

## 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 mi<sup>2</sup> **Hydrologic Unit Code** 10270207, 10270205

**Percent of Watershed in Organized Watershed District\*** 24% **Elevation of Top of Watershed\*\*** 2230 ft.

**Watershed Sediment Yield\*** 0.4 Acre-ft/mi<sup>2</sup>/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.

<b>Original Survey Year*</b>	1962	<b>Most Recent Survey Year*</b>	2000
<b>Original Storage Capacity*</b>	425,312 acre-ft.	<b>Capacity at Most Recent Survey*</b>	280,137 acre-ft
<b>Original Surface Area**</b>	15,884 acres	<b>Surface Area at Most Recent Survey*</b>	12,617 acres
<b>Design Sedimentation Rate**</b>	4151 acre-ft./yr	<b>Calculated Sedimentation Rate*</b>	3839 acre-ft./yr
<b>Design Life for Sediment Storage**</b>	50 Years	<b>Estimated Current Capacity*</b>	241,747 acre-ft
		<b>Loss of Capacity to Date*</b>	43.16%

### 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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