

Tuttle Creek Lake Reservoir Information Sheet

Location On the Big Blue River at river mile 10.0, 5.0 miles north of Manhattan, Kansas. Watershed includes portions of Clay, Marshall, Nemaha, Pottawatomie, Republic, Riley and Washington counties.

River Basin Kansas-Lower Republican

Watershed

Watershed Drainage Area** 9628 mi² **Hydrologic Unit Code** 10270207, 10270205
Percent of Watershed in Organized Watershed District* 24% **Elevation of Top of Watershed**** 2230 ft.
Watershed Sediment Yield* 0.37 Acre-ft/mi²/yr

Construction History**

Construction Began October, 1952 **Top of Dam Elevation**** 1159 ft.
Multipurpose Pool Filled April 29, 1963 **Gates Closed** October, 1963

Current Federally Authorized Purposes**

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

State Designated Uses***

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

Multipurpose Pool - Top Elev. 1075 ft.

Original Survey Year*	1962	Most Recent Survey Year*	2009
Original Storage Capacity*	425,312 acre-ft.	Capacity at Most Recent Survey*	257,014 acre-ft
Original Surface Area**	15,884 acres	Surface Area at Most Recent Survey*	10,900 acres
Design Sedimentation Rate**	4151 acre-ft./yr	Calculated Sedimentation Rate*	3594 acre-ft./yr
Design Life for Sediment Storage**	50 Years	Estimated Current Capacity*	249,830 acre-ft
		Loss of Capacity to Date*	41.26%

Multipurpose Pool Breakout

Quality Storage 59.02%
Water Supply Storage 40.98% = 33.89% Assurance District + 0.00% Water Marketing + 7.09% Reserve
Other 0.00%

Flood Pool (includes Multipurpose Pool)

Top of Flood Pool 1136 ft. **Original Surface Area**** 54,217 acres
Original Storage Capacity* 2,367,017 acre-ft. **Design Sedimentation Rate**** 5014 acre-ft./yr

Lake Level Management Plan

Recent Bathymetric Surveys

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