

## **FROM THE NPS PROGRAM GRANTS DATABASE**

### **Christiana Creek 319 Implementation Project DEQ #1991-0002**

#### Project Description

This three-year implementation project targets problems of nutrients, sediment, and bacteria attributed to sources of agricultural runoff and erosion in the Christiana Creek watershed located in southwestern-lower Michigan (Cass county).

#### Project Goals

BMPs to be employed consist of conservation tillage, sod waterways, erosion control structures, cover crops, hay seedings, livestock management, filter strips, streambank stabilization, gully erosion control, integrated crop management, and animal waste management. A primary goal is reduce phosphorous in the watershed by fifty percent, decrease ag-chemical usage by fifteen percent, and improve management on 4000 acres.

#### Project Accomplishments

BMPs implemented include: conservation tillage, filter strips, hay seeding, streambank stabilization, livestock management. 725 tons of sediment, 2200 pounds of phosphorous, and 5000 pounds of nitrogen are estimated to have been controlled.