

Cottonwood Creek Watershed Dam No. 54

Rehabilitation Project

Logan County, Oklahoma

Fact Sheet
July 2022

History of the Dam:

The Cottonwood Creek Watershed Dam was constructed in 1973 as a significant hazard dam. The dam was reclassified as a high hazard dam due to development downstream. A breach of the dam could result in loss of lives and property.

The dam is one of 16 flood control dams in the Cottonwood Creek Watershed Project in Logan and Kingfisher Counties. The dam was constructed by the Logan County Conservation District with the assistance of the Natural Resources Conservation Service (NRCS) Watershed Program and the Oklahoma Conservation Commission.



A new concrete inlet tower and concrete conduit was installed during the rehabilitation project.

Why Rehabilitate the Dam?

The dam was designed and constructed as a significant hazard dam, but after being reclassified as a high hazard dam due to homes constructed downstream in the breach zone it no longer met current dam safety standards.

The dam was nearing its 50-year design life and rehabilitation will ensure it remains safe and extend its flood protection for at least another 100 years.

Rehabilitation Details

Rehabilitation included the installation of a new principal spillway conduit and inlet structure, lowering the principal spillway crest elevation 4.3 feet, lowering the auxiliary spillway crest elevation 2.5 feet, and maintaining the existing dam height to safely pass the probable maximum flood.

Funding:

The NRCS provided technical assistance in planning and design and 65 percent of the construction cost. Federal funding is provided through the NRCS Watershed Rehabilitation Program.

The Oklahoma Conservation Commission and Logan County Conservation District provided 35 percent of the cost.

Benefits:

Rehabilitation will extend the life and benefits of the dam for another 100 years and provide flood protection for twenty-six houses and six roads downstream that would be impacted by a breach of the dam (over 100 lives at risk)

Partners:

- Logan County Conservation District
- Oklahoma Conservation Commission
- USDA NRCS

For More Information Contact:

NRCS Assistant State Conservation for Programs
USDA Building
Stillwater, Oklahoma
405-742-1215



This fact sheet was developed in cooperation with the USDA Natural Resources Conservation Service by the National Watershed Coalition. USDA is an equal opportunity provider, employer and lender.

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