

Cranberry Crop Management Journal

IN THIS ISSUE:

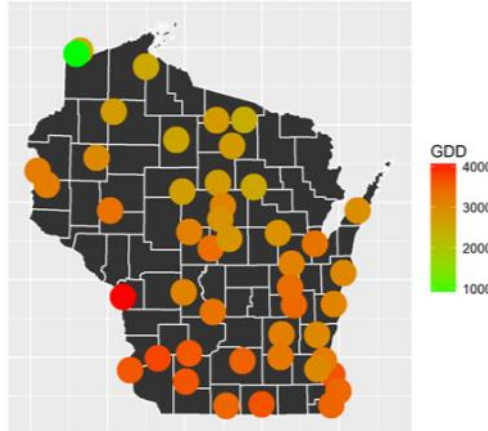
- Degree Days..... 1
- Observations from the field..... 2
- Grower Updates3

CRANBERRY PLANT AND PEST DEGREE DAYS– SEPT 5, 2017

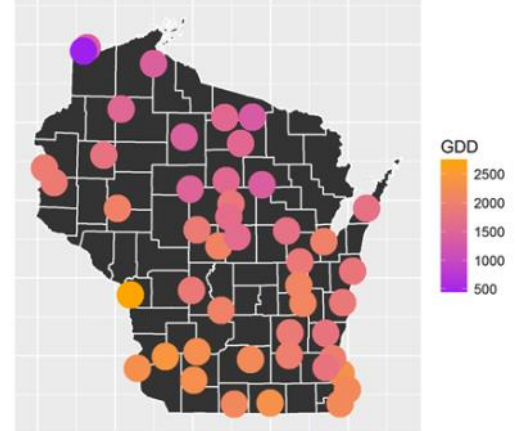
by Elissa Chasen and Shawn Steffan
USDA-ARS and UW Entomology

See the maps below for the degree-days of the cranberry plant and associated pests. Developmental thresholds for each species are: cranberry plant - 41 and 85°F; sparganthis fruitworm - 50 and 86°F; and cranberry fruitworm - 44 and 87°F. Interactive maps are posted online. The interactive feature allows you to click on the map locations, prompting a pop-up that names the location and gives exact degree-days. These are available through the Steffan lab website (<http://labs.russell.wisc.edu/steffan/cranberry-growing-degree-days/>). Once on the website, follow the link to the interactive maps.

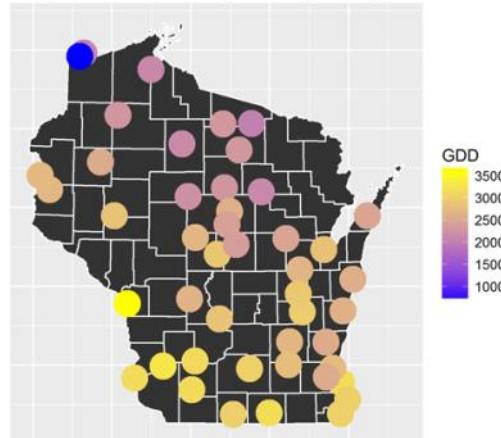
Cranberry Growing Degree Days: Sept 5, 2017



Sparganthis Degree Days: Sept 5, 2017



Cranberry Fruitworm Degree Days: Sept 5, 2017



Event	DDs from March 1 (approximate)
Flight initiation	595.7
First eggs laid	681.0
Peak flight	884.12
First egg hatched*	895.4
End of egg laying	1,634
Last egg hatched*	1,890

* Egg hatch window: 895 – 1,890 DDs

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	Sept. 5			Cranberry DDs			Sparg DDs			CFW DDs		
	2015	2016	2017	2015	2016	2017	2015	2016	2017	2015	2016	2017
Northern WI (Minocqua)	2971.8	3083.2	2734.5	1779.4	1895.8	1570.7	2551.7	2666.6	2321.7			
Central WI (Wisconsin Rapids)	3583.3	3686.3	3366.6	2287	2400.4	2095.9	3133.1	3234.1	2921.3			

OBSERVATIONS FROM THE FIELD

by Jayne Sojka
Lady Bug, IPM LLC

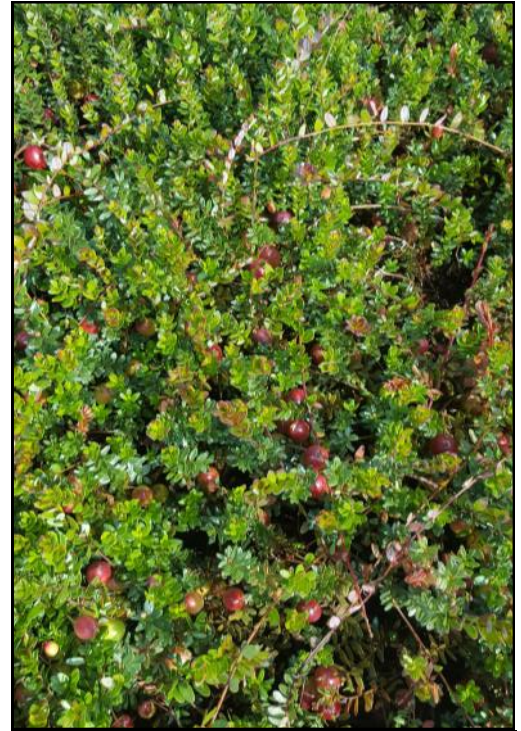
September 1st -I observed early dormancy, with brown seeds showing within the fruit. I see more than just a blush to the sunny side -up on the fruit today. The vines are starting to show a purple look and buds are strong with a hint of red, as in over-wintering. I heard of reports of frost last night as the sky was clear after a week of spotty rain showers.

Growers have finalized all the weed wiping control measures as Pre-harvest intervals are closing in on us. Some challenging weeds like Alsike and Hop clover are still growing well. I remind growers that after-harvest Stinger, or the generic form SPUR, does a good job on these weeds. You need two days of 50 degrees before and three days after the application to get the BEST results. Try getting rid of this weed challenge after harvest this season and see for yourself the positive results.

While roundup wiping is fresh on our minds, let us reflect on the control we saw of the fall weed challenges on your own marsh. Some growers did NOT have luck at all while others fried the weeds. WHY? First let's look at your water pH. Did you know that optimum pH is 5.5 for Round-up? What are you using as a rate of round- up to water? - 4/1? Are you using a sticker? - Silicone or Crop Oil? Are you using a walk-behind applicator or are you using a hock stick? Are you tickling the weed or are you drowning the weed? Are you looking at ideal weather patterns before and after application? Are the weeds wet or dry when you apply the chemical? All these factors are influential. We saw two different scenarios on one marsh and started asking questions. We discovered that with a walk-behind applicator, it is important to go slow and get good coverage. Heat seems to control weeds better than a cool stretch of weather. The pH is critical as well as the surfactant against specific weeds. It is a GREAT deal of work wiping weeds, please remember in 2018 to use as many "tricks" to get control of the weeds so that you and your support staff can see the results of all that labor.

Here's hoping that you have a SAFE and SUCCESSFUL harvest season.

Jayne Irene Sojka, Lady Bug IPM, LLC



A hint of dormancy



Hop Clover



Round-up with crop oil



Alsike clover



Clover and Butter & Eggs

GROWER UPDATES

DUBAY CRANBERRY

Activities have slowed down a bit on the marsh these last two weeks. Fertilizing has finished and the boom has been cleaned and prepped for storage. Just waiting to see if flea beetle numbers will become a problem before putting the spray equipment away for the year. We are going over all the harvest equipment and getting things ready. Last week's cold spell sure started coloring up the berries. Would be nice to have a little warm up to help size up the berries but we'll just have to deal with what mother nature gives us.

Dave Hansen

SARATOGA CRANBERRY COMPANY

Last week we watched the solar eclipse on Monday and frost on Thursday. This week getting ready for harvest is the main goal. IPM scouting is done for the year, the berry pump is out of storage, replacement cranberry boom is ordered, and we are hauling rock onto the dams. Soil and tissue samples are being gathered and we are thinking on taking a color sample of the Crimson Queens at the end of the week. As of 8/28/2017 we have accumulated 3040 growing degree days.

Russell Sawyer

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