



**Cornell Cooperative Extension
Lake Ontario Fruit Program
Quarterly Report
July - September 2021**

**A partnership between
Cornell University and the
CCE Associations in these five
counties:**

**Monroe, Niagara, Orleans,
Oswego & Wayne**

Overview: Summer continued the busy field season that started in the spring for the team. Summer tour planning, field research, trap monitoring, harvest maturity testing, and grower visits were the main activities of the quarter.

Following a hot and dry June that brought mild drought conditions for most of the region, July was one of the wettest on record. While we did not receive much flooding, there was a severe hailstorm on July 20 that affected some apple farms in northwest Niagara County. August brought moderate temperatures and some rain in the form of hit or miss showers for Western NY. Apple harvest in later August through September brought more hit or miss rain showers and cooler temperatures overall.

Mid-July brought Mario, Craig, Liz, and Mike Basedow (CCE-ENYCHP) together with Cornell faculty Chris Watkins, Terence Robinson, and Lailiang Cheng in the ARDP-funded project *“Statewide Effort to Manage Crop Load, Nutrient Status, and Bitter Pit of Honeycrisp”*. The group worked with their local packinghouses to have their growers collect, peel, and freeze fruitlet peel samples for sap analysis at Cornell. In addition, the above CCE personnel collected samples from research plots. Terence and Lailiang analyzed the results and emailed the growers with storage recommendations based on their projected risk for bitter pit. In addition, on the research plots, CCE personnel measured trunk diameters and estimated crop loads. With the help of Chelsea Van Acker and Scott Henning from New York Apple Sales, CCE personnel gathered fruitlets in late August for the Honeycrisp passive sampling model. Evaluations of percent bitter pit incidence were done prior to harvest by Mario, Craig, and Edith Skelie (Fowler Farms). This data was combined with peel sap data (when available) for Cornell faculty to give grower storage and marketing recommendations based on their projected risk for bitter pit. Also at harvest, Mario, Craig, Scott, and Chelsea harvested fruit from research plots to go into storage to learn actual bitter bit incidence, and compare it to the 2 models.

The early part of the quarter brought the bulk of planning for our August 12th Summer Tour featuring Wayne County. This was the first summer tour in over 2 years. The tour was very well attended, bringing record number of sponsors and support dollars for the team. In addition, there were over 175 attendees. While the weather was hot, it remained cloudy and storm-free throughout the day. We were very grateful for how things turned out.

Also in the quarter, trapline monitoring by Janet and Liz continued. Janet made many farm visits meeting a lot of stakeholders for the first time. Unfortunately, many visits were because of fire blight infections in their orchards. This devastating disease has been prevalent in Western NY for two seasons in a row. Mark completed all phases of the 2020 Fruit Farm Business Summary and conducted a survey of growers about potential impacts of the new overtime law.



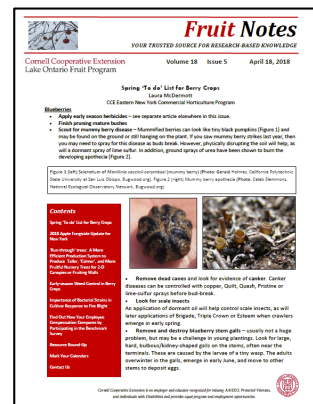
Drone footage from one of the Morgan Farms stops on LOF's Summer Fruit Tour in Wayne County August 12th, our first in over two years.



Janet van Zoeren talks to growers at LOF's Summer Fruit Tour in Wayne County August 12th.

By the Numbers:

Team Publications:	Editions:	Articles:
Fruit Notes	3	19
Email Blasts	4	N/A
Fruit Facts	15	N/A



Selected Publications by LOF Team	Periodical	Author
<i>2021 LOF Summer Tour Featuring Wayne County</i>	Fruit Notes, Vol. 21, Issue 11	Kahlke
<i>Sample Later Next Week and Early the Following Week and Early Next Week for Passive Model for Honeycrisp Bitter Pit Prediction!</i>	Fruit Notes, Vol. 21, Issue 12	Kahlke, Miranda Sazo, Robinson, Watkins, Cheng
<i>Harvest Maturity Predictions for Apples in Western NY</i>	Fruit Notes, Vol. 21, Issue 12	Kahlke
<i>The Use of Plant Growth Regulators Near Harvest in 2021</i>	Fruit Notes, Vol. 21, Issue 12	Miranda Sazo, Robinson, Kahlke, Watkins
<i>Fire blight in WNY in 2021- We Were Hoping this was Last Year's Problem!</i>	Volume 21, Issue 10.	van Zoeren & Cox
<i>What is Your Revenue Potential for that Block of Apples?: Price-Yield Tables for Process and Fresh Apple Orchards</i>	Volume 21, Issue 10.	Wiltberger
<i>2021 LOF Summer Fruit Tour agenda, morning program at Morgan Farms</i>	Fruit Notes, Vol. 21, Issue 11	Wiltberger

Selected Presentations by LOF Team	Periodical/Meeting:	Presenter:
<i>ATS and chemical thinning discussion about the use of ACC and Metamitron</i>	2021 LOF Summer Fruit Tour Featuring Wayne County	Miranda Sazo
<i>Boring Beetles</i>	Why are My Trees Growing So Poorly?" (Zoom)	van Zoeren
<i>Introduction to Morgan Farms, Speaker Introductions, and Orchard Walks</i>	2021 LOF Summer Fruit Tour Featuring Wayne County	Wiltberger



Business Consultation

Specialist	Site Visit	Phone/Texts/Emails
Kahlke	4	85
Miranda Sazo	5	20
van Zoeren	17	40
Wiltberger	11	11

Research

Activity/Proposal/Grant	Person(s)	Funded (Y/N) or Unfunded/ Preliminary Research (UPR)
<i>Roots and Rapid Apple Decline</i>	van Zoeren (Khan PI)	Yes-NIFA
<i>A Statewide Effort to Manage Crop Load, Nutrient Status and Biter Pit of Honeycrisp</i>	Miranda Sazo & Kahlke (Robinson PI)	Yes-ARDP
<i>Precision Orchard Management</i>	Miranda Sazo, Kahlke, Tee (Robinson PI)	Yes-SCRI & ARDP
<i>Ambrosia Beetle (Black Stem Borer) Management</i>	van Zoeren (Agnello PI)	No
<i>Impact of NY Overtime Farm Labor Law on NY farmers</i>	Wiltberger (Wolf PI)	Yes-NYSDAM
<i>New York Agricultural Labor in Transition</i>	Wiltberger (Stup PI)	Yes-USDA RME
<i>Optimizing Herbicide Strategies for Weed Control</i>	van Zoeren, Basedow	Yes-ARDP
<i>Testing the Role of Latent Viruses in the Decline of Apple Trees on G935</i>	van Zoeren & Miranda-Sazo (Fuchs PI)	Yes-ARDP
<i>Latino Project</i>	Rangarajan & Miranda Sazo	Yes-USDA-BF

Selected Professional Development and Training

Activity	Team Member(s)	Comments:
Attended Center for Produce Safety Research Symposium on July 6	Kahlke	Zoom
Attended Produce Safety Alliance Quarterly Executive & Steering Committee Meeting on July 12	Kahlke	Zoom
Attended (virtual) "Morning Brew" sessions, organized by Peter Jentsch at Hudson Valley (July-Aug).	van Zoeren	Zoom

Attended in-person AgrAssistance Wayne County Summer Tour, to network with growers and consultants (Aug 4).	van Zoeren	
Courses CU 101 – 106. Diversity, Equity, and Inclusion courses. Attended and completed the six-course <i>Diversity, Equity, and Inclusion</i> series requirement for all Cornell staff.	Wiltberger	Online

Fruit Quality Management – Craig J. Kahlke

Educational Programs/Presentations

- LOF Summer Fruit Tour Featuring Wayne County – August 12th
 - July 16 – Tour stops visit/mapping with the rest of the team
 - July 29 – Lunch Stop visit/mapping
 - August 11 – Buying water and putting up signs
 - August 12th- welcomed everyone at stop 1, hosted the lunch stop and introduced sponsors
- On-Farm Readiness Reviews (helping farms with preparation for a FSMA inspection)
 - July 6- Fruit Farm in Orleans County
 - July 13- Fruit Farm in Monroe/Wayne County
 - August 11 – Fruit Farm in Wayne County
 - September 29 – Fruit Farm in Niagara County
- Harvest Maturity Program
 - Augusts 4 - partial install of new gas chromatograph at K.M. Davies in Wayne County (see quarterly highlight)
 - The making of iodine solution Augusts 17th & 24th
 - Finish of Gas chromatograph install and familiarization/training on August 25th
 - Starting in mid-August, and continuing past the end of the quarter, performed the harvest maturity testing and reporting on apples and pears
 - With Liz, sampled orchards and picked up grower and crop consultant samples on Mondays, and tested them in the maturity lab at Orleans County CCE
 - With Liz, tested Wayne County samples (growers and crop consultants collected) at K.M. Davies on Tuesdays.
 - Send data to industry reps on Tuesday evenings, had conference call on Wednesday mornings
 - Put our maturity reports later Wednesday mornings
 - This included maturity reports for Crunch Time Apple Growers, the producers of SnapDragon™ and RubyFrost™
- Attended PSA Remote Delivery Online course planning meeting (Zoom) August 3
- Helped Moderate Dr. Chris Watkins Pre-season Storage Workshop on Aug. 27 (Zoom)

Publications

Fruit Notes

- Articles Written: Fruit notes newsletter
 - *Summer Tour Update* – Volume 21, Issue 10.
 - *2021 LOF Summer Fruit Tour* – Volume 21, Issue 11.
 - *Signing Off for Now* – Volume 21, Issue 12.
 - *Sample Later Next Week and Early the Following Week and Early Next Week for Passive Model for Honeycrisp Bitter Pit Prediction!* (Coauthored with Miranda Sazo, Watkins, Robinson, Cheng) – Volume 21, Issue 12.
 - *Preparing for Harvest*– Volume 21, Issue 12.
 - *Harvest Maturity Predictions for Apples in Western NY* – Volume 21, Issue 12.
 - *Sampling Help Needed West of Rochester for the Harvest Maturity Program This Season!* – Volume 21, Issue 12.
- Edited 3 newsletters in the quarter.
- Sorted through numerous announcements about workshops/conferences/meetings/surveys and along with the pertinent on-line registration links, put them in the newsletter.

Email Blasts

- Sorted through numerous announcements about workshops/conferences/meetings/surveys and along with the pertinent on-line registration links, put them in the email blasts.
- Sent out 4 email blasts in the quarter
 - 7/2 – *Sample Collection for Honeycrisp Peel Analysis will be next week in Western NY*
 - 7/15 – *LOF Announcements- The Last Honeycrisp Meetup in Tonight! Peel Sap Analysis for Honeycrisp in West NY/Finger Lakes has finished for the Season*
 - 8/2 – *LOF- Reminder Webinar TODAY (3-4:30 PM) Why are my Trees Growing so Poorly?*
 - 8/6 – *Register Now for the 2021 LOF Summer Tour in Wayne County August 12- Pre-registration Is Required!*

Applied Research

- ARDP Project “*Precision Orchard Management*” (Robinson PI)
 - Thinned to 1 fruit/cluster on chemical treatments on July 15
 - Harvested Gala site and delivered fruit to Geneva on Sept. 2
 - Harvested Honeycrisp site and delivered fruit to Geneva on Sept. 22
- ARDP Project “*A Statewide Effort to Manage Crop Load, Nutrient Status and Bitter Pit of Honeycrisp*” (Robinson PI)
 - Collected samples for peel sap analysis on July 7-8
 - Picked up grower samples July 7-8
 - Delivered samples to Geneva and helped process with Mario on July 8
 - Measured trunks in blocks in research study and estimated crop loads on July 20, 21, 23
 - Attended Zoom on August 18th to discuss grower sample collection for passive bitter pit model and validation samples from research blocks
 - Collected research samples for passive bitter pit model and delivered to storage on August 20, 23
 - Attended Zoom to discuss harvest sampling logistics on Sept. 8
 - Performed passive bit pit evaluations on Sept. 10 and 13
 - Collected research samples for model validation on Sept. 15, 16
 - Collected remaining samples from storage in Albion and delivered to Geneva on Sept. 16
- Valent – Retain-Harvista trial work
 - Had Zoom meeting with Valent personnel on July 1 about trial ideas
 - Got budget approval in mid-July

- Secured 2 grower cooperators for 3 trials in early August
- Visited the sites with Valent on August 13
- Coordinated with growers when to spray the plots
- All plots were sprayed on time
- Harvested both 1st pick Gala plots on Sept. 7
 - With Liz, weighed fruit, performed maturity testing, and delivered samples to storage
- Harvested both 2nd pick Gala plots on Sept. 17
 - With Liz, weighed fruit, performed maturity testing, and delivered samples to storage
- Harvested NY1 plot on Sept. 27
 - With Liz, performed maturity testing, and delivered samples to storage

Team and Other Duties

- Team Leader Administrative Duties
 - Approved invoices and vouchers as needed.
 - Reviewed budget and monthly financials.
 - Approved timesheets/vacation/sick leave hours for team members as needed.
 - Disseminated pertinent info to rest of team as needed from:
 - Monthly Team Leader Zoom™ calls July 15, Aug. 19, Sept. 16
 - Group and other email lists
- Organized and led weekly team (Zoom™) meetings on July 6, 16, 22, Aug. 10, 16
- Submitted April-June 2021 quarterly report
- Mileage Reporting for funded grants
- Attended “*Precision Orchard Management in Apple* (SCRI, Robinson PI) Zoom on August 31

Professional Development

- Attended Center for Produce Safety Research Symposium on July 6 (Zoom)
- Attended Produce Safety Alliance Quarterly Executive & Steering Committee Meeting on July 12 (Zoom)

Stakeholder Contacts

- 4 site visits to assist growers (2 Niagara, 1 Monroe, 1 Wayne).
- Assisted stakeholders via texts, phone, and email (~85).

Horticulture – Mario Miranda Sazo

Educational Programs/Presentations

- 2021 LOF Summer Fruit Tour Featuring Wayne County – hosted the Mark Hermet Farms Stop & 2 talks:
 - Fine-tuning the fruit growth rate model and new alternatives for chemical thinning with Metamitron and ACC – Dr. Terence Robinson, Dr. Luis Gonzalez (Cornell University), Poliana Francescatto (Valent Biosciences), and Mario Miranda Sazo.

- ATS sprays applied at bloom/guided by the Pollen Tube Growth Model (PTGM) and the use of ACC as a rescue treatment on a Mature Gala block – Dr. Terence Robinson, Mario Miranda Sazo, and Mark Hermenet.

Publications

Fruit Notes

- Articles Written: Fruit notes newsletter
 - *Sample Later Next Week and Early the Following Week and Early Next Week for Passive Model for Honeycrisp Bitter Pit Prediction!* (Coauthored with Kahlke, Watkins, Robinson, Cheng) – Volume 21, Issue 12.
 - *The Use of Plant Growth Regulators Near Harvest in 2021* (Coauthored with Robinson, Watkins, Kahlke) – Volume 21, Issue 12.
 - *6th Hispanic Summer Fruit Tour Featuring the Entrepreneurial Spirit and Success of the Rosarios* (Coauthored with Waters) – Volume 21, Issue 12.

Applied Research Projects/Collaborations

Statewide effort to manage crop load, nutrient status, and bitter pit of Honeycrisp (ARDP/Robinson)

- WNY fruit sampling occurred early in July, 2021
- Planned/coordinated/conducted peel sap analysis with a 5-person crew in a lab in Ithaca
- Craig, Liz, and I evaluated crop load and took trunk diameter measurements in August
- CCE LOF conducted passive bitter pit evaluations in late August, evaluated bitter pit on site in September, and got a fruit sample for storage in Geneva
- All samples were transported to Geneva by Craig, Chelsea VanAcker, and Mario

Latino project (USDA-BF/Rangarajan)

- Conducted the 6th Spanish Summer fruit tour on August 28 (56 participants)
- Began the recruiting process for the Winter 2022 Futuro Financiero course (piloted as the *Master Class* program for Hispanic employees in the falls of 2018 and 2019).
- To request more info and enroll in the 2022 course, please visit:
- <https://smallfarms.cornell.edu/2021/10/how-were-building-a-strong-nys-agricultural-industry-with-current-and-future-programs/>
- Communicated and strategically worked with Cornell Small Farm Program (mainly with Anu/Nicole) for the review of 17 candidates and the interview process of 3 final candidates (Sept. 13, 14, 20, 28, and 29)

Ph.D. related course work/experimental research work in Ithaca (Cheng)

- This quarter I finished the 5-year experiment started in Ithaca in May 2017.
- Last whole tree destructions were conducted in August and Sept, 2021.
 - Dormancy (March 25-26)
 - Bloom (May 13-15)
 - End of spur leaf growth (June 7-9)
 - End of shoot growth (June 24-25)
 - **End of cell expansion (August 4-5)**
 - **Harvest (Sept. 15-17)**
- There were other tasks related to grinding and submission of samples.
 - Last samples were shipped to an analytical lab on Oct. 6

Team and Other Duties

- Attended LOF team meetings and conference calls as needed
- Attended zoom meetings as needed for the planning of 2021 LOF summer tour
- Reported fleet mileage as needed during this quarter, changed oil, etc.
- Submitted Apr-June 2021 quarterly report
- Helped Janet with soil sampling on August 17-18
- Developed idea/ assembled a nationwide extension team/led a Honeycrisp summer webinar series
- Attended LOF team meetings and conference calls as needed
- Twelve more YouTube videos were uploaded in our YouTube channel this quarter
- Worked closely with JvZ and wrote as many Hort notes as needed for *Fruit Facts* during Q3

Stakeholder Contacts

- 5 site visits to assist growers (2 Orleans, 3 Wayne).
- Assisted stakeholders via texts, phone, and email (~20).

Integrated Pest Management – Janet van Zoeren

Educational Programs/Presentations

- 2021 LOF Summer Tour Planning
 - Phone calls & farm visits in July to try to secure a 3rd farm stop
 - Planning calls and visits
 - Bought beverages for the tour
 - Parking help all tour stops
 - Presented talk “New Weed Management Research” at LOF Summer Tour (200 attendees, Aug 12).
- Helped to organize webinar: “*Why are My trees Growing So Poorly?*” (130 attendees, Aug 2).
 - Presented talk “*Boring Beetles*” at the webinar

Publications

Fruit Notes

- Articles Written: Fruit notes newsletter
 - *Fire blight in WNY in 2021- We Were Hoping this was Last Year’s Problem!* (coauthored with Cox) – Volume 21, Issue 10.
 - *Why Are My Trees Growing So Poorly?* Webinar- Monday, August 2nd, 3-4 PM (coauthored with Basedow) – Volume 21, Issue 10.
 - *Signing Off for Now* – Volume 21, Issue 12.

Fruit Facts Articles Written:

- 10 issues

Applied Research Projects/Collaborations

- ARDP Project *“Optimizing Herbicide Strategies for Weed Control”* (PI-Mike Basedow)
 - Glyphosate herbicide application all treatments (July 11)
 - Soil health assessments and foliar nutrient analysis submission (Aug 18)
 - Glufosinate application and water sensitive paper analysis (Aug 19)
 - Herbicide injury and overall tree health assessment (Aug 30)
- ARDP Project *“Testing the role of latent viruses in the decline of apple trees”* (PI-Fuchs)
 - Fruit quality assessment at harvest (Sept 30)
- USDA NIFA Project *“Roots and Rapid Apple Decline”* (PI-Khan)
 - Continuing to map tree decline (July 29, Aug 23)
 - Site visit to trial use of Ground Penetrating Radar, with Awais Khan and Brett Caldwell (Aug 9)
- Unfunded Project *“Ambrosia Beetle (Black Stem Borer) Management”*
 - Monitoring using lured bottle traps and ethanol-soaked limb bolts (July-Sept)

Team and Other Duties

- Worked together with team to organize and facilitate the LOF summer tour (Aug 12).
- Worked together with LOF and ENY tree fruit team to begin organizing winter programming.
- Attended team meetings.
- Served on planning committee for the (postponed) 2021 Ag Extension Retreat.

Professional Development

- Attended (virtual) “Morning Brew” sessions, organized by Peter Jentsch at Hudson Valley (July-Aug).
- Attended in-person AgrAssistance Wayne County summer tour, to network with growers and consultants (Aug 4).

Stakeholder Contacts

- 17 site visits to assist growers (1 Niagara, 1 Orleans, 2 Monroe, 13 Wayne).
- Assisted stakeholders via texts, phone, and email (~40).
- Consultant Contacts

Grant Submissions, Re-Submissions, Letters of Support, Proposal Meetings

- Provided letters of support and revision support for USDA SARE Pollinator Education Program full proposal.

Other Area-Wide Education and Advocating

- Insect trapline to monitor phenology and abundance across Niagara, Orleans, Monroe and Wayne counties (collaboration with Liz Tee).
- Collaborated with the Motts facility to help identify internal lepidoptera and stink bug problems in incoming processing fruit.
- Advisory member for Mott's (Keurig Dr Pepper) sustainable agriculture initiative brainstorming sessions.
- Collected 10 soil and foliar samples to assess soil health and tree nutrition across region (with Mario Miranda Sazo).

Production Economics and Business Management – Mark Wiltberger

Educational Programs/Presentations

- **2021 LOF Summer Fruit Tour, August 12th**
 - I planned and moderated morning program of the 2021 Summer Fruit Tour on Thursday, August 12th.
 - The morning program had three stops on Morgan Farms in Marion, Wayne County.
 - The stops at Morgan Farms centered on the production practices of Morgan Farms. I introduced the farm managers and gave some history and approach of the farm. At each of the three stops, I led an “orchard walk” to look at specific blocks of apples and observe their production practices and resulting yields for fresh and process varieties.
 - The highlight of the orchard walk was looking at a brand-new high-density planting of the process variety of Golden Delicious. We discussed some of the costs of the planting and Dr. Terence Robinson gave a presentation on “Designing Processing Orchards for the Future.”
 - There were also presentations made on fire blight (Janet van Zoeren, Isabella Yannuzzi, and Dr. Kerik Cox), scarf skin management (Dr. Kerik Cox and David Strickland), the farmworker Masterclass Program (Nicole Waters), “Declining Blocks in High Density Orchards” (Dr. Awais Khan), and a labor update by Dr. Richard Stup.



Presenting the new high-density process apple planting at Morgan Farms on the LOF Summer Fruit Tour.

Publications

Fruit Notes

- Articles Written: Fruit notes newsletter

- *“What is Your Revenue Potential for that Block of Apples?: Price-Yield Tables for Process and Fresh Apple Orchards,” Mark Wiltberger. Volume 21, Issue 10, July 15, 2021.*
- *“2021 LOF Summer Fruit Tour” agenda, morning program at Morgan Farms, Volume 21, Issue 11, July 28, 2021.*

Fruit Farm Business Summary

- **2020 Fruit Farm Business Summary** – The 2020 Fruit Farm Business Summary is a 25-page report that summarizes the financial data of the participating farms in the Fruit Farm Business Summary.
- **2020 Fruit Farm Business Summary – Individual Farm Reports – 13 Farm Reports**. Each participating farm receives a customized, 22-page Individual Farm Report which has a comprehensive financial analysis of their farm business and an analytic comparison to the benchmark Summary report.

Applied Research Projects/Collaborations

- **2020 Fruit Farm Business Summary**
 - In July I analyzed and wrote the 2020 Fruit Farm Business Summary and 13 customized Individual Farm Reports based on the meetings I had with participants in the first and second quarters.
 - I then met with each participant in-person in August for a 2-hour follow-up meeting to discuss the Summary report and their individual farm report.
 - 13 farms participated in the 2020 Fruit Farm Business Summary. The Fruit Farm Business Summary is a detailed financial benchmark for the participating farms. The individual farm report and consulting session that each farm receives is a detailed comparison of the farm’s finances to the benchmark. This year the reports were finished in July and the in-person follow-up consultations were done with the farms in August.
- **NYS Ag & Markets Overtime Impact Study**
 - “Impact of NY Overtime Farm Labor Law on NY farmers,” NY Ag & Markets, Chris Wolf, lead. **FUNDED.**
 - As part of Chris Wolfe’s project study of the impact of the NYS overtime labor law on agricultural enterprises, I met in-person with 10 fruit farms in August and conducted an extensive interview. I also conducted an overtime labor survey with each of the farms. I transcribed the hand-written surveys and supplied them for the larger database of surveys conducted in for other agricultural sectors in the state. Leading up to the farm meetings, I participated in planning meetings for the design of the survey and the project.
 - Earlier in the year, NYS Ag & Markets asked Cornell University to assess the impact of the 2019 ag labor overtime laws on the different commodities of the agricultural sector, both the impact the law has already had and the impact the law will have if the overtime threshold is reduced from 60 hours per week to 50 hours or 40 hours per week. Cornell will be issuing a report to NY Ag & Markets later in the year based on the input from the in-person farm interviews and surveys.



Follow-up 2020 Fruit Farm Business Summary consultation with Bittner-Singer Orchards.

Faculty/Industry Collaborations

- **Cornell/Motts-KDP Processing apple grower collaboration**

LOF and Terence Robinson continued to have meetings with Motts-KDP to plan a “process apple grower” school in the winter and conduct a research trial of modern process apple planting systems.

Program Planning

- **2021 LOF Summer Tour.**

- Worked with team to begin to organize the 2021 LOF Summer Tour for August 12. As a team we chose the tour stops, decided on speakers and presentations, visited the stops to plan for talk locations and traffic management, and decided on lunch arrangements. I contacted and coordinated Ned Morgan and his farm managers to coordinate the visit to his farm and to collect information on the management and history of the business, and on the production practices of the blocks I presented on the “orchard walk.”

- **2021 Farm Management Retreat.**

- Met with the planning committee in the farm management specialists group to help plan the 2021 Farm Management Retreat in September 2021. Unfortunately, a few weeks before the retreat date, the retreat was canceled because of concerns about the delta variant of COVID-19.

- **2022 WNY-ENY Winter Meeting Plans.**

- LOF and ENY fruit specialists continued to meet to begin to plan 2022 winter programming.

Team and Other Duties

- Industry Meetings: Attended **Weekly Premier Apple Coop Marketing Calls**.
- Cornell Business Specialists: Attended **Bi-weekly Farm Business Management Specialist Calls**.
- Participated in weekly and monthly team meetings.
- Wrote 2021 LOF 2nd Quarter Report for Business Management and Production Economics.
- Reported mileage on personal vehicle.

Professional Development

- **Courses CU 101 – 106. Diversity, Equity, and Inclusion courses.** Attended and completed the six-course *Diversity, Equity, and Inclusion* series requirement for all Cornell staff.

Stakeholder Contacts

- 11 site visits to assist growers – primarily for Fruit Farm Business Summary, Overtime Interviews, and crop field visits (2 Niagara, 5 Orleans, 1 Monroe, 3 Wayne).
- Assisted stakeholders via texts, phone, and email (11).