

## John Redmond Lake Reservoir Information Sheet

<b>Location</b>	Neosho River at river mile 343.7 in Coffey County. See Watershed Drainage Area for detailed watershed information. Watershed includes portions of Butler, Chase, Coffey, Greenwood, Harvey, Lyon, McPherson, Marion, Morris, Osage and Wabaunsee counties.
<b>River Basin</b>	Neosho

Watershed			
<b>Watershed Drainage Area**</b>	3015 mi <sup>2</sup>	<b>Hydrologic Unit Code</b>	11070201, 11070202, 11070203
<b>Percent of Watershed in Organized Watershed District*</b>	45%	<b>Elevation of Top of Watershed**</b>	1500 ft.
<b>Watershed Sediment Yield*</b>	0.25 Acre-ft/mi <sup>2</sup> /yr		

Construction History**			
<b>Construction Began</b>	June 18, 1959	<b>Top of Dam Elevation**</b>	1081 ft.
<b>Multipurpose Pool Filled</b>	November 17, 1964	<b>Gates Closed</b>	September, 1964

<b>Current Federally Authorized Purposes**</b>	Flood control, water supply, recreation, water quality, fish and wildlife.
<b>State Designated Uses***</b>	General purpose, expected aquatic life, primary contact recreation, food procurement, industrial water supply.

Multipurpose Pool - Top Elev. 1039 ft.			
<b>Original Survey Year*</b>	1963	<b>Most Recent Survey Year*</b>	2007
<b>Original Storage Capacity*</b>	82,230 acre-ft.	<b>Capacity at Most Recent Survey*</b>	50,227 acre-ft.
<b>Original Surface Area**</b>	9,823 acres	<b>Surface Area at Most Recent Survey*</b>	8,803 acres
<b>Design Sedimentation Rate**</b>	404 acre-ft./yr	<b>Calculated Sedimentation Rate*</b>	739 acre-ft./yr
<b>Design Life for Sediment Storage**</b>	50 Years	<b>Estimated Current Capacity*</b>	48,010 acre-ft.
		<b>Loss of Capacity to Date*</b>	41.61%

Multipurpose Pool Breakout	
<b>Quality Storage</b>	23.82%
<b>Water Supply Storage</b>	76.18% = 7.12% Assurance District + 55.84% Water Marketing + 13.22% Reserve
<b>Other</b>	0.00%

Flood Pool (includes Multipurpose Pool)	
<b>Top of Flood Pool</b>	1068 ft.
<b>Original Storage Capacity*</b>	650,260 acre-ft.
	<b>Original Surface Area**</b> 31,699 acres
	<b>Design Sedimentation Rate**</b> 1020 acre-ft./yr

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