



Saturated Buffer
 Drain Tile
 Water Control Structure
 Observation Well

**Research Site Leader:
 Dan Jaynes, USDA-ARS**



SITE CHARACTERISTICS

- Saturated Buffer installed in 2009
- Soil: Coland silty clay loam in riparian zone, loam and clay loam in upland field
- Intercepts tile flow from Corn-Soybean rotation (36 acres)

WATER MANAGEMENT PRACTICES

- Saturated Buffer (depth 4'; length 1,000')

SITE MEASUREMENTS (2011-2015; n= # of years)

- Tile Flow (n = 5)
- Tile Water Quality: Nitrate-N, Reactive P, Total P (n = 5)
- Water Table Depth (n = 5)
- Soil Texture (n = 1)
- Soil Bulk Density (n = 1)
- Hydraulic Conductivity (n = 1)
- Soil Moisture and Temperature (n = 1)
- Soil Fertility: Soil Organic Carbon, Total N (n = 5)
- On-Site Weather Station: Precipitation (n = 5)