 AM in the Entomology Lab at the Cranberry Station and there is no charge.** You will earn 2 pesticide credits per clinic. **To attend or for more information** please contact Marty at 508-265-6921 or martys@umass.edu or Anne at averill@eco.umass.edu.

Tuesday, May 16, 2023, 7:30-9:30 AM

- Presentations, discussion, review plan of work in ID clinics

Tuesday, May 30, 2023, 7:30-9:30 AM

- **ID CLINIC** - Review insect identifications, bring in some frozen sweep samples for ID and microscope ID, study our sweep net specimens, review spray recommendations, coffee shop talk

Tuesday June 13, 2023, 7:30-9:30 AM

- **ID CLINIC** - Review insect identifications, bring in some frozen sweep samples for ID and microscope ID, study our sweep net specimens, review spray recommendations, coffee shop talk

News From the Weed Science/IPM Lab

By Hilary Sandler and Katie Ghanous

BATTLE OF THE GODS: SPARTAN REPLACES ZEUS!

FMC, the registrant of Zeus, has several products that contain sulfentrazone, the active ingredient in Zeus. The company is in the process of consolidating its sulfentrazone products into fewer labels. Zeus is going out of production and will be replaced by Spartan 4F. We have a newly amended 24(c) label that allows cranberry growers to use Spartan 4F in the same manner as Zeus XC for control of moss and other susceptible weeds. Our current SLN (Special Local Needs) label for the use of Zeus on cranberries will remain in effect until December 31, 2024.

The basic message here is that if you have any existing stocks of Zeus, you should use them up as soon as possible (and absolutely before December 31, 2024). If you want to use sulfentrazone and need to buy NEW product, you should buy Spartan 4F. Be sure to grab a copy of the Spartan SLN from our website (available soon!) or from your place of purchase so that you have the proper label on hand for your application.

<https://ag.umass.edu/cranberry/services/special-pesticide-labels>.

Notes on using Zeus/Spartan. This herbicide can damage cranberry plants if applied too late. You **MUST** apply to plants that are spring dormant (bud scales closed, no potential for herbicide to contact tender new growth inside bud). Time applications for cranberry safety rather than the weed growth stage! If applied to already stressed cranberry vines (e.g., ones that have scale infestations, were heavily pruned, have poor root development, etc.), stress symptoms may appear. In 2022, we had our first observations of areas on some sporadic beds that were treated with Zeus where the old growth (leaves from previous growing season) remained red as the plants emerged from dormancy. However, the new shoots emerging from beds appeared to develop normally for the remainder of the growing season.

SPECIAL LOCAL NEEDS 24(c) LABEL FOR CUTRINE PLUS FOR ALGAE CONTROL IN LATE WATER FLOODS-NEW FOR 2023!

Cutrine Plus is a liquid copper-based formulation that has been used for decades to control algae in late water floods. During recent reviews of the Chart Book, we realized that the Section 3 label language was ambiguous as to whether the application of Cutrine to flood waters was permitted under our conditions (as a result, we removed Cutrine Plus language from the 2021-2023 Chart Book). Working with the registrant, SePRO, we sought approval of an SLN that would clearly address its use as an application to flood waters in MA cranberry production. In March 2023, MDAR granted approval of the SLN. If you plan to use Cutrine-Plus, please obtain a copy of the SLN (available soon!) at <https://ag.umass.edu/cranberry/services/special-pesticide-labels>.

Notes on using Cutrine-Plus. If your flood is shallow or if you have had scum problems in late water floods (LW) in the past, plan to treat 2 weeks into the flood period. Scout for algae and apply when growth is first visible on the water surface. Remember that copper only prevents further algal growth (it does not eliminate existing scum), so prompt treatment is necessary.

The material is injected into the sprinkler system running at 20 psi (e.g., when doing a 30-minute injection, you may continue running for 1-2 hours after to disperse the material). Rates are calculated using label information and the number of acre-feet to be treated. To calculate acre-feet, multiply the number of acres by the depth of the flood in feet. Multiply the desired rate (gallons per acre-foot based on chart from pesticide label) by the acre-feet of water you have calculated for the bed being treated. We typically recommend a rate in the range of 0.6-1.2 gal per acre-foot.

SECTION 18 FOR DODDER CONTROL WITH KERB IS RENEWED FOR 2023

EPA has approved our expedited emergency exemption request for the use of Kerb® SC (pronamide) for dodder control. Under this permit, Kerb can be used **ONLY** in Massachusetts for dodder control **ONLY!** The Section 18 label is posted on our website and must be in your possession at the time of application. If using Kerb in 2023, you must fill out an “Applicator Reporting Form” and return it to MDAR. A copy of the 2023 Report form will be available on our website with the special labels

<https://ag.umass.edu/cranberry/services/special-pesticide-labels> and should also be available at the point of purchase.

Notes on Using Kerb. Kerb can be applied after the winter flood has been withdrawn and prior to dodder emergence. Unlike Zeus/Spartan, Kerb is safe to apply to cranberry plants even after budbreak. Kerb can be applied as a single application of 2.5 - 5.0 pints (1.0 - 2.0 lb a.i.) per acre. Alternatively, two applications may be made at a rate of 2.5 (1.0 lb a.i.) per acre. Total product applied must not exceed 5.0 pints (2.0 lb a.i.) per acre per year. Split applications must be separated by a minimum of 20 days. Kerb has a 75- day PHI and a 24-hr REI.

Check with your handler prior to use for restrictions. There are no Kerb MRLs established for many foreign markets. **Kerb is Zone II restricted!** Contact Hilary if you want to use Kerb and your bog is in a Zone II.

USING OTHER PRE-HERBICIDES

Casoron, Devrinol, Evital, Callisto, and QuinStar can be applied pre-emergence (PRE) for weed control.

Casoron works mainly on germinating seeds, small seedlings and some perennial weeds. It is effective against broadleaf and grassy weeds. Apply pre-budbreak. Casoron volatilizes quickly and it is best to apply when soil and air temperatures are less than 60 F. It should be watered in soon after the material is applied. See p. 55 in 2021-2023 Chart Book.

Devrinol is a good choice for new plantings. It is most effective when applied to a weed-free surface. Devrinol can control broadleaved weeds, grasses, and sedges. It is not so effective for control of established weeds. See p. 56 in the Chart Book for more info. Our SLN was recently amended to permit later (past budbreak but before bloom) split applications on established plantings. Please go to <https://ag.umass.edu/cranberry/services/special-pesticide-labels> for more information.

Evital use is not common these days, but it is a good (but expensive) PRE herbicide. It is very effective against sedges and rushes. Only one application can be made in a 12-month period. Be careful of (perhaps, avoid) use on poorly drained bogs. Stevens and McFarlin have been reported to be varieties sensitive to Evital applications. Spring applications are typically less than 80 lb/A.

QuinStar is taken up both roots and leaves and can control dodder, loosestrife, grasses, and other broadleaf weeds. **Check with your handler before using!! Restrictions can apply.** It can be applied both PRE and POST. Two applications are permitted but must be separated by 30 days. Please read p. 58 in the Chart Book for more info.

Callisto is a systemic herbicide that can be used PRE (or POST) for control of broadleaf weeds and some sedges and grasses. Since growers have been relying heavily on Callisto for the past many years, we recommend rotating AWAY from Callisto, for at least 1 year every few years, to minimize the risk of weed resistance to this herbicide. Please see p. 55 for more information.

Station News

By Hilary Sandler, Director

CONSTRUCTION UPDATE

I am pleased to announce that we are officially OPEN for business in all three of our buildings with our Temporary Certificate of Occupancy!! We hope to receive our full certificate soon. Please come by and see us!

Our diagnostic lab will be ready to receive samples soon. Until then, if you have samples that you would like us to look at, please call ahead of time.

We are looking forward to a great 2023 growing season!



BOGSIDE WORKSHOPS

The Cranberry Station has scheduled 2 bogside workshops one via Zoom and one in-person. Please see below for dates and how to participate.

- **Thursday, May 25, 2023, via Zoom 8:00-10:00 AM (1 credit)**
Nutrition and Fungicides and Weeds, Issues of the Day

To participate: Robyn 508-970-7635 or rmhardy@umass.edu

- **Thursday, June 22, 2023, in-person 8:00-10:00 AM (1 credit)**
Post-Herbicide Wipes and Fruit Rot and Nutrition, Issues of the Day

Location: State Bog, UMass Cranberry Station, 1 State Bog Road, East Wareham, MA

- **Thursday, September 7, 2023, in-person 10:00 – 12:00 PM (1 credit)**
Late Water and New Cultivars

Location: State Bog, UMass Cranberry Station, 1 State Bog Road, East Wareham, MA

PHONE NUMBERS

Our new phone system is now in place! You can now call **508-295-2212** and be connected to the person you would like to speak with. ***You can also dial faculty and staff directly.*** Our phone directory is located on our website www.umass.edu/cranberry/faculty-staff and listed below for your convenience:

CRANBERRY STATION FACULTY AND STAFF		
Anne	Averill	508-970-7629
Sandeep	Bhatti	508-970-7630
Krystal	DeMoranville	508-970-7631
Julian	Draz	508-970-7632
Dawna	Gauvin	508-970-7633
Katie	Ghantous	508-970-7634
Robyn	Hardy	508-970-7635
Peter	Jeranyama	508-970-7636
Rick	Leibe	413-230-1865
Giverson	Mupambi	508-970-7638
Hilary	Sandler	508-970-7641
Salisu	Sulley	508-970-7642
Marty	Sylvia	508-970-7643 508-265-6921(cell)
Leela	Uppala	508-970-7644
USDA/ARS		
Nicole	Henderson	508-219-6155
Casey	Kennedy	508-219-7120
Joey	Loffredo	508-219-7858
David	Millar	508-219-7859
Molly	Welsh	508-219-7742
Adrian	Wiegman	508-219-7736

Meeting Payment Form

TO ATTEND THE 2023 UMASS CRANBERRY PESTICIDE SAFETY MEETING:

Please complete the information below and return form as soon as possible. In-person seating will go fast due to room capacity allowance. Once your form and payment are received, a confirmation email will be sent to each person confirming your selection of attending the meeting via Zoom or in-person. The Zoom confirmation email will have a link to register online. **All** meeting attendees **MUST** pay to attend whether receiving credits or not. If you have any questions, contact Robyn Hardy at 508-970-7635 or rmhardy@umass.edu.

NAME: _____

COMPANY: _____

PHONE: _____ EMAIL(required): _____

ADDITIONAL ATTENDEES:

NAME: _____

PHONE: _____ EMAIL(required): _____

NAME: _____

PHONE: _____ EMAIL(required): _____

NAME: _____

PHONE: _____ EMAIL(required): _____

NAME: _____

PHONE: _____ EMAIL(required): _____

PLEASE CHECK:

Attend via Zoom (\$50) _____ number attending

Attend in-person (\$50) _____ number attending

Please make checks payable to **UMass** and return payment by **4/20/23** to:

**UMass Cranberry Station
1 State Bog Road
East Wareham, MA 02538**

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OFFICIAL BUSINESS