

ALLEGHENY WINS

“WATERSHED IMPROVEMENT NEEDS”

COALITION

ANNUAL REPORT 2013



MISSION STATEMENT:

To promote protection, restoration, and habitat improvement activities in watersheds that lie entirely or partially in the Allegheny National Forest and to achieve Forest Service and community needs through collaboration and partnerships

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Cover photograph: Minister Creek by Alex Vallejo. Five miles of this stream located in Forest and Warren counties are managed under the Wild Brook Trout Enhancement program. Fishing is open all year round; there are no tackle restrictions, but no brook trout may be killed or possessed.

What is Allegheny WINS?

Northwestern Pennsylvania is fortunate to have many miles of high quality streams and rivers. The Allegheny River, a federally designated Wild and Scenic River, is the centerpiece of the half-million acre Allegheny National Forest. The Allegheny and its major tributaries, Tionesta Creek and the Clarion River, are well known for their recreational value and high quality fisheries. Healthy populations of sport fish such as trout, bass, walleye, muskellunge, and pike share these waters with rare and endangered species of turtles, mussels, amphibians, invertebrates, and fish. Rich riparian zones provide feeding areas, nesting sites, and travel corridors for waterfowl, birds of prey, and other wildlife. Thousands of miles of smaller streams are home to our state fish, the Eastern Brook Trout.

The scenic waters of the Allegheny region appear to run clean and pure, and, in fact, some are now in better condition than they were decades ago. The Allegheny River, Clarion River, and Tionesta Creek each support healthy fisheries, which was not always the case. From the late 1800's through the mid-1900's, the rivers were spoiled by pollution from pulp mills, tanneries, mines, intense oil and gas exploration, and timber harvests. As these industries faded, conservation measures were implemented, and the waters began to heal and recover.

Unfortunately, new threats have arisen to, again, threaten our waters. Impacted by decades of acid rain and industrial pollution, the region's aquatic ecosystems are now being stressed by booms in oil and gas development and outdoor recreational activities. The number of miles of impaired streams is steadily increasing in the region, with some of the most vulnerable being our smaller headwater tributaries. These first and second order streams provide important habitat for fish and wildlife, and ensure that clean water flows to downstream communities by controlling sediment and nutrient loads. They also stabilize flows by retaining water during storm events and releasing it slowly over time and maintain a base flow during drier periods.

Because their natural buffering capacity is weak, the region's freestone streams are vulnerable to acid deposition. An acid rain event can immediately lower the pH in streams and virtually eliminate aquatic invertebrates and fish in large sections of streams.

Streams affected by acid deposition often suffer from increased sedimentation as well. An extensive network of dirt and gravel roads overlays the entire WINS area. Over 2000 miles of oil and gas access roads and 1200 miles of Forest Service roads penetrate even the most remote corners of the National Forest. The native sandstone material used to construct these roads is comparatively soft, breaks down easily under traffic, and readily erodes into adjacent streams. As a result gravel stream bottoms, which are vital for fish reproduction, become embedded with mud and sand. Aquatic invertebrate communities, a primary source of food for fish, are also depressed or altered under these conditions. The result is a loss of critical habitat for coldwater species and a reduction in overall productivity of the stream. Sensitive species like trout have to migrate up into smaller tributaries or downstream into larger waters to survive.

Other issues related to dirt and gravel roads include elevated stream temperatures and poorly placed culverts and road crossings that act as barriers to fish passage. Several of the region's remote streams that once held healthy populations of brook trout have become degraded because of these problems.

Most of the streams across the region lack the habitat complexity created by large wood because of historic logging activities. The current habitat is largely defined by high frequencies of riffle and glide features with few pools. Since pool habitat is important for aquatic organism survival and propagation, streams in the region may not fully meet Pennsylvania designated protected water uses due to the lack of adequate aquatic habitat in the form of pools. Best management practices now encourage the protection of

riparian areas by leaving stream buffers and limiting activity. In response to these policies, riparian areas are reaching an age where they are beginning to contribute large wood (e.g. small trees, limbs, and trees affected by mortality and wind throw) to stream channels. Large wood will help recover the ecological processes and instream functions such as storage of sediment and coarse organic matter in small tributary streams and the creation of larger, deeper pools. It will take several more decades of careful riparian area stewardship before these ecological processes are fully affecting larger fish-bearing streams.

Normally, a healthy aquatic system will adjust to stress caused by changes in conditions. However, when changes occur more quickly than the system can adjust, it becomes unstable and results in degradation. This has been the case in and around the Allegheny National Forest. The situation demands greater protection of healthy and pristine watersheds and repair to the impaired ones.

In summary, the main environmental problems affecting Allegheny watersheds include:

- Atmospheric deposition
- Sedimentation, erosion, and instream habitat degradation from sandstone based roads used for timber and oil and gas well access
- Sedimentation and erosion problems associated with recreation such as camp sites, boat and canoe launches, and all terrain vehicle trails
- Fish barriers and habitat degradation around culverts, crossings, and dams
- Lack of instream habitat for fish

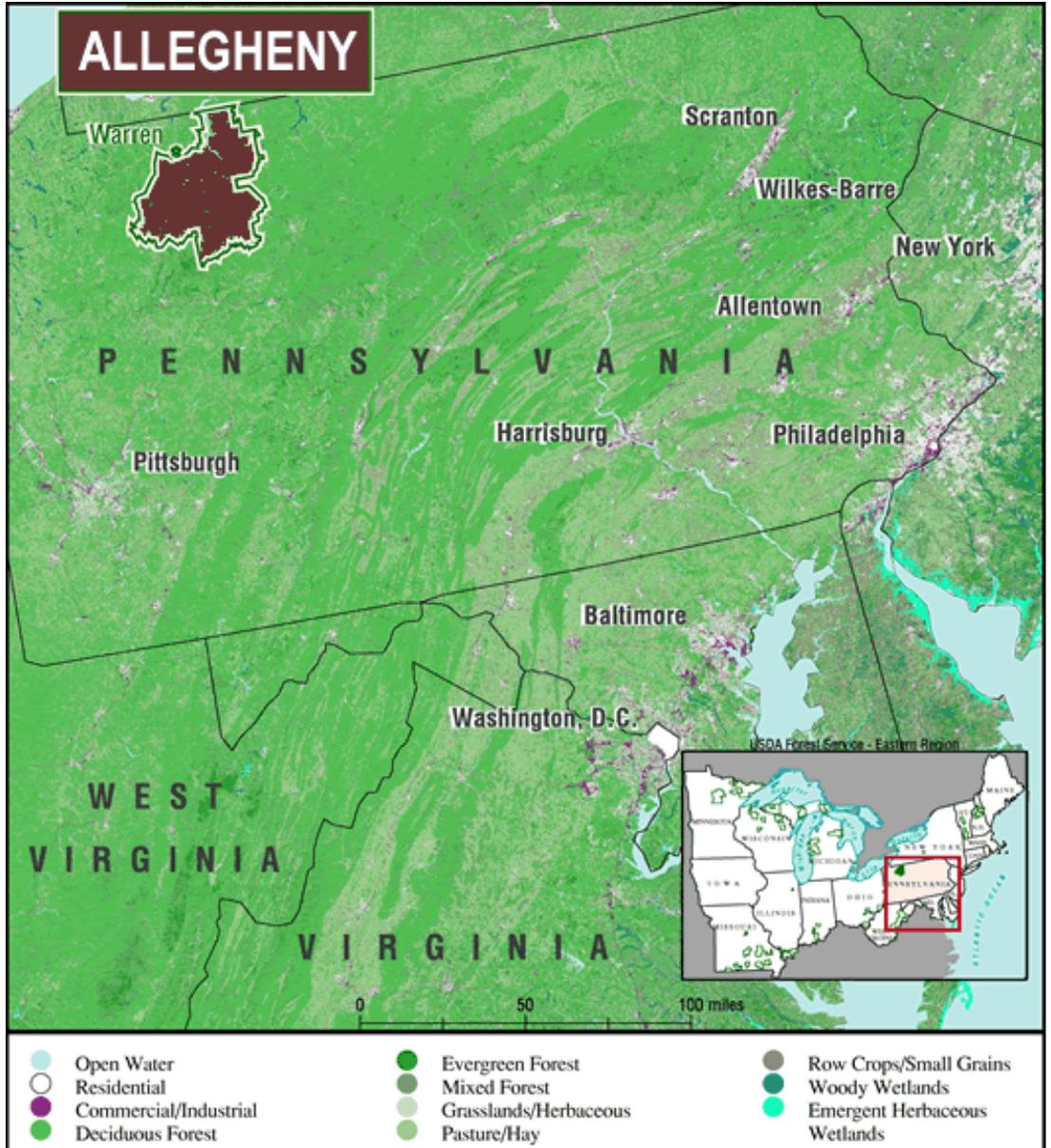
In an economically active and large geographic area such as the Allegheny, these problems can be overwhelming for any single government agency or community-based organization. To address the issues and find solutions to the problems, a group of like-minded non-profit organizations, private individuals, and local, state, and federal government agencies decided to join forces and build a coalition. The common thread that binds the partners of this coalition is an interest in developing and promoting watershed restoration activities.

The Allegheny Watershed Improvement Needs Coalition (WINS) was formed in April 2007; its mission is **“To promote protection, restoration, and habitat improvement activities in watersheds that lie entirely or partially in the Allegheny National Forest to achieve Forest Service and community needs through collaboration and partnerships.”** The group’s main focus is developing and implementing projects to protect and improve high quality watersheds and aquatic ecosystems and to restore others that are impaired. This includes outreach and education campaigns targeting rural communities and youth as a means of preventing problems from occurring in the future. Since its inception seven years ago, the Coalition has demonstrated a high degree of success in project development; this report documents those accomplishments.

Allegheny WINS is governed by a steering committee made up of representatives of municipal, county, state and federal government agencies, and leaders of various non-profit organizations such as the Western Pennsylvania Conservancy, Trout Unlimited, and local watershed organizations. The group meets bi-monthly at locations throughout the forest.

Where is Allegheny WINS?

2500
Square miles
Over 600,000
Acres of public land
2000+
River and stream miles
14
Major watersheds
3500+
Miles of dirt and gravel roads



Map courtesy of US Forest Service

Allegheny WINS projects can be found on the half-million acre Allegheny National Forest and on neighboring State Forests, State Game Lands, and private lands in Northwestern Pennsylvania. The Allegheny National Forest is within a day's drive of 1/3 of the nation's population.

UPPER AND MIDDLE ALLEGHENY RIVER WATERSHED



Photo courtesy of US Army Corp of Engineers

Kinzua Dam on the Allegheny River near Warren, PA

Allegheny Reservoir Cleanup - Ninth Annual

Partner: US Forest Service and US Army Corps of Engineers

The ninth annual Allegheny Reservoir Cleanup took place on Saturday, May 11, and was a cooperative effort involving the US Forest Service (USFS), PA Fish & Boat Commission, US Army Corps of Engineers, Warren County Adult Probation and Parole, Cornplanter Chapter of Trout Unlimited, and seven other community organizations.

A total 81 volunteers and employees donated 648 hours collecting trash from:

- 26+ miles of shoreline from SR59 south to Red Bridge
- Longhouse Scenic Drive (11.3 miles) and SR321 (4.6 miles)
- 5 campgrounds and 4 boat launches: Dew Drop, Elijah, Kiasutha, Morrison, Red Bridge, and Dunkles Corners

A total of 6 cubic yards of trash, >7,000 lbs. of metal, (6) 30-gallon bags of plastics, (12) 5-gallon buckets of glass, and 8 tires were collected from public lands and recycled.



Organizers and volunteers work to prepare an abandoned pipeline for pickup during the event.

Now in its ninth year, the positive effects of the annual Reservoir Cleanup are very apparent. As a result of this annual community conservation “event” the shorelines and waters of the Allegheny Reservoir are much safer and cleaner places for the wildlife and recreationalists who use them.

Allegheny River and Conewango Creek Cleanups - Fifth Annual

Partner: US Forest Service and Conewango Creek Watershed Association

The fifth annual Allegheny River and Conewango Creek Cleanup was a huge success resulting in tons of trash being dragged from our beautiful Wild and Scenic River.



Recovering a bathtub from Conewango Creek

In total, 297 volunteers donated 2,376 hours removing trash from 39 miles of the Allegheny River and 14 miles of Conewango Creek. This year’s cleanup again included the 8-mile section of river between Tidioute and West Hickory.

The cleanup yielded over 38 cubic yards of trash plus 9,170 pounds of metal and 93 tires. Items of interest included a 20’ pontoon boat, a 16’ wooden row boat, a rubber track for a Bobcat, a 400 lb. well bit drill head, a Ford Model T engine block, (2) teeter tooters,and the list goes on and on!!



Hard working volunteers enjoy a beautiful day while cleaning up the Allegheny River

Planning for the tenth installment of this annual community conservation event has already begun. New volunteers and new ideas are always welcome. Visit www.alleghenyrivercleanup.com to get involved.

Anders Run Natural Trail Improvement Project 2013

Partner: PA Department of Conservation of Natural Resources

During the summer of 2013, in a cooperative interagency effort, the Allegheny National Forest again offered the services of their Student Conservation Crew (SCS) to the Cornplanter Forest District to complete trail re-routing and maintenance and improvement work at the Anders Run Natural Area. This 100-acre State Forest Natural Area contains many large tree specimens of white pine, hemlock, and hardwood species. The area is considered a second-tier old growth forest. This forest also affords protection to Anders Run, a high quality stream that is home to several aquatic species of special concern.



Student Conservation Crew members break for lunch during Phase II of the Anders Run project in 2103

In an effort to further stabilize the trail system and eliminate any erosion that may be impacting Anders Run on the southern portion of the Natural Area, the crew this past summer continued to improve the trail surface and ensure long-term resiliency. Crew members also assisted with permanently closing and stabilizing portions of the old trail system no longer in use and helped to widen the trail by trimming back brush and other natural materials.

While the southern portion of the system required the most work, the crew was also able to provide some attention to the northern section of the trail. An extremely steep grade combined with a spring seep on this portion of the trail system has caused erosion issues for many years and was in dire need of being re-routed.

Following a route flagged by Bureau of Forestry staff, the students did an admirable job of constructing the new re-routed portion of the trail. It not only eliminated erosion issues, but improved public safety by eliminating a steep, slippery slope and replacing it with a more gradual grade. The crew also placed water bars in a section of the trail that could not be re-routed to aid in dispersing water off the trail, thereby reducing erosion.



An additional area where the trail was located too close to an unnamed tributary of Anders Run was addressed by moving the trail to higher ground. Once the old trail reverts back to a vegetative state, erosion will be significantly reduced.

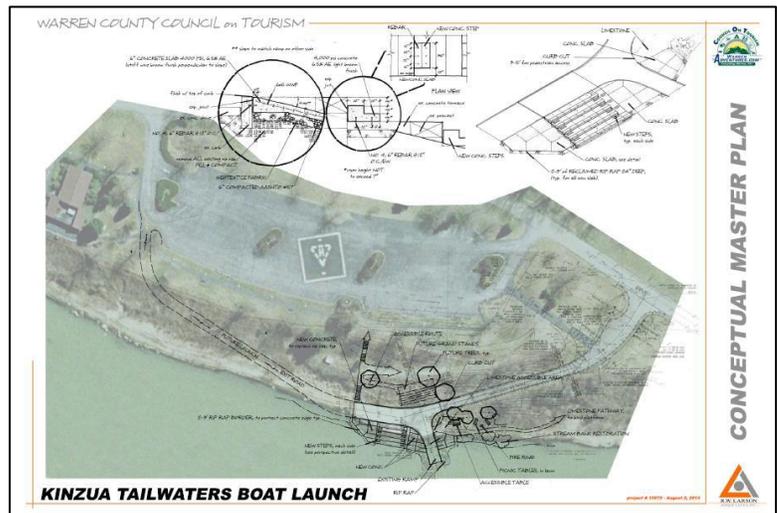
Without the efforts of the SCC crew and the U.S. Forest Service, this project could not have been completed and the Cornplanter Forest District appreciates the inter-agency support of the Allegheny National Forest for the services of their crew.



Big Bend Recreation Area - Boat Launch

Partner: US Army Corps of Engineers

The goal of this project is to make continuous improvements to the Big Bend Recreation Area (BBRA) for the purpose of making the site a premier tourist attraction in the Commonwealth. It already draws tourists from across the United States, Canada, and around the world with its wide, sweeping views of the Kinzua Dam whitewater outflow and the northern terminus of the Wild and Scenic Allegheny River. Project partners include the US Army Corps of Engineers, US Forest Service, Allegheny Outdoor Club, WINS Coalition, Warren County Chamber of Business and Industry, Warren County Council of Tourism, Penn Soil Resource Conservation and Development Council, and Allegheny Outfitters.



In 2009 the partners completed construction of a bird-viewing platform and Riverside Watchable Wildlife Trail at the BBRA. Visitors enjoy an enhanced view of many different birds including bald eagles, ospreys, mallard ducks, mergansers, and blue herons. Utilizing funds from local contributors, a significant portion of the trail surface, approximately 800 linear feet adjacent to the viewing platform, was blacktop paved during fall 2013.

In 2011 improvements to the existing boat launch were begun with the addition of four new concrete steps to make access to the water safer and more efficient. The construction of concrete slabs to replace the existing riprap is planned for spring 2014.

Conewango Creek Hospital Dam Removal

Partner: Conewango Creek Watershed Association

Located in Glade Township, Warren County, the Hospital Dam is a concrete-capped, rock-filled timber crib dam built circa 1900 across Conewango Creek to provide water supply to the PA State Hospital at Warren. The dam was abandoned in the 1960's when a high-water event breached about 50 feet of the dam. About 275 feet upstream of this dam are the remnants of an earlier rock-filled timber crib dam.

This project which will remove both dams is a partnership between American Rivers, DEP Dam Safety, PA Fish & Boat Commission, Ohio River Basin Fish Habitat Partnership, Glade Township, and the Conewango Creek Watershed Association. Engineering design is completed and permitting is expected to be complete in spring of 2014. Dam removal is expected to commence in mid-summer of 2014 and take approximately two weeks to complete. When the two dams are removed, Conewango Creek will be barrier-free for more than 27 miles providing water trail access and aquatic organism passage for resident riverine species as well as mussel host species. The total budget for the project is \$130,000.



Oblique aerial view showing Hospital Dam and upper unnamed dam remnant during low water conditions. Source: Google Earth



View from Conewango Creek left of Hospital Dam (L) and upper dam remnant (R).

Conewango Creek Wetland Restoration

Partner: Conewango Creek Watershed Association

A small but potentially significant collaborative effort is ongoing within the Conewango Creek watershed. At an undisclosed location (to protect private land and vulnerable wetland species), Conewango Creek Watershed Association (CCWA) has teamed up with the following entities: Private landowners; Local municipality; Warren County Conservation District (WCCD); Allegheny National Forest (ANF); Western PA Conservancy (WPC); Jamestown Community College (JCC); and the Roger Tory Peterson Institute (RTPI).

Together, collaborators have developed a multi-faceted plan to reduce municipal road maintenance costs, decrease salamander mortality, prevent further sediment deposition in wetland habitat utilized by wetland species, and to provide outdoor education opportunities for people interested in learning more about these special places.

A road shoulder adjacent to a privately owned wetland where multiple species of amphibians are known to breed is densely populated with Japanese knotweed. This road and its associated drainage system are problematic because it's often saturated, leading to chronic maintenance responsibilities and costs for the municipality, and creating driving problems for motorists. The road is also problematic for breeding salamanders that breed in the wetland. To get to it, some salamanders cross the road from a forested hillside on the opposite side. Salamander mortality due to vehicular traffic is not uncommon. Because this dirt road tends to stay moist, salamanders are in no hurry to cross it, increasing their chance of vehicle mortality. Lastly, Japanese knotweed has entered the wetland on a slug of recent sediment generated by the road drainage system.

With permission from the landowners, RTPI and JCC scientists conducted reconnaissance surveys of the wetland in 2013 and found it to be largely functional. They also found evidence of salamander and other amphibian breeding. CCWA in cooperation with the landowners, made some strides to reduce the knotweed population along the road adjacent to the wetland. They expect to contract with a qualified pesticide applicator for two knotweed sprayings in 2014. These treatments should greatly reduce the potential for knotweed spread into the wetland. Also in 2014, ANF staff is developing a road design to reduce the energy of road drainage water entering the wetland. Their design will include road surfacing to provide a travel way that will dry more quickly and require less maintenance. Road reconstruction could be completed in 2014 under a cost-share program with the PA Dirt and Gravel Road Maintenance program. If the municipality chooses to implement the ANF design for the road, it is expected to augment the goal of knotweed reduction, improving the overall health of the wetland.

The wetland is a unique and sensitive landscape. With landowner permission, it could be used to help educate the public (secondary school-age up to adults) about wetland function. It could also provide educational and research opportunities for students and other scientists. Discussions are ongoing among the collaborators to explore ways the wetland can provide insight about the importance of similar habitats throughout the Conewango Creek watershed. CCWA values the collaborative process and hopes this small but significant project can help launch similar efforts elsewhere in the watershed.

Dutchman Run Fire Dam Removal

Partners/Sponsors: US Forest Service, American Rivers, and Warren County Conservation District.

Dutchman Run, located in Mead Township, Warren County, is a tributary in the Browns Run watershed which feeds into the Upper Allegheny River. Prior to the 1950's a small concrete dam was built across Dutchman Run adjacent to US Route 6 to create a pond for fire protection. Currently, this pond is filled in with sediment and the stream has begun to erode around the abutment of the dam. The erosion is causing excess sediment delivery to Brown's Run and it is a complete fish passage barrier.

Upstream of the dam approximately 450 feet of Dutchman Run was diverted underground through a concrete box culvert to provide parking access for an industrial building currently owned and operated by Tru-Gas. This project will provide the engineering designs and permits for removal of the dam, enable restoration of stream bank in the former impoundment, day-light the stream, re-establish a riparian corridor along the project area, enhance aquatic organism passage, and supply a bridge for access to the industrial building. The restoration will restore access to 3.3 miles of the headwaters of Dutchman Run.

The current funds contributed by American Rivers and the USFS for the project is \$65,000, plus an additional \$10,000 donated by Orvis. Additional funds will need to be acquired for the completion of this project.

McKean County Fish Habitat Improvement Projects

Partner: McKean County Conservation District (MCCD)

Since 2007, MCCD has completed 89 stream bank restoration projects throughout McKean County including 16 in 2013 by utilizing through their partnership with the Division of Habitat Management of the PA Fish and Boat Commission.

These projects have stabilized approximately 13,400 feet of stream bank, creating three miles of riparian area by planting 1,000 shrubs and preventing an estimated 935 tons of sediment from entering the waters of the Commonwealth. Through DEP's Growing Greener program and a partnership with Western Pennsylvania Conservancy an additional 9,700 trees and shrubs have been planted recently on approximately 30 acres to reestablish riparian areas along tributaries to the Allegheny River that are impaired from agricultural siltation.

Funding for this program has been secured through DEP's Growing Greener and Growing Greener II County Environmental Initiative, DEP's Stream Improvement Program, PA Fish and Boat Commission's Sinnemahoning Watershed Grant Program, and the Headwater RC&D Council's Sinnemahoning Watershed Grant Program.

The District has applied for future funding through the Midwest Fish Habitat Partnership, PA Fish and Boat Commission's Sinnemahoning Watershed grant program, and DEP's Stream Improvement Program. A grant application has also been submitted to PFBC for the installation of two handicapped accessible fishing piers and two canoe accesses at Marilla and Gilbert Reservoirs in Bradford Township, and a fishing pier with a canoe landing on Potato Creek at Penn State Extensions' Natural Resource Learning Center.



MCCD's Lindsay Shine and Heather McKean with assistance from Penn DOT and PFBC install a modified mudsill along the Allegheny River.

McKean County Regional Trout in the Classroom Release

Partner: McKean County Conservation District

On March 27, ninety students from Kane High School and Smethport Elementary and High Schools released brook trout fingerling they have been raising as part of Pennsylvania Trout In the Classroom (TIC) program. The District partnered with the schools to coordinate this event and helped release the fingerlings in Two Mile Run at Wildcat Park in Ludlow. This is the end of a yearlong adventure for the students, who have been raising the trout from eggs as part of the TIC program. The students released the fish and also learned about aquatic invasive species, fly casting, and instream habitat.

On the release day the students first tested the water temperature and pH in Two Mile and then released the trout. The students then broke into groups to finish the day traveling to stations where the students

learned about aquatic invasive insects species from Penn State Extension, fly casting from Trout Unlimited, instream habitat from Allegheny National Forest, and macro-invertebrate species taught by The McKean County Conservation District.

The project was financed in part by a TIC grant awarded to the District from PA-TU, the Kinzua Fish and Wildlife Association, and Seneca Chapter of TU. Penn State Extension, the PA Fish and Boat Commission, PA Trout Unlimited, Seneca Trout Unlimited, the US Forest Service, and Save-A-Lot in Kane provided additional support for this event.



Nate Welker, from the ANF, leads students on a 'watershed walk' to discuss instream habitat and human influences on watersheds.



Jim McKean, a board member for the District, helps a student with fly casting.

Meade Run Ponds Project

Partner: PA Fish and Boat Commission, PA Game Commission, US Forest Service, Mt. Jewett Sportsmen's Club, and the Boy Scouts of America

USFS Bradford District received funding from the Sinnemahoning Creek Watershed Restoration Grant in 2012 to replace/repair outflow boxes and intake pipes that control water levels at three impoundments known as the Meade Run ponds. While the ponds were lowered for repairs, the grant funds were used to install 21 duck boxes, install fish structures (rock rubble humps, ACQ posts for vertical structure, porcupine cribs), improve/surface access for fisherman, install osprey nesting platforms, install turtle basking platforms, and reshape/reseed the dam breasts.

Prior to 2013 partners installed 21 duck boxes, fish structures through 200 ACQ posts and 180 tons or R4, two osprey nesting poles and a perch pole, 65 porcupine cribs (total for two of the three ponds), repaired/reseeded the dam breasts, installed culverts, and surfaced entry ways to ponds.

On Feb. 2, 2013, the partners constructed and installed 20 porcupine cribs on the third (old refuge) pond.

In May 2013, additional turtle basking platforms were placed, 1,000 shrubs were planted, limestone surfacing was placed on the pond entries, the access road, and an existing parking lot, a new parking lot was constructed on FR 150, and acknowledgement and information signs were installed.

Morrison Run Watershed Restoration Project

Partners: Cornplanter Chapter of Trout Unlimited and Western Pennsylvania Conservancy

Morrison Run is classified as an Exceptional Value stream by the PA Department of Environmental Protection and holds a good population of native brook trout. It is also a major tributary to Brown’s Run and ultimately the Allegheny River, which is a federally designated Wild and Scenic River. The forests and waters of the drainage are recovering from decades of past exploitation from unsustainable timber harvest and industrial development. Today the watershed is prized by the local community for its recreational resources, timber base, and native brook trout fishery.

Oil and gas producers, timber interests, and private land owners in the watershed have been willing and helpful partners in the Morrison Run Watershed Restoration project. The goal of the project is to restore and improve riparian and instream habitat throughout the drainage. Specific objectives include:

- 1) Expanding the range and numbers of the native brook trout populations currently confined to isolated pockets throughout the drainage
- 2) The elimination of all four fish passage barriers from the main stem
- 3) Decommissioning or hardening two fords on the main stem
- 4) Reconstructing portions of FR156 to improve drainage and reduce sedimentation
- 5) Improving and promoting recreational opportunities (e.g., fishing) in the drainage.

Partners in the project include the Cornplanter Chapter of Trout Unlimited, Western Pennsylvania Conservancy (WPC), Warren County Conservation District, PA Fish and Boat Commission, US Forest Service, and four private landowners.

In September 2013, WPC, US Forest Service, and PA Fish and Boat Commission completed a dam removal/stream restoration project 300’ above the historic railroad tunnel. Fourteen root wads, four log vanes, three modified mud sills, and one cross vane were installed to stabilize stream banks and improve fish habitat in the former impoundment.



Morrison Run after removal of the lower dam



Fish habitat improvement structures placed in the area formerly impounded by the lower dam on mainstem Morrison Run

Morrison Run Fish Habitat Improvement Project

Partner: Cornplanter Chapter of Trout Unlimited (CCTU)

This phase of the Morrison Run Watershed Restoration Project began in September, 2009. In five years a total of 14 fish habitat structures have been installed in the headwaters of Morrison Run. Devices constructed include Modified Mud Sills, Bank, Single and Multi Log Vane Deflectors, Log Faced Stone Deflectors, and Toe Log Deflectors. Teamwork among the Cornplanter Chapter Trout Unlimited, Western Pennsylvania Conservancy, PA Fish and Boat Commission, US Forest Service, and various volunteer organizations have made this project very successful. After the completion of work on the first section of stream plans have been made to continue this project for another 1000 feet.

Work takes place each year at the end of September. This hands-on project adds structure and habitat to the stream and builds on what has been completed as we continue to move the Morrison Run Restoration Project forward.



Morrison Run Aquatic Organism Passage Barrier Removal

Partners: Cornplanter Chapter of Trout Unlimited (CCTU) and Western Pennsylvania Conservancy

In 2013, planning and coordination began for the replacement of the Forest Road 156 crossing on Morrison Run. The current crossing, three shotgun-culverts, is slated to be replaced with a bridge in summer 2014 to accommodate aquatic organism passage and high-water events. Partners in this initiative are Western Pennsylvania Conservancy, PA Council Trout Unlimited, Cornplanter Chapter Trout Unlimited, and three private land owners.



Privately owned Forest Road 156 crossing on mainstem Morrison Run at low (left) and high (right) flows

CLARION RIVER WATERSHED PROJECTS



Photo courtesy of US Army Corp of Engineers

East Branch Clarion River Lake near Wilcox, Pennsylvania

Big Mill Creek Watershed Restoration Project

Partners: Elk County Freshwater Association and Elk County Conservation District

The construction phase of the Big Mill Creek Watershed Restoration Project was completed in 2012. Monitoring is ongoing and has demonstrated that the restoration project has had a significantly positive effect on the water quality of the watershed. PFBC plans to survey watershed in the summer 2014 to document the fisheries response to the completed acid precipitation restoration effort.

Clarion River Clean-up

Partners/Sponsors: Elk County Conservation District

The 2013 Clarion River cleanup was held on August 13, 2013. Approximately 20 staff and volunteers removed trash and debris from a four mile stretch on the Clarion River from Ridgway starting at Country Squirrel Outfitters and ending at Cherry Tree Flats. In the 4 miles over 600 pounds of trash and debris were removed. Among the items removed from the river were: passenger vehicle tires, plastic beverage containers, glass beverage containers, aluminum cans, a bicycle, Styrofoam pieces, old rope, rubber hose, toys (including a really creepy doll baby), broken lawn chairs, and other random debris.

Funding for the disposal and recycling of the items was provided by the Elk County Solid Waste and Recycling Department and Country Squirrel Outfitters provided free canoe rental and shuttle service. Another Clarion River Cleanup for 2014 is in the planning stages.

Spring Creek Watershed Restoration Project

Partner: Western Pennsylvania Conservancy and US Forest Service

The Spring Creek watershed in Forest and Elk counties is a major tributary of the Clarion River, a federally designated Wild and Scenic River that forms the southern boundary of the Allegheny National Forest. The forests and waters of the Spring Creek watershed are recovering from decades of unsustainable timber harvest and industrial development. Today the watershed is prized for its recreational resources, its timber base, and its coldwater fishery.

The goal of the project is to restore and improve riparian and instream habitat throughout the drainage by reducing sedimentation, rehabilitating riparian areas, and removing barriers to fish passage. Specific objectives of the project included: reconstructing Forest Roads to improve drainage and reduce



Construction of Modified Mudsills



Root wads placed in Spring Creek

sedimentation; eliminating multiple fish passage barriers associated with inadequate road crossings; hardening and decommissioning dispersed camp sites; hardening existing parking to reduce sedimentation while improving access to the stream; and addressing soil and water impacts associated with approximately 80 miles of user-created horse trails.

Since 2006, partners of the WINS Coalition have completed numerous projects including fish habitat projects, culvert replacement for aquatic organism passage (AOP), correcting runoff and erosion problems related to roads, and correcting horse trails. In October 2012, the US Forest Service (USFS), Western Pennsylvania Conservancy, and PA Fish and Boat Commission (PFBC) completed a second fish habitat improvement project on Spring Creek. The project included the installation of 25 devices, including multi-log vane deflectors, modified mud sills, bank cribs, and root wads to stabilize 550' of eroding stream bank.

In 2012, 38 miles of horse trails were improved or relocated to reduce erosion and sedimentation problems. In addition, over 70 horse trail fords through stream channels were armored with rocks to reduce impacts on water resources. Other improvements included broad based dips and grade brakes to reduce storm water runoff. At the end of the structures, dry wells were constructed to increase infiltration and control runoff. This project was funded by the American Recovery and Reinvestment Act.

In 2013, USFS decommissioned 0.4 miles of snowmobile trail along a tributary to Wolf Run and reconstructed this trail away from this stream to reduce sedimentation.

In 2013-2014, USFS will replace 6 road-stream crossings for AOP using stewardship contracting. This project will also place limestone surfacing at each of these crossings to reduce erosion and runoff.

Iron Furnace Chapter Trout Unlimited Water Quality Monitoring

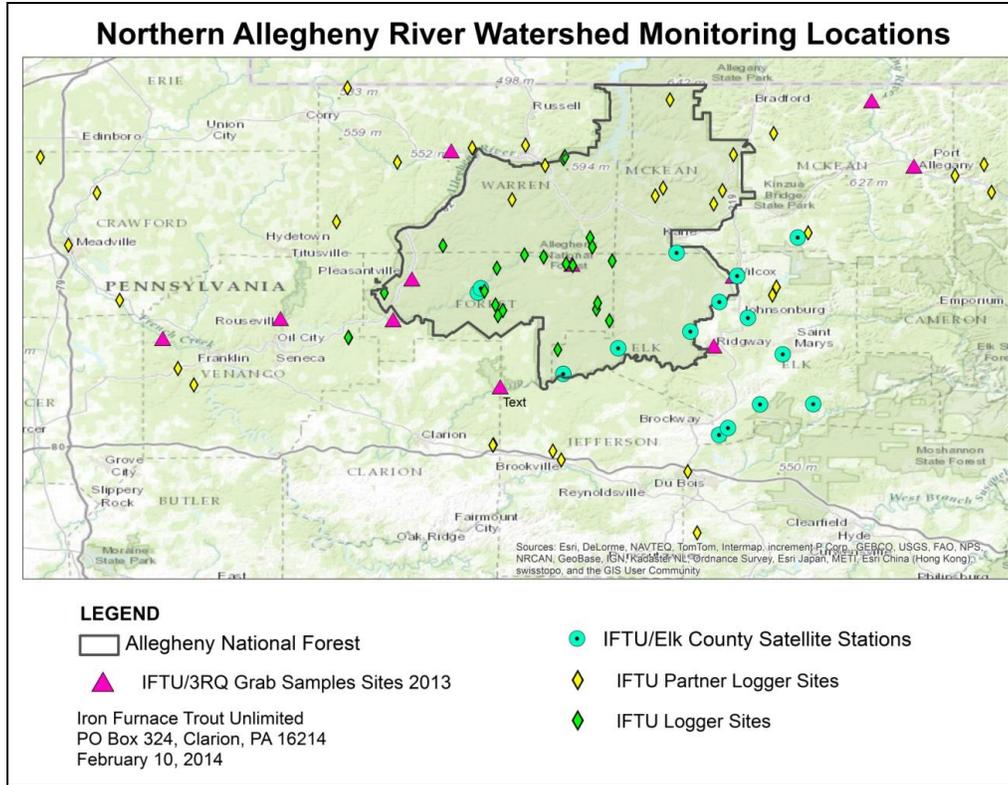
Partner: Iron Furnace Chapter Trout Unlimited

Iron Furnace Chapter Trout Unlimited (IFCTU) received a \$100,000 grant from the University of West Virginia Water Resources Research Institute through the Three Rivers Quest Program (3RQ) to become a research partner with Duquesne University and Wheeling Jesuit University.

IFCTU collected grab samples at eleven locations throughout the Northern Allegheny River (NAR) basin on a bi-weekly schedule during 2013. Analytical results indicated relatively good water quality throughout the basin with higher than expected alkalinity and low acidity. Bromide which is normally associated with deep shale production was only detected three times throughout the sampling. Chloride and sodium were detected at all sites on all sample dates. Sulfate concentrations were highest at collection sites in the Clarion River at Cooksburg and Ridgway indicating AMD occurrence.

Because water quality was interpreted as good within the NAR basin, 3RQ dropped 10 stations from the 2013 program but expanded the area sampled to 24 stations at different locations to be sampled quarterly in 2014. This project was funded at \$50,000.

IFCTU also received a second grant of approximately \$40,000 from 3RQ under their Mini-Grant Program. Using the funds from this grant, IFCTU awarded grants to the Crawford, Elk, McKean, and Warren County Conservation Districts, and National Trout Unlimited to purchase Hobo loggers for stream monitoring purposes. National TU then funded six NAR basin chapters including Allegheny Mountain, God's Country, Caldwell Creek, Cornplanter, Oil Creek, and Jim Zwald. A total of 41 loggers



were purchased in the program. Training and support was provided by IFCTU and National TU staff and the grants will extend into mid-2014.

IFCTU continues to monitor locations in the Northern Allegheny basin with loggers and the existing satellite network established in 2012.

Water Quality Monitoring Network

Partners: Iron Furnace, Cornplanter and Seneca Chapters Trout Unlimited, and Elk, McKean, and Warren County Conservation Districts

The McKean County Conservation District (MCCD) applied for and was awarded a Three Rivers Quest Mini-Grant administered by Iron Furnace Chapter of Trout Unlimited (PA). The Three Rivers Quality Useful Environmental Teams (QUEST) initiative given the acronym “3QR” is a water quality monitoring and reporting program for the Northern Allegheny River Basin.

The 3QR program is split into four geographical regions: Northern Allegheny, Southern Allegheny, Upper Ohio, and Monongahela. In each region a mini grant program was established to help facilitate the routine collection and sharing of water quality data by nonprofit organizations. The purpose of this program is to facilitate a regimented and continuous collection and sharing of water quality data in the Upper Ohio River Basin.



MCCD will be using The HOBO U24 Conductivity Logger in streams throughout McKean County, which is easy to deploy and maintain and features a sensor to minimize errors.

The District has also purchased and deployed eight HOBO data loggers with 3QR funding. Water quality data loggers have been deployed in streams where drilling operations are occurring and/or planned, including headwaters located on the Allegheny National Forest. Drilling activities have the potential to increase water pollution and result in the loss of habitat for fish, plants, and terrestrial species.

Tributaries to the headwaters of the Allegheny River provide critical habitat for many endangered and threatened species of mussels, fish, and amphibians. One particular species of interest is the burbot, *Lota lota*, of which the Allegheny River has the only known inland population in the state. These streams are also tributaries to popular trout fisheries. Baseline data was collected by 15 volunteer stream monitors.

MCCD currently has 16 Solinst data loggers with 10 currently deployed and several being re-calibrated/exchanged for working loggers.

The rapid expansion of Marcellus extraction activities on primarily public lands has prompted WINS Coalition partners to initiate a three-tiered program to help monitor activities and protect important water resources where needed. Our first effort (Tier I) in this initiative is the deployment of TU trained Coldwater Conservation Corps volunteers to monitor local watershed activities in our region. In addition, more intensive water quality monitoring will be conducted in the Allegheny National Forest through the operation of a network of stations in smaller sub-watersheds using data loggers (Tier II) and in larger basins using permanent multi-parameter real-time stations (Tier III) in areas targeted for Marcellus development. The monitoring approach is based on the successful network currently in use in the Susquehanna River watershed by the Susquehanna River Basin Commission.



Stake and data loggers



Real-time monitoring station

In support of these efforts the Colcom Foundation *Marcellus Environmental Fund* awarded grants to IFCTU (\$150,000) and Elk County Conservation District (\$146,000). Stackpole Hall Foundation also provided grants to ECCD (\$65,000) and MCCD (\$23,600) to continue monitoring water quality in at-risk watersheds. IFCTU installed five real-time monitoring stations and upwards of 10 data loggers in sub-basins in the Clarion River and Tionesta Creek drainages covering the eastern half of Forest County. The real-time results of this monitoring can be viewed at ironfurnacetu.net. ECCD set up 11 real-time monitoring stations in municipal drinking water watersheds, including Big Mill Creek on the ANF, and 12 data loggers throughout Elk County. McKean County Conservation District also deployed 8 data loggers throughout McKean County.

TIONESTA CREEK WATERSHED PROJECTS



Photo courtesy of US Army Corp of Engineers

Tionesta Dam near Tionesta, PA

Kellettville Campground Environmental Education Pavilion

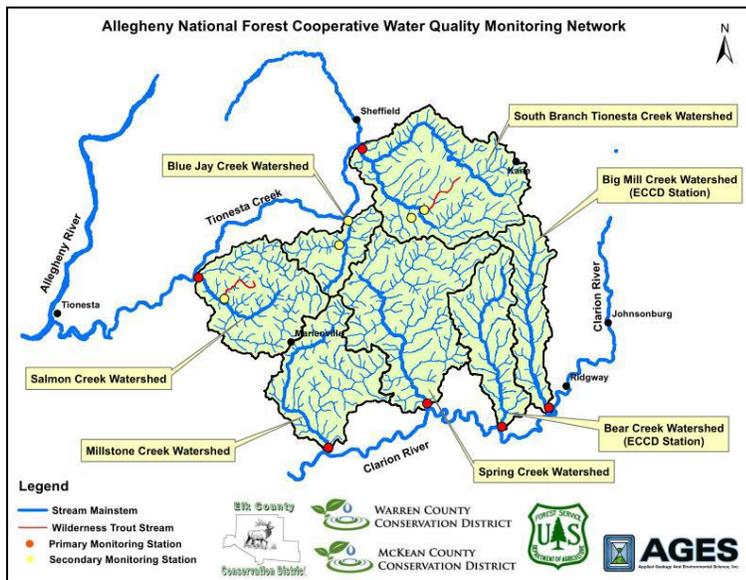
Partner: US Army Corps of Engineers and Iron Furnace Chapter Trout Unlimited (IFCTU)

US Army Corps of Engineers - Tionesta Lake (USACE) has been searching over the last few years for a great project to put forth a Handshake Application, and we found it!

Kellettville Campground is located in the southern portion of Allegheny National Forest and is a true gem when it comes to quiet camping and recreational opportunities. It is also a great place to meet with friends and family and enjoy local fishing, hiking, canoeing, hunting, and other recreational adventures. The campground could provide additional opportunities. Specifically, USACE and IFCTU are working to enhance the campground through the addition of a 24' x 36' multi-purpose pavilion. The pavilion will benefit campers and other visitors, and provide an area for the safe delivery of environmental education and conservation programs to local schools and visitor groups.

The campground currently has the needed infrastructure to support the delivery of environmental education programs with ample parking for vans or buses, restrooms, secure grounds, and three local streams, Tionesta Creek, Salmon Creek, and Blue Jay, that converge on USACE property.

Our vision is to make the proposed pavilion a central feature of the campground and have it function as a student/community environmental education center. The Forest County School District received a 2012 Science, Technology, Engineering, and Math (STEM) Grant to develop and deliver locally based environmental education programs built around real time satellite stations and data loggers that are currently monitoring water quality at the Kellettville Campground.



Forest School District administrators and teachers are working with IFCTU (Iron Furnace Chapter of Trout Unlimited) to expand the use of existing data in classrooms and to bring students to the Kellettville Campground for hands-on environmental education classes built around activities in watershed science/stream ecology that meet or exceed PA science curriculum standards.

STEM funding will allow students to learn how water quality relates to land use, watershed processes, and freshwater biological communities.

The monitoring station located on Salmon Creek at the Kellettville Campground that is operated by the IFCTU sends water quality data to the internet every 4 hours. The data is available to the schools and public and can be viewed on the IFCTU web page at: www.ironfurnacetu.net.

Currently there are no shelter facilities at the campground or nearby on US Forest Service land. Although the primary purpose for the proposed pavilion is educating students, this structure will also be enjoyed by a wide variety of visitors and community members

Tionesta Lake Cleanup and Adopt-A-Lake

Partner: US Army Corps of Engineers (USACE)

On May 4, 2013, USACE Tionesta Lake staff partnered with Forest County Sheriff's Department, Forest and Warren County Probation Offices, Girl Scout Troop #30715, USFS, to place recycled Christmas trees into Tionesta Lake for fish habitat. Volunteers and employees also collected trash from the Lake's shoreline and camp ground.



Volunteers return with a load of trash during the fourth annual Tionesta Lake Cleanup

In total, 38 volunteer and employees spent four hours working installing 50 trees and collecting nearly 50 bags of litter, used tires, and some very large pieces of metal.

This event was successful thanks to the following team members; Supervisory Natural Resource Management Specialist Rodney Daum, Lake Project Assistant Joella Zaffino, Park Rangers Ricky McKee and Luke Houston (event coordinators), Jason Quinn and Jason Bowers.



Volunteers prepare Christmas trees for placement in the lake.

The day's events were planned in celebration of Earth Day and helped to maintain the majesty of Tionesta Lake for its 680,000 annual visitors.



USACE Tionesta, PFBC, Cub Scout Pack 82, and Forest County Conservation District put vertical plank structures in Tionesta Lake for fish habitat in June 2013.

Ross Run Fish Habitat Enhancement Structures

Partners: PA Fish and Boat Commission, Kellettsville Sportsmen's Club, and US Army Corps of Engineers

In August 2013, Kellettsville Sportsman's Club (KSC) and PA Fish and Boat Commission (PFBC) completed a five year plan that started in 2009. The Ross Run fish habitat improvement project is located in Kingsley Township, Forest County, in the "Children Fishing Area" PFBC special regulation area. The 2013 project was located immediately downstream of last year's project and involved the placement of two log and stone devices within a 300 foot reach of the main stem. Devices were installed to increase overhead cover habitat. A new design was completed and is in the permitting process. The

new design will continue the stream habitat improvement project in the remainder of the “Children Fishing Area” PFBC special regulation area. The new design will approximately take four to five years to complete and will start on August 09, 2014.

Approximately 30 volunteers provided labor services from the following partners: Kellettsville Sportsmen's Club, Trout Unlimited, US Army Corps of Engineers, and a local correctional institute.



Log devices placed in Ross Run to provide pool and overhead cover habitat

ALLEGHENY WINS PROJECT FUNDING

(April 2007 – December 2013)

CLARION RIVER WATERSHED				
Project	Objectives	Sponsor	Grantor	Funding
Big Mill Creek Acid Remediation	construct passive treatment pond systems	Elk County Freshwater Association	PA Dept of Environmental Protection (DEP) - Growing Greener	\$ 414,000
			PA Dept of Conservation and Natural Resources (DCNR)	\$ 250,000
			Stackpole Hall Foundation	\$ 50,000
			DEP - Growing Greener	\$ 393,000
Clarion River Dispersed Recreation	eliminate erosion, sedimentation, and sanitation concerns	Elk County Commissioners	DCNR	\$ 107,700
Spring Creek Watershed Restoration	eliminate aquatic organism passage (AOP) barriers, decommission roads, repair and add limestone to dirt and gravel roads to improve drainage and reduce sedimentation; improve instream and riparian habitat	US Forest Service (USFS)	USFS - K-V Trust Fund	\$ 118,860
			Garden Club Federation	\$ 7,500
			USFS - Stewardship End Results Contracting (SERC)	\$ 110,000
		Western Pennsylvania Conservancy (WPC)	National Forest Foundation (NFF)	\$ 15,000
			WPC	\$ 50,000
		PA Fish & Boat Commission (PFBC)	PFBC - Cooperative Habitat Improvement Funds (CHIP)	\$ 6,000
PA Game Commission (PGC)	WPC	\$ 20,000		
Clarion River Watershed Subtotal				\$ 1,542,060
TIONESTA CREEK WATERSHED				
Project	Objectives	Sponsor	Grantor	Funding
Bobbs Creek	eliminate (3) AOP barriers, reduce erosion and sedimentation	USFS	USFS SERC	\$ 200,000
			National Wild Turkey Federation	\$ 10,000
East Branch Tionesta Creek Aquatic Organism Passage	eliminate (10) AOP barriers on tribs	USFS	NFF	\$ 211,000
			National Fuel Gas	\$ 90,000
Ross Run	Fish Habitat Improvement Project (FHIP)	Kellettville Sportsmen Club (KSC)	KSC	\$ 4,230
		PFBC	PFBC - CHIP	\$ 11,315
Tionesta Creek Env. Ed. Pavilion	construct env. ed. pavilion at USACE Kellettville	Trout Unlimited - Iron Furnace Chapt (IFCTU)	US Army Corps of Engineers (USACE)	\$ 19,000
Tionesta Reservoir Cleanup (2011-2013)	Remove trash & litter from impoundment	USACE	multiple	\$ 1,500
West Branch Tionesta Creek Watershed Restoration	North Country Connector Trail - eliminate AOP barriers, reduce erosion & sedimentation, enhance local rec. opportunities	USFS	USFS - American Recovery and Reinvestment Act	\$ 250,000
		PGC	PGC	\$ 50,000
		DCNR / Penn Soils RC&D	Northwest Greenways	\$ 11,300
	Chapman lake bank stabilization project	DCNR	DCNR	\$ 12,510
			PFBC	\$ 2,000
	FHIP	USFS (Farnsworth)	USFS - watershed funds	\$ 5,914
			PFBC - CHIP	\$ 1,500
			PGC	\$ 1,680
			PFBC - CHIP	\$ 2,138
			DCNR	\$ 1,640
DCNR (Chapman SP)	PFBC - CHIP	\$ 1,076		
Tionesta Creek Watershed Subtotal				\$ 887,453

table continues on following page

UPPER AND MIDDLE ALLEGHENY RIVER WATERSHED				
Project	Objectives	Sponsor	Grantor	Funding
Allegheny Reservoir Cleanup <small>(2005 - 2013)</small>	clean & maintain impoundment	USFS	USFS	\$ 9,000
			multiple	\$ 5,000
Allegheny River Cleanup <small>(2009 - 2013)</small>	Remove trash & litter from 37-mile section of the Allegheny River and two major tributaries, Brokenstraw and Conewango Creeks	USFS	Allegheny Outfitters	\$ 8,000
			Veolia	\$ 8,000
			National Public Lands Day Grants	\$ 3,000
			corporate donations	\$ 9,000
		Conewango Creek Watershed Association (CCWA)	multiple	\$ 4,000
Big Bend Recreation Area	Bird Viewing Platform - construct a bird-viewing platform and a Riverside Watchable Wildlife Trail over looking the Kinzua Dam and Allegheny River to provide an environmental education and recreation opportunity	Allegheny Outdoor Club (AOC)	DCNR - Lumber Heritage Region	\$ 25,000
			Community Foundation of Warren County (CFWC)	\$ 7,500
			Northern Allegheny Conservation Association	\$ 2,000
			Boy Scouts of America (Eagle Scout project)	\$ 1,950
			Warren Co. Council of Sportsman	\$ 1,500
			Allegheny Outdoor Club	\$ 955
			Eastern National Forest Interpretive Association (ENFIA)	\$ 500
			Water Resources Education Network	\$ 280
	corporate donations	\$ 23,880		
	Boat launch - improve boater access and address safety concerns	USACE	USACE	\$ 18,683
				\$ 3,000
Brokenstraw Creek	streambank stabilization	WPC	CFWC	\$ 15,000
			USFS	\$ 7,500
			corporate donations	\$ 12,000
Brook Trout Surveys and Habitat Restoration	unassessed waters brook trout surveys and habitat restoration	WPC	Constellation Energy	\$ 5,000
			Foundation for PA Watersheds	\$ 15,400
	fish and physical surveys of culverts		National Fish & Wildlife Foundation	\$ 49,000
			Wildlife Conservation Society (\$125,000 pending)	-
Conewango Creek	Conewango Creek Water Trail	CCWA	USFS	\$ 15,000
			corporate donations	\$ 6,500
	Environmental education		CCWA	\$ 500
	Capacity Building Grant		Foundation for PA Watersheds	\$ 27,000
Conewango Creek Dam Removal	State Hospital Dam removal	American Rivers (AR)	AR	\$ 65,000
			DEP - Division of Dam Safety	\$ 25,000
	Carter Dam removal (mussel surveys)		Ohio River Basin Fish Habitat Partnership (ORBHP)	\$ 40,000
			AR	\$ 8,500
Dutchman Run	dam removal	American Rivers	American Rivers	\$ 35,000
			Orvis	\$ 10,000
			USFS	\$ 30,000
Riparian Tree Plantings	riparian tree plantings in priority watersheds	WPC	R.K. Mellon Foundation <small>(1/3)</small>	\$ 100,000
			Colcom Foundation <small>(1/10)</small>	\$ 40,000
Watershed Restoration	conservation and restoration	WPC	Colcom Foundation	\$ 100,000

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UPPER AND MIDDLE ALLEGHENY RIVER WATERSHED (continued)				
Project	Objectives	Sponsor	Grantor	Funding
McKean County FHIP Efforts	stabilize 7,618 feet of streambank, create 2 miles of riparian area, plant 900 trees	McKean County Conservation District (MCCD)	DEP - Growing Greener II	\$ 150,000
			DEP - Stream Improvement Prog.	\$ 117,020
			PFBC - Sinnemahoning Watershed Grant (SWG)	\$ 255,000
			Casella	\$ 52,300
			PFBC - SWG (\$200,000 pending)	\$ -
			Midwest Fish Habitat Partnership (\$130,00 pending)	\$ -
McKean County Agricultural BMPs	agricultural BMPs and streambank stabilization	MCCD	DEP - Growing Greener (tributaries to the Allegheny River)	\$ 262,352
				\$ 298,948
				\$ 280,155
		WPC	PA Dept. of Community & Economic Development	\$ 164,000
	US NRCS - Conservation Innovation Grant	\$ 58,500		
Meade Run Ponds Project	replace/repair outflow boxes and intake pipes, fish and wildlife habitat improvements	USFS / PFBC / PGC	PFBC - SWG	\$ 20,000
			PFBC / PGC	\$ 18,480
			USFS watershed funds	\$ 6,968
Morrison Run Watershed Restoration	decommission heavily eroded ford	CCTU	First Energy	\$ 1,000
			PA General Energy	\$ 1,000
			CCTU	\$ 800
	fish habitat improvement	CCTU	PFBC - CHIP (2009 - 2013)	\$ 3,200
			USFS	\$ 2,500
	Streambank stabilization (BPRR truss site)	USFS	Gas & Oil Management	\$ 500
			PGC	\$ 25,000
	Lower dam removal, bridge replacement, and streambank stabilization	CCTU	USFWS	\$ 16,000
			CCTU	\$ 1,200
			USFS Secure Rural Schools Act - Title 2	\$ 30,000
aquatic organism passage restoration (FR156 crossing)	WPC	Coldwater Heritage Partnership (CHP)	\$ 10,000	
		CCTU	\$ 900	
Rain Barrel Workshop	environmental education	Warren County Conservation District	DEP - Environmental Education	\$ 1,019
Sugar Run AOP Project	Shinglemill Creek (FR271) crossing replacement	USFS	USFS SERC	\$ 30,000
			EBTJV	\$ 80,000
	Sugar Run (FR182) crossing & road decom.		USFS SERC	\$ 15,000
South Branch Kinzua Creek	Phase I - construct acid precipitation PTS, reduce sedimentation, and replace undersized culverts	PFBC	PA Fish and Boat Commission	\$ 120,000
			EBTJV	\$ 25,000
	Phase II	USFS	Road maintenance funds	\$ 104,482
			Capital improvement and road maintenance funds	\$ 60,000
Willow Bay	Fish habitat improvement and wetland restoration	WPC	USFS KV and watershed funds	\$ 44,650
Upper and Middle Allegheny River Watershed Subtotal				\$ 2,996,122

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MONITORING AND ASSESSMENT				
Project	Objectives	Sponsor	Grantor	Funding
Brokenstraw Creek Conservation Plan	establish baseline dataset, document threats, develop recommendations	WPC	CHP	\$ 5,000
Browns Run Conservation Plan				\$ 5,000
Clarion River Mussel Surveys	ascertain the status of the freshwater mussel populations in the Clarion Wild & Scenic River	USFS	USFS	\$ 20,000
			WPC	\$ 10,000
			Elk County Conservation District (ECCD)	\$ 500
Hellbender Surveys	ascertain the status of the hellbenders in western PA; habitat restoration	WPC	DCNR - Wildlife Resource Cons. Grant	\$ 36,271
			Colcom Foundation	\$ 17,500
			National Fish & Wildlife Conservation Agencies - Regional Conservation Needs Grant	\$ 15,800
			DCNR - Wildlife Resource Cons. Grant	\$ 35,006
"Rainmaker" Sediment Production Study	quantified sediment production roads impacted by the shallow oil and gas production on the ANF	USFS	US Dept. of Energy - National Energy Technology Laboratory	\$ 75,000
			USFS, Northern Area Research Station	\$ 5,000
			USFS, ANF	\$ 12,000
Shale Gas-Related Monitoring	monitoring of focus areas across PA shale gas region	WPC	Richard King Mellon Foundation (1/4 on ANF)	\$ 170,000
Tathers Run Watershed Assessment	establish baseline dataset, document threats, develop recommendations	TUIFC	Coldwater Heritage Partnership	\$ 6,900
Water Quality Monitoring and Stream Assessments	monitoring water quality and flow and assessing streams before, during, and after Marcellus Shale gas drilling operations	ECCD	Stackpole Hall Foundation	\$ 65,000
			Colcom Foundation	\$ 146,000
		MCCD	Colcom Foundation	\$ 23,600
			SM Energy	\$ 6,151
			DEP Environmental Education Grant	\$ 7,500
		IFCTU	DEP - (604B) "stimulus money"	\$ 25,955
			Colcom Foundation	\$ 150,000
			WV Water Resources Research Institute - 3 Rivers Quest Grant	\$ 100,000
Monitoring and Assessment Subtotal				\$ 977,883
TOTAL EXTERNAL FUNDING*				\$ 6,403,518

* NOTE – TOTAL EXTERNAL FUNDING is significantly higher than the \$4,787,857 reported in 2012. This increase reflects a combination of \$523,306 in 'new' funding obtained by WINS partners in 2013, and \$1,092,355 in funding obtained between 2007 and 2012, but previously unreported.

2013 VOLUNTEER CONTRIBUTIONS

Project	Objectives	Partners	Volunteers	Hours
CLARION RIVER WATERSHED PROJECTS				
Clarion Wild & Scenic River Cleanup (1st Annual)	collect trash from 4 miles of Clarion River	ECCD	18	144
TIONESTA CREEK WATERSHED PROJECTS				
Ross Run	Fish habitat improvement	Kellettville Sportsmen's Club, PFBC, and USACE	30	180
Tionesta Lake Cleanup (4th Annual)	Collect trash from 12.6 miles of reservoir shoreline	USACE, USFS, and others	40	320
Tionesta Reservoir FHIP	Collect trash from 12.6 miles of reservoir shoreline	USACE, USFS, and others	25	150
UPPER & MIDDLE ALLEGHENY RIVER WATERSHED PROJECTS				
Allegheny Reservoir Cleanup (9th Annual)	Collect trash from 38 miles of reservoir shoreline	USFS, USACE, PFBC, and 9 other organizations	86	688
Allegheny Reservoir FHIP	Construct and install pine tree and porcupine crib structures	KFWA, USFS, USACE, and PFBC	132	330
Allegheny River Cleanup (5th Annual)	Collect trash from 31 miles of the river and two major tributaries	CCWA, USACE, USFS, WCAPP, and 68 other organizations	297	2,376
Anders Run Trail Reroute	Trail reroute and reconstruction	USFS, DCNR, and Student Conservation Corps	14	112
Brook Trout Refuge Areas	Maintain boundary wires and signage	KFWA and PFBC	16	128
Morrison Run Watershed Restoration	Fish habitat improvement	CCTU, PFBC, and USFS	12	60
PA Cleanways (McKean County)	Litter pickup along McKean Co. streams	MCCD	42	193
MONITORING AND ASSESSMENT				
Water Quality Monitoring and Stream Assessments	monitoring water quality and flow and assessing streams before, during, and after Marcellus	ECCD	20	160
		MCCD	240	480
		TUIFC	102	306
		WPC	15	120
Hellbender Surveys	ascertain the status of the hellbenders in western PA	WPC	55	252
2013 VOLUNTEERS & HOURS DONATED*			1,144	5,999

* NOTE – Since 2008, WINS Coalition partners have recorded 28,968 hours donated by 4,251 volunteers in support of a wide range of watershed restoration efforts. Without all of those wonderful volunteers and their gracious donations of time and energy, WINS could not succeed.

Allegheny WINS Coalition Partners

Partnerships and volunteers have made the WINS coalition the success that it is. Credit is due to various individuals from the organizations and government agencies listed below.

Non-profits

Allegheny Outdoor Club
 American Rivers
 Boy Scouts of America
 Conewango Creek Watershed Association
 Elk County Freshwater Association
 Friends of Allegheny Wilderness
 Kellettsville Sportsmen’s Association
 Kinzua Fish & Wildlife Association
 National Wild Turkey Federation
 Penn Soil Resource Conservation & Development Council
 Pennsylvania Council of Trout Unlimited
 Pennsylvania Council of Trout Unlimited – Cornplanter Chapter
 Pennsylvania Council of Trout Unlimited – Iron Furnace Chapter
 Western Pennsylvania Conservancy

Acronyms

AOC
 AR
 BSA
 CCWA
 ECFA
 FAW
 KSA
 KFWA
 NWTF
 PSRCD
 PATU
 CCTU
 IFTU
 WPC

County Agencies

Elk County Conservation District
 Forest County Conservation District
 McKean County Conservation District
 Warren County Adult Probation & Parole
 Warren County Conservation District
 Warren County Planning & Zoning Commission

ECCD
 ECCD
 MCCD
 WCAPP
 WCCD
 WCPZC

State Agencies

Pennsylvania DCNR – Bureau of State Parks
 Pennsylvania DCNR – Bureau of Forestry
 Pennsylvania DEP – Northwest Regional Office
 Pennsylvania DOT – Engineering District 2-0
 Pennsylvania Fish & Boat Commission – Division of Habitat Management
 Pennsylvania Game Commission – Bureau of Wildlife Habitat Management

DCNR BSP
 DCNR BOF
 DEP
 PA DOT
 PFBC
 PGC

Federal Agencies

US Army Corps of Engineers – Kinzua Dam and Tionesta Dam
 US Forest Service – Allegheny National Forest
 US Forest Service – Northern Research Station
 US Fish & Wildlife Service – Great Lakes Field Office

USACE
 USFS ANF
 USFS NRS
 USFWS

Tribal Nations

Seneca Nation of Indians – Fish & Wildlife Department

SNI