

Flood Control Dams in Oklahoma Senate District No. 20

Oklahoma has 2,107 flood control dams in 61 counties. These dams have been constructed through local watershed project sponsors with financial and technical assistance from the USDA Natural Resources Conservation Service (NRCS) authorized through Public Law 78-534 (Washita River Watershed) and Public Law 83-566 Watershed Protection and Flood Prevention Program. One hundred and fifty-two of these dams are in Senate District No. 20.

The primary purpose of flood control dams is to reduce flooding. The secondary benefits of the dams address a myriad of public needs such as water supply, water quality, soil health, water management, wetland enhancement, fish and wildlife habitat, and recreation. Flood control dams improve public safety, contribute to a healthy economy and support a strong nation.

Watershed projects also include the installation of natural resource conservation practices such as terraces, waterways, ponds, gully repair, and pasture and rangeland plantings. These conservation practices improve water quality and soil health and reduce sedimentation into the lakes formed by the dams.

Operation and Maintenance of Dams

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

Operation is the administrative and management activities necessary to ensure the dams function as designed and remain safe. Operation work includes annual dam inspections and inspection immediately following heavy rains.

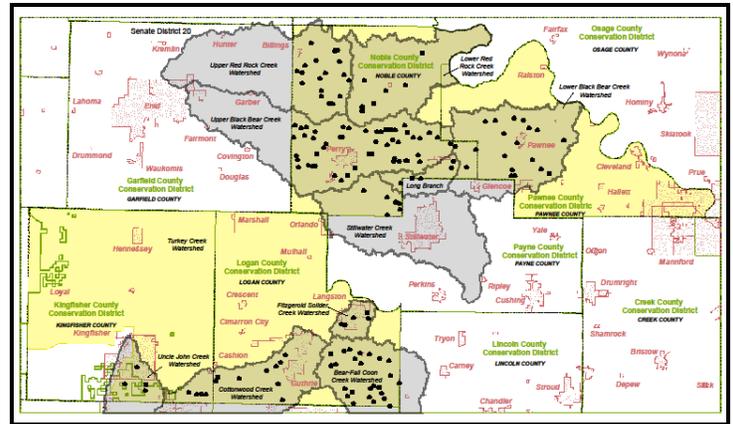
Maintenance work includes removing trees from dams and spillways, repairing erosion damage, repairing damage to the spillway and dams after heavy rainstorms, and keeping the principal spillway inlet towers cleared of debris.

Operation and Maintenance Needs

Operation and maintenance of dams can be expensive and labor intensive. \$4 million is needed to operate and maintain all 2,107 flood control each year. Only through continued investment in operation and maintenance will future generations enjoy the promise of safety these dams offer.

Annual Benefits

The 2,107 flood control dams and conservation practices in watershed projects provide \$91 million in average annual benefits. The table on the back of this page lists the annual benefits provided by watershed projects in Senate District No. 20.



Rehabilitation and Dam Safety

As dams age some will need rehabilitation to remain safe and protect the people that live or work downstream.

At the conclusion of 2016, 260 flood control dams in the state have been classified as high hazard. Of these 115 do not meet current state or federal safety criteria. Approximately \$300 million is needed to upgrade the 115 dams.

Thirteen of the 152 dams in Senate District No. 20 is classified as high hazard and has the potential for loss of life if they should fail.

The number of high hazard dams will continue to increase as long as residential and business development is allowed downstream of the dam in the breach flood area.

NRCS can provide 65 percent of the rehabilitation costs and technical assistance to rehabilitate high hazard dams. Local project sponsors provide 35 percent of the cost and obtain any needed additional land rights.

As of December 2016 thirty-five dams in the state have been rehabilitated and 18 others are in various stages of planning, design or construction.

One dam in Senate District No. 20 has been rehabilitated (Cottonwood Creek Dam No. 15 in Kingfisher County) and two dams are currently scheduled for rehabilitation (Cottonwood Creek Watershed Dam No. 54 in Logan County and Upper Black Bear Creek Watershed Dam No. 62 in Noble County).

Average Annual Watershed Benefits (Entire Watershed)

Watershed Name	Dams in Watershed	Dams in District 20	*Monetary Benefits	Farms/Ranches Benefited	Bridges Benefited	Wetlands Enhanced/Created (acres)	Reduced Sedimentation (tons of soil)
Bear Fall Coon Creek	31	25	\$1,082,958	540	84	673	111,689
Cottonwood Creek	16	13	\$409,095	174	13	484	100,880
Fitzgerald Solider Creek	5	5	\$413,500	63	4	81	13,623
Lower Black Bear Ck.	19	19	\$1,998,662	280	10	374	77,233
Lower Red Rock Creek	7	7	\$100,865	46	2	124	18,308
Long Branch Creek	11	5	\$82,955	73	12	197	31,430
Stillwater Creek	34	6	\$2,362,582	252	20	524	87,655
Upper Black Bear Creek	72	50	\$1,044,664	475	38	1,910	496,767
Uncle John Creek	12	4	\$652,958	164	15	397	90,794
Upper Red Rock Creek	43	18	\$544,692	203	19	1,432	237,052
Total	250	152	\$8,692,931	2,270	217	6,196	1,265,431

*Monetary benefits include reduction in flood damages to crops, roads, bridges, fences, etc. and may include other benefits such as irrigation, municipal and industrial water supply and recreation.

Conservation districts are a primary sponsor of most watershed projects in Oklahoma. Listed below are conservation districts located in Senate District No. 20 that have watershed projects and other conservation agencies that can be contacted for more information about the watershed program.

Kingfisher County Conservation District

1600 South 13th, Kingfisher, OK
kingfisherccd@conservation.ok.gov

Logan County Conservation District

2227 Iron Mound Dr., Suite B, Guthrie, OK
loganccd@conservation.ok.gov

Noble County Conservation District

1302 Hwy 77 N., Perry, OK
nobleccd@conservation.ok.gov

Pawnee County Conservation District

701 5th Street, Room 102, Pawnee, OK
pawneccd@conservation.ok.gov

Payne County Conservation District

2600 South Main Ste. C., Stillwater, OK
payneccd@conservation.ok.gov

The Oklahoma Conservation Commission is the lead state agency for upstream flood control programs and provides assistance and guidance to conservation districts.

The USDA Natural Resources Conservation Service (NRCS) is the federal agency that administers the watershed program and provides technical and financial assistance to the local project sponsors.

Oklahoma Conservation Commission

2800 N. Lincoln Blvd. Suite 160
 Oklahoma City, OK 73105-4210
 (405) 521-2384
 Web Page: <http://www.ok.gov/conservation>
 Twitter: https://twitter.com/conservation_ok
 Facebook: <https://facebook.com/conservationok>

Natural Resources Conservation Service

100 USDA, Suite 206
 Stillwater, OK. 74074-2655
 (405) 742-1204

