

El Dorado Lake Reservoir Information Sheet

Location Constructed on the Walnut River, a tributary of the Arkansas River, at river mile 114.7, approximately two miles northeast of El Dorado. Watershed includes portions of Butler and Chase counties.

River Basin Walnut

Watershed

Watershed Drainage Area** 234 mi² **Hydrologic Unit Code** 11030017030
Percent of Watershed in Organized Watershed District* 99% **Elevation of Top of Watershed**** 1395 ft.
Watershed Sediment Yield* 0.94 Acre-ft/mi²/yr

Construction History**

Construction Began October 1, 1973 **Top of Dam Elevation**** 1370 ft.
Multipurpose Pool Filled February 26, 1985 **Gates Closed** June, 1981

**Current
Federally
Authorized
Purposes****

Flood control, fish and wildlife, water quality, water supply, recreation.

**State
Designated
Uses*****

General purposes, expected aquatic life use, domestic water supply, food procurement, irrigation water, primary contact recreation.

Multipurpose Pool - Top Elev. 1339 ft.

Original Survey Year* <u>1981</u>	Most Recent Survey Year* <u>2004</u>
Original Storage Capacity* <u>163,942 acre-ft.</u>	Capacity at Most Recent Survey* <u>158,630 acre-ft</u>
Original Surface Area** <u>8,495 acres</u>	Surface Area at Most Recent Survey* <u>7,911 acres</u>
Design Sedimentation Rate** <u>134 acre-ft./yr</u>	Calculated Sedimentation Rate* <u>219 acre-ft./yr</u>
Design Life for Sediment Storage** <u>100 Years</u>	Estimated Current Capacity* <u>157,097 acre-ft</u>
	Loss of Capacity to Date* <u>4.18%</u>

Multipurpose Pool Breakout

Quality Storage 0.00%
Water Supply Storage _____ = 0.00% Assurance District + _____ Water Marketing + 0.00% Reserve
Other 0.00%

Flood Pool (includes Multipurpose Pool)

Top of Flood Pool 1347.5 ft. **Original Surface Area**** 12,010 acres
Original Storage Capacity* 249,149 acre-ft. **Design Sedimentation Rate**** 174 acre-ft./yr

Lake Level Management Plan

Recent Bathymetric Surveys

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