

## Marion Lake Reservoir Information Sheet

<b>Location</b>	Cottonwood River in Marion County; river mile 126.7., Watershed includes portions of McPherson and Marion counties.
<b>River Basin</b>	Neosho

Watershed	
<b>Watershed Drainage Area**</b>	200 mi <sup>2</sup>
<b>Hydrologic Unit Code</b>	11070202010
<b>Percent of Watershed in Organized Watershed District*</b>	0%
<b>Elevation of Top of Watershed**</b>	1480 ft.
<b>Watershed Sediment Yield*</b>	0.5 Acre-ft/mi <sup>2</sup> /yr

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

<b>Current Federally Authorized Purposes**</b>	Flood control, water supply, water quality control, irrigation, fish and wildlife enhancement.
<b>State Designated Uses***</b>	Expected aquatic life support, primary contact recreation, domestic water supply, food procurement, irrigation water supply.

Multipurpose Pool - Top Elev. 1350.5	
<b>Original Survey Year*</b>	1968
<b>Most Recent Survey Year*</b>	2008
<b>Original Storage Capacity*</b>	84,948 acre-ft.
<b>Capacity at Most Recent Survey*</b>	80,941 acre-ft.
<b>Original Surface Area**</b>	6,166 acres
<b>Surface Area at Most Recent Survey*</b>	6,199 acres
<b>Design Sedimentation Rate**</b>	acre-ft./yr
<b>Calculated Sedimentation Rate*</b>	100 acre-ft./yr
<b>Design Life for Sediment Storage**</b>	100 Years
<b>Estimated Current Capacity*</b>	80,742 acre-ft.
<b>Loss of Capacity to Date*</b>	4.95%

Multipurpose Pool Breakout	
<b>Quality Storage</b>	35.88%
<b>Water Supply Storage</b>	64.12% = 0.43% Assurance District + 45.77% Water Marketing + 17.92% Reserve
<b>Other</b>	0.00%

Flood Pool (includes Multipurpose Pool)	
<b>Top of Flood Pool</b>	1358.5 ft.
<b>Original Surface Area**</b>	9,172 acres
<b>Original Storage Capacity*</b>	146,101 acre-ft.
<b>Design Sedimentation Rate**</b>	94 acre-ft./yr

<b>Lake Level Management Plan</b>	<b>Recent Bathymetric Surveys</b>
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