Wild grapes were in bloom at the beginning of the week in many parts of the Finger Lakes. This usually happens within the last few days of May, so we’re about 4-5 days later than normal this year. If the anecdotal relationship holds with bloom occurring about 10-14 days later in our earlier cultivated varieties like Baco or Concord, bloom in our commercial vineyards will likely be delayed by several days as well. If this is true, as discussed in the Update last week, then there is a reasonable chance that veraison and the onset of ripening will begin a little later as well.

Through the first two months of the season, we’re about 5-6 days behind average with regard to heat accumulation (growing degree days). As a result, shoot growth is a big sluggish to this point, but some dry weather and warmer temperatures after today should push growth some more.

We have just about reached the end of the optimal window for shoot thinning by this point in the season as well. Once shoots get longer than about 8”, it becomes harder to a) remove the shoot cleanly from the vine and prevent injury, and b) to see where shoots are coming from (e.g., spurs, blind buds/suckers, secondary shoots, etc.) and make it easy to select which to remove.

**Tissue testing at bloom**

Bloom is one of the two times during the season when petiole samples can be collected in order to determine the nutrient status of vines. Unlike soil samples, petiole samples provide an indication of what’s actually in the vine. Soil samples give an indication as to the level of nutrients that are available for the vines to take up if conditions are right (adequate oxygen and moisture in the root zone). Having both sets of tests provides the best information we can get on nutrient status and supply in a vineyard.

Soil tests can be collected anytime during the growing season because the factors we are concerned about in a soil test - nutrient levels, soil pH, cation exchange capacity, etc. – do not change rapidly over the course of a season. Within the plant, however, nutrient levels vary significantly depending on the time of year. Because of this, viticulturists have established standards that we use to determine if a vineyard is sufficient in nutrients at two different times of the year, bloom and 70-80 days after bloom (around veraison). So while timing isn’t as critical for soil sampling, it is moreso for collecting petioles for tissue tests.

For more information on how to petiole sampling, you can watch our video on YouTube at [https://www.youtube.com/watch?v=IrypWUEQKw](https://www.youtube.com/watch?v=IrypWUEQKw). You can get forms and supplies for tissue tests at your county Extension office, or most commercial labs that do nutrient analysis will have a submission form that you can download directly from their website. If you have any questions about petiole sampling, don’t hesitate to call or email us.
Dr. Richard Smart Visits the Finger Lakes
On Monday, June 3, Dr. Richard Smart presented a seminar on canopy management and grapevine trunk disease at Hazlitt 1852 in Hector. The afternoon also included a talk by Wayne Wilcox on some of the basics of trunk disease pathogens and their impacts on vines, the presence of trunk diseases in past surveys in the Finger Lakes, as well as Wayne’s thoughts on where they fit in the big picture of managing vineyards in the Finger Lakes. The workshop was followed by a field discussion where Richard and Wayne discussed how trunk disease manifests itself in the vineyard. Both of them discussed the importance of replacing older cordons and trunks as a means to manage trunk disease impacts, as well as the relative effectiveness of applying fungicides to large wounds while pruning to prevent new infections. These large pruning wounds can be a significant avenue for infection by these pathogens under the proper conditions.

The workshop was sponsored by the NY Wine Grape Growers, Sawtooth Vineyard Management, Nutrien Ag Solutions and Helena Agri-Enterprises.

Dr. Richard Smart discussing grapevine trunk disease with growers during this week’s seminar. (Photo from Jim Joy)
IPM

_Grape Berry Moth_

The arrival of wild grape bloom is when the grape berry moth (GBM) model kicks into gear. The model, which can be found and used on the NEWA weather network at [http://newa.cornell.edu/index.php?page=grape-diseases](http://newa.cornell.edu/index.php?page=grape-diseases), uses the date of 50% wild grape bloom as the biofix date, and begins counting growing degree days from there in order to predict the optimal timing for sprays to control GBM.

One change that I have noticed this year is that the model is not automatically populating the date of wild grape bloom as it has in past years (at least it isn’t for me), so you will need to be sure to enter your own biofix date in order to use the model, and keep track of that date for the rest of the season. In the example above, June 2 is used for the biofix at our vineyard in Dresden. Based on the accumulated GDDs, the model provides information about the current status of the GBM lifecycle and recommendations as to what growers should be doing based on that lifecycle stage.

_Banded Grape Bug / Plume Moth_

Shoot development is at the point now where symptoms of a couple of minor insect pests can be found in certain spots. We are starting to see a few _banded grape bug_ nymphs crawling around on clusters and leaves. The nymphs are generally active from late May through bloom, feeding on all parts of the clusters (flowers, stems). It is possible for relatively low numbers of nymphs to cause enough damage that intervention may be worthwhile. Examine about 100 shoots throughout the vineyard block, particularly around edges. Economic damage is possible at numbers as low as 1 nymph per 10 shoots. Tim Weigle with the IPM program has a video on how to scout for banded grape bug, which can be seen at [https://www.youtube.com/watch?v=lM_HonlywXg](https://www.youtube.com/watch?v=lM_HonlywXg). Around bloom, the nymphs transform into adults, and no longer feed on grapes.
This is also the time when we see some activity from plume moth. Larvae hatch from overwintering eggs in the spring and feed on young tissues, wrapping themselves in a webbed “pocket” that they form from leaves. Feeding on leaves generally is not significantly damaging, but if the shoot tip or a cluster in enclosed in that pocket, that is when economic damage can arise. It is rare to see enough of these in any given year or location to treat. Greg Loeb suggests 20% of shoots with plume moth larvae as a potential threshold for action, but again, it is rare to see populations of this pest that high.
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.

Tailgate Meeting #3  
Tuesday, June 11  4:30 – 6:00 PM  
Sawmill Creek Vineyards  
5587 Route 414, Hector NY

Our third Tailgate Meeting of the season will be held at Sawmill Creek Vineyards on the east side of Seneca Lake. Pesticide credits are available for each Tailgate Meeting this season. No registration required – just bring a chair and your questions and observations about what’s going on in the vineyard.

Tailgate Meeting #4  
Tuesday, June 25  4:30 – 6:00 PM  
Morse Vineyards  
4170 Vine Road, Penn Yan NY

ASEV-Eastern Section Annual Meeting and Shaulis Symposium on Digital Viticulture  
July 16-18, 2019  
Hobart & William Smith Colleges, Geneva NY

Registration is now open! Early registration deadline is July 2, 2019

New York Vineyard & Winery industry members receive the reduced Eastern Section member price!


The two-day program and vineyard tour will bring together suppliers, researchers, and growers to explore the tools and concepts of precision viticulture. New technologies, such as inexpensive sensors, digital imaging, geographical information systems, and precision machinery are converging to make precision viticulture possible. This field tour and symposium will focus on tools, concepts, and platforms for putting it all together to manage vineyards.

More information about the conference, field tour and symposium can be found in the conference registration packet (following pages) and at http://www.asev-es.org.
Registration Form  
44th Annual  
American Society for Enology and Viticulture-  
Eastern Section Conference with Nelson J. Shaulis Symposium  
July 16-18, 2019, Geneva, New York

PLEASE PRINT: 
Name (as desired on name badge)__________________________________________
Name of Spouse (if attending functions)_____________________________________
Company/Affiliation: _______________________________________________________
Address: __________________________________________________________________________
City________________ State/Province________________ Zip/Postal Code_________
Phone __________________________________ Email _____________________________

<table>
<thead>
<tr>
<th>Events</th>
<th>Number Attending</th>
<th>Rate</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, July 16: Conference Registration  (includes Business Lunch/Awards and Oenolympics with Wines of the East Reception)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern Section Member/ New York Vineyard or Winery Owners</td>
<td></td>
<td>$150</td>
<td></td>
</tr>
<tr>
<td>Non-Member</td>
<td></td>
<td>$275</td>
<td></td>
</tr>
<tr>
<td>Student Member/Spouse of Full Registrant</td>
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<td>$100</td>
<td></td>
</tr>
<tr>
<td>Tuesday, July 16: Extra Ticket Oenolympics Reception</td>
<td></td>
<td>$45</td>
<td></td>
</tr>
<tr>
<td>Wednesday, July 17: New York Digital Viticulture Tour &amp; Demonstrations (includes Lunch and Reception, maximum capacity 100 people)</td>
<td></td>
<td>$100</td>
<td></td>
</tr>
<tr>
<td>Thursday, July 18: Nelson J. Shaulis Symposium Registration (includes Lunch and Reception)</td>
<td></td>
<td>$150</td>
<td></td>
</tr>
<tr>
<td>LATE FEE: (after July 2)</td>
<td></td>
<td>$100</td>
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</tr>
</tbody>
</table>

TOTAL AMOUNT ENCLOSED

___ I request a vegetarian/vegan entrée for meals. Please contact ASEV-ES with other diet restrictions.

___ I would like to participate in the Oenolympics. Students and nonstudents can participate.

PAYMENT BY CREDIT CARD, CHECK OR MONEY ORDER; US OR CANADIAN CURRENCY
PAYABLE TO: ASEV-Eastern Section, Inc.

Pay for ASEV-ES conference activities with credit cards or PayPal on our website at http://www.asev-es.org/ or Click here to pay.

CREDIT CARD INFORMATION: MasterCard ____ Visa ____ (AmEx not accepted)

Card Number: ___________________________ Expiration Date: __________ CSC (security code): ______

Card Holder Name: _______________________________ Total Amount: _________________

Signature: ___________________________ Zip Code (associated with credit card): ______

Email, Mail or FAX completed registration form to:
Nancy Long, ASEV-ES Registration, Cornell University Jordan Hall, 630 W. North St., Geneva, NY 14456
Questions?? Phone: (315)787-2288 FAX: (315)787-2488 Email: NPL1@cornell.edu

Registration and Cancellation Policy: Registration is required for all events. Registration can be cancelled by written request to ASEV-ES. No refunds after July 1. Substitutions are allowed. “No shows” will not receive a refund.
CONFERENCE OVERVIEW

44th Annual American Society for Enology and Viticulture-Eastern Section Conference with Nelson J. Shaulis Symposium
July 16-18, 2019
Hobart and William Smith Colleges
Scandling Campus Center, 300 Pulteney, Geneva, NY 14456

Monday, July 15, 2019
6:00 - 9:00 pm: ASEV-ES Board of Directors Meeting (location to be decided)

Tuesday, July 16, 2019
ASEV-ES Conference
8:00 am- 12:00 pm: ASEV-ES Technical Sessions, Student Competitions and Poster Flash Talks
12:00 - 1:30 pm: Lunch and ASEV-ES Business Meeting and Awards
1:30 - 5:30 pm: ASEV-ES Technical Sessions and Poster Flash Talks
5:30 - 7:30 pm: Oenolympics with Wines of the East Reception

Wednesday, July 17, 2019
New York Digital Viticulture Tour
7:30 am - 6:00 pm: New York Digital Viticulture Tour and Equipment Demonstrations in vineyards on Keuka and Seneca Lakes (lunch and reception included)

Thursday, July 18, 2019
Nelson J. Shaulis Symposium
8:00 am - 12:00 pm: Shaulis Symposium Sessions
12:00 - 1:30 pm: Lunch
1:30 - 5:30 pm: Shaulis Symposium Sessions
5:30 - 7:00 pm: Shaulis Symposium Reception

This schedule is subject to change. Updated conference information will be available at our website (www.asev-es.org).
ASEV-ES CONFERENCE INFORMATION

Conference
The 44th Annual ASEV-ES Conference with Nelson J. Shaulis Symposium will be July 16-18, 2019 in Geneva, NY at Hobart and William Smith Colleges. The **ASEV-ES conference** will begin with technical/research presentations on Tuesday, July 16 and include the awards/lunch and Oenolympics with Wines of the East Reception. On Wednesday, July 17 there will be a **New York Digital Viticulture Tour and Equipment Demonstrations** in vineyards on Keuka and Seneca Lakes. The **Nelson J. Shaulis Symposium** on Thursday, July 18 will feature invited speakers to discuss “Digital Viticulture: New Tools for Precision Management of Vineyards”.

For more information on the schedule contact **Dr. Paul Read**, Professor, University of Nebraska (402-472-5136, pread@unl.edu).

Oenolympics Reception, Tuesday, July 16, 2019
Conference attendees to the Reception are invited to cheer your favorite team at the Eighth Annual Oenolympics, a student competition designed to promote fun, fellowship, and creative thinking with enology and viticulture-themed games. The Oenolympics, comprised of student teams, is a true spectator’s event, not to be missed! All ASEV-ES students registered for the conference are invited to compete in the Oenolympics.

**Back again this year!** A faculty/industry team will participate in the event, challenging the students!

For more information on the Oenolympics contact **Dr. Anna Katharine Mansfield**, Associate Professor of Enology, NYSAES, Cornell University (315-787-2268, akm87@cornell.edu).

New York Digital Viticulture Tour and Demonstrations, Wednesday, July 17, 2019
The New York Digital Viticulture Tour and Demonstrations will include visits to two sites on Keuka and Seneca Lake for extensive demonstrations of equipment and tools for precision vineyard management. The morning will focus on currently available technology in hybrid and Concord vineyards on Keuka Lake, and the afternoon will focus on emerging technologies in a **Vitis vinifera** block on West Seneca Lake. Lunch and a wine tasting by the Keuka Wine Trail will be served, and the day will close with a reception and Seneca Lake wine tasting at Anthony Road Vineyards. Technology demonstrated will include:

- Tractor-mounted and drone sensors for measuring canopy fill and vine size
- Variable-rate equipment for shoot thinning and crop thinning
- Yield monitors and spatial refractometers for producing spatial yield and brix maps
- Sensors for continual monitoring of vine water status
- Networked temperature sensors
- New equipment for precision viticulture from manufacturers and suppliers

For more information on the tour contact **Dr. Tim Martinson**, Senior Extension Associate, Cornell University (315-787-2448, tem2@cornell.edu).

Nelson J. Shaulis Symposium, Thursday, July 18
The Nelson J. Shaulis Symposium, **Digital Viticulture: New Tools for Precision Management of Vineyards**, will be held Thursday, July 18. Dr. Nelson Shaulis and others developed principles of vine physiology that form the basis of modern viticulture. His focus on the importance of light interception, canopy density, and balanced cropping have been applied worldwide. However, growers have lacked the tools to apply these principles on a vine-by-vine basis to manage variable vineyards. New technologies such as inexpensive sensors, digital imaging, geographical information systems, and precision machinery are converging to make precision viticulture possible. These technologies offer producers the prospect of applying management to individual vines to maximize quality and yield.

New York vineyard and winery owners can attend the July 16 conference at ASEV-ES member rate.
For more information on the schedule contact **Chris Gerling**, Enology Extension Associate, Cornell University (315-787-2277, cjj9@cornell.edu) or **Dr. Tim Martinson**, Senior Extension Associate, Cornell University (315-787-2448, tem2@cornell.edu).
Conference and Symposium Sponsorships and Advertising
The ASEV-ES has opportunities for conference and symposium sponsorships and advertising.
For more information on sponsorships contact Dr. Renee Threlfall, ASEV-ES Administrator (479-575-4677, rthrelf@uark.edu).

Hotel and Room Accommodations – Geneva, NY
There are several options for hotel and room accommodations for the ASEV-ES Conference and Nelson J. Shaulis Symposium.

Ramada Geneva Lakefront (41 Lakefront Drive, Geneva, NY, 14456)
The room rates are $80/night for single or double with a **deadline for reduced hotel rates of June 15, 2019**. Contact the hotel (315-789-0400) and mention American Society of Enology and Viticulture-Eastern Section. For more information about the hotel [click here.](http://aseves.org/PaypalASEVES.php)

Hobart and William Smith Colleges (Comstock House, 42 St. Clair Circle, Geneva, NY 14456)
The room rates are $50.00/night for a single (includes linens) a **deadline for reservation by June 15, 2019**. These rooms are dormitory rooms, but are at the location of the conference and symposium. To reserve a room, complete the online form at [Hobart Dorm Reservations](http://aseves.org/PaypalASEVES.php) or contact Nancy Long (315-787-2288, NPL1@cornell.edu). Pay for the room at [http://aseves.org/PaypalASEVES.php](http://aseves.org/PaypalASEVES.php). For more information about Hobart and William Smith Colleges visit [click here.](http://aseves.org/PaypalASEVES.php)

Hampton Inn by Hilton Geneva (43 Lake Street, Geneva, NY 14456)
The room rates are $90/night for single or double with a **deadline for reduced hotel rates of June 1, 2019**. This room rate includes complimentary breakfast. Contact the hotel (315-781-2035) and mention Cornell University ASEV/ES Conference. For more information about the hotel [click here.](http://aseves.org/PaypalASEVES.php)

Travel to Geneva, NY
International airports near Geneva, NY
51 miles: Rochester, NY (ROC) Greater Rochester International Airport
55 miles: Syracuse, NY (SYR) Syracuse Hancock International Airport
98 miles: Buffalo, NY (BUF) Buffalo Niagara International Airport

Domestic airports near Geneva, NY
50 miles: Ithaca, NY (ITH / KITH) Ithaca Tompkins Regional Airport
53 miles: Elmira, NY (ELM / KELM) Elmira/Corning Regional Airport
55 miles: Syracuse, NY (SYR / KSYR) Syracuse Hancock International Airport

Wine Donations for the Conference
There will be many opportunities to share wines from your regions with attendees at the conference events. Bring wines to the conference or you can ship the wines. If you want to ship wines send to the following address by **July 5, 2019**.
Packages must be labeled as follows:

- NYS Wine Lab Attn: Chris Gerling
- NYSAES-110 Agricultural Sciences Research Laboratory
- 665 W. North Street
- Geneva, NY 14456 USA
- Organization Name: ASEV-Eastern Section
- Date of Event: July 16-18, 2018
- Package #_______ of _______
- Package From:

For more information on wine donations contact Dr. Molly Kelly, Enology Extension Educator, Penn State (814-865-6840, mkx1171@psu.edu) or Dr. Justin Scheiner, Horticulture Extension Specialist – Viticulture, Texas A&M AgriLife (979-845-1870, jscheiner@tamu.edu).
2019 GDD & Precipitation

<table>
<thead>
<tr>
<th>Date</th>
<th>Hi Temp (F)</th>
<th>Lo Temp (F)</th>
<th>Rain (inches)</th>
<th>Daily GDDs</th>
<th>Total GDDs</th>
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</thead>
<tbody>
<tr>
<td>5/29/2019</td>
<td>62.0</td>
<td>51.0</td>
<td>0.04</td>
<td>6.5</td>
<td>261.5</td>
</tr>
<tr>
<td>5/30/2019</td>
<td>70.3</td>
<td>53.8</td>
<td>0.03</td>
<td>12.1</td>
<td>273.5</td>
</tr>
<tr>
<td>5/31/2019</td>
<td>71.8</td>
<td>54.2</td>
<td>0.01</td>
<td>13.0</td>
<td>286.5</td>
</tr>
<tr>
<td>6/1/2019</td>
<td>79.9</td>
<td>55.0</td>
<td>0.00</td>
<td>17.5</td>
<td>304.0</td>
</tr>
<tr>
<td>6/2/2019</td>
<td>65.1</td>
<td>51.7</td>
<td>0.07</td>
<td>8.4</td>
<td>312.4</td>
</tr>
<tr>
<td>6/3/2019</td>
<td>60.5</td>
<td>45.2</td>
<td>0.00</td>
<td>2.9</td>
<td>315.2</td>
</tr>
<tr>
<td>6/4/2019</td>
<td>65.3</td>
<td>43.8</td>
<td>0.00</td>
<td>4.6</td>
<td>319.8</td>
</tr>
<tr>
<td>Weekly Total</td>
<td></td>
<td></td>
<td><strong>0.15”</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Season Total</td>
<td></td>
<td></td>
<td><strong>6.54”</strong></td>
<td></td>
<td><strong>319.8</strong></td>
</tr>
</tbody>
</table>

GDDs as of June 4, 2018: 512.1
Rainfall as of June 4, 2018: 6.27”

Seasonal Comparisons (at Geneva) as of June 4
Growing Degree Day

<table>
<thead>
<tr>
<th>Date</th>
<th>2019 GDD ¹</th>
<th>Long-term Avg GDD ²</th>
<th>Cumulative days ahead (+)/behind (-) ³</th>
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</thead>
<tbody>
<tr>
<td>April</td>
<td>48.1</td>
<td>64.1</td>
<td>-5</td>
</tr>
<tr>
<td>May</td>
<td>204.1</td>
<td>255.5</td>
<td>-5</td>
</tr>
<tr>
<td>June</td>
<td>32.2</td>
<td>480.9</td>
<td>-6</td>
</tr>
<tr>
<td>July</td>
<td></td>
<td>642.1</td>
<td></td>
</tr>
<tr>
<td>August</td>
<td></td>
<td>592.7</td>
<td></td>
</tr>
<tr>
<td>September</td>
<td></td>
<td>357.6</td>
<td></td>
</tr>
<tr>
<td>October</td>
<td></td>
<td>110.1</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>284.4</td>
<td>2503.0</td>
<td></td>
</tr>
</tbody>
</table>

¹ Accumulated GDDs for each month.
² The long-term average (1973-2017) GDD accumulation as of that date in the 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.
## Precipitation

<table>
<thead>
<tr>
<th>Month</th>
<th>2019 Rain 4</th>
<th>Long-term Avg Rain 5</th>
<th>Monthly deviation from avg 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>2.22”</td>
<td>2.85”</td>
<td>-0.63”</td>
</tr>
<tr>
<td>May</td>
<td>4.42”</td>
<td>3.13”</td>
<td>+1.29”</td>
</tr>
<tr>
<td>June</td>
<td>0.14”</td>
<td>3.60”</td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>3.44”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>August</td>
<td>3.21”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>September</td>
<td>3.57”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>October</td>
<td>3.39”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>6.19”</td>
<td>23.16”</td>
<td></td>
</tr>
</tbody>
</table>

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)
Finger Lakes Vineyard Update

Additional Information

Become a fan of the Finger Lakes Grape Program on Facebook, or follow us on Twitter (@cceflgp) as well as YouTube. Also check out our website at http://flgp.cce.cornell.edu.

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

Finger Lakes Grape Program Advisory Committee

Eric Amberg- Grafted Grapevine Nursery
Bill Dalrymple- Dalrymple Farm
Matt Doyle- Doyle Vineyard Management
Eileen Farnan- Barrington Cellars
Chris Gerling- Cornell University Extension
Mel Goldman- Keuka Lake Vineyards
Luke Haggerty- Constellation Brands
Tina Hazlitt- Sawmill Creek Vineyards
Cameron Hosmer- Hosmer Winery

Harry Humphreys- Overlook Farms
Richard Jerome- Jerome’s U-Pick
Gregg McConnell- Farm Credit East
Herm Young- Young Sommer Winery
John Santos- Hazlitt 1852 Vineyards
Dave Smith- Smith Brothers Farms
Justine Vanden Heuvel- Cornell University
Derek Wilber- Swedish Hill Winery

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