An NRCS* Special Emphasis Watershed, one of 24 CEAP watershed projects.

CEAP Assessment
Evaluate effects of management and conservation practices on movement of manure and nutrients from tile-drained farm fields.

Issues: Manure and nutrient loading from large livestock farms polluting waterways.

Watershed Description
• Representative of intensively drained watersheds in the Great Lakes region.
• 91% farmland (Lime Creek); 75% farmland (Bean Creek)
• A Total Maximum Daily Load (TMDL) has been established for pathogens.

*Natural Resources Conservation
Approach

**Water Sampling:** Pathogens, nutrients

**Watershed Models:** AnnAGNPS (Annualized Agricultural Non-Point Source)

**Field Trials:** Various manure management and drainage practice combinations will be compared to determine best ways to reduce movement of manure via underground drainage tiles.

**Communicating Results**

Three annual progress reports planned, covering effects of conservation practices on manure contamination of drain outflow in small and large area studies. A risk assessment tool will be developed.

Collaborators

- USDA Natural Resources Conservation Service, Ohio
- USDA Natural Resources Conservation Service, Michigan
- U.S. Geological Survey
- Lenawee Conservation District
- Michigan Department of Environmental Quality
- Michigan Agriculture Environmental Assurance Program

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