

Melvern Lake Reservoir Information Sheet

Location On Marais des Cygnes River at river mile 175.4, about four miles west of Melvern, in Osage County. Watershed includes portions of Coffey, Lyon, Osage and Wabaunsee counties.

River Basin

Watershed

Watershed Drainage Area** **Hydrologic Unit Code**
Percent of Watershed in Organized Watershed District* **Elevation of Top of Watershed****
Watershed Sediment Yield*

Construction History**

Construction Began **Top of Dam Elevation****
Multipurpose Pool Filled **Gates Closed**

**Current
Federally
Authorized
Purposes****

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

**State
Designated
Uses*****

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

Multipurpose Pool - Top Elev. 1036 ft.

Original Survey Year*	<input type="text" value="1972"/>	Most Recent Survey Year*	<input type="text" value="2009"/>
Original Storage Capacity*	<input type="text" value="154,370 acre-ft."/>	Capacity at Most Recent Survey*	<input type="text" value="149,630 acre-ft."/>
Original Surface Area**	<input type="text" value="6,928 acres"/>	Surface Area at Most Recent Survey*	<input type="text" value="6,951 acres"/>
Design Sedimentation Rate**	<input type="text" value="170 acre-ft./yr"/>	Calculated Sedimentation Rate*	<input type="text" value="130 acre-ft./yr"/>
Design Life for Sediment Storage**	<input type="text" value="100 Years"/>	Estimated Current Capacity*	<input type="text" value="149,240 acre-ft."/>
		Loss of Capacity to Date*	<input type="text" value="3.32%"/>

Multipurpose Pool Breakout

Quality Storage
Water Supply Storage = 7.17% Assurance District + 9.90% Water Marketing + 17.41% Reserve
Other

Flood Pool (includes Multipurpose Pool)

Top of Flood Pool **Original Surface Area****
Original Storage Capacity* **Design Sedimentation Rate****

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* Source KWO - ** Source COE - *** Source KDHE

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