

A partnership between Cornell University and the CCE Associations in these five counties: Monroe, Niagara, Orleans, Oswego & Wayne **Fruit** Notes

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

Cornell Cooperative Extension Lake Ontario Fruit Program

Volume 20 Issue 17 October 28, 2020

Pre-register Now for Our Annual LOF Advisory Committee Meeting (Zoom)

November 9, 2020 9:30 AM – 3:30 PM

Please join us (virtually) for our annual winter advisory meeting where you can spend time with the team reviewing the team's educational programs and most importantly providing us feedback. Advisory meetings are important for the team to ensure that our programs and research are aligned with the industry's needs. All are invited to this FREE event!

Please Pre-Register: <u>https://cornell.zoom.us/j/91817458122?pwd=cUM1VWVJbmM5cFNLNGxiUFVxOElYZz09</u> Questions? Don't hesitate to contact Craig 585-735-5448 or cjk37@cornell.edu.

Proposed Agenda:

- 9:30 Introductions
- 9:40 Review & Approve December 2019 Advisory Minutes
- 9:50 Cornell Update Chris Watkins
- 10:00 CCE Regional Team Updates Peter Landre
- 10:10 CCE County Association Updates ED's or Craig K.
- 10:30 Update of Advisory Committee Members
 - Committee Replacement Suggestions, County At-large, Committee Nominates

Oswego County (1) - VACANT

Wayne County (2) - replacing Eric Budinger & Jason Sonneville

- Committee Replacement Suggestions, County Representatives, Committee suggests, ED's invite

Monroe County (1) - replacing Jeremy Wolfe, Andrea Lists invites

Orleans County (2) - replacing Brett Kast, Robert Batt invites

Wayne County (2) - replacing Adam DeBadts & Adam Peters, Beth Claypoole invites

- 11:00 Craig Kahlke Program Review
- 11:45 Lunch
- 12:15 Mario Miranda Sazo Program Review
- 1:00 Janet van Zoeren Program Review
- 1:45 Mark Wiltberger Program Review
- 2:30 NY Tree Fruit Conference Feb 2-4 (virtual) Review of Sessions and Format
- 3:00 Calendar: Other events
- 3:10 "Around the Table" Final Thoughts
- 3:30 Adjourn



SAVE THE DATES! - CCE's NY Virtual Tree Fruit Conference sponsored by the CCE Eastern NY Commercial Horticulture Program and the CCE Lake Ontario Fruit Program

Virtual – February 2nd-4th, 2021

For 2021, this will replace CCE-LOF's Winter Fruit Schools and CCE-ENYCHP's Fruit & Vegetable Conference, along with the Empire Producer's Expo.

DEC Credits being applied for at multiple sessions

We are excited to be working with Dan Donahue and Mike Basedow (CCE-ENYCHP) to plan this 3 day virtual conference! Plan for 4 sessions/day over the 3 days (2 AM/2 PM). Each virtual session will be $1\frac{1}{2} - 1\frac{3}{4}$ hrs. Sessions/topics currently being planned for: Insect Management, Disease Management, Weed Management, Fruit Quality & Postharvest Handling, Labor, Markets, Horticulture, Precision Thinning, Bloom Thinning, and the Pollen Tube Growth Model, Honeycrisp Management, Climate Adaptability, Agritourism, Hard Cider, New Varieties.

There will be one registration fee (TBA) to attend any/all of the sessions as you see fit. In addition, the recording of the sessions will also be made available to registrants for later viewing. More to follow in the coming weeks!

European Cherry Fruit Fly (ECFF) Special Update

Margaret Kelly (NY DAM), Juliet Carroll (NYS IPM) and Janet van Zoeren (LOF)

In 2020, **ECFF was found across Monroe County to the eastern edge in traps**. Positive trap catches for this quarantine pest were predominantly near Lake Ontario, as opposed to inland in Monroe County. ECFF is advancing about 30 km per year eastward along the Lake Ontario shoreline, faster than inland or southward along Lake Erie's shoreline. This insect has a broad host range that includes the invasive shrub honeysuckle.

No ECFF worms were found in tart or sweet cherry fruit in commercial orchards. The systems approach and insecticide choices available to cherry growers are effective in protecting fruit from infestation with ECFF. The NYS Department of Agriculture & Markets is working to re-assess current quarantine restrictions, and to find the best way to adjust those protocols for 2021, given the expanding range of ECFF. Because of the trap catch findings, **the 2021 ECFF quarantine** <u>may</u> include parts or all of Monroe and Wayne Counties.

Presently, NYS Department of Agriculture & Markets Plant Industry personnel need to contact all cherry growers in Monroe and Wayne Counties.

A stakeholder meeting will be held this fall or early winter on ECFF. *Please plan to attend*.

Strawberry Grower Survey

The CCE Eastern New York fruit team, along with collaborators from the University of New Hampshire and University of Vermont, wants to learn more about the practices you use and the challenges you face in strawberry production. Your responses will help them better understand the diversity of practices used in the Northeastern U.S. and Canada, and will help them design research & outreach programs to provide the best resources for improving strawberry production on your farm. This information is being gathered for Northeast SARE project "Advancing Strawberry Production in the Northeast".

The survey is available

here: <u>https://unh.az1.qualtrics.com/jfe/form/SV_2</u> nlFpEZhejOEOPr

It should take approximately 15 minutes of your time. To thank you for your time, you can also be entered into a drawing to win fabulous prizes.

Learn more at the link above!

Fall Sanitation Season

Janet van Zoeren, modified and updated from a 2018 article by Tess Grasswitz

I know I want to start hibernating, with the cold rainy weather recently. Your orchards and fields are also about ready to be put to bed for the winter. This is the time of year where a little extra investment of time in sanitation and tidying up, which helps remove pathogen inoculum and insect pest overwintering sites, will pay off in dividends in the spring.

A summary of the recommendations for dormantseason cultural controls of various pests and diseases of both tree fruit crops and small fruits is provided in the tables below.

Suggested Cultural Controls by Crop

Timing	Disease/pest problem	Control tactic	Rationale
Early fall (as close to leaf-fall as possible)	Apple scab	Apply 5% urea to leaves on the orchard floor (40 lb feed-grade urea dissolved in 100 gallons of water per acre). Reduce subsequent nitrogen fertilization to prevent over-fertilization.	Accelerates decomposition, reduces over-wintering inoculum.
Post-harvest	Bitter rot	In affected blocks, completely remove decaying fruit from beneath trees or rake them to the row middles.	Reduces over-wintering inoculum.
Late fall	Apple scab	Use hail mower to chop leaf litter & dropped fruit.	Increases surface area of plant tissues to accelerate decomposition of over-wintering inoculum.
Dormant season	[General pest and disease management]	Prune during the dormant season to open up the canopy.	Improves air circulation, accelerates drying and improves spray penetration.
Dormant season	Fire blight	Prune out over-wintering infections (cankers). Make cuts at least 6 inches below any signs of dead bark (up to 12" if the canker edge is unclear). Remove & burn pruned material.	Reduces over-wintering inoculum.
Dormant season	Black rot, White rot, Bitter rot	Remove all dead, mummified fruit and cankers from affected trees. Remove & burn pruned material, or rake and chop them with a flail mower.	Reduces over-wintering inoculum and removes sites conducive to the proliferation of rots and <i>Nectria</i> .
Dormant season	Sooty blotch & flyspeck	Remove brambles from hedgerows next to orchards.	Removes alternate host plants to reduce inoculum sources.
Dormant season	Cedar-apple rust	Remove any Eastern red cedars in close proximity to orchards.	Removes alternate host plants to reduce inoculum sources.

Table 1: Apples

Dormant season	Scale insects	Train workers to recognize our species of scale insects. Inspect bark for overwintering scales and mark 'hot spots' for later treatments (e.g. with delayed dormant oils).	Dense overwintering populations are easier to see when no foliage is on the trees.
Before spring	[General pest and disease management]	Empty and clean apple bins that will be stored close to orchard blocks.	Reduces carry-over of pathogens and eliminates overwintering cocoons of internal fruit pests (e.g. codling moth)

Table 2: Stone Fruits

Timing	Disease/pest problem	Control tactic	Rationale
Just after autumn leaf drop	Cherry leaf spot	Use rotary mower on orchard floor after leaf drop.	Increases surface area of plant tissue to accelerate decomposition and reduce over- wintering inoculum.
Post-harvest	Brown rot	Remove any fruit remaining on the tree after harvest (particularly in blocks with high disease levels). If possible, bury culled or rotting fruit.	Reduces over-wintering inoculum. Reduces risk of infection of adjacent blossoms the following spring.
Dormant season (before bud- break)	Black knot	Prune out and remove all shoots & branches bearing knots. Cuts should be made at least 6-8 inches below the knot. Burn, bury, or remove prunings.	Reduces over-wintering inoculum.
		Remove knots from wild <i>Prunus</i> species (e.g. wild cherries or plums) in adjacent hedgerows.	
Dormant season	Scale insects	Train workers on how to recognize different species. Inspect bark for overwintering scales and mark 'hot spots' for later treatments (e.g. with delayed dormant oils).	Dense overwintering populations are easier to see when no foliage is on the trees.

Table 3: Blueberries

Timing	Disease/pest problem	Control tactic	Rationale
Post-harvest	Blueberry anthracnose	Remove and destroy any fruit remaining after harvest.	Reduces over-wintering inoculum.
Dormant season	[General pest and disease management]	Prune out weak canes, twiggy growth & all dead wood.	Improves air circulation, accelerates drying and improves spray penetration.

Dormant	[General pest	Protect crowns of bushes from	Winter injury increases
season	and disease	winter injury with mulches of	susceptibility to many diseases.
	management]	wood chips or straw.	
Dormant	Mummyberry	Remove fallen mummified berries	Reduces survival of over-wintering
season		from under bushes by raking,	inoculum.
		sweeping, or hoeing into row	
		middles. Bury mummies under 1–	
		2" of soil (by disking or	
		cultivating), or by applying a 1-2"	
		layer of mulch.	
Dormant	Stem gall wasp	Prune out and destroy (e.g. by	The wasp larvae overwinter in the
season		burning) any galls present.	galls.
Dormant	Scale insects	Train workers how to recognize	Dense overwintering populations
season		different scale insect species.	are easier to see when no foliage
		Inspect bark for overwintering	is present.
		scales and mark 'hot spots' for	
		later treatments (e.g. with	
		delayed dormant oils).	
Before bud	Phomopsis	Prune out and destroy dead twigs	Reduces over-wintering inoculum.
break	canker and	and canes; cut as deeply as	
	Fusicoccum	necessary to ensure complete	
	canker	removal of cankers.	

Table 4: Cane fruit (raspberries, blackberries, etc.)

Timing	Disease/pest problem	Control tactic	Rationale
As soon as possible after harvest	Anthracnose/ cane blight / spur blight	Promptly remove floricanes (those that have already fruited), and remove and destroy infected canes. Prune as close to the ground as possible.	Reduces over-wintering inoculum.
Dormant season	Anthracnose/ cane blight/ spur blight/ orange rust	Remove and destroy wild brambles in hedgerows adjacent to plantings.	Removes alternate (reservoir) host plants and reduces inoculum sources.
Before spring	Cane borers	Remove and burn any canes with symmetrical swellings (usually 1– 3" long and often close to soil level).	Prevents adult emergence from larvae which overwinter in the stem as galls.

CFAP 2 Deadline is December 11: Growers Should Look at Applying for this COVID-19 Financial Relief

Mark Wiltberger

The deadline for the second round of CFAP for Specialty Crops (dubbed "CFAP 2", short for Coronavirus Food Assistance Program 2) is December 11th. The program was announced on September 17th, in the middle of apple harvest. Now that harvest is coming to a close, there is time to take a look at the program and contact your local USDA FSA Office to apply. As the program is based on annual sales revenue, the payments for most producers in the LOF region should be substantial.

The first round of CFAP (now known as "CFAP 1") specifically applied to crop sales between January 15 and April 15 of 2020. Because of the nature of the sales cycles of specialty crops in New York State, the program ended up primarily applying to apples sold or not sold during those dates. According to U.S. Apple, over \$8 million was distributed to New York State apple growers by this program.

CFAP 2 is much more inclusive. Just about every specialty crop grown in New York State is eligible. In order to compensate growers for general hardship from the coronavirus crisis, the payments are based on the size of the business, specifically on the annual sales revenue of the business. 2019 sales revenues are used to determine business sales, although there are additional rules in place to calculate sales for businesses that started in 2020. Payments are based on a scale between 8.8 and 10.6% of annual sales.

Information on the program, including how to apply, is at the CFAP website here: <u>https://www.farmers.gov/cfap</u>. As was the case with CFAP 1, the pathway to applying and getting specific questions answered for your business is through your local USDA Farm Service Agency (FSA) office. You can look up your FSA contact information here:

https://www.farmers.gov/service-center-locator. The FSA office contact information for the five counties in the LOF region are listed below:

Niagara County	Orleans County	Monroe County
Lockport Service Center	Albion Service Center	Rochester Service Center
(716) 433-6703	(585) 589-5320	(585) 473-3440
FSA Contact: James McNeil	FSA Contact: Larry Meyer	FSA Contact: Molly Preston
james.mcneil@usda.gov	larry.meyer@usda.gov	molly.preston@usda.gov
Wayne County	Oswego County	
Lyons Service Center	Mexico Service Center	From:
(315) 946-9912	(315) 963-7283	https://www.farmers.gov/service-
FSA Contact: Alexandria Maher	FSA Contact: Krista Tyrrell	<u>center-locator</u>
alexandria.maher@usda.gov	krista.tyrrell@usda.gov	

Many questions are answered on the CFAP Frequently Asked Questions page, <u>https://www.farmers.gov/cfap/faq</u>, and in a webinar held September 24th, recorded here: <u>https://globalmeetwebinar.webcasts.com/viewer/</u> <u>event.jsp?ei=1372084</u>. Some key takeaways are here:

- Almost every specialty crop is eligible. As a presenter at the webinar put it: "If you can grow it, it's probably eligible."
- As with CFAP 1, the program is a payment, not a loan.
- Growers can apply for CFAP 2 even if they applied for and received CFAP 1. They are independent programs.
- The payment is for "income received for sales in the 2019 calendar year". The crop year is immaterial. For example, income received for 2018 apple crop in storage sold in 2019 would count. 2019 apple crop in storage sold in 2020 would not count.
- For value-added products, sales are based on the portion of the sales revenue from the value of the raw commodity. For example, for wine, payment would be based on the value of the grapes that went into the wine. The value of the grapes would be given a reasonable market value, even if the grapes were transferred to the same business for winemaking. A similar method should apply to other value-added products such as cider or other goods sold.
- The presenters assured that they are confident this program will not run out of funding. Growers will receive 100% payment upfront. There is not the urgency that CFAP 1 had for applying and an initial 80% payment. The deadline is December 11. However, as with many things, it is best to apply as early as possible. Payment has been made to growers in a matter of days, not weeks.

 If you applied for CFAP 1, much of your documentation for eligibility will already be in place for CFAP 2 application, which should make the process easier and faster.

This is a unique program that came about because of the unprecedented coronavirus crisis. As with other COVID-19 legislation that has come out of Congress, this program is meant to compensate businesses for hardship due to the crisis. The amounts of money are substantial. The application process is relatively straightforward. Take some time to look at applying for this program before the opportunity passes December 11th. You can contact me with questions at <u>mw883@cornell.edu</u>, or 315-272-8530.

New York Labor Roadshow IV, November 18 - November 24

Dr. Richard Stup, Ag Workforce Development Council

The Ag Workforce Development Council is hosting Labor Roadshow IV as a virtual event. A series of five one to two-hour webinars will be held online through Zoom at noon on November 18, 19, 20, 23, and 24. Cost is \$55 per person to attend all five webinars and to receive links to the webinar recordings. Register at <u>https://tinyurl.com/LaborRoadshowIV</u>.

New York Labor Road Show IV is an opportunity to learn about regulation changes and how to best position your business for compliance and success. Several important changes to state regulations occurred in 2020 that farm employers need to understand, including which employees are covered by overtime and day-ofrest and which can be designated as family members or exempt employees.

Topics will include:

- FLFLPA overtime and day-of-rest updates
- New NY permanent sick leave law and insurance requirements
- Paid family leave, disability, and worker's compensation
- Union education for farm managers
- FLFLPA employee housing requirements
- Sexual harassment prevention training requirements
- COVID-19 and farm workforce health

Featured speakers will include:

- Elizabeth Bihn, Ph.D., Cornell Institute for Food Safety
- Libby Eiholzer, Cornell Cooperative Extension
- Neil Gilberg, Advocate for Business, New York Worker's Compensation Board
- Kali Kniel, Ph.D., Professor of Microbial Food Safety, University of Delaware
- Jeanette Lazelle and Caylin Gwise, Division of Immigrant Policies and Affairs, NYS Department of Labor
- Steven Martin, Chief Sanitarian, NYS Department of Health
- Charles Palmer, Partner, Michael Best & Friedrich LLP
- Richard Stup, Ph.D., Cornell Ag Workforce Development

Ag Workforce Development Council member organizations include: NEDPA, Cornell Cooperative Extension, Cornell Agricultural Workforce Development, Cayuga Marketing, AgriMark, Upstate Niagara, New York Farm Bureau, New York Vegetable Growers Association, New York Animal Ag Coalition, Agri-Placement Services, New York Horticultural Society, Dairy Farmers of America, Farm Credit East, Gray & Oscar LLC.

For full list of speakers and registration link see: https://agworkforce.cals.cornell.edu/2020/ 10/21/new-york-labor-roadshow-iv/

Legal Entities for Farm Businesses: LLCs and Trusts, Webinars November 5 & November 19

This 2-part virtual mini-series will cover LLCs and trusts, two legal entities common among agricultural businesses. The sessions are designed to help farmers and rural landowners evaluate whether these legal entities would be appropriate for their individual situations and goals.

Cost is \$10 per farm for both sessions. Register to attend the live webinars and receive access to recordings after each session.

Is an LLC Right for Me?

1pm-2pm, Thursday November 5, 2020 with Chris Anderson, Farm Credit East

Have you ever wondered whether forming an LLC would be good for your farm? This workshop is for any agricultural business operating as a sole proprietorship or partnership, interested in learning about the costs and benefits of Limited Liability Corporations. Chris Anderson from Farm Credit East will review common farm business structures, then discuss how to evaluate whether an LLC is a good fit for your specific circumstances. We will also discuss the process of setting up an LLC, selecting and working with advisors, and making changes to an LLC over time.

What is a Trust & Does My Farm Need One?

1pm-2pm, Thursday November 19, 2020 with Anna Richards, 2020 Consulting

This session will help farmers and rural landowners understand what a trust is, and whether it is the right tool to protect and manage their assets. Our speaker, business consultant Anna Richards, will describe several types of trusts that are commonly used in farm business and succession planning, and discuss the process a farm goes through to set up and manage a trust.

Register here: <u>https://scnydfc.cce.cornell.edu/event.php?id</u> =1328

USDA Announces Fourth Round of the Farmers to Families Food Box Program

(Washington, D.C., Oct. 23, 2020) – The U.S. Department of Agriculture (USDA) today announced it has authorized \$500 million for a fourth round of purchases for the <u>USDA Farmers to</u> <u>Families Food Box Program</u> (<u>https://www.ams.usda.gov/selling-food-tousda/farmers-to-families-food-box</u>). USDA is issuing solicitations for the fourth round to existing Basic Ordering Agreement (BOA) holders and expects to award contracts by Oct. 30 for deliveries of food boxes from Nov. 1 through Dec. 31, 2020.

For the full press release, see:

https://www.usda.gov/media/pressreleases/2020/10/23/usda-announces-fourthround-farmers-families-food-box-program

NY Berry Growers' Association & Cornell University 5-Minute Berry Pricing Survey

Dr. Miguel Gómez, The Charles H. Dyson School of Applied Economics and Management

Partnering with NY Berry Growers' Association, Cornell University conducts a berry pricing survey across New York State every two years. This project aims to make recent

statewide berry pricing information available to berry growers so they can better evaluate the economic returns of their various berry crops.

We invite you to participate in this voluntary 5minute survey. All response data are confidential and only aggregated results are used. Please click on the link to the online survey below. You will also soon be receiving a paper copy of the survey in the mail, but please complete only one survey and make sure you fill in your name on the survey, so we do not double count you.

https://cornell.qualtrics.com/jfe/form/SV_6G1x0j BqkRzVIih

Please contact Zoey Yang at <u>zy357@cornell.edu</u> with questions relating to the survey.

Crop Insurance Deadline Nears in New York, Closing Date November 20

Apple, Grape, Peach, Pear, and Tart Cherry Growers Need to Make Insurance Decisions Soon

RALEIGH, N.C., Oct. 19, 2020 — The USDA's Risk Management Agency (RMA) reminds New York apple, grape, peach, pear, and tart cherry growers that the final date to apply for crop insurance coverage for the 2021 crop year is November 20. Current policyholders who wish to make changes to their existing policies also have until November 20 to do so.

Federal crop insurance is critical to the farm safety net. It helps producers and owners manage revenue risks and strengthens the rural economy. Coverage for apples, grapes, peaches, pear, and tart cherries is available in select counties. Additional information can be found on the <u>Actuarial Information Browser</u> (https://webapp.rma.usda.gov/apps/actuarialinfor mationbrowser/) page on the RMA website. Growers are encouraged to visit their crop insurance agent soon to learn specific details for the 2021 crop year, including insurance for apples, grapes, peaches, pear, and tart cherries. Additional crops or counties may be eligible for coverage under a written agreement. Crop insurance coverage decisions must be made on or before the sales closing date.

For full press release see:

https://www.rma.usda.gov/en/RMALocal/Field-Offices/Regional-Offices/Raleigh-North-Carolina-Regional-Office-Page/Region-News/2020-News/NY-Apple-Grape-Peach-Pear-Tart-Cherry-Growers

Meeting Title	Annual LOF Advisory Committee Meeting (via Zoom)
Dates	Monday, Nov 9, 2021
Time	9:30am-3:30pm
Location	Online, via Zoom
Brief Description of Meeting	See article on page 1 in this issue. Please join us (virtually) for our annual winter advisory meeting where you can spend time with the team reviewing the team's educational programs and most importantly providing us feedback. Advisory meetings are important for the team to ensure that our programs and research are aligned with the industry's needs. All are invited! Full agenda forthcoming in a few weeks.
Cost	Free
Registration/Contact	Please Pre-Register: <u>htps://cornell.zoom.us/j/91817458122</u> <u>?pwd=cUM1VWVJbmM5cFNLNGxiUFVxOEIYZz09</u> Questions? Don't hesitate to contact Craig 585-735-544 8 or <u>cjk37@cornell.edu</u>
Meeting Title	CCE's NY Virtual Tree Fruit Conference sponsored by the CCE Eastern NY Commercial Horticulture Program and the CCE Lake Ontario Fruit Program
Dates	Feb 2-4, 2021
Time	TBD
Location	Virtual
Cost	TBD
Brief Description of Meeting	See article on page 2 in this issue. For 2021, this will replace CCE-LOF's Winter Fruit Schools and CCE-ENYCHP's Fruit & Vegetable Conference, along with the Empire Producer's Expo. DEC Credits being applied for at multiple sessions More to follow in the coming weeks!
Registration/Contact	Stay tuned for more information

Mark Your Calendars

Cornell Cooperative Extension

Lake Ontario Fruit Program 12690 Rt. 31 Albion, NY 14411

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Mark Your Calendar

Contact Us

Fruit Notes

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

Fruit Specialists



Craig Kahlke 1585-735-5448 1 cjk37@cornell.edu Team Leader, Fruit Quality Management

Areas of Interest: Fruit Quality and factors that affect fruit quality before, during, and after storage, Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums



Mario Miranda Sazo | 315-719-1318 | mrm67@cornell.edu Cultural Practices

Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Gooseberries, Nectarines, Peaches, Pears, Plums



Janet van Zoeren 1585-797-8368 1 jev67@cornell.edu Integrated Pest Management (IPM)

Areas of Interest: IPM of tree fruit and berry pests, biological control, and pollinators. Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Nectarines, Peaches, Pears, Plum



Mark Wiltberger I 315-272-8530 I mw883@cornell.edu Business Management

Crops: Apples, Cherries, Nectarines, Peaches, Pears, Plums

For more information about our program visit us at lof.cce.cornell.edu