

Integrated
Cranberry Crop
Management for
Wisconsin



Cranberry Crop Management Journal

Volume XXIX • Issue X

October 9, 2016

IN THIS ISSUE:

Worker Protection Standards Manual.....	1
Cranberry Survey Requests	2
Degree-Day Maps	3
Grower Updates	4

HOW TO COMPLY WITH THE WORKER PROTECTION STANDARDS FOR AGRICULTURAL PESTICIDES

The new “How to Comply with the Worker Protection Standards for Agricultural Pesticides” is now available on the Pesticide Educational Resources Collaborative website.

This “How to Comply” manual includes:

- Details to help you determine if the WPS requirements apply to you.
- Information on how to comply with the WPS requirements, including exemptions, exceptions, restrictions, options, and examples.
- “Quick Reference Guide”- a list of the basic requirements (excluding exemptions, exceptions, etc.).
- New or revised definitions that may affect your WPS responsibilities.
- Explanations to help you better understand the WPS requirements and how they may apply to you.

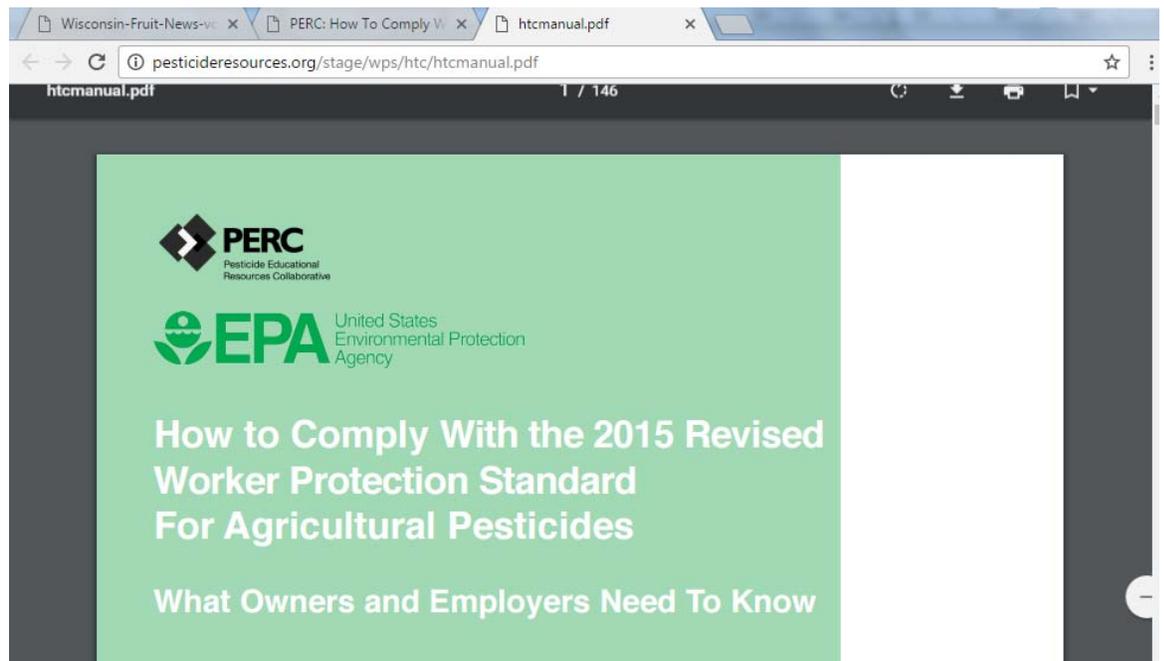
Please visit <http://pesticideresources.org/stage/wps/htc/> to find the manual.

ADDRESS CORRECTION

Contact us if you have any address corrections, additions, or deletions.

If you prefer to receive the CCMJ newsletter by e-mail, please call 715-421-8440 or e-mail mlippert@co.wood.wi.us

Editor:
MATTHEW LIPPERT
Agriculture Agent
Wood County UW-Extension
400 Market Street
Wisconsin Rapids, WI 54494
(715) 421-8440
mlippert@co.wood.wi.us



CRANBERRY AND BLUEBERRY SURVEY SEEKS INDUSTRY INPUT

*Amaya Atucha, UW Extension Fruit Specialist
Megan Bame, Plants for Human Health Institute, NCSU*

A national team of cranberry and blueberry scientists from nine institutions around the country, are working together for the first time to establish research priorities that will help accelerate the development of improved cultivars by selecting characteristics that are relevant to the growers and the industry. Dr. Amaya Atucha and Dr. Juan Zalapa from UW-Madison are part of the team that is led by Dr. Massimo Iorizzo from North Carolina State University.



United States Department of Agriculture
National Institute of Food and Agriculture

The project was recently funded by a USDA Specialty Crop Research Initiative Planning Grant, that will allow the team to collect information on the most desirable characteristics for future cranberry and blueberry breeding by distributing a survey to blueberry and cranberry stakeholders, including growers, nurseries and processing operations. The survey results will help lead the discussion among cranberry and blueberry researchers and stakeholders when they convene in 2017 to discuss and plan for the submission of a USDA Specialty Crop Research Initiative grant to fund research projects related to breeding of new cultivars.

This is a unique opportunity to share with breeders *your* challenges. The research team has identified several priorities as potential target attributes for breeders to consider. These include, but are not limited to: insect and disease management, improved pollination, frost tolerance, heat resistance and fruit quality. While these generalities were easy to identify, input from the *blueberry and cranberry* community is essential to help bring the specific areas of concern into focus, such as which diseases are most devastating, or what fruit quality attributes are most desirable?

The survey will be distributed at the 2017 Wisconsin Cranberry School. Thank you, in advance, for completing the survey and playing a vital role in the future breeding efforts of cranberry. We look forward to working together to advance the industry through targeted breeding efforts that can help solve industry problems.

WANT TO IMPROVE YOUR PRODUCTION AND SAVE MONEY?

*Jed Colquhoun
Horticulture, Weed Management Specialist, UW- Extension*

Most importantly, I hope that you're enjoying a safe and productive harvest season. The anticipation of seeing how well all of the hard work and tough decisions pay off in terms of yield is likely the most exciting part of the growing season.

But how do we really know what we did that led to the harvest we got? Was it the weather, the fertilizer rate and timing, or maybe pest protection played the biggest role? In challenging economic times, are there crop inputs that we could cut back without affecting berry yield and quality?

Until now, we've just used our observations over the seasons and conversations with neighbors to tweak our production decisions and "give it our best shot again next year". **We need your help trying a new solution that could improve production and save you money!**

This fall and winter we'll be asking growers to pilot a "big data" project, where we take as many data points as we can get about how you produce your cranberries and relate them to crop yield and quality. You're now collecting the final data points we need as you harvest. **The power in such a project depends on a high participation rate – the more data that we have, the more confident we are in the results.**

We're asking for pilot project participants. With valuable input and review from a few of your grower neighbors, we've developed a short and simple spreadsheet tool to collect the data as painlessly as possible. Most importantly,

CONTINUED

all data will be held anonymously – I’ll send the spreadsheet on a thumb drive with a return envelope for you to send it back. All data will then be copied into a single spreadsheet for analysis. After the pilot, our goal is to streamline this data collection with other tools you use to keep electronic records.

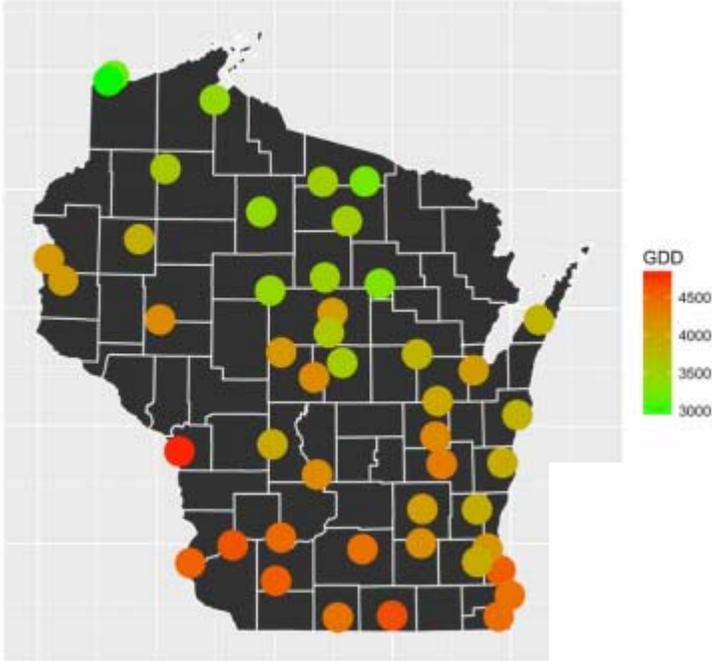
Similar projects have been implemented in other agricultural commodities, such as by the egg producers, with great success. They’ve been able to pinpoint specific inputs and decisions that optimize production and save money, and the more data they get over time, the more refined their production gets. With your help, we’re looking for similar success in cranberries!

We’d be extremely grateful for your participation. If you’re interested in being a pilot participant, please email me at colquhoun@wisc.edu.

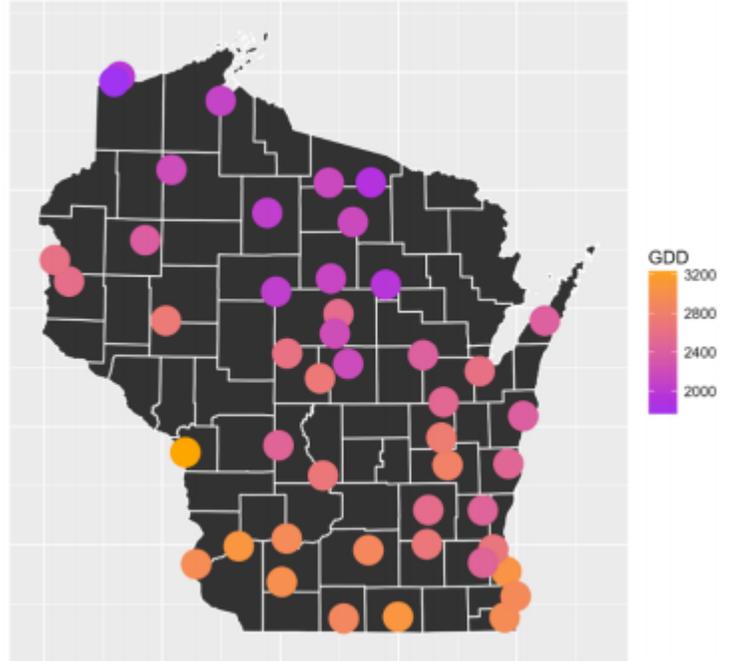
CRANBERRY DEGREE-DAY MAP & UPDATE AS OF SEPTMBER 30TH

Elissa Chasen and Shawn Steffan, USDA-ARS and UW Entomology

Cranberry Growing Degree Days: Sept 30, 2016



Sparganothis Degree Days: Sept 30, 2016



Here we are, after the first week of fall, and the last of the cranberry degree-day updates for 2016. I hope everyone has had a good growing season. The maps below show degree-day accumulations for cranberry plants and Sparganothis fruitworm across Wisconsin up through September 30, 2016. Temperature thresholds used for these calculations are 41 and 85 °F for the plant, and 50 and 86 °F for Sparganothis .

Plant DDs throughout WI range from 2,977-4,872. The central WI growing region has accumulated near 4,200 DDs, while the northern WI growing region has accumulated around 3,500 DDs. Throughout WI, Sparganothis degree-days range from 1,743-3,278 DD. The table below allows for comparison of degree-days over the last three years.

	Cranberry Growing Degree Days			Sparganothis Degree Days		
	2014	2015	2016	2014	2015	2016
Central WI (Wisconsin Rapids)	3,770	4,183	4,210	2,380	2,674	2,711
Northern WI (Minocqua)	3,242	3,474	3,538	1,955	2,079	2,143

GROWER UPDATES

Adams 73 Cranberry

Harvest has begun at Adams 73. Yields are running close to what we expected so far. We are finding some rot in the early varieties, which is never fun. We are running slower than usual to deal with the rot in some of the beds. Staying patient when dealing with rot is always a struggle.

By next week we should be working on our Stevens beds which appear to

have better quality fruit so far. A couple chilly nights in the

forecasts should enhance the color on our Stevens and keep the berry pump running until we finish all of our acres.

Good luck with harvest, and stay safe!

Jeff Hopkins

Adams 73 Cranberry

Habelman Bros. Tunnel City

I hope everyone is having a good harvest. It has been a very warm fall this year with hardly any frost watch. We are at 4300 growing degree days. This makes us a week ahead of last year. The soil temperature is at 58 degrees. We will be starting harvest on October 10th. Good luck to everyone finishing the year safely and successfully.

ON WISCONSIN!

Steve Schoonover
Team Habelman

Thank You!

This is our last issue for 2016. A special thank you to Jeff and Steve for providing grower updates this season and to all of our regular contributors. I hope that you have a successful harvest and look forward to seeing you at our Winter Cranberry School January 18-19th.

Matt Lippert

UW-Extension Wood County

UW-Extension Cranberry Specialists

Jed Colquhoun

UWEX Fruit Crops Weed Scientist

1575 Linden Drive
Madison, WI 53706
(608) 852-4513
jed.colquhoun@ces.uwex.edu

Patty McManus

UWEX Fruit Crops Specialist & Plant Pathologist

319B Russell Labs
1630 Linden Drive
Madison WI 53706
(608) 265-2047
pmcmanus@wisc.edu

Christelle Guédot

*Fruit Crops Entomologist/
Pollination Ecologist*

Department of Entomology
546 Russell Laboratories
1630 Linden Drive
Madison WI 53706
(608) 262-0899
guedot@wisc.edu

Amaya Atucha

Extension Fruit Crop Specialist

UW-Madison
297 Horticulture Building
1575 Linden Drive
Madison, WI 53706
(608) 262-6452
atucha@wisc.edu

Shawn Steffan

Research Entomologist

USDA-ARS
UW Madison, Department of
Entomology
1630 Linden Drive
Madison, WI 53706-1598
(608) 262-1598
steffan2@wisc.edu

Juan E. Zalapa

Research Geneticist

299 Horticulture
1575 Linden Drive
USDA-ARS Vegetable Crops
Research
Madison, WI 53706
(608) 890-3997
jezalapa@wisc.edu

References to products in this publication are for your convenience and are not an endorsement of one product over similar products. You are responsible for using pesticides according to the manufacturer's current label directions. Follow directions exactly to protect the environment and people from pesticide exposure. Failure to do so violates the law.