



**Clean Michigan Initiative
Nonpoint Source Grant**

Tracking code 2000-0213

Sanilac Conservation District

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Cass River and Saginaw Bay Watershed

Livestock Exclusion Project

August 1, 2001 through August 31, 2004

The Cass River Watershed drains into the Saginaw Bay of Lake Huron. The Cass River Watershed includes the west 1/2 of Sanilac County, all of the Tuscola County, the northern part of Lapeer County and the southwest tip of Huron County in the State of Michigan. The Saginaw Bay Watershed includes portions of Arenac, Bay Saginaw and Iosco Counties with watersheds contributing to the Saginaw Bay. A MDEQ-SWQD survey identified animal access sites within the watersheds contributing sediment and nutrient loading to the Bay. The goal of the project was to reduce the nutrient loading to the Cass River and Saginaw Bay caused by livestock access to drains of the watershed



Grant Amount: \$462,900

Match Funds: \$324,900

Total Amount: \$787,800

Best Management Practices for Cass River Watershed & Saginaw Bay:

- Number of Cooperators - 21
- Cattle Exclusion Fence - 67,051 feet
- Cattle Crossing Sites- 16 Constructed Sites
- Repaired Crossing Sites - 3 Tube Structures (back filled eroded areas & armored with stone)
- Repaired Side Inlet Structures - 6 Structures repaired or replaced
- Alternate Watering Sites -
 - 5 - Ponds with controlled access
 - 10 - Heated fountains with cement pads
- Drilled Wells - 3 Wells with pumping systems, pump house, electrical service & related Equipment
- Seasonal Watering Sites - 14 Remote watering tanks, pipe & valves
- Filter Strips - 74 Acres
- Windbreak - 200 feet

Annual Load Reductions:

- Sediment Saved - 11,367 Tons
- Phosphorus Saved - 22,212 Lbs
- Nitrogen Saved - 68,471 Lbs

Cass River & Saginaw Bay Livestock Exclusion Program



Partners involved:

- Sanilac Conservation District developed and administered the project.
- Saginaw Bay RC&D was contracted to implement the Saginaw Bay Watershed component of the project
- USDA-NRCS was used as a technical reference
- MDEQ-SWQD provided direction and approved all landowner conservation plans for cost-share.
- County Drain Commissions were a source of technical information and knowledge of areas with livestock access. They were a resource for drain improvements and material.