



**Clean Michigan Initiative  
Nonpoint Source Grant**  
Tracking code: #2002-0018



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## Cedar River Implementation Project

June 25, 2004, through June 30, 2008

The Cedar River is part of the Lake Huron-Erie drainage area and is a tributary to the Tobacco, Tittabawassee, and Saginaw Rivers. Branches of the Cedar River originate in the southern portion of Roscommon County, eastern Clare County and the northwestern portion of Gladwin County. The watershed drains a surface area of approximately 120,000 acres.

The goal of this project was to restore the environmental integrity and the State's designated uses of cold-water fishery by reducing the amount of sediment and nutrients that enter into the Cedar River. Identified sources include stream bank erosion sites, road stream crossings and agriculture pollution. Water quality was improved by implementing Best Management Practices (BMPs), which better protect the resources of the river.



<b>Grant Amount:</b>	<b>\$ 127,162</b>
<b>Match Funds:</b>	<b>\$ 96,330</b>

<b>Total Amount:</b>	<b>\$ 223,492</b>
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**Best Management Practices:**

- Exclusionary fencing
- Lunker structures
- Tree and shrub plantings
- Diversion outlets
- Grade stabilization structure
- Rock riprap placement
- Erosion blankets
- Tree revetments
- Critical area seeding

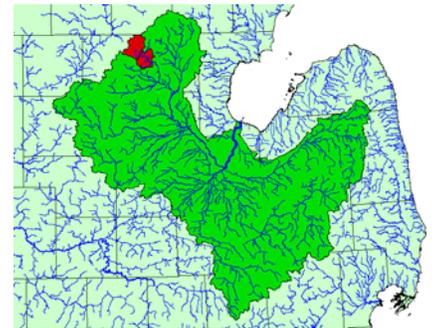


**Annual Load Reductions:**

- 1,714 tons of sediment
- 1,462 pounds of phosphorus
- 2,923 pounds of nitrogen

**I&E Activities:**

- Held Conservation Tours
- Published articles in local newspapers and Conservation District newsletters
- PowerPoint presentations at Gladwin Conservation District and Trout Unlimited Annual Meetings



**Partners involved:**

- Leon T. Martuch Chapter of Trout Unlimited
- Paul H. Young Chapter of Trout Unlimited
- USDA NRCS Gladwin Office
- USDA FSA Gladwin Office
- Gladwin County Road Commission
- Earth Team Volunteers
- Landowners
- Michigan Departments of Environmental Quality
- Michigan Department of Natural Resources
- Saginaw Bay RC&D Area Inc



**Site # 25 Before:** Livestock were allowed access to the river, and rain events eventually caused a major gully washout.



**After:** Installation of grade stabilization structure, grassed waterway, rock chute and exclusionary fencing.



**Track # 10726 Before:** Stream bank erosion caused sediment to enter into river.



**After:** Installation of lunkers, rock riprap, tree revetments and plantings.



This unpaved road stream crossing was a major site for sediment entering into the river.



**After:** Paving and stabilization improved the resource and aquatic habitat in the river.