



**December 31, 2019**

1 State Bog Road  
PO Box 569  
East Wareham, MA 02538  
508-295-2212  
[ag.umass.edu/cranberry](http://ag.umass.edu/cranberry)  
Vol. 20:7

## *UMass Cranberry Management Update*

Thursday, January 30, 2020

7:30 AM – 4:00 PM

**Rosebrook Event Center**

50 Rosebrook Place, Wareham, MA

***Meeting Registration Form on page 7***

### **Tentative Schedule of Events (4 contact hours)**

7:30 Registration (with coffee)

8:00 What's New? – Hilary Sandler, Director

8:10 Optimizing Current Cultural Practices on Fruit Rot – Sai Sree Uppala

8:35 Evaluation of Novel Fungicides for Fruit Rot Management – Sai Sree Uppala

9:00 Herbicide Research Update – Katie Ghantous

9:25 Fruit Quality Options – Giverson Mupambi

9:50 Solar Panels – Giverson Mupambi

**10:00 COFFEE BREAK**

10:30 Cranberry Breeding and New Options – Dr. Juan Zalapa, USDA, Horticulture

11:15 Frost, Irrigation and Nitrogen Fertilizer – Peter Jeranyama

11:40 A Plan to Sustain Cranberry Production and Improve Water Quality – Casey Kennedy, USDA

**12:00 LUNCH BREAK (on your own)**

1:15 Climate Change Trends and Their Effects on Plant Communities of Cape Cod – Stephen Smith, CCNS

1:45 Weed Management – Hilary Sandler

2:05 Reviewing Pesticide Labels – Hilary Sandler

2:25 Pesticide Rules and Regs of the Day – Marty Sylvia

2:40 Scale Update and Bee Status – Anne Averill

3:15 Avaunt and Weevil Update – Marty Sylvia

3:30 Wrap-up and Paperwork

## *To Flood or Not to Flood? That is the Question...*

Managing a winter flood is a mix of art, science and experience. You can start a flood anytime now IF winterkill conditions exist: root zone is frozen to a depth of 4 inches, air temperature is below freezing, and strong winds (10 mph or greater) occur. It is likely that 2-3 days with temperatures below 20°F will be enough to freeze the soil. That being said, experience and observations are that the LEAST amount of time you hold a winter flood, the better for your crop. On the other hand, bogs that cannot hold a winter flood can be more susceptible to pest problems like yellow-headed fireworm.

Injury can occur with a flood if the oxygen levels fall below 4 mg/liter (or ppm). The healthy range is 10+ mg/liter. Usually, there is no need to worry about low oxygen if the flood is liquid. If your water source is clear/clean, oxygen levels should be adequate. However, if your bog is way out of grade, the deeper waters (even if clean) may not provide enough oxygen to the plants and you should monitor oxygen levels here even if the flood is not frozen. Typically, oxygen deficiency occurs when the ice is covered by snow or if the ice forms or becomes cloudy. The conventional remedy to low oxygen is to carefully remove the water from under the ice; this allows air to enter in the cracks and restore oxygen levels.

If you have a flood on and if we get a warm spell in January or February, we usually advise NOT to remove the flood. The water will keep the vines cooler during the warm spell, which is typically more advantageous for most commercial situations. If the vines have accrued adequate chilling hours (which could happen by sometime in January) the only thing holding them back is warm temperatures. We will still have many cold days in February and March and you do not want your buds to start pushing prematurely. If you have any questions or concerns, please contact Hilary (x21) or Peter (x29).

### **CRANBERRY STATION NEWS**

Happy 2020!

**Pesticide Applicator License Exam Prep Training Workshop** will be held on February 13<sup>th</sup> and 14<sup>th</sup> from 7:30 AM to 5:00 PM in the Cranberry Station Library. If you have any questions regarding these workshops or for more information please contact the Pesticide Education office, University of Massachusetts Extension at 413-545-1044. To register online please visit:

[https://www.umass.edu/pested/training\\_workshops/registration\\_form13.htm](https://www.umass.edu/pested/training_workshops/registration_form13.htm)



**Hilary Sandler, Station Director**

## *Grower Survey USDA Hydrology*

In light of recent funding to support farm renovations, Casey Kennedy, our USDA Hydrologist, would like the growers to answer a few simple questions so that he may better understand the needs of the industry. USDA plans to use this information to conduct new research that supports farm renovations in Massachusetts.

**1. In the absence of any state or federal financial support, which of the following renovation projects are you actively pursuing or planning to pursue? (circle all that apply)**

- A. New hybrid variety plantings in existing bogs
  - B. Construction of new upland bogs from scratch
  - C. Other renovations excluding new plantings (please describe)
- 

- D. Not currently interested in renovations
- E. Not able to renovate but would like to

**2. Were you to receive significant financial support to renovate your cranberry bogs, which of the following projects would you be most interested in? (circle one)**

- A. New hybrid variety plantings in existing bogs
  - B. Construction of new upland bogs from scratch
  - C. Other renovations excluding new plantings (please describe)
- 

**3. Which hybrid varieties are you most interested in planting?**

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**4. Besides planting new varieties, which of the following farm renovations would have the biggest impact on production efficiency and yields in your bogs? (rank the top 3-to-5)**

- |  |                                      |
|--|--------------------------------------|
| _____ Irrigation system upgrade              | _____ Pump system upgrade            |
| _____ Constructing a tailwater recovery pond | _____ Constructing a bypass canal    |
| _____ Installation of tile drainage          | _____ Squaring off perimeter of bogs |
| _____ Levelling bog surface                  | _____ Other (please describe)        |

5. Do you own any marginal cranberry bog sections which are irregular in shape, challenging to manage, and/or low-producing relative to the rest of your acreage?

Yes

No

6. Which of the following best describes your plan for these marginal sections in the next 5-10 years?

A. Renovate and improve these sections

B. Leave as-is but continue harvesting

C. Retire sections and leave fallow

D. Seek sale to a 3<sup>rd</sup> party (another grower, conservation easement, solar panels, etc.)

7. Would you be willing to share details of your renovation projects with USDA (e.g., construction costs, drainage design, varieties planted, sand depths, etc.)?

Yes

No

If Yes, please include name and contact info:

\_\_\_\_\_

\_\_\_\_\_

8. Roughly how much granular and liquid fertilizer do you apply to your bogs?

\_\_\_\_\_ granular (% of total fertilizer amount)

\_\_\_\_\_ liquid (% of total fertilizer amount)

Thank you for taking a moment to fill out and submit this survey. **Please mail back to: UMass Cranberry Station, PO Box 569, East Wareham, MA 02538**

## Meeting Registration Form

### UMass Cranberry Management Update

Thursday, January 30, 2020  
7:30 AM – 4:00 PM  
**Rosebrook Event Center**  
50 Rosebrook Place, Wareham, MA

**\$35.00 per person\*\***  
**Must be postmarked by 1/18/20**

After 1/18/20 you are considered a “walk-in”: cost will be **\$50.00 per person**. Please contact the Station to be added to the “walk-in” list.

Please make checks payable to **UMass** and return payment to:

**UMass Cranberry Station**  
**PO Box 569**  
**East Wareham, MA 02538**

**\*Remember to bring your**  
**Photo ID and Pesticide Number**

**PLEASE PRINT**

**ALL** meeting attendees **MUST** register and pay  
(whether receiving credits or not)

**Registration Fee is non-refundable after 1/18/20**

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

EMAIL: \_\_\_\_\_

PHONE: \_\_\_\_\_

ADDITIONAL ATTENDEES:


\*\*To keep our registration fee affordable, the Station will not be taking credit cards as a form of payment for this meeting.

## 2020 Cranberry Station Newsletter Mailing List Form

≈ 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: \_\_\_\_\_

POSTAL DELIVERY \_\_\_\_\_ OR EMAIL \_\_\_\_\_ (please choose one)

**CHECK ONE**

- Owner
- Employee
- Researcher
- Consultant
- Industry
- Private Sector

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, PO Box 569, East Wareham, MA 02538.



**CRANBERRY STATION  
NEWSLETTER**

**Inside this issue:**

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UMass Cranberry Station  
PO Box 569  
East Wareham, MA 02358  
OFFICIAL BUSINESS