

Marsh Creek Watershed Improvement Project

Grant Number: 4100081323

Tioga County Conservation District

PROJECT DESCRIPTION

Marsh Creek is a watershed of concern for local residents due to multiple sources of pollution and its impact on Pine Creek. Stream degradation and urban/agricultural runoff are sources of non-point pollution that increase the amount of sediment and nutrients entering the stream. The projects implemented on Marsh Creek address some of those non-point source pollution. TCCD and partners, utilized \$60,389 of Growing Greener funds to stabilize 1,355 ft of streambank and plant 20.8 acres of riparian forest within the Marsh Creek watershed.

PROJECT GOALS

TCCD goals for this project were to address various areas of concern within the Marsh Creek watershed. Streambanks were stabilized using PA Fish and Boat approved fish habitat devices. These devices armor the streambank, redirect the flow, and provide overhead cover for fish. By stabilizing these streambanks, TCCD was able to protect township roads and homeowner's land from eroding away. The goal at the start of the project was to reduce the amount of sediment entering the stream by 40,000 lbs/yr.

Planting a riparian buffer provides many benefits for the stream. Roots from the tree provide streambank stabilization by grabbing ahold of the soil. When the trees are grown, the canopy will provide shade for the stream. This shade will help control the temperature of the stream, providing colder water for Cold Water Fisheries below Marsh Creek. The riparian forest will also filter run-off from urban and agricultural sources. Trees were planted in areas with high volumes of foot traffic to promote the benefits of riparian buffers.

PROJECT RESULTS

By implementing 1,355 ft of streambank stabilization and 20.8 acres of riparian forest planting, TCCD was able to significantly reduce the amount of sediment entering the Marsh Creek Watershed. The implementation of these BMP's reduced annually 74,000 lbs. of sediment, 48.5 lbs. of nitrogen, and 3,910 lbs. of phosphorus from entering the stream.

PICTURES

See attached sheet

PROJECT COSTS

\$60,389 Growing Greener Grant

PARTNERS

Tioga County Conservation District, Department of Natural Resources, Pennsylvania Fish and Boat, Shippen Township, Trout Unlimited, and Tiadaghton Chapter of Trout Unlimited

CONTACT INFO

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