

Bivins Dam and Bivins Lake

OWNER

City of Amarillo.

ENGINEER (Design)

Wynkoop Kierstad, Kansas City, Missouri.

LOCATION

On Palo Duro Creek in Randall County, 8 miles northwest of Canyon.

DRAINAGE AREA

982 square miles, of which 920 square miles is probably noncontributing.

DAM

Type	Earthfill
Length	1,600 ft
Maximum height	48 ft
Top width	20 ft
Top elevation	3,639.7 ft above msl

SPILLWAY (emergency)

Type	Earth with rock riprap
Control	None
Crest length	500 ft
Crest elevation	3,634.7 ft above msl

OUTLET WORKS (service)

None. Water recharges 10 wells by infiltration that are used for the city water supply.

OUTLET WORKS (low flow)

Type	Cast iron pipe, 24-inch diameter
Control	Valve operated from bank

STATE AUTHORIZATION

Permit No. 2010 (Application No. 2213), March 15, 1962, authorized the structure which was built in 1926-27. The permit authorizes storage of 5,122 acre-feet of water and annual diversion of 1,000* acre-feet for recharging the underground water supply. (*TWRC Application file states that the 1,000 acre-feet are for municipal purposes)

RESERVOIR DATA (Based on 1946 survey by U.S. Geological Survey)

Capacity	5,120 acre-feet at elevation 3,634.7 ft above msl
Area	379 acres at elevation 3,634.7 ft above msl

GENERAL

Construction started	1926
Deliberate impoundment began	1926
Project completed	1927
General contractor	Luck and Aldridge
Estimated cost of dam	\$117,268

