

Cornell Cooperative Extension

Lake Erie Regional Grape Program

Second Quarter Report 2020

A cooperative program between Cornell and Penn State Universities, Cornell Cooperative Extension Associations in Chautauqua, Cattaraugus, Erie and Niagara Counties, Penn State Extension – Erie County, NYS IPM Program, National Grape Cooperative, Constellation Brands, Walker's Fruit Basket and growers of the Lake Erie Grape Industry

Virtual Coffee Pot Meetings

Jennifer Phillips Russo

Cornell Cooperative Extension's Lake Erie Regional Grape Program (LERGP) is pleased to announce that they offer Coffee Pot Meetings virtually. Coffee Pot meetings were started years ago in an effort to connect with local growers to address their needs during the growing season. These meetings are typically hosted by grape growers in the region that are willing to invite the group into their barn/garage. LERGP brings coffee, doughnuts, the latest research information, and recertification credits.

This year, due to the restrictions in place from COVID-19, the group was unable to conduct business as usual. In an effort to continue the sharing of important research, as well as maintaining the collaboration of ideas from the growers, the LERGP team was successful in setting up Virtual Coffee Pot meetings. Each meeting will feature a management topic with faculty and extension panelists.

In addition, the New York State Department of Environmental Conservation (DEC) and the Pennsylvania Department of Agriculture (PDA) have both approved offering pesticide recertification credits at these meetings to aid our growers. For each meeting one credit is available to both New York and Pennsylvania licensed pesticide applicators. The LERGP offered 13 opportunities to receive pesticide recertification credits in 2020. This quarter, there were 8 Virtual Coffee Pot Meetings with 9 Guest Speakers and 297 total participants reached for May and June 2020.

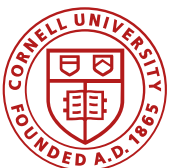
The Coffee Pot Meetings are discussions on timely viticulture, business management, and integrated pest management. In addition, special guest speakers with expertise in viticulture and enology from all over the country have been invited to present their research in this informal setting and answer grower questions face-to-face since traveling isn't an issue with the virtual platforms. The LERGP team is excited to be able to continue to offer educational outreach and pesticide recertification credits to our industry stakeholders during this pandemic time.

2020 Pest Management Spray Schedule – What's Your Plan?

Jennifer Phillips Russo

In preparation for the 2020 season, a virtual (on line) meeting was conducted via Zoom to assist growers in developing a pest management plan in the 2020 growing season.

This meeting was interactive so that growers had the ability to ask questions concerning specific pest problems or potential problems in the 2020 season. Topics that were addressed include: timing of spray applications at critical growth stages; pesticide options, efficacy and cost; and resistance management. There were 18 attendees.



Cornell University



PennState Extension

Virtual Office Hours

Kevin Martin

In response to COVID-19 Restrictions LERGP hosted virtual office hours via Zoom. Office hours were conducted two to three times per week in March and April. Field rep meetings were also conducted virtually to maintain access between educators and industry. There were 153 total attendees.

NY Moving Forward

Kevin Martin

Work with Cornell Agricultural Workforce Development helped develop training materials and webinar curriculum to help growers respond to COVID-19 safety, including NYS regulatory requirements associated with operations remaining open. Webinars included best practices that PA growers also attended to ensure safe procedures for their customers and employees. The two webinars I co-hosted were attended by 145 industry representatives, farm owners and employees.

Podcast Series

Kevin Martin

Our weekly video update has continued. Topics have included updates on in-person and virtual events, berry moth, frost, canopy management, COVID-19 and capital costs. Interest in the video updates remains steady with most views coming within the first 10 days after posting. We reach an audience of 30 – 60 and often discuss similar topics that are included in the crop update. Total viewership this quarter is around 375.

NEWA

Kim Knappenberger

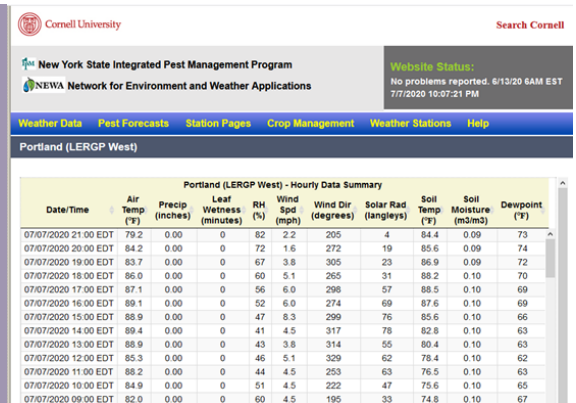
Emails and phone calls were made for a number of routine connection issues across the Lake Erie Region and the Finger Lakes Region.

With our aging network of Rainwise stations in the Lake Erie Region, we have been experiencing occasional sensor issues. Both Silver Creek and Sheridan stations were reporting as wet from the leaf wetness sensors for a long period of time. Rainwise support advised against purchasing the sensors (at a cost of \$255 each), but instead urged the replacement of the stations. These Rainwise stations are recommended to be replaced every 5 years to ensure the collection of accurate data. For now the leaf wetness sensor on the Sheridan station was replaced with a spare, and the sensor was removed from the Silver Creek station. There is a calculation that can be performed on the NEWA website for leaf wetness allowing the station visitors to still access that information. The Relative Humidity and Temperature sensor was replaced in both the North East Escarpment and North East Lab stations.

East Fredonia, East Westfield, Lake City and Ovid stations also experienced some connection problems this quarter. East Fredonia and Lake City were both fixed by following cords and making sure it was plugged in properly. East Westfield is a cellular station that required that the TeleMet to be sent in. No word yet on that station. Ovid is back online.

Silver Creek station needed to have the rain bucket cleaned and is now recording precipitation. Soil temperature and moisture sensors were added to the Onset station at CLEREL. These can be seen on the NEWA website at the Portland (LERGP West) station.

Quotes were obtained from both Onset and Rainwise regarding replacing some of the older stations in our network. There are pros and cons to both, but for now while money is tight there will be no new stations.



The screenshot shows the NEWA website interface. At the top, there's a header with the Cornell University logo and a search bar. Below that, a navigation bar includes links for Weather Data, Pest Forecasts, Station Pages, Crop Management, Weather Stations, and Help. The main content area displays the 'Portland (LERGP West) - Hourly Data Summary' table. The table has columns for Date/Time, Air Temp (°F), Precip (inches), Leaf Wetness (minutes), RH (%), Wind Spd (mph), Wind Dir (degrees), Solar Rad (langley), Soil Temp (°F), Soil Moisture (m3/m3), and Dewpoint (°F). The data rows show hourly readings from 07/07/2020 21:00 EDT to 07/07/2020 09:00 EDT.

Date/Time	Air Temp (°F)	Precip (inches)	Leaf Wetness (minutes)	RH (%)	Wind Spd (mph)	Wind Dir (degrees)	Solar Rad (langley)	Soil Temp (°F)	Soil Moisture (m3/m3)	Dewpoint (°F)
07/07/2020 21:00 EDT	79.2	0.00	0	82	2.2	205	4	84.4	0.09	73
07/07/2020 20:00 EDT	84.2	0.00	0	72	1.6	272	19	85.6	0.09	74
07/07/2020 19:00 EDT	83.7	0.00	0	67	3.8	305	23	86.9	0.09	72
07/07/2020 18:00 EDT	86.0	0.00	0	60	5.1	265	31	88.2	0.10	70
07/07/2020 17:00 EDT	87.1	0.00	0	56	6.0	298	57	88.5	0.10	69
07/07/2020 16:00 EDT	89.1	0.00	0	52	6.0	274	69	87.6	0.10	69
07/07/2020 15:00 EDT	88.9	0.00	0	47	8.3	299	76	85.6	0.10	66
07/07/2020 14:00 EDT	89.4	0.00	0	41	4.5	317	78	82.8	0.10	63
07/07/2020 13:00 EDT	88.9	0.00	0	43	3.8	314	55	80.4	0.10	63
07/07/2020 12:00 EDT	85.3	0.00	0	46	5.1	329	62	78.4	0.10	62
07/07/2020 11:00 EDT	88.2	0.00	0	44	4.5	253	63	76.5	0.10	63
07/07/2020 10:00 EDT	84.9	0.00	0	51	4.5	222	47	75.6	0.10	65
07/07/2020 09:00 EDT	82.0	0.00	0	60	4.5	195	33	74.8	0.10	67

VIP Kim Knappenberger

During the quarter there have been 20 inquiries about the program. A workflow guide was created to aid in keeping the applicants on track

during the process and to expedite project completion. This has already proved helpful. Three final expense sheets were put together during this quarter as three applicants neared reimbursement. Three initial visits and 1 final site visit were conducted.

At the end of the quarter paperwork had been submitted for an applicant, however the check had not been issued. That will be reported in next quarter.



There have been 3 new applicants to the program, all of which are from Chautauqua County. These vineyards add another 24.75 acres to the number of Concord vineyards being removed for a total of almost 322 acres between 22 applicants. The breakdown of acreage in counties is 15 from Chautauqua County and 261 acres, 1 from Steuben at 2.69 acres, 1 from Schuyler at 5.66 acres, 3 from Niagara at 39.92 acres, and 2 from Erie County (NY) at 12.48 acres. The crops replanted are: Aurore, Elvira, Ives, Foch, Chambourcin, Itasca, Seyval, Concord, Vincent, and Gruner vineyards for a total returning to vineyards at 93.28 acres; cover crops are intended for 19.98 acres; apples on 4 acres; field crops on 97.3 acres; strawberries on 0.5 acres; rhubarb on 0.5 acres; asparagus on 1 acre; vegetable crops on 2.5 acres; and potentially 90 acres to become a solar farm.



The 2020 Grape Commodity Survey is under way in the Lake Erie Region. There are 108 traps set up in 8 vineyards and 2 nurseries. This year the target moths include *Cryptoblabes gnideiella* (Christmas Berry Webworm), *Lobesia botrana* (European Grapevine Moth), and *Eupoecilia ambiguella* (European Grape Berry Moth).

Grape Commodity Survey (CAPS) Kim Knappenberger

The traps were set on June 9th and 10th, there was a slight delay of set up in two vineyards due to reentry restrictions from a spray application. These traps are intended to remain in the vineyards and nurseries for 14 weeks and will be serviced (surveyed for the presence of moths) every two weeks for a total of 7 times.

The first service was performed on June 23rd to reveal no target moths. A record of negative samples was recorded: -16 CBW, -437 EGBM, and -19 EGVM. These results are shared with the project coordinator, Juliet Carroll, via google sheets.



To date in 2020:

Publications - Lake Erie Vineyard Notes Newsletter (3) and LERGP Crop Update (7)

Podcasts - 10 weekly podcasts available on <http://lergp.com/podcasts/>

Web resources - <http://lergp.cce.cornell.edu>, <http://lergp.com> and <https://www.efficientvineyard.com>

Like us on Facebook - Cornell-Lake-Erie-Research-and-Extension-Laboratory and Efficient-Vineyard

LERGP Home Pages: <http://lergp.cce.cornell.edu>; <http://lergp.com> Phone: 716.792.2800