



November 18, 2020

**1 State Bog Road
East Wareham, MA 02538
508-295-2212**

ag.umass.edu/cranberry
Vol. 21:7

UMass Cranberry Management Update

We are planning our January 2021 Update Meeting as two morning Zoom sessions January 26th and January 27th from 7:30-11:00 AM. You will need to register online for each, and you will need to answer poll questions during the 8:00-10:00 AM sessions to be awarded pesticide credits. Payment will be processed separately - Cost will be \$20/each day, or discount of \$30 for both days. To attend, see page 5.

Preliminary Agenda

DAY ONE: Tuesday, January 26, 2021, 7:30-11:00 AM (2 credits, \$20)

- 7:30 Online check in starts
- 8:00 What's New? And Dodder and Kerb Updates – Hilary Sandler, Director
- 8:30 Pesticide and MDAR Updates – Marty Sylvia
- 9:00 Changing Trends in Insect Problems – Anne Averill
- 9:30 Optimizing Fruit Rot Management – Leela Uppala
- quick 5-minute stretch break----
- 10:05 PGR's – Fruit Color – Giverson Mupambi
- 10:20 Frost, Irrigation and Nitrogen Fertilizer – Peter Jeranyama
- 10:40 Water Quality and Tile Drainage – David Millar, UMass/USDA
- 10:50 Costs and Benefits of Renovation – Casey Kennedy, UMass/USDA

DAY TWO: Wednesday, January 27, 2021, 7:30-11:00 AM (2 credits, \$20)

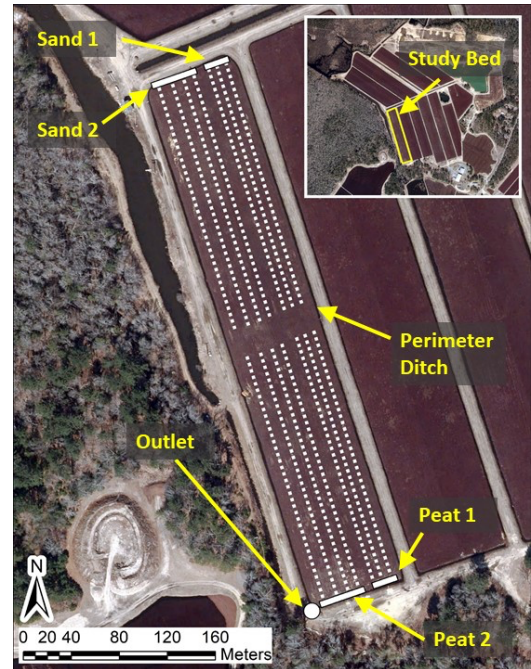
- 7:30 Online check in starts
- 8:00 Herbicide Research Update - Katie Ghanous
- 8:30 Weevil Problems and Scale Problems in 2020 - Marty Sylvia
- 9:00 Evaluation of Novel Fungicides - Leela Uppala
- 9:30 New Pest – Spotted Lanternfly – Tawny Simisky, UMass Extension
- quick 5-minute stretch break----
- 10:05 Cold Hardiness of Cranberry Buds – Amaya Atucha, UWI, Horticulture
- 10:20 Root Growth Dynamics in Cranberry – Amaya Atucha – UWI, Horticulture
- 10:50 PGR's – Fruit Set, New Project – Evaluate New Hybrids – Giverson Mupambi

USDA-ARS Research Highlight: *Understanding the effects of tile drainage on nutrient losses from cranberry farms.*

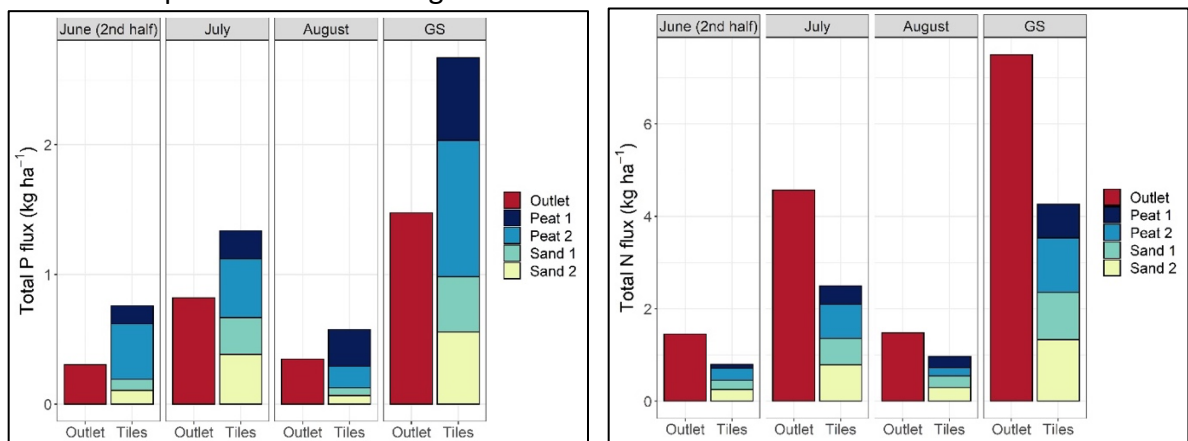
By Dave Millar (Agricultural Engineer) and Casey Kennedy (Hydrologist)

Tile drainage is a popular form of artificial drainage in Massachusetts cranberry farms. Although tiles may improve drainage, they may also enhance subsurface leaching of nitrogen (N) and phosphorus (P). To address this concern, we partnered with a local grower to better understand how tile drainage may influence soil N and P losses. The grower planted a 5-acre bed with 'Stevens' and installed 7 tiles along the length of the bed, which was extended to include portions of sandy (non-peat) parent soils. We instrumented 4 groups of tiles – 2 to the south (Peat 1 and 2) and 2 to the north (Sand 1 and 2) – and the outlet of the bed with flow meters and automatic water samplers through the growing season (mid-June through August).

We found that tile drainage exported two times more P than was measured at the outlet of the bed. These results indicated that a considerable amount of P was retained in ditches through deposition or binding to iron and aluminum in ditch sediment. Conversely, tile drainage exported about half of the N that was exported from the outlet of the bed, indicating that other sources of N are contributing to N losses from the bed. Results from this study highlight the importance of ditch management in mitigating nutrient losses, particularly for P. Specifically, regular cleaning of ditches may help to offset increases in P export from tile drainage.



Study site. Dashed white lines represent individual perforated PVC tile drains. Solid white rectangles represent solid PVC pipe that tile drains feed into, each equipped with a flow meter and sampled for TN and TP.



Total phosphorus (left) and nitrogen (right) loads. GS represents the growing season (6/15/14 – 8/31/14). Outlet represents total export from the bed; tiles cumulative export from all 7 tiles.

Help with Pesticide Certification Renewal!?

I am glad to help growers who need help getting through the gauntlet that is the EIPAS website to renew their pesticide certification. This year, 33% of all cranberry growers are being audited and must turn in their 12 credits. Even if you are not being audited, the website prompts you to enter your credits. Call, text or email if you need help, advice, lost paperwork, or help scanning. Marty 508-265-6921 or martys@umass.edu.

 ~Detach here~

2021 Cranberry Station Newsletter Mailing List Form

You MUST renew every year to stay on the mailing list!

≈Annual subscription is **FREE** when sent postal delivery for Massachusetts growers, cranberry researchers and IPM consultants.

≈Annual subscription sent postal delivery for out-of-state growers and industry personnel is \$15.

≈Annual subscription sent via email is **FREE** including out-of-state and/or industry personnel.

NAME: _____

COMPANY: _____

ADDRESS: _____

TOWN: _____

STATE: _____ ZIP: _____

PHONE: _____

EMAIL: _____

CHECK ONE

<input type="checkbox"/>	Owner
<input type="checkbox"/>	Employee
<input type="checkbox"/>	Researcher
<input type="checkbox"/>	Consultant
<input type="checkbox"/>	Industry
<input type="checkbox"/>	Private Sector

POSTAL DELIVERY _____ OR EMAIL _____ (please choose one)

All out-of-state growers and industry personnel who choose to receive their annual subscription by postal delivery, please include a check payable to **UMass** and return to:

UMass Cranberry Station
 1 State Bog Road
 East Wareham, MA 02358.

Need Pesticide Credit?

UMass Pesticide Education is offering one last pesticide credit meeting for 2020. Special Topics for Pesticide Applicators presented by Natalia Clifton, Tuesday November 24, 2020 (7:45-10:15). 2 credits available, \$40 pay online \$30 if by check.

Register online at this link (or google UMass Pesticide Education Program):

https://www.umass.edu/pested/recertification/current_workshops.htm

Cranberry Station News

- We appreciate everyone's patience and cooperation as we continue to navigate our way through the pandemic. Due to University guidelines and directives, the Station is still closed to the public. If you email or call us, we will do our best to accommodate your needs.
- We want to extend our sincere thanks to the A.D. Makepeace Company and to the Beaton's Cranberry Growers Service for the harvest of State Bog (ADM) and Rocky Pond (CGS). We realize this takes extra time, effort and labor to pull off and we are extremely grateful.
- The Oversight Committee for the Station will be holding its fall meeting on November 20 at 10 AM. All are welcome to attend this virtual meeting where Station scientists and Dr. Cathy Neto from UM-Dartmouth make short presentations to highlight their research and accomplishments during the 2020 season. If you would like to attend this zoom meeting, please contact me or Robyn Hardy at rmhardy@umass.edu or 508-295-2212 x10 to get the link. After some editing, we will post our presentations to our YouTube channel.

Stay safe,



Meeting Payment Form

To sign up for the UMass Cranberry Management Update meeting please complete the information below. Once your payment is received, a confirmation email will be sent with a link to register online. **All** meeting attendees **MUST** pay to register whether receiving credits or not.

NAME: _____

COMPANY: _____

PHONE: _____

EMAIL (required): _____

PLEASE CHECK:

_____ **DAY ONE:** Tuesday, January 26, 2020 (\$20)

_____ **DAY TWO:** Wednesday, January 27, 2020 (\$20)

_____ **BOTH:** (\$30)

ADDITIONAL ATTENDEES:

NAME: _____

PHONE: _____

EMAIL (required): _____

NAME: _____

PHONE: _____

EMAIL (required): _____

NAME: _____

PHONE: _____

EMAIL (required): _____

NAME: _____

PHONE: _____

EMAIL (required): _____

Please make checks payable to **UMass** and return payment by 1/22/21 to:

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

If you have any questions, contact Robyn Hardy 508-295-2212 x10 or rmhardy@umass.edu.



**CRANBERRY STATION
NEWSLETTER**

Inside this issue:

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- **Newsletter sign up**
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1 State Bog Road
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OFFICIAL BUSINESS