



Cranberry Station Newsletter

NOVEMBER 2006

UMASS CRANBERRY STATION

1 STATE BOG ROAD

P.O. Box 569

EAST WAREHAM, MA 02538

<http://www.umass.edu/cranberry>

TIPS FOR REDUCING VINE STRESS DURING HARVEST FLOODS

Harvest flooding tends to be stressful for cranberry vines. Our research has repeatedly shown that fall flooding is often damaging to the vine. Here are some tips to reduce vine stress during your harvest floods:

1. Apply the flood as late in the season as possible

Floods applied earlier in the harvest season have a much more negative impact on vines than floods applied later in the season. For example, a 5-day flood on Howes in the first week of October has decreased carbohydrate concentration by as much as 38%, while a 12-day flood applied in early November has had no negative impact at all on the vines. We've determined similar patterns in both Early Black and Stevens when comparing early fall floods to late fall floods. Therefore if possible you should flood your bogs later in the season.

2. Keep the flood as short as possible

Longer floods have more opportunity to damage the vines than do shorter floods. In both Stevens and Early Black, we've noted that the decrease in carbohydrate concentration in the uprights is essentially a straight line. Therefore, the longer the flood, the more carbohydrates are used. Particularly if you are flooding early in the season (September or early October), try to move water on and off of the bog as quickly as possible.

3. Maintain a cool water temperature

The respiration rate of the vines (i.e., the speed at which the vine uses its energy reserves) increases as

the water temperature increases. This means that when the water temperature is high (ex. 68°F), the vines use about twice as much energy to survive than they do if the water is 50°F. There are two good options for keeping flood water cool:

- 1) Increase the volume of water on the bog, as a greater volume of water won't warm up as quickly compared to a smaller volume.
- 2) Periodically recharge the flood, if possible, from the water source.

Justine Vanden Heuvel
Physiologist

GOOD BYE !!!

For those of you who haven't heard, I'm leaving the Cranberry Station in early December to take a new position at Cornell University working with grapes. I've really enjoyed my time here and hope that my research has been helpful to the industry. Thanks to CCCGA and OSC for their financial support of my research program, and thanks to all of the growers who have cooperated with me on my projects. I'll be back at a later Cranberry Station meeting to provide you with some final details from my research, but in the meantime if I had to summarize my four years of research into one comment, it would be this: Keep all of your floods cool and your fall floods short!

Justine Vanden Heuvel

2007 UMass Extension Green Directory Now Available

The Green Directory is a comprehensive guide listing educational resources for Massachusetts Agriculture and Landscape industry professionals.

The directory includes the following:

- Contact information for UMass Extension Agriculture and Landscape Specialists and Faculty
- Upcoming UMass Extension conferences, seminars and workshops
- UMass Plant Diagnostic Lab and Lyme Disease Diagnostic testing sample submission information for insect, disease and cultural problems
- UMass Soil and Tissue Testing Lab sample submission information
- Pesticide License information, including test dates, training workshops, and how to get a pesticide license
- Phone resources to refer home gardener questions
- Extension newsletters, web sites and publications
- Frequently Used Phone Numbers related to agriculture and the green industries

To receive a hard copy, send your mailing address:
by Email to: greeninfo@umext.umass.edu;
Fax at 413-577-1620;
or Call 413-545-0895

Also available online at: www.umass.edu/agland

\$7.00 each, while orders of more than 50 copies cost \$6.00 each. Shipping and handling charges apply. For an order form and chart of shipping charges, or to order online, go to:
www.umassgardencalendar.org

DR. CAROLYN DEMORANVILLE
STATION DIRECTOR

GRANT WORKSHOP

**Grant Opportunities For SE Mass Ag
Businesses**

December 7, 2006 8:30 am

**Best Western Canal Club Conference Facility
100 Trowbridge Road, Bourne
Cost \$10 — Pre-register by December 4**

This half-day workshop, co-sponsored by Barnstable County Resource Development Office, Cape Cod Cooperative Extension and SEMAP, will provide ag business operators with information on how to write a grant along with an introduction to important grant programs offered by MA Dept. of Ag Resources and USDA.

For more information:

Bill Clark 508-375-6701
wclark@umext.umass.edu

or

Sarah Kelley 508-295-2212 x50
skelley@umassd.edu

**CRANBERRY MANAGEMENT UPDATE
RADISSON HOTEL PLYMOUTH HARBOR
Wednesday - Jan. 31, 2007
7:30 AM - 4:00 PM**

This educational program is a streamlined session with "how-to" information for growing cranberries effectively and economically by implementing the latest research.

This meeting will offer an opportunity for the Cranberry Station faculty and staff to present areas of research that have reached the grower-implementation stage. \$20.00 charge includes a morning coffee, a mid-morning coffee break and handouts.

4 contact hours are being requested for Pesticide recertification credits for the cranberry category.

**SCHEDULE TO BE ANNOUNCED
SIGN-UP PAGE 3**

CRANBERRY STATION NEWSLETTER & REVISED 2007 CHART BOOK RENEWAL

YOU MUST RETURN THIS FORM EACH YEAR TO STAY ON OUR MAILING LIST!!

The Cranberry Station Newsletter is provided **free to all MA growers, cranberry researchers and IPM consultants nationwide.** **Annual subscription fee of \$15** is required for **out-of-state growers and industry personnel.** All persons wishing to receive this newsletter (whether paying or not) must complete and return this renewal form to maintain a subscription. Include a check (made out to UMass) with the renewal form if you are out-of-state or are industry personnel. **All subscriptions sent by email, including out-of-state and or industry personnel are FREE .**

**Everyone must respond to this notice by Dec. 31, 2006
or your name will be taken off of our mailing list for 2007!**

NAME _____
 COMPANY _____
 ADDRESS _____
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 PHONE _____
 EMAIL: _____
 No. of acres: _____

Please check one:
 Owner _____
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 Consultant _____
 Industry _____
 Private sector _____

Return to: UMass Cranberry Station
 P.O. Box 569
 East Wareham, MA 02538

Change of address? (Y or N) _____

Please Choose One!!! Postal delivery _____ or Email _____

**Registration Form for Cranberry Management Update
 Wednesday, January 31, 2007 7:30 AM - 4 PM
 Radisson Hotel Plymouth Harbor**

Please register for the meeting using this form.

COMPANY _____

CONTACT _____

PHONE _____

NAMES OF ATTENDEES _____

Attach additional sheets as necessary.

**Return with payment by:
 January 24th, 2007**

Include check made out to:
UMASS
 In the amount of:
\$20 per person.

Return to:
**UMass Cranberry Station
 P.O. Box 569
 East Wareham, MA 02538**

2007 UMass Garden Calendar Available Now!

University of Massachusetts Extension announces the availability of its ever popular Garden Calendar for 2007. The theme for the 2007 UMass Garden Calendar is Choosing the Right Plants.

Consumer surveys have shown that most households spend very little time planning their garden and gardening activities including plant purchases. Yet, adding plants to the garden should be based on more than whimsy. They should be carefully chosen based on explicit needs, specific habitat characteristics, and plant growth requirements.

Plants are rarely cheap these days. It takes a lot of resources to grow good quality plants and that effort and cost is reflected in the marketplace. So, gardeners who are going to spend much money on top quality plants will want to take the time to do it right.

The 2007 UMass Garden Calendar presents a selection of plants chosen by the UMass Landscape, Nursery and Urban Forestry staff for foliar color, seasonal effectiveness, and adaptability to specific growing environments. Each image is accompanied by a brief description to help understand these plant choices.

For more details, go to

www.umassgardencalendar.org

The calendar costs \$11.00 for orders of 9 copies or less. Bulk orders of 10-50 copies are available at \$7.00 each, while orders of more than 50 copies cost \$6.00 each. Shipping and handling charges apply. For an order form and chart of shipping charges, or to order online, go to www.umassgardencalendar.org

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