



Finger Lakes Vineyard Update

In The Vineyard

Hans Walter-Peterson



We have arrived at bloom in earlier season varieties like Baco Noir, Marquette, Geneva Red, Seyval and Concord. Cayuga White is in the early stages of bloom at the Teaching Vineyard as well, but beyond a single florette here and there, our vinifera varieties were still waiting for flowers to open up. Those vineyards with a mix of varieties will

probably be seeing bloom stretch out over a couple of weeks or more where there is a significant number of secondary shoots pushing out as a result of winter injury, complicating pre- and post-bloom spray programs.

We continue to see more injury in certain blocks, certain varieties, in certain locations after two successive harsh winters. Some blocks that were highly productive last year (primarily vinifera varieties) are showing more signs of injury this year, or even completely dead canes and trunks, especially in low-lying spots within vineyards. In many cases, there is a decent number of suckers emerging from above graft unions that can be retrained to form new trunks next year. Our initial observations about erratic budbreak and growth centered around Riesling, but we are also seeing similar levels of injury in varieties like Lemberger, Grüner Veltliner and Merlot, as well as some Pinot gris spots as well. Hybrids are better off overall, but some blocks with low-lying sections are also showing little growth at this point.

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FLGP Tailgate Meeting

June 16, 2015

Dr. Glen Creasy—Save the Date

July 1, 2015

Shaulis Symposium

July 23 -26, 2015

Second International Workshop

July 26-29, 2015

Vineyard Mechanization and Grape & Wine Quality

In The Vineyard (continued from page 1)

Here's the main takeaway about injury this season so far – “It Depends”. Not all vinifera blocks, or any particular variety, have suffered major damage across the board, but damage is significant in spots. Hybrids and natives have fared well overall, but there are a few places where there is some more significant injury. Because damage is heavier than usual in one vineyard, do not assume that conditions are similar in other locations. All in all, I think it's safe to say that we are seeing more injury to buds, canes and trunks this year than we did last year, particularly in the case of *vinifera* varieties, but as in most situations like this, we cannot make generalizations about how a particular location or variety did in the Finger Lakes this year.

We recorded almost 2.5” of rain on Monday and Tuesday this week at the Teaching Vineyard, while Geneva recorded about 1” those days. For varieties that are going through bloom right now, this may mean reduced levels of pollination and fruit set, but growers will need to make those evaluations themselves. We had fairly poor conditions (cool and wet) during bloom and set in 2013, and some vineyards ended up with much larger crops than normal, so it can be difficult sometimes to predict just how much influence weather during set will have on final yields. Growers will also need to be thinking about incorporating botrytis control materials in their post-bloom sprays under these kinds of conditions.

IPM

Hans Walter-Peterson

The wet weather the past few days increases the risk of early botrytis infections getting a hold in early clusters. For varieties that are going through bloom now, or that are susceptible to botrytis infections including the Pinot family, Riesling, Chardonnay, and Vignoles, adding a botrytis material in the next spray may not be a bad idea to consider. Recall that under cool and wet conditions during bloom in 2013, we were finding early botrytis infections on young clusters shortly after bloom. Growers should be looking for these infections this year given the recent weather, or if wet conditions persist into the later bloom period over the next week or two.

Conditions over the past several days have also been conducive to phomopsis, powdery mildew and black rot development as well. Under these kinds of conditions, it is important to shorten spray intervals closer to 10 days or so, depending on your specific conditions and disease pressure. Be sure to visit the NEWA Grape Disease Models (<http://newa.cornell.edu/index.php?page=grape-diseases>) to get information on infection periods for most of our important diseases, as well as grape berry moth.

[Weather Data](#) [Pest Forecasts](#) [Station Pages](#) [Crop Management](#) [Crop Pages](#) [About Weather Stations](#)

Grape Forecast Models

Weather Station:
Dresden (FLGP/FLCC)

Ending Date:
6/10/2015

Calculate

Grape Disease Infection Events for Dresden (FLGP/FLCC)

	Past	Past	Current	Grape Disease 5-Day Forecast			Forecast Details	
	Jun 8	Jun 9	Jun 10	Jun 11	Jun 12	Jun 13	Jun 14	Jun 15
Phomopsis	Combined	Combined	Combined	Combined	Yes	No	-	-
Powdery Mildew	Yes	Yes	No	Yes	No	Yes	-	-
Black Rot	Combined	Combined	Combined	Combined	Yes	No	-	-

Phomopsis - calculates when weather conditions may allow spores to infect susceptible tissue.

Powdery Mildew - runs from bud break until early bloom; calculates when weather conditions may allow overwintered, primary spores (ascospores) to infect susceptible tissue.

Black Rot - calculates when weather conditions may allow spores to infect susceptible tissue.

Phenological stage: Immediate pre-bloom

We have been seeing some initial spots indicating early downy mildew infections in a few blocks as well this week. I will take this opportunity to reiterate again the importance of using a material other than Pristine (or other strobilurins) for downy mildew control, based on what Wayne Wilcox has documented in his own trials, as well as the experience of a number of growers as well.

Bryan Hed, from Penn State University and based at the Lake Erie Vineyard Lab in Northeast, PA, has published a nice review of important post-bloom disease management information at <https://psuwineandgrapes.wordpress.com/2015/06/05/2015-post-bloom-disease-management-review/>, including information on both chemical and cultural practices to manage disease development after bloom.

John Wise from Michigan State University has also just written an article about how rainfast various insecticides are in fruit crops. You can find the article at http://msue.anr.msu.edu/news/rainfast_characteristics_of_insecticides_on_fruit

Thank You.....

Mike Colizzi



As Hans mentioned in last week's Update, this will be my last week with the Finger Lakes Grape Program. I would just like to say thank you to everyone whom I have interacted with while working here. You all have made my time with the Grape Program more enjoyable than I could have ever imagined. Many of you know I was born and raised in the Finger Lakes and this is where I plan to stay. I love this area and especially the grape industry. I have never known a better group of people than the grape growers in the Finger Lakes. The way everyone works together and shares information for the advancement of the region is amazing.

Thanks again and I look forward to seeing you around.

Tree Assistance Program Available for Replanting

Hans Walter-Peterson

The Tree Assistance Program (TAP) provides funds to growers who lose vines to natural disasters, including winter injury. As growers are making determinations about vine loss and determining whether it makes sense to retrain their vines from suckers (if there are any) or to simply replant a portion of a block, the USDA's Farm Services Agency can help to decide if there is enough damage for growers to qualify for TAP funding.

There has been one fairly significant 'clarification' to the TAP rules this year that could benefit growers who are considering applying for assistance. The definition of a 'lost' vine has been modified to read:

"Lost means, with respect to the extent of damage to a tree or other plant, that the plant is destroyed or the damage is such that it would, as determined by FSA, be more cost effective to replace the tree or other plant than to leave it in its deteriorated, low-producing state." (emphasis added)



While this seems to add some gray to the determination of whether or not a grower qualifies for TAP funding, I think this added gray area could be beneficial to some growers. The best advice, of course, is to call your county's FSA office and ask them to come out and evaluate whether or not a particular block may be eligible for assistance with replanting.

Jamie Earl, director of the FSA office in Steuben and Yates Counties, will be attending next week's Tailgate Meeting at Jim Bedient's farm in Branchport (see the 'Events' listing for more information), for those who want to ask questions about the TAP program. We appreciate Jamie's willingness to come and provide growers with more information about TAP at our meeting.

Upcoming Events

Don't forget to check out the calendar on our website (<http://flgp.cce.cornell.edu/events.php>) for more information about these and other events relevant to the Finger Lakes grape industry.

FLGP Tailgate Meetings

Next Meeting: Tuesday, June 16

5:00 – 6:30 PM

Bedient Vineyards

3955 Stever Hill Road

Branchport, NY 14418

Our annual series of tailgate meetings continues on Tuesday, June 16, at Bedient Vineyards in Branchport.

These meetings are held every other week at various grape farms around the Finger Lakes, and are intended to be informal, small-group meetings where FLGP staff and growers can ask questions and discuss issues about vineyard management, IPM strategies or other topics appropriate for that point in the growing season. The DEC has approved 1.0 pesticide recertification credits for each Tailgate Meeting this year.

Dates and locations for the rest of this year's Tailgate Meetings can be found under the '[Events](#)' section of our website.



Save the Date: Dr. Glen Creasy, Lincoln University (New Zealand)

Wednesday, July 1, 2015 4:30 PM

Hosmer Winery

7020 NY Route 89

Ovid, NY 14521

Dr. Glen Creasy will be returning to the Finger Lakes, his native territory, from his current home in New Zealand, where he is a senior lecturer in viticulture at Lincoln University. Glen received his Bachelor's degree from Cornell, and his Masters and Ph.D. degrees from Oregon State University. Mark the data on your calendars – more information to come soon!

Upcoming Events (continued from page 5)

40th Annual American Society for Enology and Viticulture – Eastern Section Conference

July 23-25, 2015

Clarion Hotel & Conference Center

30 Lake Shore Drive E

Dunkirk, NY 14048



Join us for the 40th American Society of Enology and Viticulture – Eastern Section (ASEV-ES) conference in Dunkirk, NY on July 23-25, 2015. The host hotel for the ASEV-ES Conference will be the Clarion Hotel Marina and Conference Center in Dunkirk, NY. On Thursday, July 23 there will be a **pre-conference tour** of New York vineyards and wineries. The **conference** will begin with technical presentations on Friday and Saturday, July 24-25 and include Friday's Oenolympics Grazing Dinner with Wines of the East and Saturday's Sparkling Wine Reception and Grand Awards Banquet.

For registration, housing and program information, please visit <http://www.asev-es.org/>.

Second International Workshop on Vineyard Mechanization and Grape and Wine Quality

July 26-29, 2015

SUNY-Fredonia Campus

Fredonia, NY

The Second International Workshop on Vineyard Mechanization and Grape and Wine Quality will be held July 26 to July 29, 2015, in Fredonia New York. The event is sponsored by the International Society for Horticulture Science, in conjunction with the Eastern Section of the American Society for Enology and Viticulture, and follows the successful inaugural event held in Italy in 2012. The workshop brings together international experts in grape mechanization and grape producers to report and discuss the latest research on grapevine mechanization, precision viticulture and the use of mechanization and technology to improve grape and wine quality. Technical focus areas will include engineering advancements and mechanized tools for vineyard operations, the application of remote and proximal sensing technologies for monitoring vine performance, variable rate and zonal vineyard management for improving vineyard productivity and the economic impact of mechanized systems on fruit yield and quality. This is the first time that the workshop will be held in the US. Scientists and grape growers from over 20 countries are expected to participate in the event.

Registration and program details can be found by visiting <http://events.cals.cornell.edu/ishs>.



Third Nelson J. Shaulis Grape Symposium
Williams Center
Fredonia College
State University of New York
Fredonia, New York



AGENDA
Sunday, July 26th, 2015

<u>Time</u>	<u>Topic/Title</u>
7:00 – 8:00 am	Registration
8:00 – 8:10	Welcome and Symposium Overview Terry Bates, Cornell University
8:10 – 8:20	ISHS Welcome Nick Dokoozlian, ISHS and E&J Gallo Winery
8:20 – 8:30	NYSAES Director Welcome and Shaulis Remembrance Susan Brown, Cornell University
	<u>Morning Session:</u>
9:00 – 9:40	The Contributions of Nelson J. Shaulis to Viticulture Alan Lakso, Cornell University
9:40 – 10:20	New Perspectives on Vine Balance and Fruit and Wine Quality Nick Dokoozlian, E. & J. Gallo Winery
10:20 – 10:40	Break
10:40 – 11:20	Vineyard Variability and Vine Balance James Taylor, University of Newcastle
11:20 – 12:00 pm	Emerging Technologies and Non-invasive Sensors in Viticulture Javier Tardaguila, University of Rioja
12:00 – 12:10	Industry Recognition of Nelson J. Shaulis John Brahm and Tom Davenport
12:10 – 1:00	Lunch
	<u>Afternoon Session:</u>
1:00 – 1:40	Grapevine Physiological Response to Mechanized Pruning Stefano Poni, University of Piacenza
1:40 – 2:20	Mechanized Production Systems in California Kaan Kurtural, California State University, Fresno
2:20 – 2:40	Break
2:40 – 3:20	Mechanization of Concord Juice Grape Production Terry Bates, Cornell University
3:20 – 3:50	Why Don't More Grape Growers Use Mechanized Production Systems? Keith Striegler, E. & J. Gallo Winery
3:50 – 4:30	Speaker Panel – Questions and Discussion All program participants
4:30 – 4:45	Symposium wrap-up and preview of Monday field tour Terry Bates, Cornell University
4:45	Adjourn

Finger Lakes Vineyard Update

Finger Lakes Grape Program

June 11, 2015

2015 GDD & Precipitation

<u>FLX Teaching & Demonstration Vineyard</u> – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
6/3/15	75.2	43.2	0.00	9.2	528.3
6/4/15	75.1	52.5	0.00	13.8	542.1
6/5/15	81.0	60.8	0.10	20.9	563.0
6/6/15	62.7	49.6	0.05	6.2	569.2
6/7/15	79.1	45.0	0.00	12.1	581.2
6/8/15	73.3	66.6	0.89	20.0	601.2
6/9/15	69.5	60.9	1.55	15.2	616.4
Weekly Total			2.59"	97.3	
Season Total			9.63"	616.4	

GDDs as of June 9, 2014: 544.3

Rainfall as of June 9, 2014: 10.34"

Seasonal Comparisons (at [Geneva](#))

Growing Degree Days



	2015 GDD ¹	Long-term Avg GDD ²	Cumulative days
April	40.8	65.2	-7
May	408.4	248.6	+8
June	90.2	481.5	+7
July		640.6	
August		588.6	
September		347.6	
October		105.5	
TOTAL		2477.6	

¹ Accumulated GDDs for the month.

² The long-term average (1973-2014) GDD accumulation for that month.

³ Numbers at the end of each month represent where this year's GDD accumulation stands relative to the long-term average. The most recent number represents the current status.

2015 GDD & Precipitation (continued from page 10)

Precipitation

	2015 Rain ⁴	Long-term Avg Rain ⁵	Monthly deviation from avg ⁶
April	2.54"	2.90	-0.31"
May	2.97"	3.11	-0.14"
June	1.83"	3.60	
July		3.42	
August		3.17	
September		3.63	
October		3.25	
TOTAL		23.08"	

⁴ Monthly rainfall totals up to current date

⁵ Long-term average rainfall for the month (total)

⁶ Monthly deviation from average (calculated at the end of the month)

Additional Information

Got some grapes to sell? Looking to buy some equipment or bulk wine? List your ad on the [NY Grape & Wine Classifieds website](#) today!

Become a fan of the [Finger Lakes Grape Program on Facebook](#), or follow us on [Twitter \(@cceflgp\)](#). Also check out our website, “The Grape Lakes – Viticulture in the Finger Lakes” at <http://flg.cce.cornell.edu>.

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