

Conservation Crier

Vol. 30, No. 1
Spring 2021

Newsletter of the  LANCASTER COUNTY CONSERVATION DISTRICT

TREE SALE 2021

2021 TREE SALE

During COVID – 19 Pandemic

This Newsletter includes descriptions, pictures, and order form.

To ensure earliest postal delivery possible, return order form by February 19 within 10 days of deadline.

Deadline for mailed orders, Monday, March 1, 2021 – postmarked.

(Unfortunately, mailed orders cannot be guaranteed due to postal delays.)

Though the Conservation District office is currently closed to the public, a Dropoff Box will be available in the Farm and Home Center vestibule front entrance, 7:30 am – 5 pm. Order Forms may be hand delivered to the Dropoff Box until 5 pm on Friday, March 5.

Please visit www.lancasterconservation.org for an order form if needed. Due to the pandemic, messages left on voicemail may have delayed response. Please print order form from website.

Mailed Order Forms Due: Postmarked Monday, March 1, 2021

Hand Delivered Order Forms Due: Friday, March 5, 2021

Order Pickup: Thursday, April 15, 2021

Your seedling order will be packed and ready for pick up...

Thursday, April 15, 2021

8 AM - 5 PM

(Orders picked up via Drive Thru)

Farm & Home Center • 1383 Arcadia Road, Lancaster
Building is not open to the public. Your order will be brought out to your vehicle. Questions, 717-299-5361 x. 5.

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

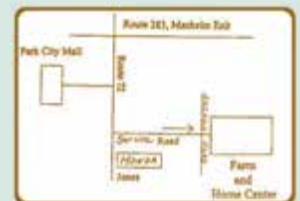
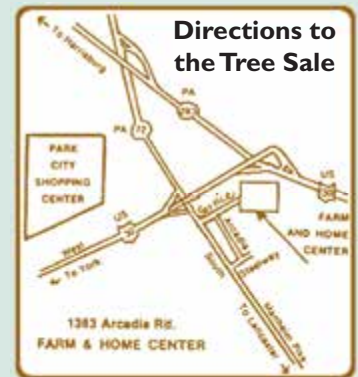
Rt 30 West to Rt 283 West to Rt. 72.

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




Conservation Continues During a Pandemic

For the past year, the Ag Staff at the Conservation District has been dealing with the effects of the COVID-19 pandemic. From working at home orders to rotational days in the office, the Ag staff has had to do quite a bit of adapting. Through all of those adaptations and following all of the CDC guidelines, the fall season stayed busy with farm visits, design work and BMP (best management practices) implementation which will continue to carry through into the spring of 2021. Of course, the biggest driving factors in conservation implementation are the funding options that may be available to help. Lancaster County is lucky enough to be a pilot county for a new funding opportunity known as the Conservation Excellence Grant which will help agricultural land owners repair areas of potential resource concerns that may exist on their operations.

The Conservation Excellence Grant (CEG) Program was derived as part of the 2019 Pennsylvania Farm Bill which provides technical and financial assistance for the implementation of BMPs on agricultural operations. What sets this funding source apart from other options is its use and combination of grant money, Agri-Link low interest loans along with Resource Enhancement & Protection Program (REAP) tax credits. The specific combination of funding sources is up to the discretion of the applicant themselves. Direct farmer funds may also be used to fund projects in addition to the three options listed above. This program is administered by The State Conservation Commission (SCC) with delegation to county conservation districts to assist with reviewing,

continued on page 4



A reconstructed 30' wide by 1' deep grassed waterway. The existing waterway was constructed about 30 years ago.

Board of Directors

Daniel C. Heller, *Chairman*
Robert Shearer, *Vice Chairman*
Herb Kreider
Kenneth Meck
Roger Rohrer
Jay Snyder
Sonia Wasco
Kent Weaver, *Treasurer*
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Kathleen V. Schreiber
Alfred Wanner Jr.
Matthew Young
Cynthia Zawrotuk

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Administration

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Gerald Heistand, *Business Manager*
Stacey Meyer, *Finance Manager*

Erosion and Sedimentation

Richard Snyder, *E&S Program Manager*
Dave Bednar, *Resource Conservationist*
Emily Broich, *Resource Conservationist*
Eric Hout, *Asst. E&S Mgr/Resource Conserv.*
Suzanne Kopp, *E & S Admin. Asst.*
Adam Stern, *Resource Conservationist*
Ryan Weck, *Resource Conservationist*

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Kent Bitting, *Professional Engineer*
Samantha Adams, *Ag Conservation Tech*
Dennis Eby, *Plain Sect Outreach*
Amanda Goldsmith, *Ag Conservation Tech*
Adam Hartz, *Ag Eng Tech Spec*
Greg Heigel, *Ag Tech/Plain Sect Orch.*
Maddie Klein, *Ag Conservation Tech*
Kevin Lutz, *Asst. Ag. Mgr./Ag Conserv. Tech*
Steven Reiff, *Ag Conservation Tech*
James Saltsman, *Ag Eng Tech Spec*
Kevin Seibert, *Ag Compliance Coordinator*
Adam Seitz, *Ag Compliance Specialist*
Benjamin Seldomridge, *Ag Compliance Spec.*
Holly Shaub, *Ag. Admin. Asst.*

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.*

CFLC: Clean Water Partners

Allyson Gibson, *Clean Water Partners Coord.*
Emily Smedley, *Comm. Program Coord.*

USDA Natural Resources Conservation Service

Heather Grove, *District Conservationist*
Mark Myers, *Soil Conservation/District Conservationist*
Mick Albert, *Soil Conservationist*
Christine Griesemer, *Soil Conservationist*
Mark Long, *Soil Conservation Tech*
Brett Ramer, *Soil Conservationist*
Lari Jo Walker, *Program Assistant*
Ashley Spotts, *Restoration Specialist-CBF*
Jeff Sholly, *TAG Engineer*
Jenna Emore, *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

Envirothon Swivel

In 2021, the Lancaster County Junior Envirothon and Middle School Envirothon will pivot in a new direction to offer an Envirothon-inspired day of learning for students in Lancaster County. Participation is free and open to all teachers regardless of prior Envirothon involvement. Registration, however, will be required to ensure all information is provided to you. The day will include ideas for simple school yard field trips, science-based videos filmed in local fields and meadows, and virtual classroom lessons, all provided by the Lancaster County Conservation District and the Lancaster County Department of Parks and Recreation's Environmental Center. Registration information is found at www.lancasterconservation.org. Event will be held April 22.

The Lancaster County Senior High Envirothon will be Thursday, April 29. Teachers working with students in teams of 5 from Lancaster County high schools will have the opportunity to participate in this unique, virtual, academic contest. The top team will go on to represent Lancaster County at the state, virtual contest.

Welcome Brett!

Hello! My name is Brett Ramer and I am the new Soil Conservationist in Lancaster! I was born and raised in southwestern PA and did not have an agricultural upbringing. I attended Indiana University of Pennsylvania and graduated with a bachelor's degree in Biology with a concentration in Ecology, Conservation, and Environmental Biology. After graduation, I moved to Jacksonville, Florida to take a job as a Natural Resources Intern at Naval Station Mayport. One of my main job responsibilities was to monitor their sea turtle nesting program. Upon completion of my internship, I accepted a position with NRCS as a Soil Conservation Technician in Clinton, IL. I am excited to be back in my home state of PA and am very grateful for this new opportunity in Lancaster.



Ann Brown Memorial Scholarship

The Lancaster County Conservation District is pleased to announce four Ann Brown Memorial Scholarship program winners for the year 2020. These students demonstrated a keen interest in using their college studies to make a difference with the future health of our natural environment.

- A \$2,000 scholarship to Nathan B. Brubaker, a senior at Donegal High School, the son of R. Anthony and Rebecca Brubaker of Mount Joy. Nathan plans to major in Biological Engineering at Cornell University's College of Agriculture and Life Sciences.
- A \$2,000 scholarship to Harrison Booth, a senior at Conestoga Valley High School, the son of Steven and Belinda Booth of Leola. Harrison plans to begin with his undergraduate degree in Wildlife and Fisheries Biology at McDaniel College, Maryland.
- A \$1,000 scholarship to Deanna Phillips, a senior at Garden Spot High School, the daughter of Todd and Rose Phillips of East Earl. Deanna plans to study Environmental Science at Susquehanna University in Selinsgrove.
- A \$1,000 scholarship to Daniel Horning, a senior at Garden Spot High School, the son of Cliff and Gina Horning of Denver. Daniel plans to major in Plant Science at Penn State University, Berks Campus.

Each scholarship supports payment of college tuition. This program is open to any graduating senior continuing education (2 year Associate Degree or 4 year Baccalaureate Degree) with the intent of majoring in a curriculum which focuses on natural resources and/or conservation. Applications are available each January on the Lancaster County Conservation District web site at www.lancasterconservation.org under the Education tab.

—Gerald Heistand, *Business Manager*

Clean Water Fund Update

The owners of the *House at Climber's Run*, a retreat center and rental space, used to dread heavy rain because it meant that the stream on their property would flood causing significant land erosion, safety concerns, and increased pollution. The property is in a valley, the water could rise four-to-five-feet in a single rainfall. The owners recall watching their land "eaten away" during these events. In summer 2019, Donegal Trout Unlimited (DTU) offered a solution – stream restoration and riparian buffer plantings to strengthen the streambanks, reduce erosion, and provide a lush forested area with clean water for their guests.

DTU came to the Lancaster Clean Water Partners (LCWP), a collaborative group housed within the Conservation Foundation of Lancaster County, with the idea for the stream restoration and riparian buffer planting along Climber's Run. This project not only reduces streambank erosion, but connects four contiguous projects along the stream in southern Lancaster County. With dollars from the Lancaster County Community Foundation's Clean Water Fund, the LCWP were able to grant DTU enough support to restore 1,530 linear feet of stream and plant 2.45 acres of riparian buffers. Restoring the stream and planting native trees and shrubs has already proved successful, with the property owners reporting less flooding during heavy rain and loss of land along the stream. Now guests, and in particular the families with children, who stay at the *House at Climber's Run* can enjoy a lush, green space that is safe to be in the water and perfect to reconnect with nature. The property owners are comforted that the streambanks will remain in place so they can continue to share "the magic that is living in the country" with their guests.

The Lancaster Clean Water Fund, managed by the LCWP helps projects like this go from concept to implementation. Since 2019, the fund has provided \$272,000 to eight nonprofits and municipalities working on stream restoration, riparian buffer plantings, agricultural best management practices, education, and stormwater management projects. The fund addresses the

immense need for clean water work throughout the county, and provides financial support to bring action ideas to life.

Climber's Run is a healthy stretch of stream and preserving that is essential to our collective success. Unfortunately, though, over half the streams in Lancaster County are considered impaired, which means the levels of nutrient and sediment pollution have made the water unsafe for drinking and recreation. It also means critical fish and aquatic insect populations cannot survive. With the goal of clean and clear water by 2040, the LCWP focus on getting multiple landowners with contiguous stretches of stream to implement conservation practices, setting the stage to begin restoring water quality and delisting streams. When a stream is delisted, the nutrient and sediment pollution levels have decreased enough for aquatic insect and fish populations to live and thrive in the stream again. We're grateful for the District's Watershed Staff and Ag Conservation Technicians; their expertise connecting landowners and projects that support delisting streams are what move us towards clean and clear water!

Reach out to the Lancaster County Conservation District or the Lancaster Clean Water Partners and we'll connect you with a local partner organization who can help get your stream the TLC it needs to be part of Lancaster's clean water success story!

If you're a landowner with a stream on your property, consider applying to the Lancaster Clean Water Fund! The 2021 grant round will kick-off on March 3 with the Lancaster County Community Foundation's information session. Draft applications will be accepted for review until July 7 and final applications are due on July 26. More information is available at www.lancastercleanwaterpartners.com/clean-water-fund.

–Emily Smedley, Communications Coordinator LCWP



Lancaster
CLEAN WATER PARTNERS

DEP Releases Chapter 102 ePermit System

The Department of Environmental Protection (DEP) has released the initial phase of the Chapter 102 ePermit System effective January 25, 2021, with the goal of improving efficiency of Chapter 102 permit application review. In addition to enabling quicker response time to applicants, the electronic interface will enhance coordination between Conservation Districts and the DEP. Coincidental timing or not, the rollout of the ePermit System comes at a time when a shift to remote work continues to be the norm, at least for a little while. The web-based Chapter 102 ePermit System can be accessed through DEP's GreenPort.

The initial release includes new NOIs and amendments for coverage under the PAG-02 General NPDES Permit. At this time, use of the ePermit System is voluntary and the Conservation District will still accept hard copy submissions. Expansion of the ePermit System to include new applications for Individual NPDES Permit coverage for Stormwater Discharges Associated with Construction Activities is tentatively planned for March 2021, with other Chapter 102 permits to follow later in the year.

Recordings of instructional videos and other resources are available under the Bureau of Clean Water's Chapter 102 ePermit page. A Help Desk phone number is also available at: (717) 787-HELP (4357), M-F 7:30 AM – 5:00 PM.

–Emily Broich, Resource Conservationist

Lancaster County Conservation District Board of Directors

The Conservation District follows both state and county guidelines. Counties in PA established a Conservation District in each under PA Act 217 Conservation District Law. Volunteers serve as Conservation District Directors. Nominating organizations approved by the PA State Conservation

Commission nominates volunteers to serve in these roles. County Commissioners appoint directors from the nomination list to serve four-year terms. Look for Directors introductions in this space to highlight the work of these dedicated volunteers.

continued from page 1

ranking and approving applications. Below are some frequently asked questions to help better understand all aspects of the program.

Who is eligible to apply for CEG funding?

-Any agricultural operation with a current Ag Erosion & Sedimentation (Ag E&S)/Conservation Plan which includes the specific BMP they wish to have funded and a Manure Management Plan/Nutrient Management Plan for their operation.

What should I do next if I have a current Ag E&S/Conservation Plan for my operation and am interested in funding?

-Contact the Conservation District to discuss your operation and to get the technical assistance process started of obtaining engineered designs for the BMP(s) you're interested in implementing. Private consultants may also be hired to complete the needed designs. Once cost estimates and designs are finished, you will be able to complete the CEG application which includes a checklist of required documents needed for submittal.

What should I do if I am interested in funding but do not have a current Ag E&S/Conservation Plan that represents my operation?

-Contact the Conservation District to speak with a technician about updating your plan or feel free to contact a commercial planner about getting an updated plan; making sure the BMP you are interested to have funded is clearly stated in that new plan. As a new plan is being obtained, contact the District or private consultant to begin the technical assistance process of getting engineered designs for the appropriate BMPs needed. After the Ag E&S/Conservation plan and engineered designs are done, you will be able to apply for CEG funding.

CEG funding is a combination of 3 sources (grant money, low interest loans, and REAP tax credits), when do I decide which options are best for me?

-Once your engineered designs are complete and a cost estimate is drafted, you will be able to better decide what percentage of each source you would like to use. For example: for the total cost of the project(s) you could request 50% grant funding, 25% be covered with a low interest loan and then submit 25% of the final cost to REAP to get a percentage of that back as tax credits. A maximum of 75% of the total project cost can be covered using grant funds. Direct farmer funds are an additional

A roofed stacking area for manure.



A roofed heavy use area.

option that can be used to fund a project. Consulting with your accountant is encouraged.

What are REAP tax credits?

-REAP awards Pa State tax credits to landowners who implement BMPs at 50-75% of the total cost of the project. Operations can obtain a maximum of \$250,00 in tax credit in a 7-year period, and have 15 years to use those credits towards their PA State Income Tax. These tax credits can also be sold.

Must I use a combination of all 3 sources of funding (grant, low-interest loan and REAP)?

-The use of all 3 sources is not required but is recommended.

What does the whole application process look like?

-Once your application is submitted to the District, the District has 10 days to review it for administrative completeness and the application checklist is complete. The District then has 60 days to review and comment on the application. The application will then be presented to the District Board of Directors for final approval.

Who will my contractor be for implementation?

-It is at the operator's discretion to hire the contractor that they would like to complete the project. After the design is finalized, the District Board approves the project and the agreement is signed, the contractor can begin work. All projects over \$25,000 require Pennsylvania prevailing wage rates. The engineer will provide a copy of the wage rates to the farmer for their contractor's use.

Are there funding limits?

-The grant component of the CEG program will cover a maximum of 75% of the total project cost. Total project costs are capped at \$250,000. Projects with cost estimates more than \$25,000 will require prevailing wage rates.

What is prevailing wage?

-Prevailing wage is determined by the Department of Labor and Industry and is the rate of pay at which contractors must pay their employees when doing projects with public funds. These wages come into play on projects greater than \$25,000.

The Conservation District is currently accepting applications for the CEG Program and has already successfully installed several projects using these funds. If interested in the program or questions regarding any aspects of the Conservation Excellence Grant Program, please contact the District office at (717) 299-5361 ext. 5 or visit our website at lanasterconservation.org > Agriculture > Conservation Excellence Grant.

-Samantha Adams, Ag Conservation Technician

Dirt & Gravel & Low Volume Road Program Advances through the Pandemic

One area of work that did not stop or slow down during the recent pandemic has been municipal road work and improvements to local roads for the betterment of water quality. This holds true for the District's Dirt & Gravel/Low Volume Rd. Program as well. Municipal projects within these programs continued during the pandemic along with new grant awards and new open grant rounds. Currently, a Dirt & Gravel Rd. grant application period is open to all municipalities that qualify and have a dirt and/or gravel public road they are responsible for. This round is currently open till Friday, February 12th with grant awards announced the 2nd week of March.

Municipalities that would like to apply for a Low Volume Rd. grant can do so June 1st - August 13th. Low volume roads are classified as any publicly paved road with traffic of less than 500 vehicles. This is a water quality focused program. The road improvement planned for the road should have some sort of drainage or water quality aspect tied to it. Projects could involve re-crowning the road, removing stormwater flows from the road, providing a better road base to the road, or getting water from one side of the road to other in the most efficient and environmentally sensitive manner. Municipalities thinking of applying for either grant program should contact the Conservation District to see if their project qualifies.

If you have any questions about the Dirt & Gravel/Low Volume Rd. Program please feel free to contact us here at the District, 717-299-5361 x.5.

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



Planting completed at Pequea Creek.

Volunteer Plantings Held

There were lots of uncertainties as far as how to go about volunteer events in the fall of 2020, while ensuring the safety of everyone involved. The best volunteer events to move ahead were those outside, so the Conservation District took advantage of the situation and held two Riparian buffer plantings. The first event organized by the District was a 2-day volunteer staff planting which allowed the staff to get away from their home offices and enjoy the outdoors. Staff from all departments of the Conservation District joined together to help plant 750 trees and shrubs over a 4.5-acre section of the Pequea Creek. This section of streambank had just been restored in collaboration with the U.S. Fish and Wildlife Services as well as Unique Excavating of East Earl. The end product is a beautiful section of the Pequea Creek visible from Rt. 897.

The second volunteer planting was held on a tributary to the Mill Creek which starts directly behind the Lampeter Strasburg High School. The Conservation District received a grant to do some outreach to landowners on tributaries to the Mill Creek and was lucky enough to have the majority of landowners on this tributary reach out to request trees and shrubs to address erosion concerns they were seeing. A total of 6 different landowners and their families joined together to plant 145 trees and shrubs along the tributary that runs through their backyards. After seeing the results of this planting, the remaining landowners on this tributary reached out to the District requesting trees and shrubs. A spring planting is planned for these landowners which will result in a completely buffered section of this tributary. During the pandemic, it's inspiring to see the benefits of conservation continue.

-Bryce Workman, Watershed Resource Technician

DID YOU KNOW...

In a Stanford University study in Costa Rica, adding just one tree to the middle of a pasture can increase bird biodiversity from **zero to 80!**

Source: <https://www.futurity.org/trees-biodiversity-1280382-2/>



NRCS – Work Goes On

NRCS is still working for you! You may not find us in the office right now, but we are teleworking and safely performing field visits to continue our services. 2020 did look differently for our staff, but great conservation work was still installed! Below are some of the highlights of the completed work in 2020 through NRCS Cost Share Programs.

A local Equine Operation implemented their 2020 Environmental Quality Incentives Program (EQIP) contract by installing stabilized walkways and a gravel sacrifice area. The trails were earthen and would get extremely muddy at times. Additionally, a large Animal Concentration Area (ACA) existed in one paddock. By implementing stabilized walkway and gravel sacrifice area, the soil is protected for these frequently used areas. In 2020, the operator worked with NRCS staff to develop a Conservation Plan, sign an EQIP contract, develop designs, and install practices.

BEFORE



AFTER



A local commodity crop producer was having issues with gully erosion due to upslope runoff, road runoff and subsurface water due to old, broken terra cotta tile line that was no longer functioning properly. This producer worked with NRCS in 2020 to develop a Conservation Plan, sign a contract, develop designs, and install practices. The practices include a grassed waterway, basin/riser, underground outlet and subsurface drainage. The producer is scheduled to install the last associated practice, terraces, in 2021.

BEFORE



AFTER



A local Dairy Producer is currently working with a third-party engineering firm to design and install practices in partnership with an NRCS EQIP contract. Stream Bank Fencing was installed 35' from the bank of the stream to provide a filter area and reduce runoff to the stream. Additional practices are still under construction including a concrete Heavy Use Area with a Waste Storage Facility to eliminate runoff and properly store collected manure.

BEFORE



AFTER



This local Dairy Producer requested NRCS assistance with obtaining adequate manure storage, installing stream bank fencing and soil erosion concerns in crop fields. A new and adequately sized manure storage was built with NRCS assistance about 150' away from the existing headquarters, the producer plans to construct a new barn above the storage in 2021. The existing headquarters area was improved by the landowner with NRCS assistance prior to contracting. Now, all manure is collected on the headquarter area and transported to the new manure pit.

BEFORE



AFTER



THANK YOU TO OUR PRODUCERS WHO CONTINUED TO PERSEVERE THROUGH THE CHALLENGES.

—Christine Griesemer, Soil Conservationist NRC

DESCRIPTION OF



DOUGLAS FIR (bundle/10)

Pseudotsuga menziesii glauca

A/S 2-0 yrs., 4-7"

- G** Full sun but will tolerate some shade. Moist, well-drained soil preferred. Dislikes hot, dry sites.
- C** Blue-green 1" needles. 60'-80' tall & 15'-20' spread. A desired Christmas tree.



EASTERN WHITE PINE (bundle/10)

Pinus strobus

A/S 2-0 yrs., 3-5"

- G** Best in full sun although young trees tolerate light shade. Prefers moist, well-drained soils.
- C** Soft needles. 50'-80' tall & 30'-50' wide. Conical form young, losing a defined shape with age (open form). Fast growing.



FRASER FIR (bundle/10)

Abies fraseri

A/S 4-0 yrs., 15-20"

- 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.



WHITE SPRUCE (bundle/10)

Picea glauca

A/S 2-0 yrs., 4-7"

- G** Prefers full sun conditions. Grows best in acidic, loamy, moist, sandy, well drained and clay soils.
- C** Can grow up to 60' tall with a 15' spread. A straight tall tree easily recognized by its needles and cones that always hang downward.



BLACK CHERRY

Prunus serotina

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

- 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.



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.



SYCAMORE

Platanus occidentalis

A/S 1-0 yrs., 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 yrs., 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.



WHITE OAK

Quercus alba

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

- G** Full sun to partial shade are best for this tree. Prefers slightly acidic, deep, moist, well drained soils.
- C** Large tree that can get 50'-80' tall. Produces acorns later in life and is a long lived stately tree with wide-spreading horizontal branches and wine red fall color.

DID YOU KNOW...

One medium sized tree can intercept 2380 gallons of rainfall a year, and slow down the effects of localized flooding?

Source US Forest Service.

https://www.fs.fed.us/psw/topics/urban_forestry/products/CUFR_182_UFfactsheet4.pdf

TREE SALE ITEMS

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



AMERICAN HAZELNUT

Corylus americana

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

- G** Grows best in rich, moist, well-drained soils. Prefers open areas but can grow in deep shade.
- C** Described as a perennial shrub. Flowers in February-April before emergence of leaves and fruits in July-August. At maturity gets 10' tall.



BASSWOOD

Tilia americana

A/S Containerized Seedling Pot

- G** Grows best in full sun and partial sun/shade. Does best in moist, well drained loamy soils of floodplains and wetland areas.
- C** A desirable ornamental tree known for its fast growth and longevity. Medium to large size from 60' to 125' tall. Has a cream-colored flower that dangles in clusters from stalks in the middle of the leaf. Bees are attracted to the flowers.



ARROWOOD VIBURNUM

Viburnum dentatum

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

- G** Full sun or partial shade. 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.



RED CHOKEBERRY

Photinia pyrifolia

A/S Containerized Seedling Pot

- G** Tolerates wet soil. Full sun to part shade
- C** A native shrub 6'-10' for individual or mass plantings. Brilliant red fall foliage and fruit.



RED OSIER DOGWOOD

Cornus sericea

A/S 1-0 yrs., 18-24"

- G** Full sun to light shade. Quite adaptable to many soils, but likes moisture.
- C** Deep red stems & white flowers. 6'-10' tall. Many wildlife benefits. Easily grown.



SWEET PEPPERBUSH

Clethra alnifolia

A/S Containerized Seedling Pot

- G** Grows best in full sun to partial shade. Prefers moist, acidic soils with organic matter.
- C** Can grow 5'-10' tall with alternate leaves. Produces small white flowers in dense clusters on long 3-6 inch long terminal spikes in late summer.



REDBUD

Cercis canadensis

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

- 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.



WITCHHAZEL

Hamamelis virginiana

A/S Containerized Seedling Pot

- G** Prefer full sun to partial shade and moist, well-drained soils in rich organic matter.
- C** Grows up to 12' tall with a spread of 12' as well. Fantastic fall color in shades of gold, orange and red. Bloom in later fall and winter.



WHITE FLOWERING DOGWOOD

Cornus florida

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

- G** Partial shade, average soil & moisture conditions.
- C** Showy white flowers in early spring. Red fruit eaten by birds. Crimson fall foliage. 25' tall & 25' spread.

DID YOU KNOW...
 Shading from trees can reduce energy costs by decreasing surrounding temperatures by as much as 6°F!
 Source: Energy.gov
<https://www.energy.gov/energysaver/landscaping-energy-efficient-homes/landscaping-shade>

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

DESCRIPTION OF TREE SALE ITEMS



CAT & KITTENS

"Sempervivum"

A/S 1 qt pot

G Prefer full to part sun. Provide good drained soils.

C Tight fleshy leaves form multiples of green rosettas. Get 4"-6" tall and 3"-6" wide. Bloom in Mid-late summer.



LUPINE

A/S 1 qt pot

G Grows best in full sun, sandy and/or clay soils with average or minimal moisture.

C Blooms early to mid summer with varying colors flowers. Reaches heights of 20" and can spread 12-18 inches with a medium growth rate.



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.



RUDBECKIA

"Goldstrum"

A/S 1 qt pot

G Likes full sun growing conditions with normal or slightly moist soils.

C Dazzling mounds of yellow flowers with a deep brown center. Gets approx. 24" tall and can spread 12-18". Blooms late summer to early fall and is known for its very long bloom time.



SEDUM

"Autumn Joy"

A/S 1 qt pot

G Prefers full sun to mostly sunny conditions with normal clay soils.

C Can get up to 24" tall and spread 15". Large semi-domed flowerheads composed of tiny blossoms appear in August and remain through fall. Succulent upright, fleshy jade plant foliage of lighter green.



SWEET WILLIAM

"Dwarf Double"

A/S 1 qt pot

G Prefers slightly alkaline sandy, clay soils with full sun exposure.

C A low mound of light green leaves, bearing showy clusters of bright double flowers in mixed shades from white through pink, salmon and red. 6"-12" tall and 8"-12" wide.



THYME

"Lemon Scented"

A/S 1 qt pot

G Prefers light, well drained soils and full sun to partial shade growing conditions.

C Grey-green leaves and pungent minty, light-lemon aroma, Thyme is a staple in every herb garden. Plant 18-24 inches apart and will grow to 12" tall.



VERBENA

"Homestead Purple"

A/S 1 qt pot

G Full sun, sandy soil, well drained, dry to moist soil.

C Fast growing, 8" to 12" high, 12" to 18" spread, large rich velvety purple flowers.



CAREX PENNSYLVANICA

A/S 15 per 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 flower spikes with purple flowers in late summer and blackish berries.



LIRIOPE VARIEGATED

A/S 18 - 4" plants per 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.



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.



LANCASTER COUNTY CONSERVATION DISTRICT

1383 Arcadia Rd Rm 200
Lancaster PA 17601-3149

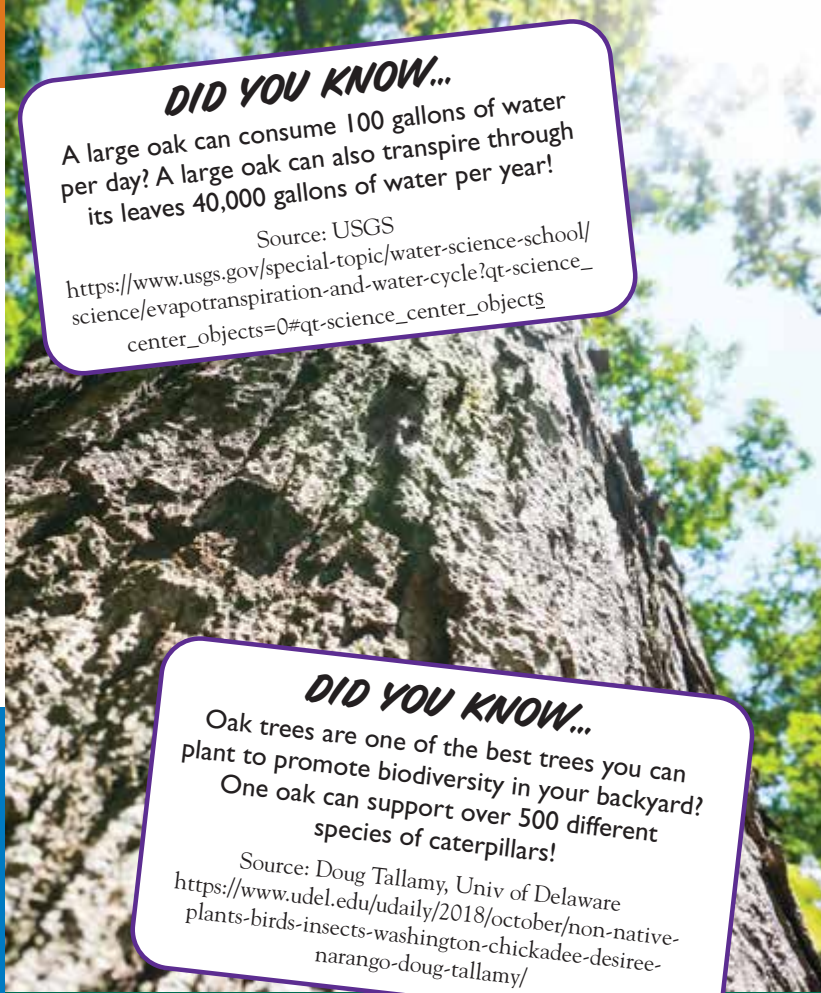
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IN THIS ISSUE:
2021 TREE SEEDLING ORDER FORM
Mailed Order Forms Due: Postmarked Monday, March 1, 2021
Hand Delivered Order Forms Due: Friday, March 5, 2021
Order Pickup: Thursday, April 15, 2021

Maples in Streamside Buffers

Should I replace or choose different tree species instead? Red, silver, sugar, boxelder, Japanese, and Norway maples are some of the spotted lanternfly's favorite host trees. Many agencies are choosing not to plant maples in streamside buffers for 2021 onward for this reason. If you have a maple tree in your buffer already, there is no need to replace it. Instead, monitor its health and do what you can to manage the tree. Contact your buffer liaison only if you find the tree is dying and you will need a replacement. Maples are not the only spotted lanternfly host; however, they are the only species currently being changed out as a buffer tree. Other common buffer trees that are spotted lanternfly hosts include willows, black walnut, black cherry, black gum, shagbark hickory, oaks, basswood, dogwoods, slippery elm, birches, sycamore, tulip poplar, hazelnut, and blackhaw. These other species should be monitored and managed for spotted lanternfly.

-Amanda Goldsmith, Ag Conservation Technician



DID YOU KNOW...
A large oak can consume 100 gallons of water per day? A large oak can also transpire through its leaves 40,000 gallons of water per year!
Source: USGS
https://www.usgs.gov/special-topic/water-science-school/science/evapotranspiration-and-water-cycle?qt-science_center_objects=0#qt-science_center_objects

DID YOU KNOW...
Oak trees are one of the best trees you can plant to promote biodiversity in your backyard? One oak can support over 500 different species of caterpillars!
Source: Doug Tallamy, Univ of Delaware
<https://www.udel.edu/udaily/2018/october/non-native-plants-birds-insects-washington-chickadee-desiree-narango-doug-tallamy/>

**WANTED:
DISTRICT
SUMMER INTERN**
Information at
www.lancasterconservation.org