

## **Montour County Stream Restoration Through Plan Implementation Grant # C990000644 project Summary**

The Montour County Stream Restoration Through Plan Implementation Grant focused on reducing nutrient and sediment runoff from a large beef operation in the Chillisquaque Creek Watershed and one located in the Mahoning Creek Watershed. Both of these watersheds are impaired due to agriculture. Another goal of this grant was to lessen the volume of stormwater and sediment runoff for 3 landowners within the Chillisquaque Creek Watershed. The ag projects were required as part of the operations manure management plans. These projects were all goals of the Montour County Watershed Implementation Plan.

The Woodruff Farm is a 25 head cow calf operation located in the Mahoning Creek watershed. There is approximately 765 ton of manure generated on the farm accounting for 8415 pounds of Nitrogen and 5355 pounds of phosphorus. There was a large bare area where the animals were fed and barnyard project was 6,700 square feet and completed to stabilize the area and eliminate nutrient runoff.

The Biddle Beef operation is a 80 head cow/calf pairs located in the Chillisquaque Creek Watershed. that generate approximately 2400 tons of manure annually accounting for 26,400 pounds of nitrogen and 16,800 pounds of phosphorus. Assuming half of this manure is distributed on pasture that is 13,200 pounds of Nitrogen and 8,200 pounds of phosphorus that can run off into the stream.

There was 7 acres of wetlands created which reduced stormwater and sediment from entering the stream. 3 Acres of wetland was created on the Heintzelman property and 3 acres on the Pentz farm both located in the Chillisquaque Creek Watershed. There was also a 1 acre wetland created on the Foreman Farm located on the Limestone Run. Not only do wetlands reduce stormwater runoff to the stream but they filter pollutants and create diverse wildlife habitat.

The projects funded through this grant were vital in the watershed implementation plan developed to reduce nutrient and sediment from entering the local streams ultimately ending up in the Chesapeake Bay Watershed. The farmers and other landowners continue to show their dedication of restoring local streams and preventing pollution from entering the Chesapeake Bay.