

Elk City Lake Reservoir Information Sheet

Location Elk River at river mile 8.7, approximately 7 miles east of Elk City in Montgomery County. Watershed includes portions of Butler, Chautauqua, Elk, Greenwood, Montgomery and Wilson counties.

River Basin Verdigris

Watershed

Watershed Drainage Area** 634 mi² **Hydrologic Unit Code** 11070104
Percent of Watershed in Organized Watershed District* 76% **Elevation of Top of Watershed**** 1600 ft.
Watershed Sediment Yield* 0.54 Acre-ft/mi²/yr

Construction History**

Construction Began January 30, 1962 **Top of Dam Elevation**** 849 ft.
Multipurpose Pool Filled June 12, 1967 **Gates Closed** March 17, 1966

**Current
Federally
Authorized
Purposes****

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

**State
Designated
Uses*****

General purpose, primary contact recreation, expected aquatic life use, food procurement, industrial water supply.

Multipurpose Pool - Top Elev. 796 ft.

Original Survey Year*	1966	Most Recent Survey Year*	2010
Original Storage Capacity*	52,556 acre-ft.	Capacity at Most Recent Survey*	37,422 acre-ft.
Original Surface Area**	4,239 acres	Surface Area at Most Recent Survey*	3,515 acres
Design Sedimentation Rate**	acre-ft./yr	Calculated Sedimentation Rate*	340 acre-ft./yr
Design Life for Sediment Storage**	50 Years	Estimated Current Capacity*	37,082 acre-ft.
		Loss of Capacity to Date*	29.44%

Multipurpose Pool Breakout

Quality Storage 14.08%
Water Supply Storage 85.92% = 0.00% Assurance District + 57.45% Water Marketing + 28.47% Reserve
Other 0.00%

Flood Pool (includes Multipurpose Pool)

Top of Flood Pool 825 ft. **Original Surface Area**** 14,231 acres
Original Storage Capacity* 294,531 acre-ft. **Design Sedimentation Rate**** 256 acre-ft./yr

Lake Level Management Plan

Recent Bathymetric Surveys

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