project


Why? Install, monitor and share knowledge about agricultural best management practices to reduce sediment and nutrient loss.

Where? Putnam County, OH in the Auglaize, Blanchard and Ottawa River watersheds.

Impact? This project contributed to the 40% phosphorus reduction goal and provided research and outreach to support the efficacy of these BMPs.

More Info: An adaptive data-driven BMP handbook is available @: agbmpps.osu.edu or your local SWCD.

partners

Working together to protect our lands & waters for the future

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Sediment & Nutrient Reduction

**BMPs**
Best Management Practices

**In Tile Drained Farmland**

This project included implementation & monitoring of the following practices:

**FOCUS: Surface Water Drainage**
Solution: Surface Ditches planted to grass
Bare soil is vulnerable to erosion and should be vegetated whenever possible to prevent soil loss and sediment pollution. Planting grass to surface field ditches will remove nutrients by creating a biological filter.

**FOCUS: Drainage Ditches**
Solution: Two-stage Ditches
Drainage ditches serve as outlets for the subsurface tile system and function to quickly remove water from a flat landscape. Two-stage ditches improve on traditional ditches by creating “benches” to filter tile water while still providing drainage capacity.

**FOCUS: In-Field & Edge-of-Field Filters**
Solution: Blind Inlets & Phosphorus Filter - Woodchip Bioreactor Systems
In-field and edge-of-field treatment practices can be installed to remove nutrients, especially dissolved reactive phosphorus and nitrates, before they discharge into ditches and streams. Blind inlets occur at low spots in the field. Bioreactors and phosphorus filters are located at a tile outlet.

**FOCUS: Subsurface Tile Drainage**
Solution: Drainage Control Structures & Tile Blowout Repairs
Drainage tile management and repair is key in the balance of productive farms and a healthy watershed. Drainage control structures allow the farmer to manage water leaving the tile and store water for future use. Repairs to tile blowouts reduce the ability of soil to enter the tile system.

Concerned about keeping soil and nutrients in your fields?

Visit agbmps.osu.edu and contact your local SWCD to learn what you can do about it on your farm.