

Marion Lake Reservoir Information Sheet

Location Cottonwood River in Marion County; river mile 126.7., Watershed includes portions of McPherson and Marion counties.

River Basin Neosho

Watershed

Watershed Drainage Area** 200 mi² **Hydrologic Unit Code** 11070202010
Percent of Watershed in Organized Watershed District* 0% **Elevation of Top of Watershed**** 1480 ft.
Watershed Sediment Yield* 0.53 Acre-ft/mi²/yr

Construction History**

Construction Began March 24, 1964 **Top of Dam Elevation**** 1368 ft.
Multipurpose Pool Filled May 25, 1969 **Gates Closed** February, 1968

**Current
Federally
Authorized
Purposes****

Flood control, water supply, water quality control, irrigation, fish and wildlife enhancement.

**State
Designated
Uses*****

Expected aquatic life support, primary contact recreation, domestic water supply, food procurement, irrigation water supply.

Multipurpose Pool - Top Elev. 1350.5

Original Survey Year*	1968	Most Recent Survey Year*	2008
Original Storage Capacity*	84,948 acre-ft.	Capacity at Most Recent Survey*	80,659 acre-ft.
Original Surface Area**	6,166 acres	Surface Area at Most Recent Survey*	6,402 acres
Design Sedimentation Rate**	acre-ft./yr	Calculated Sedimentation Rate*	107 acre-ft./yr
Design Life for Sediment Storage**	100 Years	Estimated Current Capacity*	80,339 acre-ft.
		Loss of Capacity to Date*	5.43%

Multipurpose Pool Breakout

Quality Storage 35.88%
Water Supply Storage 64.12% = 0.43% Assurance District + 45.77% Water Marketing + 17.92% Reserve
Other 0.00%

Flood Pool (includes Multipurpose Pool)

Top of Flood Pool 1358.5 ft. **Original Surface Area**** 9,172 acres
Original Storage Capacity* 146,101 acre-ft. **Design Sedimentation Rate**** 94 acre-ft./yr

Lake Level Management Plan

Recent Bathymetric Surveys

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