For decades there has been a localized warming effect going on in many cities. We’ve observed changing seasons, hotter summers, and more intense rainfall events. Climate change is occurring around the world, and has been documented in the City of Columbus as can be seen in the charts below.

In Ohio, temperatures in the 2000s have been warmer than any other historical period, and we’ve experienced a significant increase in the number of extreme precipitation events since the mid-1990s. Our 2016-17 winter was one of the warmest for much of the country; in Columbus it was the 7th hottest on record. Ever-expanding cities and metropolitan areas feel this effect even more because of the urban heat island effect created by hard, dark parking lots and roads, and hot exhaust from automobiles and industry trapping the sun’s heat. The City of Columbus is the fourth fastest-growing city in the United States, and ranks among the top 10 worst cities for its average temperature difference (more than 4 degrees) between urban and rural areas.

Cities are responding with programs and incentives for their businesses and residents, such as tree-planting programs, green infrastructure, and energy-saving opportunities. Regional and local examples include MORPC’s Sustaining Scioto, Branch Out Columbus, the Bexley Tree Planting Program, the City of Dublin’s Green Purchasing Policy, the City of Gahanna’s commercial stormwater credit, and the Street Tree Programs in New Albany and Worthington. Franklin Soil and Water’s own Community Backyards rebate program has resulted in thousands of homeowners planting trees and shrubs, retaining and using their own rainwater, and improving their soil’s water and carbon-storage ability with home composting. Central Ohio has clearly come together to prioritize clean air and water now and into our future.
Over the past year, a group of ten central Ohio counties have been working together to create a program that can achieve one goal: To provide education, resources, and opportunities to make it easier for all Central Ohio residents to Be the Change for Clean Water. This work has culminated in a website that serves as a launchpad for Central Ohioans to work toward cleaner water in our region. The site has resources to report different types of water pollution, access workshops and volunteer opportunities and learn more about the largest threats to clean water and how to help reverse them.

Starting in early 2019, a multitude of organizations from throughout our 10 county area will come together to promote specific messages in an attempt to inundate as many residents as possible where they live, work, and play with the goal of clean water. Messages this year will focus on keeping storm drains clear of debris, proper application of agricultural fertilizers and maintenance of home sewage treatment systems. The Be The Change for Clean Water website will also be updated to be more interactive, and easier than ever to find opportunities and resources customized to your neighborhood.

When it comes to protecting our water resources we all need to be part of the solution. Whether you are concerned about water pollution, participate in outdoor recreation activities, interested in volunteering, want to protect local wildlife, wish to join community leaders in developing policies and programs, or need to know how to properly dispose of hazardous waste, this site is for you. We can all do something to Be the Change for Clean Water.

Congratulations to our 2018 Mini Grant Awardees!

- Canal Winchester Human Services: Rainwater storage and soil improvement for use with community garden
- Southeast, Inc. (Friends Community Garden): Enhancing community garden and green space with native trees and plants
- Worthington Hills Garden Club: Bioretention/rain garden installation for filtering runoff and habitat improvement at Worthington Hills Golf Course
- Worthington Parks & Recreation Department: Landscaping and gardening with native plants at East Granville Road Park-Moses Wright Nature Area
Do you have a conservation project in mind that needs funding assistance? Franklin Soil and Water’s annual Conservation Mini-Grant program is offering up to $2,000 (up from $1,500 in years past) to three non-profits that demonstrate the need and ability to carry out conservation projects. Applications are accepted now through March 20, 2019.

Past projects have included streambank planting, landscaping and gardening with native plants, rain garden/bioretention installation, and invasive species removal and replacement. This competitive grant is available to non-profit organizations such as schools, watershed groups, municipalities, civic associations, and community groups including governing bodies and homeowner or condo associations.

Applicants are scored on their connection to Franklin Soil and Water’s mission, environmental impact, visibility, and cost efficiency. Grant awardees will communicate progress to the District, complete a final report, and provide a tour. Winners are announced at the end of March, with projects expected to be completed within the year.

The grant program is made possible through the District’s Conservation Fund, which utilizes profits from the District’s Annual Meeting, Tree Sale, and operational fees to support the implementation of conservation projects throughout Franklin County. Remaining funds are utilized throughout the year by Franklin Soil and Water to implement projects and programs, often in coordination with our partners.

Eligible Project Ideas for Mini-Grant Program

- Rainwater storage and/or harvesting with rain barrels and cisterns
- Reducing or slowing stormwater runoff by planting rain gardens, buffer zones, or installing green infrastructure projects
- Streambank or riparian zone stabilization and revegetation
- Landscaping and gardening with native trees and plants
- Invasive species removal and replacement
- Habitat improvement such as litter collection, addition of wildlife shelters, bird houses, or pollinator sites
- Soil improvements such as the addition of compost, green manures, or cover crops

Worthington Hills Garden Club members previewed rain gardens in Columbus looking for plant and design ideas to use in their 2018 mini-grant.

(Photo courtesy of Anne Woods)
Planting (and Planning) for Change

As you’re considering your own carbon footprint this spring, remember that urban and rural greenspaces can play an important role in combating climate change.

“Greening” Your Grass
Healthy lawns can capture more carbon than patchy lawns through thousands of fast-growing individual plants. Spot-treat and fertilize carefully, using only what’s needed. Leaving grass clippings and shredded leaves on your lawn improves your lawn’s health and cycles carbon back into the soil; those clippings can increase carbon-storage in the soil by nearly sixty percent! Mowing high reduces watering needs by producing deeper, healthier roots that can absorb more runoff. Where you can, consider reducing lawn for drought-tolerant, pollinator-friendly natives. Visit getgrassy.org to learn more about proper lawn care.

COMMUNITY BACKYARDS
GET $50 FOR YOUR YARD!

Visit CommunityBackyards.org
Participate in Community Backyards. Visit our website for more information on the practices mentioned on this page, and more importantly, to see if your home qualifies for a $50 rebate this spring towards native plants, a composter, or a rain barrel. The program will be open May 1 to October 1, 2019.

Plant More (Woody) Plants
All plants absorb carbon dioxide, but woody long-lived trees store more. Choose native, long-lived, moderate-to fast-growing species such as elm hybrids, tuliptree, or honeylocust. Larger trees also do double-duty when planted strategically for shade or windbreak to reduce cooling and heating costs: just three trees, properly placed around a house can save up to 30% of energy use. Tree canopy also intercepts rainfall, while roots absorb water and prevent runoff. Our annual Tree Sale is a great place to find what you’re looking for! franklinswcd.org/tree-and-plant-sale

Store Carbon in Your Compost
Store carbon-rich organic matter like plant parts and manure in your soil. Though composting does release some greenhouse gas, carbon is also bound long-term in minerals or released slowly. Local composting provides rich soil amendments, reduces the energy necessary to transport yard and food waste, and is the better alternative to landfills where oxygen-deprived conditions produce potent methane gas. If you can’t compost at home, check out The Com-Til Compost Facility. They recycle yard waste free of charge, year-round. Visit columbus.gov/comtil for more information and drop off details.

In the Garden
Homegrown produce is fresher, healthier, and eliminates some reliance on food transportation. Most supermarket produce travels more than 1500 miles! At home, opt for non-synthetic products that require less energy to produce, and are often byproducts, rather than nitrogen-based products that originate with fossil fuels. Finally, practice Integrated Pest Management techniques like annual rotation and cover crops that reduce fertilizer and chemical reliance. Cover crops also prevent carbon loss, soil erosion, and weed growth.

Stay Local
Columbus is a city surrounded by rich farmland, urban gardens, and community farmers markets. Franklin County and the City of Columbus, together with Local Matters and other community partners, have developed a Local Food Action Plan to increase coordination, access, education, and growth in the local economy to improve food resources. Along with Experience Columbus Guide to Columbus Farmers’ Markets, shopping locally and buying fresh won’t be hard!

www.franklinswcd.org
**Water Quality Partnership**

When it rains, stormwater runs over hard surfaces like roads and rooftops, picking up pollutants such as dirt, oil and toxic chemicals, depositing them in local streams and rivers. These pollutants can threaten wildlife and native plants as well as harm our own drinking and recreational waters. As a Water Quality Partner, business owners voluntarily pledge to keep Franklin County waterways healthy by participating in practices that reduce water pollution. These practices range from simple things like properly containing and disposing of potential pollutants, to larger projects such as using rain barrels and rain gardens to slow water down and naturally reduce the amount of pollutants that reach out rivers and streams.

Whether a business needs tips on how to meet clean water regulations, or is simply looking to support clean water and sustainability in their community, the Water Quality Partnership can help them reach those goals. Join other businesses and reduce pollution in Franklin County!

Visit [franklinswcd.org/water-quality-partner-program](http://franklinswcd.org/water-quality-partner-program) for stormwater management tips, resources, and to make the commitment to become a Water Quality Partner today!

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**Instructions for Tree Sale Ordering & Pick-up**

1. Place your order online and pay at [https://www.franklinswcd.org/products](https://www.franklinswcd.org/products) -OR-
2. Fill out the included paper order form and mail with check to:
   Franklin Soil and Water, 1404 Goodale Blvd., Suite 100, Columbus, OH 43212
   Make check payable to Franklin Soil and Water Conservation District
3. Last day to order from the tree sale is Sunday, April 7.
4. **Pick up your order at Ohio Division of Wildlife (1500 Dublin Road, Columbus, OH 43215)**
   - Friday, April 26 from 7:00 a.m. to 6:00 p.m.  -OR-
   - Saturday, April 27 from 8 a.m. to noon.  *
5. Items from the tree sale that are not picked up will be donated to local nonprofits by May 1.

**Important Information about Franklin Soil and Water’s Spring Tree and Plant Sale**

- Order early as there may be limited quantities of some plants.
- **There are no refunds unless** a plant you ordered and paid for is unavailable at time of pickup.
- Conservation-grade, bare root seedlings are generally small, so a large-capacity vehicle is not necessary.
- Some container plants may still be dormant at pickup. We encourage you to plant normally.
- It is important to plant bare root seedlings immediately. Do not leave them in your car or hot garage. Please read about proper tree planting on our Web site, [https://www.franklinswcd.org/plant-your-trees-right](https://www.franklinswcd.org/plant-your-trees-right)
- The species we sell (except for edible landscaping) are Ohio natives or cultivars, but may not be native to Franklin County.
Plant and Tree Sale Highlights

2019 Annual Spring Tree & Plant Sale
Order online: www.franklinswcd.org/products

Bareroot trees and shrubs are so named because the plants are dug from the ground when they’re dormant (leafless), usually in fall, and their roots are shaken free of soil. These 1-3 year old plants are more cost-effective than container trees, which makes them ideal for larger plantings for erosion control, windbreaks or invasive plant replacement.

*Below are our featured 2019 tree and shrub selections. A complete list of plants can be found on our website or order form.

**Bare Root Trees & Shrubs**

**Eastern Redbud**
A small tree whose pink flowers are enjoyed by bees in early spring. A great landscape tree that looks great in all seasons.

**Pussy Willow**
A 6-20 foot shrub that loves wet areas. Grows quickly and provides great wildlife habitat through all seasons.

**Thornless Honeylocust**
Able to reach 60 feet tall they produce delicate lacy leaves that turn bright yellow in fall.

**Sweetgum**
A large tree with beautiful star-shaped leaves that turn purple and red in fall. Wildlife love the bur-like seed balls they produce in autumn.

**American Hazelnut**
A thicket-forming shrub that does well in full sun to part shade. Nuts are enjoyed by wildlife in the winter.

**Dwarf Bush Honeysuckle**
This native shrub features pretty, tubular yellow flowers that are attractive to hummingbirds.
Most of our perennials come in 2”x2”x4” pots, with several species with larger root systems being sold in 1 gallon containers. Keep in mind that because our plant sale is early in the spring, some plants will still be dormant (leafless), but rest assured their root systems are alive and leaves will emerge once warmer temperatures arrive.

*Below are our featured 2019 perennial selections. A complete list of plants can be found on our website or order form.

**Great White Trillium**
Ohio’s state wildflower, trillium likes rich soils and shady spots. Large white flowers bloom in early spring and fade to pink.

**Wood Poppy**
Bright 4-petaled yellow spring blooms for moist, partially shady areas.

**Blue Flag Iris**
An easy to grow flower that likes wetter areas. Sword-shaped leaves grow in compact bushes, making this a good landscape plant.

**Rose Mallow**
Strikingly showy, shrubby flowering perennial growing to 6’ tall in swampy forests, wet meadows, and marshes in sun or part shade.

**Wild Ginger**
A good groundcover for shady areas, wild ginger is an excellent replacement for invasive English Ivy.

**Purple Prairie Clover**
This attractive member of the pea family enriches the soil by pulling nitrogen from the air. Tolerates heat and drought well.

For a complete tree and plant list, along with a detailed description visit:

www.franklinswcd.org/tree-and-plant-sale
District programs and services are offered on a non-discriminatory basis.
### Bare Root - Evergreen

<table>
<thead>
<tr>
<th>Plant</th>
<th>Price (P)</th>
<th>Quantity (Q)</th>
<th>Total Cost (P*Q)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Pine</td>
<td>$15.00</td>
<td>25</td>
<td>$375.00</td>
</tr>
</tbody>
</table>

### Bare Root - Broadleaf Trees

<table>
<thead>
<tr>
<th>Plant</th>
<th>Price (P)</th>
<th>Quantity (Q)</th>
<th>Total Cost (P*Q)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern redbud</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Flowering dogwood</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Musclewood</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Red oak</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Silver maple</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Sweetgum</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Sycamore</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Thornless honeylocust</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
<tr>
<td>Tulip poplar</td>
<td>$10.00</td>
<td>5</td>
<td>$50.00</td>
</tr>
</tbody>
</table>

### Bare Root - Broadleaf Shrubs

<table>
<thead>
<tr>
<th>Plant</th>
<th>Price (P)</th>
<th>Quantity (Q)</th>
<th>Total Cost (P*Q)</th>
</tr>
</thead>
<tbody>
<tr>
<td>American hazelnut</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
<tr>
<td>Dwarf bush honeysuckle</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
<tr>
<td>Fragrant sumac</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
<tr>
<td>Meadowsweet</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
<tr>
<td>Ninebark</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
<tr>
<td>Red-twig dogwood</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
<tr>
<td>Pussy willow</td>
<td>$15.00</td>
<td>10</td>
<td>$150.00</td>
</tr>
</tbody>
</table>

### Larger Container Plants

<table>
<thead>
<tr>
<th>Plant</th>
<th>Price (P)</th>
<th>Quantity (Q)</th>
<th>Total Cost (P*Q)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue cohosh</td>
<td>$17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dutchman's breeches</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Great white trillium</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jack-in-the-pulpit</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solomon's seal</td>
<td>$17.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wild ginger</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wood poppy</td>
<td>$15.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eastern wahoo*</td>
<td>$25.00</td>
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</tr>
</tbody>
</table>

*3-5’ multi-branched woody shrub

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**View product details or order online:** www.franklinswcd.org/products

**Last day to order is Sunday, April 7. Questions on your order? Call (614) 486-9613**

**Important Information to Know About Franklin Soil and Water's Spring Tree and Plant Sale**

Bare-root seedlings are generally small. Some container and perennial plants may still be dormant at pickup. There are no refunds unless a plant you ordered and paid for is unavailable at time of pickup.
<table>
<thead>
<tr>
<th>Perennials</th>
<th>Size / Item Description</th>
<th>Price (P)</th>
<th>Quantity (Q)</th>
<th>Total Cost (P*Q)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue flag iris (Iris virginica shrevei)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blue mist flower (Conoclinium coelestinum)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boneset (Eupatorium perfoliatum)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottlebrush grass (Elymus hystrix)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Butterflyweed (Asclepias tuberosa)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Columbine (Aquilegia canadensis)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Early goldenrod (Solidago juncea)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hollow joe pye weed (Eutrochium fistulosum)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lizard's tail (Saururus cernuus)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marsh milkweed (Asclepias incarnata)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prairie dock (Silphium terebinthinaceum)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Purple prairie clover (Dalea purpurea)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rose mallow (Hibiscus moscheutos)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western sunflower (Helianthus occidentalis)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wild quinine (Parthenium integrifolium)</td>
<td>2&quot; pot</td>
<td>$4.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seeds</th>
<th>Size / Item Description</th>
<th>Price (P)</th>
<th>Quantity (Q)</th>
<th>Total Cost (P*Q)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollinator Wildflower Mix (1/8 oz.)</td>
<td>Single packet</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Native Ohio Prairie Wildflower Mix (1/4 oz.)</td>
<td>Single packet</td>
<td>$7.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Seed Packet descriptions can be found online www.franklinswcd.org/tree-and-plant-sale

\[
\text{Side 1 Total ( ) + Side 2 Total ( ) = Combined Total ( \$)}
\]

\[
\text{Tax-deductable contribution to Franklin Soil and Water Conservation Fund (\$)}
\]

\[
\text{Total Tree Sale Cost (\$)}
\]

Contact Name and/or Organization:

Street Address:

City, State & Zip: Phone Number:

Email Address (for pick-up reminders):

Payment Method: Check_______ (Check #____________) -OR- Cash _______

Make Check Payable To: Franklin Soil and Water Conservation District

Mail or Drop Off Payment & Order Form to:
Franklin Soil and Water, 1404 Goodale Blvd., Suite 100, Columbus OH 43212

FSWCD Receipt # (internal use only)

Pick-Up Details: Tear this section off & save
Please bring boxes and bags to safely transport your plants home (we'll also have some available).

Ohio Division of Wildlife                                   Friday, April 26 (7:00 a.m. - 6:00 p.m.)
1500 Dublin Rd., Columbus, Ohio 43215                        Saturday, April 27 (8:00 a.m. - Noon)
Other important updates and reminders will also be emailed to you!