

# Conservation Crier

Vol. 29, No. 1  
Spring 2020

Newsletter of the  LANCASTER COUNTY CONSERVATION DISTRICT

## TREE SALE 2020

### ADMINISTRATOR'S CORNER

When you mention Conservation in Lancaster County, you can't help talking about collaborations, partnerships, connections, and cooperation. Successful conservation practices, conservation education, and funding for conservation cannot stand alone. Individuals, agencies, schools, municipalities, businesses, private and public organizations all work together in Lancaster County to make conservation happen. Recognizing the value in collaborating, the Lancaster County Conservation District has highlighted a variety of benefits in reaching out to offer assistance, provide leadership, and make resources available as you read through this newsletter.

As the District Administrator, collaborations are literally a part of each day. From state agencies to local volunteers, conservation work depends on partners who are willing to work together. We're thankful for those partners who have been working alongside the District since day one, and value the chance to connect with folks who offers different or new opportunities.

This edition of the Conservation Crier highlights several collaborations the Conservation District is currently involved with.

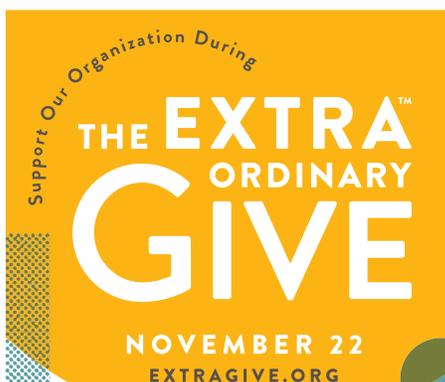
—Chris Thompson, Administrator

### Thank You for Giving Extraordinarily

On behalf of the students and teachers throughout Lancaster County, special thanks to all who donated to the Conservation Foundation of Lancaster County during the Extraordinary Give in November 2019. More than \$4,000 donated will support valued educational programs including the Lancaster County

Envirothons and the Lancaster County Youth Conservation School.

Thank  
You!



### Tree Sale Branches Out

The Lancaster County Conservation District is pleased to host the 46<sup>th</sup> Annual Tree Seedling Sale, April 8, 2020. All trees and perennials are pre-ordered with orders due Monday, March 9, 2020. Orders will be ready for pick up during a one day distribution, Wednesday, April 8, 2020 from 8 AM – 7 PM.

Each year, new collaborations with county residents and beyond commit to landscapes with new seedlings. Whether you are ordering for the first time or a long-time supporter to the Tree Seedling Sale you'll find some new selections on the list this year. If you're looking for a creative selection why not plant a Food Forest. While Food Forests are becoming popular in planning a home garden, you may also consider a Food Forest for wildlife. The possible combinations can be very creative. Descriptions and photographs illustrating full grown species are provided in this newsletter.

Your investment in the Tree Sale also allows the Conservation District to continue valuable education programs relating to watersheds, wetlands, and conservation practices. Thank you, we look forward to collaborating with you this year.

—Matt Kofroth & Sallie Gregory, Committee Co-chairs

### Tree Sale Pick Up

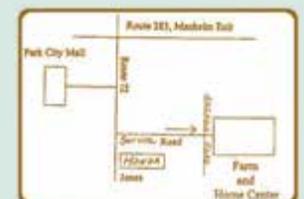
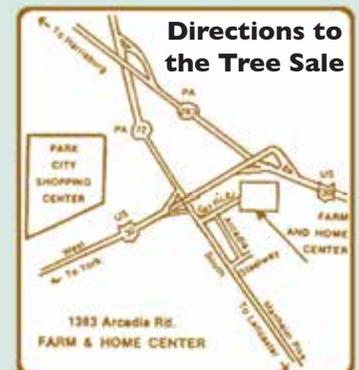
Wednesday, April 8, 2020 • 8AM – 7 PM  
FARM AND HOME CENTER AUDITORIUM  
1383 Arcadia Rd, Lancaster PA

#### West of Lancaster

Rt 30 East to Rt 72 (1st Exit Past Park city)  
Turn right at ramp stop sign.  
Turn left at Jones Honda dealership.  
(Service Rd.)  
Go straight at stop sign to enter  
Farm and Home parking lot.

#### East Of Lancaster

Rt 30 West to Rt 283 West to Rt. 72.  
Turn left on Rt. 72 going South under the  
Rt. 30 bypass.  
Turn left at Jones Honda dealership.  
(Service Rd.)  
Go straight at stop sign to enter Farm and  
Home parking lot.



—Sallie Gregory, Matt Kofroth,  
Committee Co-chairs

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Daniel C. Heller, *Chairman*  
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Kent Weaver, *Treasurer*  
Herb Kreider  
Kenneth Meck  
Roger Rohrer  
Jay Snyder  
Sonia Wasco  
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Gregory Strausser  
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Alfred Wanner Jr.  
Matthew Young  
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Kim Dugan, *Sec./Receptionist*  
Holly Shaub, *Sec./Receptionist*  
Stacey Meyer, *Finance Manager*

### Erosion and Sedimentation

Nate Kurtz, *Department Manager*  
David Bednar, *Resource Conservationist*  
Emily Broich, *Resource Conservationist*  
Eric Hout, *Resource Conservationist*  
Adam Stern, *Resource Conservationist*  
Ryan Weck, *Resource Conservationist*  
Suzanne Kopp, *E & S Secretary*

### Agriculture

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Kevin Seibert, *Ag Compliance Coordinator*  
James Saltsman, *Ag Eng Tech Spec*  
Adam Hartz, *Ag Eng Tech Spec*  
Kent Bitting, *Professional Engineer*  
Francesca DePrator, *Ag Compl. Insp*  
Justin Furnia, *Ag Compliance Insp*  
Greg Heigel, *Ag Conservation Tech*  
Kevin Lutz, *Ag Conservation Tech*  
Steven Reiff, *Ag Conservation Tech*  
Maddie Klein, *Ag Conservation Tech*  
Samantha Adams, *Ag Conservation Tech*  
Emily Corkhill, *Ag Conservation Tech*  
Derrick Fidler, *Ag Conservation Tech*  
Hannah Hunsberger, *Ag Conservation Tech*  
Dennis Eby, *Plain Sect Outreach*

### Watershed and Education

Shelly Dehoff, *Ag/Public Liaison*  
Sallie Gregory, *Education Coordinator*  
Matthew Kofroth, *Watershed Specialist*  
Nate Straw, *Watershed Assistant*  
Bryce Workman, *Watershed Resource Tech.*  
Allyson Gibson, *Clean Water Partners Coord.*

## USDA Natural Resources Conservation Service

Heather Grove, *District Conservationist*  
Kefeni Kejela, *Soil Conservation/District Conservationist*  
Mark Myers, *Soil Conservationist*  
Mark Long, *Soil Conservationist*  
Mick Albert, *Soil Conservationist*  
Ashley Spotts, *Restoration Specialist-CBF*  
Jeff Sholly, *TAG Engineer*  
Julia Smith, *Wildlife Biologist, Pheasants Forever*

## Lancaster Co. Conservation District

1383 Arcadia Rd., Room 200  
Lancaster, PA 17601

Phone: 717-299-5361 Fax: 717-299-9459  
[www.lancasterconservation.org](http://www.lancasterconservation.org)



## Lancaster County Youth Conservation School

### Explore, Learn, Repeat

*"We did so many fun hands on things that let me put the things I learned into use and made it a super enjoyable time. My favorite activity that we did was actually the final "test". It was more like a set of activities that we learned about throughout the week and it was a blast! I wish I could do more things like this school all the time."* – Owen

The Lancaster County Youth Conservation School will take place July 19-25, 2020. Open to students ages 14-16; this is a summer adventure worth taking that would not be possible without an exceptional partnership.

The Lancaster County Conservation District has proudly partnered with local Sportsmen's Clubs for 42 years to offer a weeklong summer field school focusing on outdoor activities and conservation of our natural resources. Students reside at the school with tents and use cots to demonstrate low impact camping at the Northern Lancaster County Fish and Game Protection Association in West Cocalico Township.

Motivated students should apply. Students gain knowledge about wildlife and conservation, leadership experience, and communication skills. There are many study topics to empower students, ensuring a sustained conservation legacy. Topics include stream restoration, biodiversity, orienteering, macroinvertebrate study, forestry, canoeing, wildlife management, archery, survival, and firearm safety. Students will have the opportunity to meet professionals in various environmental and conservation related fields and discuss career options with them.

Students benefit from generous County Federated Sportsmen's Clubs and Community Organizations who provide 90% of the tuition to attend. Students are responsible for a \$25 registration fee. To receive an application, contact the Conservation District at 717-299-5361 x.5 or click [www.lancasterconservation.org](http://www.lancasterconservation.org) by June 15.

–Sallie Gregory, Education Coordinator

## New Staff

**Ryan Weck** is a new Resource Conservationist in the E&S department at the District. His previous work experience prior to moving to Lancaster includes Environmental Contractor and Environmental Laboratory Field Technician while residing in southeastern Virginia. Ryan grew up in southern New Jersey and joined the US Navy as an Aviation Structural Mechanic. During his four-year enlistment, he was homeported at NAS Whidbey Island, WA and was deployed to Okinawa, Japan and Bahrain. After enlistment he moved to North Philadelphia to be closer to his family, where he received a B.S. in Environmental Science from Temple University. Ryan enjoys musical performance, urban gardening and foraging, hiking, and has recently developed an interest in permaculture.



Left to right, Ryan Weck; Adam Stern

**Ryan Weck** – Brecknock Twp, Caernarvon Twp, Clay Twp, East Earl Twp, Ephrata Boro, Ephrata Twp, Terre Hill Boro

**Adam Stern** – Leacock Twp, Lititz Boro, Manheim Boro, Penn Twp, Upper Leacock Twp, Warwick Twp

**Adam Stern** joined the Conservation District in October as a Resource Conservationist in the Erosion & Sedimentation Department. He is a Lancaster County native and grew up in Elizabethtown. Adam received his B.S. from Messiah College majoring in Environmental Science and minoring in Adventure Education. He has worked in a variety of fields including summer camp management, grounds maintenance and natural lands management. In his free time, Adam enjoys spending time outdoors and is an avid birder, distance runner and skier. He loves all things related to pop culture and enjoys reading, attending concerts & live theater and listening to music.

# Funding Opportunities for Agricultural Projects



**T**he Lancaster Conservation District (LCCD) offers a variety of resources for financial assistance to encourage the implementation of agricultural best management conservation practices. Many of the funding programs are referred to by acronyms which can be daunting for one unfamiliar with the lingo, but LCCD is here to provide a brief overview and resources that provide more detailed information and make these programs easily accessible to producers.

## REAP

REAP is the Resource Enhancement and Protection Program. REAP acknowledges and rewards agricultural producers for the environmental benefits derived from implementing “Best Management Practices” (BMP) on the farm through PA state tax credits. The program is overseen by the State Conservation Commission and the tax credits are granted by the Pennsylvania Department of Revenue. Qualified applicants can receive 50 -75% of the cost of a BMP implementation project as state tax credits, up to \$150,000 per agricultural operation. REAP can also be used for conservation tillage equipment if it is needed to help the producer meet their soil loss numbers as described in their Ag Erosion and Sedimentation conservation plan.

## ACEP

ACEP is the Agricultural Conservation Easement Program. It provides financial and technical assistance to conserve wetlands and agricultural lands to ensure long-term viability in national food production. ACEP limits the conversion of farmland to nonagricultural uses and protects wetlands and the many ecological services and benefits they provide.

## CSP

CSP is the Conservation Stewardship Program. It helps agricultural producers maintain and improve their existing conservation activities to continue addressing priority resource concerns. CSP payment quantities are determined by the quality of conservation performance, the higher the quality the better the return.

## AMA

AMA is the Agricultural Management Assistance Program. This program helps manage agricultural producer’s financial risk through diversification, natural resource conservation practices, or marketing. Natural Resources Conservation Service (NRCS) oversees the AMA conservation practices, and Agricultural Marketing Service and Risk Management Agency oversees diversification and marketing practices.

## Exelon

The Exelon Habitat Improvement Project (HIP) Funds provided by the PA Department of Environmental Protection pursuant to the Water Quality Certification for the Muddy Run Pumped Storage Project and Related Mitigation utilizes annual funding for the implementation of agricultural pasture and barnyard best management practices to address sediment introduction and other habitat improvement projects including stream restoration. Priority HIP funding is given to forested stream buffers and wetland creation projects. Currently, projects are submitted through the District’s Agricultural Conservation Technicians and the Watershed Specialist.

### Additional information about funding opportunities:

REAP:

[https://www.agriculture.pa.gov/Plants\\_Land\\_Water/StateConservationCommission/REAP/Pages/default.aspx](https://www.agriculture.pa.gov/Plants_Land_Water/StateConservationCommission/REAP/Pages/default.aspx)

ACEP:

<https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/easements/acep/>

CSP:

<https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/csp/>

AMA:

<https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/programs/financial/ama/>

*–Hannah Hunsberger, Ag Conservation Technician*



## Dirt & Gravel & Low Volume Road Program Collaboration

The Pennsylvania Dirt & Gravel/Low Volume Road (DGLVR) Program has had great success for over 20 years through cooperation and collaboration with various partners statewide. The program itself is based through the Pennsylvania Department of Agriculture (PDA), meaning this is where money is passed through to county conservation district's for local dirt & gravel or low volume road projects. Funding is intended for the environmentally sensitive maintenance of these types of roads and to make sure the roads are not negatively impacting the local waterway they are traversing. This is done through grants the conservation district awards to local road owning entities; mostly local municipalities, to improve these roads. The collaboration between the conservation district and the municipalities conducting the project is critical so all entities are aware of the problems facing the road and the waterbody.

There are 80 miles of dirt and gravel roads in Lancaster County. There are only 2 staff members of the Dirt & Gravel/Low Volume Road Program at PDA so assistance is needed to run the program statewide. Enter the Penn State Center for Dirt & Gravel Road Studies. The Center, as they are known as, assists the program by offering assistance to county conservation districts on project layouts, and municipalities with potential solutions for road problems, and conducts various field and product evaluations for the overall program. The Center also coordinates and runs the two day training all municipalities must participate in every 5 years to be eligible for project funds. The training is not just a class but a how-to guide on dealing with dirt & gravel or low volume roads and the streams they approximate.

The collaboration between PDA, the Center, local county conservation district, and the dirt & gravel or low volume road owning entities (municipalities) is one that other states are trying to emulate because of its success. Since 1997, more than \$963,000 has been spent to improve and sustain 124 dirt and gravel road projects in the county. \$1.7 million dollars has supported 65 low volume roads in the county since 2014.

If you have any questions about the Dirt & Gravel/Low Volume Road Program please feel free to contact the District to answer your Dirt & Gravel or Low Volume Road questions at 717-299-5361 x.5.

–Matt Kofroth, *Dirt & Gravel/Low Volume Rd. Program Manager*

## Teamwork for Water Quality

Through the Erosion and Sediment Control program, the Lancaster County Conservation District has the opportunity to collaborate with landowners, developers, excavators, consultants, municipalities, and the general public to minimize water quality impacts to our local streams and wetlands. The Erosion and Sedimentation (E&S) department staff cultivate these collaborations throughout the year.

A landowner who wants to build a home or barn contacts an engineer to design the project and later contracts an excavator to perform the earthwork. A developer who envisions a new commercial building does the same, as does a public agency planning an infrastructure project.

A component of these plans includes a way to keep sediment from leaving the construction site.

The E&S Department at the District reviews erosion and sediment control plans for compliance with state regulations and conducts inspections of earth disturbance sites.

The District also collaborates with municipalities through a Memorandum of Understanding (MOU). The MOU outlines the extent of responsibilities between each organization. Municipalities can expect the District to administer state regulations pertaining to the Chapter 102 program (Erosion and Sediment Control) and Chapter 105 program (Dam Safety and Waterway Management), and to coordinate with municipalities on earth disturbance activities of common concern.

Municipalities may notify the District if unpermitted earth disturbance is noticed. Likewise, each year, the E&S Department provides municipalities with a list of inspections, complaints, and National Pollutant Discharge Elimination System (NPDES) permits issued in respective townships. This list of activities can help municipalities fulfill their Municipal Separate Storm Sewer System (MS4) reporting requirements.

The District assists municipalities with environmental concerns, permit applications, and resource management issues within the scope and resources of its role under the delegation agreement with PA Department of Environmental Protection (DEP). As necessary, the District will also enlist assistance from other cooperating agencies.

The District commonly assists county residents with their natural resource concerns via phone and email. Contact the Conservation District for more information at 717-299-5361 x.5.

–Emily Broich, *Ryan Weck, Resource Conservationists*





*Conestoga River before project*



*Conestoga River after project*

## Historic Poole Forge Stream Restoration Partnership

Historic Poole Forge is a hidden gem in eastern Lancaster County that has a wide array of visitors; from wedding parties, the local community, educational events, and a bountiful amount of wildlife. The recent Conestoga River stream restoration project was initiated by Dawn Ekdahl Historic Poole Forge Executive Director. Dawn was interested in how she could enhance the property to improve wildlife habitat. The project was completed through a partnership between Caernarvon Township, Historic Poole Forge, the U.S. Fish and Wildlife Service, Habitat Forever, the Alliance for the Chesapeake Bay, and the Lancaster County Conservation District in the spring of 2019. The project stabilized the stream banks from erosion, provided in-stream habitat for fish, and tree plantings within the riparian buffer. Every year in the spring, a fishing derby is held at the site. Through partnerships this project enriched the benefits and beauty of the property and has created a showcase for the local community demonstrating what a healthy stream looks like.

*–Nate Straw, Watershed Assistant*

# Tree Sale Order Form Due March 9, 2020

## Outreach Transition

For the last 12 years Dennis Eby has been working full-time as the Plain Sect Outreach Coordinator to the agriculture community for the Lancaster County Conservation District. His work has included among other things, presenting at various farmer meetings, providing literature by way of Conservation District informational displays, and one-on-one Manure Management Planning. Dennis has become a face for the Conservation District in the agriculture community, especially in Plain Sect areas of the county. Last year Dennis went to a part-time position, three days a week. Greg Heigel was named as the future outreach coordinator and will be working in partnership with Dennis over the next several years. This will involve serving together at some meetings or individually at others.

Greg brings a wealth of knowledge to the outreach position. He graduated from Penn State University and served as a Peace Corps volunteer, before working 18 years in produce production for Amos Funk. Greg has worked 12 years as an Ag Conservation Technician for the Lancaster County Conservation District, which involves writing Erosion and Sedimentation conservation plans, designing farm BMP (Best Management Practices), as well as certification as a Nutrient Management specialist.

For more information or to speak with Dennis or Greg please contact the Conservation District at 717-299-5361 x.5.

*–Dennis Eby, Plain Sect Outreach Coordinator*

## Congratulations Eric!



*Eric Hout, Resource Conservationist, earned the Certified Professional in Erosion and Sediment Control in 2019.*

# Conservation Assistance Through Partnership

The Natural Resources Conservation Service (NRCS) is an agency committed to “helping people help the land” – our mission is to provide education, technical and financial resources to farmers and private landowners to aid them with managing and conserving the natural resources on their land. But we don’t do this alone. NRCS staff work closely with natural resource partners in both non-governmental organizations as well as other local, state and federal government agencies. Through these partnerships we’re able to meet the changing needs of our customers and provide the highest quality technical assistance possible.

Listed below are just a few examples of NRCS partnerships utilized in Lancaster County to assist landowners.

## ENVIRONMENTAL QUALITY INCENTIVES PROGRAM (EQIP)

EQIP is a program administered by NRCS that assists ag producers and private landowners in identifying natural resource concerns, such as soil erosion, water quality degradation, degraded wildlife habitat, and helps by providing the planning, design and potentially financial assistance to implement conservation practices that address and remedy these resource concerns.

### Conservation Practice Installation - NRCS & Lancaster County Conservation District (LCCD)

NRCS and LCCD have a long-standing partnership providing engineering assistance to EQIP contract holders in Lancaster County. Landowners working to improve natural resource concerns on their land work closely with both LCCD engineering technicians and NRCS planners to survey, design and install conservation practices identified in their conservation plans. This can include practices like manure storages, mortality composting facilities, grassed waterways, terraces or livestock watering systems. Follow-up assistance for the long-term operation and maintenance of conservation practices installed through the program is also available.

### Forest Management - NRCS & PA Department of Conservation and Natural Resources (DCNR)

NRCS and DCNR’s Bureau of Forestry work together to connect with private forest landowners and inform them about technical and financial resources available for managing their forest land. DCNR foresters and NRCS planners will present options for obtaining a forest management plan as well as how to move forward with the management activities identified in their plans. Activities can include controlling invasive species, replanting native trees and shrubs, or managing overstory and understory vegetation to improve forest structure and stocking.



## CONSERVATION RESERVE ENHANCEMENT PROGRAM (CREP)

CREP is a financial assistance program administered by the USDA Farm Service Agency (FSA). Technical assistance for the program is provided by NRCS and partners. This program assists ag producers and private landowners in protecting soil, water quality, and wildlife habitat by removing highly erodible or environmentally sensitive land from agricultural production through long-term rental agreements.

### Riparian Buffer Establishment - NRCS & Chesapeake Bay Foundation (CBF)

NRCS and CBF have partnered for many years to plan and implement riparian buffers through CREP. Landowners work closely with CBF restoration specialists to plan riparian buffers that meet the specific needs of their land. If livestock are present on the land, CBF specialists will work with NRCS or LCCD engineering technicians to plan and install streambank fencing, stream crossings, or livestock watering systems. Once planted, landowners will continue to work together with CBF specialists throughout the establishment period as well as for long-term management of the buffer. Guidance on weed and pest control and enhancing the buffer area once trees and shrubs are established is provided throughout the life of the agreement.

### Upland Wildlife Habitat Establishment - NRCS & Pheasants Forever (PF)

For the past several years, NRCS and PF have partnered to implement upland wildlife grassland and tree plantings through CREP. Landowners work closely with PF biologists to plan upland wildlife plantings, that not only create new wildlife habitat, but also address potential soil erosion and water quality concerns on highly erodible land. They’ll work with the biologist to identify the best type of vegetation for their land. One on one assistance is available throughout the establishment period as well as for long-term management of the stand. Guidance on weed and pest control and enhancing the existing stand are provided throughout the life of the agreement.

For more information on any of the programs or technical assistance opportunities listed above, visit the Lancaster NRCS Field Office at the Lancaster Farm & Home Center or call (717) 299-2556.

–Heather Grove, District Conservationist



# FREE Compost at Tree Sale

Nearly all Pennsylvania soils are low in organic matter. An increase of only 1 to 1.5% organic matters will greatly improve the physical quality of soil and result in better root penetration. Composted organic matter can be a very effective addition to soil which, in time, will decompose to enhance the quality of soil. *Source: Penn State University, College of Agricultural Sciences.*



**FREE compost will be available to all Tree Sale customers. Please bring 1-2 buckets to fill.**



## GALARINA™ (X-4982 CLTV)

Developed in France, this apple is a cross between Gala and Florina varieties. Considered an “improved Gala”, Galarina is hardier than Gala and exhibits a high tolerance to apple scab, mildew, and fire blight. The small to medium sized apples are crisp and sweet making them great for fresh eating and cooking. Store Galarina apples in cold storage for up to 4 months. Galarina is a good choice for wildlife plantings as the fruits hang on the trees well into late fall!

- R** EMLA 111
- H** 4-5 ft
- BT** Mid-season
- RT** Late Sept.-Early Oct.
- C** Red to Orange-Red
- O** Semi-dwarf rootstock that is well anchored and a good selection for heavy, poorly-drained soils

## FRUIT TREE SELECTIONS

**R = Rootstock**                      **RT = Ripening Time**  
**H = Height at Pickup**        **C = Color**  
**BT = Blooming Time**        **O = Other**



### PRIME ARK FREEDOM BLACKBERRY

Thornless primocane fruiting blackberry. Can be managed for summer and fall fruiting or just fall. Released from Dr. John Clark Univ of Arkansas. Large fruit, excellent flavor. Soft fruit not for shipping. pH 6.5-6.8 Primocane blackberries respond favorably to tipping! As the primocanes reach 12-15" in height, break or cut 3/4-1" off the tip of each cane to force branching. Tip again when branches reach 30". This process stimulates earlier fruit development, keeps plant height in check, and increases yield.



### NIWOT PRIMOCANE BLACK RASPBERRY

From Peter Tollman in Colorado, ripens earlier than Jewel in summer, and will produce fall crop. Highly productive, space 3-4 ft in row. When canes reach 3 ft, as soon as possible tip 3-5 inches off canes to encourage more fruit. Soil pH should be 6.5-6.8.



### GOLDRUSH

Introduced in 1994, GoldRush is good for organic growers due to its resistance to scab and mildew. This apple has a tart taste when eaten off of the tree, but it sweetens with storage. Apples keep in cold storage for 10-11 months! Trees typically start bearing fruit in the 2<sup>nd</sup> year. GoldRush apples resist browning when cut, making them good for sauce, baking, and cider.

- R** EMLA 7
- H** 4-5 ft
- BT** Late season
- RT** Mid-late Oct.
- C** Green-yellow with red blush
- O** Semi-dwarf rootstock that is well anchored and hardy. Most widely used semi-dwarf free-standing rootstock.

**A/S = Age/Size**  
**G = Growing Conditions**  
**C = Characteristics**

# DESCRIPTION OF



## COLORADO BLUE SPRUCE

(*Picea pungens glauca*)

**A/S** 3-0 yrs., 8-12"

- G** Full sun or partial shade, prefers moist soils but very adaptive to any soil type.
- C** Stiff silvery-blue 1" needles, densely foliated. 30'-60' tall & 10'-20' spread. Slow growth rate.



## CONCOLOR FIR

(*Abies concolor*)

**A/S** 3-0 yrs., 10-14"

- G** Full sun & easily transplanted. Prefers a deep, well-drained soil with adequate moisture.
- C** Needles silvery blue-green, 2-3 inches long. Pyramidal shape, holding a dense, formal shape with age. 50'-75' tall & 20'-30' wide. Slow to medium growth rate.



## FRASER FIR

(*Abies fraseri*)

**A/S** 4-0 yrs., 10-14"

- G** Best growth if planted on a north or east hillside, well-drained soil.
- C** Great Christmas tree with soft needles which are shiny with silvery underside. Slower growing.



## HONEYLOCUST THORNLESS

(*Gleditsia triacanthos*)

**A/S** 1-0,2-0 yrs., 12-18"

- G** Moist, well-drained soil. Full sun (6 hrs direct light daily). Tolerant of poor soils.
- C** Fast growing tree with fragrant spring flowers. Honey locust is used extensively by wildlife. The bean pods are a favorite food of the white-tailed deer, squirrels, rabbits, hogs, opossums, and raccoons.



## RED OAK

(*Quercus rubra*)

**A/S** 1-0 yr., 12-18"

- G** Full sun & withstands urban conditions best. Well-drained, acidic, sandy loam soils are best.
- C** Long-lived, fast growing tree. Up to 75' tall. Red leaves in fall. Timber and wildlife value.



## RIVER BIRCH

(*Betula nigra*)

**A/S** 1-0 yr., 12-18"

- G** Tolerates heavy, poorly drained areas but widely adapted to varying soils. Full sun.
- C** Reddish brown exfoliating bark provides ornamental value. Often grows along streams. 50'-70' tall with medium to fast growth rate.



## SWAMP WHITE OAK

(*Quercus bicolor*)

**A/S** 1-0,2-0 yrs., 12-18"

- G** Tolerant of poorly drained sites and frequently found in mucky soils. Prefers full to partial sun.
- C** A rapidly growing tree that flowers in spring. Turning golden in the fall. Has a rounded open form. Can grow to 50'-60' tall and spread just as much.



## SYCAMORE

(*Platanus occidentalis*)

**A/S** 1-0 yr., 12-18"

- G** Full sun preferred. Moist, deep, rich, well-drained soils. Can tolerate moderate salt & drought conditions.
- C** Massive white branches, mosaic of colored bark. 75'-90' tall & 60'-70' wide. Leaves turn yellow-brown in autumn.



## TULIP POPLAR

(*Liriodendron tulipifera*)

**A/S** 1-0,1-1 yrs., 12-18"

- G** Prefers a deep, moist, fertile soil. Full sun and slightly acidic soils are best.
- C** Showy flowers resembling tulips. Wildlife and timber value. Fast growing. 70'-90' tall.



## BUTTONBUSH

(*Cephalanthus occidentalis*)

**A/S** 1-0 yr., 12-18"

- G** Full sun to light shade. Easily grown as long as the site is not dry.
- C** Shape is rounded & spreading. 3'-6' tall. Flowers globular heads, creamy white, about 1" across. Bloom June-August.

# TREE SALE ITEMS

**A/S = Age/Size**  
**G = Growing Conditions**  
**C = Characteristics**



## CORALBERRY (BUCK BRUSH)

(*Symphoricarpos orbiculatus*)

**A/S** 1-0 yr., 12-18"

- G** Grows well in both dry, rocky soil and moist, rich soil. Tolerates both sun and shade.
- C** Mature Height: 2-5 ft Hardy and fast growing. Fruit will hold well into winter. It produces small but pretty flowers. Bloom is mid-summer. Colors are pink, white and near white.



## SPICEBUSH

(*Lindera benzoin*)

**A/S** 1-0 yr., 12-18"

- G** Fast-growing shrub, useful in moist, shady places. More sun yields better form and more berries.
- C** Single or few-stemmed shrub, 6'-12' tall, with glossy leaves and slender light green branches. Dense clusters of pale yellow flowers.



## ELDERBERRY (BLACK)

(*Sambucus canadensis*)

**A/S** 2-0,3-0 yrs., 2-3'

- G** Prefers moist soils and full sun.
- C** A fast grower it can reach heights of 12' tall. Produces attractive white flowers and black/purple berries all season long. Berries are great for wildlife, jams and jellies.



## ARROWWOOD

(*Viburnum dentatum*)

**A/S** 3"x3"x9" Pot

- G** Full sun plants thrive in most well-drained soils and will grow in a wide variety of soils.
- C** Grow from six to as much as 10 to 15 feet tall and wide. Large, coarsely toothed leaves are usually glossy with flat-topped, four-inch-wide clusters of tiny white flowers that appear from late spring to early summer. The flowers are followed by blue-black fruit. In fall, the leaves turn yellow, red, or purple-red.



## NINEBARK

(*Physocarpus opulifolius*)

**A/S** 1-0 yr., 12-18"

- G** Grows best in acidic, well-drained soil in full sun to partial shade, but is adaptable to many soil conditions.
- C** Gets 6'-10' tall and wide. A white, cup-shaped flower head is attractive to birds, bees and butterflies. Golden yellow leaves in the fall.



## BLACK CHERRY

(*Prunus serotina*)

**A/S** 3"x3"x9" Pot

- G** Full to partial sun. Avoid poorly drained soil.
- C** Fast growing & valuable timber tree with multiple wildlife benefits. 50'-80' tall & 20'-50' spread.



## REDBUD

(*Cercis canadensis*)

**A/S** 2-0,3-0 yrs., 2-3'

- G** Full sun to light shade. Likes moist, well-drained soils. Avoid permanently wet soils
- C** Shape is rounded to broad & flat-topped. 20'-30' tall & 25'-35' wide. Lavender colored buds in early spring.



## RED MAPLE

(*Acer rubrum*)

**A/S** 3"x3"x9" Pot

- G** Full sun best but can tolerate partial shade. Prefers moist acidic soils. Tolerates occasional flooding & wet soils.
- C** Spread with age to become more oval shape. 40'-70' tall. Brilliant deep scarlet foliage in autumn. Relatively fast growing.



## SILKY DOGWOOD

(*Cornus amomum*)

**A/S** 1-0 yr., 12-18"

- G** Performs best in moist soils, somewhat poorly drained. Full sun to partial shade.
- C** Shrub 6'-10' tall. Brown to maroon bark, yellowish-white flowers in late Spring. Bluish fruit in Fall. Fast growth rate.



## WINTERBERRY

(*Ilex verticillata*)

**A/S** 3"x3"x9" Pot

- G** Full sun to partial shade; more sun means more fruit on females. Prefers moist, acidic soils.
- C** Oval to rounded form with dense branches. 6'-10' tall. Small yellowish-white flowers in Spring. Females will develop orange fruit through winter months. (3 years old)

A/S = Age/Size

G = Growing Conditions

C = Characteristics

# DESCRIPTION OF TREE SALE ITEMS



## ACHILLEA

“Strawberry Seduction”

**A/S** 1 qt pot

**G** Full sun, sandy or clay soil, dry moisture

**C** Grows up to 18"-27" tall with similar spread has clusters of rich **strawberry-red flowers**, each with a tiny yellow eye. Blooms for weeks from early to late summer.



## ASTER

“Star of Wartburg”

**A/S** 1 qt pot

**G** Full sun, sandy or clay soil, like well-drained soil

**C** Grows up to 18"-27" tall with similar spread, Profusion of **lavender-blue flowers that mature to white**, and attractive lance-like green leaves. Bloom from mid-spring to early summer. Their daisy-type, 1-inch-diameter flowers have purple-blue petals and yellow center.



## CAMPANULA

“Canterbury Bells”

**A/S** 1 qt pot

**G** Full sun or partial shade, sandy or clay soil

**C** Medium growth rate, 8" to 36" high with spread of 4"-16". Flowers of **Blue, Lavender, Pink, Purple and White** begin blooming in July and keep on flowering until frost.



## GLORIOSA DAISY

“Cherry Brandy”

**A/S** 1 qt pot

**G** Grows best in full sunlight and average soil moisture conditions.

**C** Beautiful **gold daisy flowers with dark brown eyes** at the end of the stems. Blooms from mid-summer to early fall, 30" tall and spread 23".



## LAMIUM

“Beacon Silver”

**A/S** 1 qt pot

**G** Grows best in well-drained soil an established plant requires little water, Occasional watering during dry weather.

**C** Grows up to 8 feet, it has stunning feathery flowers with a **distinct pink hue**. The tightly-clumped bloom appears around mid-summer, and stays till autumn.



## LAVENDER

“Phenomenal”

**A/S** 1 qt pot

**G** Partial shade or full shade. Normal, sandy or clay soil.

**C** Tough yet showy perennial groundcover. This selection forms a spreading patch of small silver leaves with a narrow green edge. Clusters of **bright-pink flowers** appear in spring, then continue off and on until fall.



## MONARDA

“Bee Balm”

**A/S** 1 qt pot

**G** Full Sun, heat loving, drought tolerant.

**C** Grow to 20 to 24 inches tall and wide. Highly fragrant with essential oils, Fragrant **blue blooms and silvery foliage** appear earlier than other varieties—late spring to early summer.



## GRASS

“Pampas Pink”

**A/S** 1 qt pot

**G** Prefer full sun & moist yet well-drained soils

**C** 1'-3' tall plants with **pink/lavender colored flowers**. Blooms all summer. Planted along beds or borders to attract hummingbirds & pollinating insects.



## MYRTLE

**A/S** 50 Plants/ flat

**G** Partial sun to full shade. Performs best in well drained soils.

**C** Short evergreen perennial ground cover. Grows to 6" tall and 3' diameter. Small blue-purple flowers.



## LIRIOPE VARIGATED

**A/S** 18 Plants/flat

**G** Partial sun to full shade. Performs best in well drained soils.

**C** Short evergreen perennial ground cover. Grows to 6" tall and 3' diameter. Small blue-purple flowers.



## CAREX PENNSYLVANICA

**A/S** 18 Plants/flat

**G** Tolerates shade to full sun. Well drained to moderately drained soils are preferred.

**C** A tufted, tuberous-rooted, grass-like perennial growing 12"-18" tall. Showy flowers spikes with purple flowers in late summer and blackish berries.





# LANCASTER COUNTY CONSERVATION DISTRICT

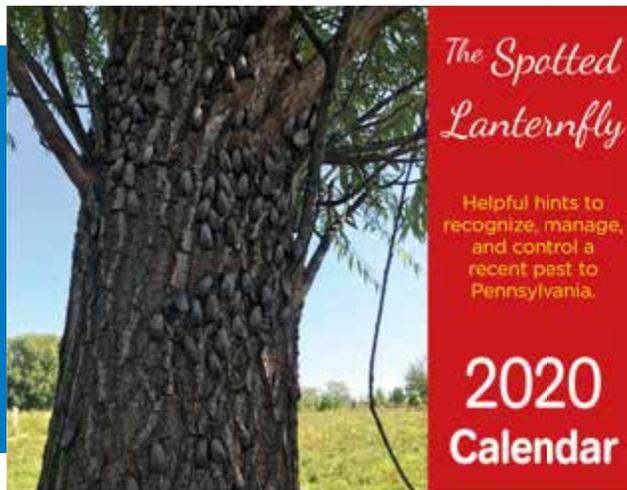
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## IN THIS ISSUE: 2020 TREE SEEDLING ORDER FORM

**FREE  
2020  
SPOTTED  
LANTERNFLY  
CALENDAR**



Looking for some helpful hints to recognize, manage, and control the spotted lanternfly? This FREE calendar is filled with some ideas. To receive a 2020 calendar, please contact the Conservation District with your name and address at 717-299-5361 x. 5, office hours 7:30 am – 4 pm.