

Deep Red Run Creek Watershed Dam No. 1

Frederick City Lake

Tillman County, Oklahoma



Protecting Our People - Protecting Our Natural Resources

This is one of 2,107 examples of how local, state and federal government agencies have worked together to utilize the Natural Resources Conservation Service Watershed Program to address natural resource needs and improve the quality of life for thousands of Oklahomans.*

Deep Red Run Creek Watershed Dam No. 1

Deep Red Run Creek Watershed Dam No. 1, known as Frederick City Lake, was constructed in 1974 by the City of Frederick and the Tillman County Conservation District with the assistance of the Oklahoma Conservation Commission and the USDA Natural Resources Conservation Service (NRCS) Watershed Protection and Flood Prevention Program.

The dam was built as a multi-purpose structure to provide flood control, municipal and industrial water supply, and recreation. The lake is operated and maintained by the City of Frederick. The dam is located 13 miles northwest of Frederick and the lake has 882 surface acres and 19 miles of shoreline.

Recreational facilities include boat ramps, a boat dock, a fishing dock, RV and tent campsites, picnic areas, outdoor grills, showers, restrooms, a playground, pavilion, volleyball court, hiking, and bicycle and ATV trails. Forty RV sites with water and electric hookups are located at the main campground.

Flooding was a frequent occurrence in the watershed before construction of the two dams. Floods destroyed crops, damaged bridges and county roads and caused soil erosion. The City of Frederick had depended on water wells drilled in 1917 for municipal water, but water levels kept declining and the lack of available water was limiting industrial growth. Water-based recreational areas were limited in the area.

The City of Frederick joined the Tillman County Conservation District to develop a watershed plan in 1970 that included two flood control dams with Dam No. 1 being a multi-purpose structure. The NRCS provided engineering and financial assistance to construct the dams. Sponsors obtained land rights and easements and the City provided funding for additional water storage in Dam No. 1 for municipal water and recreation.

Benefits of the Two Dams in the Deep Red Run Creek Watershed

- Provides \$3.8 million in average annual benefits from reduced flood damages
- Provides flood protection for bridges and county roads
- Provides flood protection for 83 farms and ranches
- Impounded water has created fish and wildlife habitat, waterfowl nesting areas and livestock water
- Dams have created or enhanced 365 acres of wetlands
- Dams reduce sedimentation in streams and rivers by 320,000 tons of soil each year
- The lake formed by Dam No. 1 provides recreational areas utilized by thousands of area citizens annually, in addition to providing municipal and industrial water supplies

The Deep Red Run Creek Watershed Project is one of 129 projects in Oklahoma that have been planned and implemented by local people with assistance from the USDA Natural Resources Conservation Service and the Oklahoma Conservation Commission.

*2,107 flood control dams have been constructed in 61 Oklahoma counties. These watershed projects that also include thousands of conservation practices provide over \$90 million in average annual benefits.

For additional information about watershed projects in the state visit the Oklahoma Conservation Commission website at: <http://conservation.ok.gov> or visit your local conservation district and NRCS office.

