

# ANNUAL REPORT 2020



## FRANKLIN COUNTY CONSERVATION DISTRICT

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*The Franklin County Conservation District is dedicated to promoting and educating about the wise stewardship of our natural resources.*



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## A Message from the District Manager

“New” pretty much describes 2020 for the Franklin County Conservation District. In January we seated two new district directors: Franklin County Commissioner Dave Keller and Mike Ross of the Franklin County Area Development Corporation. Former director, Sam Worley, transitioned to an associate director role and continues to represent the District as our PACD voting delegate as well as a Ways and Means PACD committee member.

Franklin County’s WIP3 County Action Plan (CAP) has become a large workload as we transition from the planning phase into the implementation phase of the plan. This has necessitated the hiring of two new staff members. John High was hired as a PE to develop BMP designs for implementation on county farms and to assist with reviewing Post Construction Stormwater Management Plans. Caitlin Lucas was brought onboard as our Community Cleanwater Action Plan Coordinator. Her role is to guide and promote the implementation of the CAP via organizing work groups and securing funding for BMP implementation.

Speaking of funding, the District was awarded **five** new grants totaling ~ \$2.5 million this year from DEP and SCC to be used for BMP implementation on the County’s landscape within the next several years. We got off to a good start with the completion of the \$94,000 stream restoration project at the Lurgan Lions Club. 2021 should be a busy year writing contracts, designing BMPs and getting them installed on the ground.

COVID brought about challenges forcing us to work remotely for several months. Education events were cancelled, and most meetings and trainings went virtual. We were forced to implement a new drive-thru delivery system for our tree sale, but it worked very well. We had to scale back our annual Summer Conservation Farm Tour, but it was a success nonetheless, with the Conservation Farmer of the Year honors going to Fisher Farms from St. Thomas.

In July we welcomed a new secretary/administrative assistant. Rhoda Crider made a short move from Penn State Extension’s office next door. This brings our staff compliment to ten with plenty of work for more.

I want to express my appreciation for the flexibility shown by the directors, staff, partners and clients as we navigated through uncharted territory. Without this flexibility, we would not have been able to realize the conservation accomplishments we achieved.

Enjoy the report,

*Dave Stoner*

*District Manager*



Look for our Facebook photo contest winners throughout this report!



*Kyle Florentine - Contest Topic: Local Fish*

# Who's Who at FCCD



## 2020 District Directors

<b>Chairman</b>	Evan Burkholder
<b>Vice-Chairman</b>	Barry Best
<b>Secretary/Treasurer</b>	Danae Forney/Rhoda Crider
<b>Directors</b>	Nelson Egolf Dennis Musser Mike Ross Paul Witter
<b>Associate Director</b>	Sam Worley
<b>County Commissioner</b>	David Keller

## FCCD 2020 Board of Directors

*Back row:* Barry Best, Vice-Chairman; Dennis Musser; Evan Burkholder, Chairman; Nelson Egolf; Paul Witter; Mike Ross

*Front row:* Franklin County Commissioner David Keller; Associate Director Sam Worley

## 2020 District Staff

<b>District Manager</b>	Dave Stoner
<b>Asst Manager/Ag Resource Specialist</b>	Scott Metzger
<b>Administrative Assistant</b>	Danae Forney (Jan-June) Rhoda Crider (July-Dec)
<b>Watershed Specialist</b>	Tammy Piper
<b>Resource Conservationist</b>	Mary Ann Naugle
<b>E&amp;S Technician</b>	Thomas Swartz
<b>Ag Conservation Technician</b>	Jennifer Bratthaur
<b>Ag Conservation Technician</b>	Chris Swartz
<b>Engineer</b>	John High
<b>Clean Water Coordinator</b>	Caitlin Lucas



## 2020 District Staff

*Back row:* Rhoda Crider, Tammy Piper, Jennifer Bratthaur, Chris Swartz, Mary Ann Naugle, Caitlin Lucas

*Front row:* Scott Metzger, John High, Thomas Swartz, David Stoner



Tobin Biesele - Contest Topic: Fall Foliage



# New Employees in 2020

## New Conservation District Engineer

John High, the new District Engineer, began working for the Conservation District on January 13, 2020. He graduated from Youngstown State University in June of 2006 where he studied Civil Engineering. Following graduation John began working for William A. Brindle Associates in Chambersburg, PA. John was a project engineer at Brindles, where he worked on subdivision and land development projects for commercial, agricultural and residential projects. In 2013 he became a licensed Engineer. He worked for Brindles for just shy of 14 years before coming to the Conservation District. At the District John will work with both the Chapter 102 review staff and the agricultural staff. He will help design Best Management Practice installations to help reduce nitrogen and phosphorus loading to the Chesapeake Bay. He will perform reviews of PCSM Plans for projects applying for NPDES Permit coverage.

Because John has his Professional Engineer's License, he is able to help local farmers and other private landowners with BMP design and installation and any necessary permitting requirements. He can assist with both small and large projects. John is excited to work at the Conservation District. His past experience will allow him to streamline the design projects so that the District can help as many landowners as possible with BMP installation to reduce nutrient and sediment loading.



## New Community Clean Water Action Plan Coordinator

As of February, 2020, Caitlin Lucas is the new Community Clean Water Action Plan (CCWAP) Coordinator at FCCD. Originally from Johnstown, Pennsylvania, she first moved to the area to attend Shippensburg University. While at SHIP, she was employed at the University Library and for the Center for Land Use and Sustainability (CLUS) where she worked in developing a community plan with communities of the Delaware River Basin. Caitlin graduated with a Bachelor's Degree in Geoenvironmental Studies, minors in Art/Design and Business, and a Certificate in Geographic Information Systems (GIS).

Following graduation, Caitlin was hired by an environmental consulting firm in northern Virginia as a GIS Technician. A few years later, Pennsylvania became home again as she began "pioneering" this new role at FCCD. She is excited to be back, working with the community and all of her wonderful neighbors! As the CCWAP Coordinator, she will be supporting the community's efforts in achieving their goal of keeping water clean in our local streams. This initiative is also known as "Clean Water for Franklin County" or CWFC for short.



## New Administrative Assistant

Since July 20, 2020, Rhoda Crider has been serving as the District's Administrative Assistant. She has spent the past few months learning the many details of her role including the responsibilities of Secretary/Treasurer of the Board of Directors and Envirothon Coordinator.

Day-to-day responsibilities include bookkeeping, supporting the various technicians, and tracking expenses of the many programs and sources of funding associated with each.

Rhoda recently spent six years as an administrative assistant next door at the Penn State University Extension office. She welcomes the opportunity to continue to support the community in a service-oriented position and particularly enjoys interacting with the ag community of Franklin County.



# Agricultural Resources Specialist Report

In 2020, the Franklin County Conservation District worked closely with agricultural producers to install Best Management Practices (BMP's) on their farms in cooperation with the Natural Resources Conservation Service (NRCS) Environmental Quality Incentives Program (EQIP). We were also able to provide farmers assistance with Resource Enhancement and Protection (REAP) applications, site surveys for upcoming cost share funding and non-cost share technical assistance. The site visits ranged from manure storage siting and design to barnyard runoff issues to pond site recommendations.

Over half of the farms visited were surveyed to start work on design and possible cost

share applications to EQIP or other grants that may come available.

Utilizing the funding provided by EQIP, the District provided project implementation assistance through BMP design and project oversight on multiple projects during the year.

The District worked on three farm projects in 2020 for NRCS which included: 1 manure stacking facility, 1 animal heavy use area, 1 barnyard runoff control system, 1 circular manure tank and manure transfer system and a livestock watering system. In all, the district installed 21 BMP's for a total of \$127,000 to aid NRCS in the efforts of their program.



*Completed reception pit and circular manure tank 2020*

## Low Volume, Dirt and Gravel Roads Program



The Low Volume, Dirt and Gravel Road Program administered by the Franklin County Conservation District continued to help improve local water quality by improving local road drainage. Three Low Volume Road projects were completed, and two Dirt and Gravel Road projects were done in 2020 totaling \$187,500 in program money spent.

The townships of **Lurgan** and **Letterkenny** worked together to replace an old concrete pipe crossing on Pine Run, a high-quality cold-water fishery, with a new metal arch culvert that matches the stream bank full width.



**Fannett Township** completed the work they started on Coons Road by establishing the road ditches with the help of the program and paving the road on their own.

The **Borough of Mercersburg** was able to install a drop box filter and repave McConnell Alley with the help of program funds. The new filter will help cleaner water flow to Johnston Run in Mercersburg by filtering the runoff before it leaves the box.

*Lurgan/Letterkenny Township stream crossing **before** (top) and **after** (bottom)*



**Warren Township** started on the Sylvan Drive Dirt and Gravel Road project by installing new culvert pipes at strategic locations to address drainage issues and placing fill to build up the road base and giving it a nice crown to help shed water off the road quickly. They plan to complete this project in 2021.

**Quincy Township** was able to finish their Green Corner Road project by placing the last 2,000 feet of driving surface aggregate.

*Quincy Township, Green Corner Road: Driving Surface Aggregate placed*

# Erosion & Sedimentation Control Program

The Franklin County Conservation District's priority of the erosion and sedimentation pollution control program is the protection of water resources from the impacts of accelerated erosion and sedimentation that may result during an earthmoving activity. The District maintains its Level II delegation with the Department of Environmental Protection (DEP) to administer the erosion and sedimentation control and the National Pollutant Discharge Elimination System (NPDES) programs by the DEP. The District strives to maintain an active field presence ensuring the approved Erosion and Sediment Control plans are being properly implemented in the field.

The year of 2020 had challenges unlike any other year due to the COVID-19 pandemic. However, it did not prevent the District from carrying out its usual program responsibilities, primarily consisting of conducting in-depth plan reviews, processing NPDES permits, site inspections, responding to E&S related complaints, and hosting educational events.

Although the District was not able to host any educational workshops this year, we were able to carry out the responsibility by hosting 11 virtual educational meetings.

New to the E&S program this year, the District hired a professional engineer, John High. John's primary focus is to provide technical engineering reviews of Post Construction Stormwater Management (PCSM) plans submitted to the District in order to ensure the PCSM plans meet Chapter 102 and NPDES requirements.

## 2020 E&S Program in Review

E&S Plan Reviews: .....	130
Project Acres: .....	4321
Disturbed Acres: .....	1,239
General NPDES Permits: .....	78
Individual NPDES Permits: .....	3
Enforcement Referrals.....	1
Inspections: .....	452
Complaints: .....	39
Technical Assistance .....	2844



*The photo above is a great example of why the District emphasizes the use of erosion control matting on steep slopes. As you can see, there was no matting used, vegetation is sparse, and the compost filter sock is overwhelmed with accumulated sediment.*



*This photo accurately demonstrates the effectiveness of erosion control matting and why the District emphasizes its use. This slope was stabilized with erosion control matting unlike the photo to the left. You can see how effective the matting is at establishing vegetation and holding disturbed soils in place.*

# Clean Water for Franklin County Initiative (CWFC)

**Message:** CWFC aims to offer continued conservation support to our natural resources, local wildlife, and parks/recreation. The initiative strives to retain and enhance the beauty of our home for the members of the community and future generations to follow while reducing nutrient loading in our local streams.

## Priority Initiative Updates

### Priority Initiative 1: Programmatic, Policy, & Regulatory Change

**To integrate efforts between state and local levels:** Clean Water Coordinator was hired, Steering Committee created, Implementation Structure outlined.

**To create a central location for data reporting:** Coordinator facilitates data reporting efforts include Funding Opportunities/Awards, Project/Collaboration Opportunities, Implementation & Nutrient Reductions, and "All things CAP".

### Priority Initiative 2: Soil Health

**To establish a set of BMPs that will reduce nutrient loading in local waters and meet state assigned goals:** BMP Plan finalized, submitted to DEP, and implementation in progress. Ag staff have been working with willing/able landowners to maximize funding for BMP installation. There is an extreme focus on funding (striving towards a goal of "steady stream of funds" moving forward). We have also been piloting a "proactive approach" to ensure NO funding opportunities are missed and NO willing/able landowners are overlooked.

**To identify key areas for BMP installation with greatest net effect:** We have performed assessments on both modeled and observed water quality. Assessments revealed a need for more monitoring throughout our county and top watersheds for BMP need.

**To prepare GIS mapping of proposed installations of BMPs to meet state goals:** The FCCD Team is working on in-house BMP inventory which would include reported BMPs, newly implemented BMPs, not-yet-recorded existing BMPs, and potential BMP projects/landowner inquiries.

### Priority Initiative 3: Implement Education, Coordination, & Outreach

**To develop a communications strategy:** Coordinator has developed a communication plan for CWFC which has seemed to improve interactions regarding county goals.

**To utilize existing resources to engage educational objectives and develop a focused effort to promote BMPs in the agricultural community:** Facebook page for the district and Program Page for CWFC on our website have been created, and we have started sending emails regarding funding announcements to local stakeholders. A grant from a local community investment fund was awarded to the District for the creation of a handout summarizing clean water goals and BMP implementation.

### GRANTS AWARDED TO FCCD IN 2020

Conservation Excellence Grant

Section 319

Growing Greener

TC Energy Foundation – Community Investment

PA Environmental Stewardship Fund

## OUTREACH

Clean Water for Franklin County initiative established February 2020  
Community Clean Water Action Plan (CCWAP) Coordinator (Caitlin Lucas) began role  
February 2020

Facebook Page and new website Program Page created in March 2020

**188 page followers**

Steering Committee Assembled Spring 2020

Steering Committee Kickoff Meeting held July 2020

Action Items discussed; plan and general timeline formed

## PROJECTS

The FCCD staff, in conjunction with the CCWAP Coordinator, has spent the year applying for funding from multiple sources. In turn, the FCCD staff has been strategically allocating these funds to benefit area farmers. To date, FCCD has been awarded **\$1,954,944** in 2020 for projects/outreach.



Above: Another successful cover crop field in Franklin County

Left: A farm in Southampton Township showing conservation tillage (left) and cover crops (right)

# Agricultural Erosion and Sediment Control Program

The Franklin County Conservation District (FCCD) continued to work with farmers to reduce sediment and nutrient runoff from agricultural land throughout the county. Even amidst the shutdown period in 2020, Agriculture staff from the District continued to write Agricultural Erosion and Sediment Control (Ag E&S) plans on cropland while working with growers to increase overall soil health.

In 2020, the FCCD fulfilled their obligations to complete the \$20,252 Growing Greener Grant that was awarded to the District in 2019. The goal of the grant was to develop 20 Ag E&S plans over the course of two years for farms in agricultural-impaired watershed areas. Approximately 2,559 acres of land were covered in these 20 Ag E&S Plans, and the District completed the grant one year ahead of schedule.

Although the Covid-19 pandemic limited the number of in-person site visits during 2020, FCCD Ag staff continued to develop Ag E&S plans on approximately 3,200 additional acres of cropland and are working to meet with growers to review these plans. While many farmers in Franklin County have already been utilizing conservation practices on their operations, District staff were able to recommend Best Management Practices (BMPs) for pasture management, reduced till farming methods, and planting and growing cover crops to protect the soil over the winter. These BMPs reduce soil erosion while improving overall soil health.

These 3,200 acres will be documented in Franklin County's Phase 3 Watershed Implementation Plan to show that Franklin County agriculture is working towards its EPA mandated goal of reducing nutrient and sediment loading into the Chesapeake Bay.

Assisting producers with Ag E&S plans allows our staff to establish and maintain good working relationships with the farmers in Franklin County.



*An example of small grain silage residue in a double crop corn field*

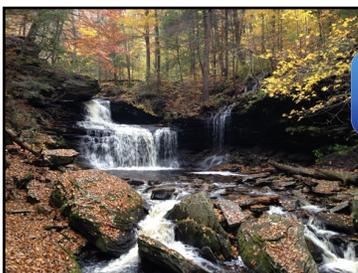
## District Engineer

The Franklin County Conservation District Engineer works alongside the Ag staff and assisted on several surveys of farms for design of BMPs. John accompanied Ag staff on several farm visits to provide support and answer technical questions concerning BMPs. Back in the office, John worked on BMP designs for several different farms and has plans for implementation in 2021.

The Engineer also works with Mary Ann Naugle and Thomas Swartz on the Chapter 102 reviews for large projects. The Engineer reviews the Post Construction Stormwater Management (PCSM) design components of the submissions for NPDES Permits. The plans are reviewed to ensure they meet the requirements set forth in the PA Chapter 102 regulations for stormwater controls. Larger subdivisions, warehouse projects, and individual permit projects all have their stormwater components reviewed by the Engineer. Several large warehouse projects that were approved in the 2020 calendar year are under construction in the County. The Engineer was available to address consultant questions regarding PCSM Plans.



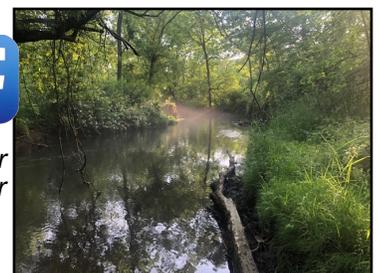
*The District Engineer assists in designing BMPs on Franklin County dairy farms such as this one.*



*Linda Harbaugh  
Contest Topic: Parks*



*Susan Hoover  
Contest Topic: Water*



# Watershed

## Lurgan Township Lions Club Project

**Project Location:** 3,500' reach of the Conodoguinet Creek along the Lurgan Township Lions Club grounds in Roxbury, PA.

**Project Description:** This site was suffering from severe stream bank erosion, so the U.S. Fish & Wildlife Service developed a design in 2018 involving the installation of various stream bank stabilization techniques and fish habitat structures in order to correct the problems. These methods generally offer three benefits as the structures: redirect the flow of the water back into the center of the channel (instead of allowing it to continually flow directly into the bank and cause more erosion); protect the stream bank with logs and stone to prevent further erosion; and provide cover/habitat for fish.

**Project Status:** Construction began on June 23, 2020 and ended on July 8, 2020. The FCCD Watershed Specialist spent a lot of time communicating with partners, typing documents, obtaining signatures, leading the pre-construction meeting and typing and distributing notes to all partners, marking and submitting design phase to PA One Call, taking photos, setting up and attending visits with the PA Department of Environmental Protection to gather information and pictures for publishing an article about the project installation; speaking with DLI regarding prevailing wage requirements, working on educational signage design content, communicating with CAP Coordinator and conducting various site visits.

**Project Partners:** Lurgan Township Lions Club (They were the first entity who initially reached out to us for assistance. Four other adjacent landowners also agreed to allow us to install devices on their properties.), Lurgan Township Recreation Center, Lurgan Township, Letterkenny Township, U.S. Fish & Wildlife Service, PA Fish & Boat Commission, PA Department of Environmental Protection, and Franklin County Conservation District.



## Watershed Group Spotlight: Creek Cleanup Project

Franklin County Conservation continues to support the efforts of area watershed groups throughout the county. One particular group, the Creek Cleanup Project, consists of a group of local residents who volunteer their time removing trash from our local streams. They have about eight core members who assist with cleanups on a weekly basis and about 20-30 volunteers per cleanup during the summer months.

Heavy appliances, mattresses, tires, fuel tanks, and shopping carts are just a few of the items that they regularly remove from the water. Their passion for this work runs deep and was ignited when the group's president, Eric Grace, took his daughter fishing and noticed all of the debris in the stream. Additionally, the Creek Cleanup Project has removed all debris within the Conococheague Creek from Brindle Road in Fayetteville to Cearfoss Pike in Maryland. Over 35,500 pounds of trash was retrieved from this 44-mile section of creek in 2020!

To learn more about the Creek Cleanup Project, please visit their website at <https://creekcleanupproject.org> or their facebook page at <https://www.facebook.com/ccpfcpa>.



*The Creek Cleanup Project members work hard to remove a variety of objects from our local creeks.*

# 2020 Golf Tournament Scholarships Awarded

The Franklin County Conservation District has sponsored an annual golf tournament since 2007. The proceeds from the tournament fund our Environmental Scholarship program.

To date the District has awarded over 58 scholarships (approximately \$41,000) to Franklin County students who have had course work in Ag Business, Ag Extension, Animal Science, Dairy Science, Earth Science, Environmental Science, Equine Management, Forestry, Geo-environmental, Horticulture, Marine Biology, Turf Management and Veterinarian Science.

The 2020 tournament was canceled due to the pandemic. However, many of our sponsors and registrants were kind enough to donate their sponsorship funds and/or their registration fees towards the scholarship fund. Therefore, the District was able to offer **EIGHT** \$750 scholarships for 2020.

The recipients of the 2020 scholarship program are:

- Logan Bohn** - Attending West Virginia University majoring in Environmental Law
- Liam Coulter** - Attending University of New England majoring in Marine Science
- Wyatt Craig** - Attending Penn State University majoring in Forestry
- Emily Metcalfe** - Attending Wilson College majoring in Veterinary Medical Technician
- Madison Smith** - Attending Wilson College majoring in Environmental Science
- Hunter Timmons** - Attending Penn State University majoring in Animal Science
- Megan Wingert** - Attending Wilson College majoring in Veterinary Medical Technician
- Aliyah Witmer** - Attending Delaware Valley University majoring in Equine Management

The Franklin County Conservation District Golf Committee would like to extend its thanks to everyone for their patience and understanding and for their continued generous support. We hope to see you at this year's tournament!



Megan Wingert



Hunter Timmons



Madison Smith



Wyatt Craig



Emily Metcalfe



Liam Coulter



Aliyah Witmer



Logan Bohn

*Congratulations*

# Act 38 Nutrient Management Program

## Chapter 91 Manure Management Manual Program

### Act 49 Commercial Manure Hauler and Broker Certification Program

Even though the work for the Act 38, Chapter 91 and Act 49 programs never ceases, the District was definitely presented with some challenges in 2020 due to the COVID-19 pandemic. In spite of these challenges, we continued our efforts to educate the public about agricultural regulations and worked with farmers to help them achieve compliance with these regulations.

#### Manure and Nutrient Management Education

Due to COVID-19, many of the educational workshops and events had to be cancelled because of shutdowns and requirements to meet public health mandates of social distancing and limited venue capacity. Before the pandemic, the District gave an agricultural regulations overview presentation at Franklin County Penn State Extension’s Crops Day and also presented Manure Management Guidelines and Watershed Implementation Plan details to farmers at a local agricultural winter meeting.

The District was also able to hold one Manure Management Manual Workshop at which six livestock producers completed their Manure Management Plans. Over the summer, the District held their Summer Conservation Farm Luncheon (previously a farm tour) at an outdoor venue with plenty of space for social distancing (*please see next page for details and photos.*)



*Crop residue with a growing cover crop*

#### Act 38 Nutrient Management Program

- 17 existing Nutrient Management Plan Amendments were reviewed and approved
- 1 new Nutrient Management Plan was reviewed and approved
- 38 on-site status reviews were completed

#### Manure Management Manual Program

- One workshop enabled six livestock operations to complete their Manure Management Plans (which covered approximately 3,068 acres)
- Provided one-on-one assistance with the completion of Manure Management Plans for 19 livestock operations

#### Act 49 Commercial Manure Hauler and Broker Certification Program

- Administered four Manure Hauler II tests
- Reviewed ten Nutrient Balance Sheet packets submitted by Act 49 manure brokers



*Various Franklin County farms*



# 2020 Conservation Farmer of the Year Event

The funding provided through a state mini-grant program enabled the Franklin County Conservation District to provide important education on the benefits of Best Management Practices (BMPs). The District's 2020 Conservation Farmer of the Year, Fisher Farms of Saint Thomas, was highlighted to provide approximately 40 attendees with a farmer's view of the BMP process.

Normally, the District holds a Summer Conservation Farm Tour for attendees to gain firsthand knowledge about the benefits of installing Best Management Practices (BMPs) on farms. This year, due to COVID-19 pandemic concerns, the tour was replaced with an outdoor luncheon. Since the tour could not be held in person, the District hired a professional photographer to take detailed pictures of the numerous BMPs. These photos were displayed at the luncheon.

Fisher Farms presented a first-hand account of the installation and maintenance of various BMPs and explained how those practices have reduced the nutrient and sediment runoff from their farm. The Franklin County Conservation District congratulates Fisher Farms for their hard work and diligence for the past many years.

In addition, the Conservation District provided information on the Countywide Action Plan (CAP) that is now in place in an effort to reduce the nutrient and sediment loading which is entering our surface waters.



Back row, left to right: Franklin County Commissioner John Flannery, Award recipients Kenneth Fisher, Marvin Fisher and Nelson Fisher, FCCD Board Chairman Evan Burkholder, PA Senator Judy Ward  
Front row, left to right: Matthew Fisher, Shawn Fisher



Manure storage at Fisher Farms



## 2020 Tree Seedling Sale

Norway Spruce	400
Colorado Blue Spruce	300
Eastern White Pine	475
Canaan Fir	350
Red Cedar	300
Red Oak	500
Persimmon	300
Red Bud	150
Scarlet Maple	150
Redhaven Peach	10
John Boy Peach	5
Galarina Apple	14
Crimson Crisp Apple	6
Pachysandra Green	60
Ajuga	140
Sedum	90
Liriope	60
<b>TOTALS</b>	<b>3310</b>



## 2020 Envirothon

The 2020 Envirothon was held virtually with students competing individually.

We are grateful for the continued support of our sponsors.

### 2020 Sponsors

Adams Electric Cooperative  
Donald Spickler Insurance, LLC  
Herbert, Rowland & Grubic, Inc.  
Mercersburg Lions Club  
The Butcher Shoppe  
Waste Management Connections

