

# Flood Control Dams In Garfield County

Oklahoma has 2,107 flood control dams in 61 counties. These dam have been built in the state through conservation districts with financial and technical assistance from the Natural Resources Conservation Service (NRCS), authorized through Public Law 78-534, Flood Control Act of 1944 (Washita River Watershed) and Public Law 83-566 Watershed Protection and Flood Prevention Program.

The primary purpose of flood control dams is to reduce flooding. The secondary benefits of the dams address a myriad of natural resource issues such as soil erosion, water quality, animal waste management, irrigation water management, water supply, wetland development or enhancement, fish and wildlife habitat and recreation.

Watershed projects also include conservation practices such as terraces, waterways, ponds, gully control, and pasture and rangeland plantings.

## Operation and Maintenance of Dams

The annual operation and maintenance of dams is a major responsibility for project sponsors (local units of governments such as conservation districts).

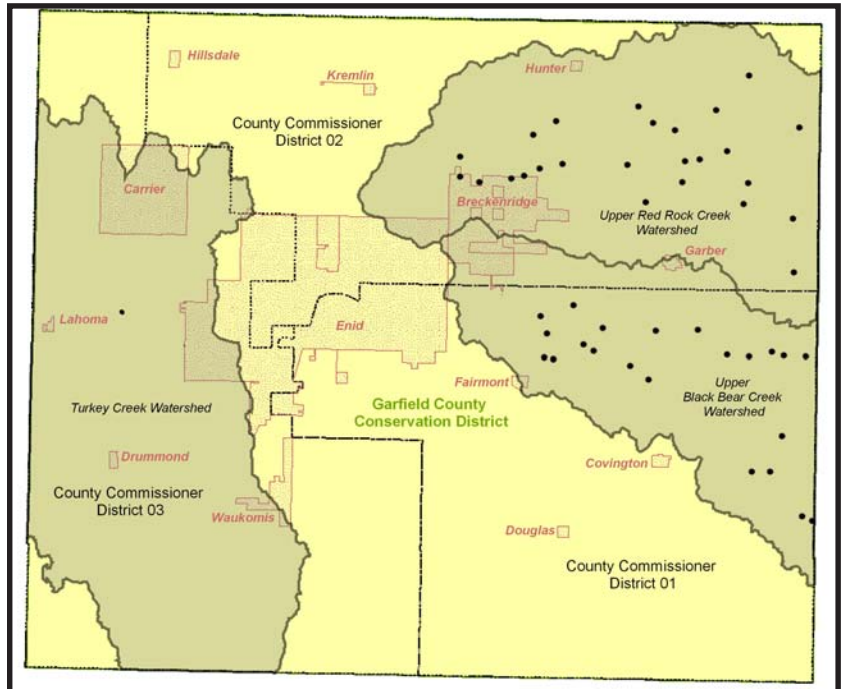
Operation and maintenance of dams can be expensive and labor intensive, but is necessary to ensure dams function as they were designed and remain safe. Maintenance work includes clearing trees from dams and spillways, repairing erosion damage, repairing damage to dams and spillways following heavy rainstorms and keeping inlet towers cleared of debris.

## Operation and Maintenance Needs

\$22 million is needed to meet the operation and maintenance needs of the 2,107 flood control dams in the state for fiscal years 2012-2016.

## Annual Benefits

The 2,107 flood control dams and conservation practices in the watershed projects provide an estimated \$82 million in annual benefits. Listed below are the average annual benefits from watershed projects that are located in Garfield and adjoining counties.



## Rehabilitation and Dam Safety

Some dams will need rehabilitation to remain safe and protect the people that live or work downstream. It is estimated that \$200 million will be required to rehabilitate the existing high hazard dams to comply with federal and state dam safety laws.

More dams will become high hazard as long as residential and business development is allowed below the dam and in the breach flood area.

NRCS assistance is available to project sponsors in rehabilitating flood control dams with 65 percent federal cost-share and technical assistance. Local project sponsors provide 35 percent of the rehabilitation costs.

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Annual Watershed Benefits							
Watershed Name	Dams in Watershed	Dams in Garfield Co.	*Monetary Benefits	Farms / Ranches Benefited	Bridges Benefited	Wetlands Enhanced/Created (acres)	Reduced Sedimentation (tons of soil)
Upper Black Bear Ck.	72	22	\$1,006,173	475	38	1,910	496,767
Upper Red Rock Ck.	43	25	\$524,622	186	17	1,317	217,935
Turkey Creek	2	1	\$98,354	31	4	57	17,864
<b>Total</b>	<b>114</b>	<b>48</b>	<b>\$1,530,795</b>	<b>661</b>	<b>55</b>	<b>3,227</b>	<b>714,702</b>

\*Monetary benefits include reduction in flood damages and may include other benefits such as soil erosion control, recreational areas, irrigation water, municipal and industrial water supply, and wildlife habitat (Price Base 2010). February 2011