

**John Redmond Lake
Reservoir Information Sheet**

Location	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.
River Basin	Neosho

Watershed			
Watershed Drainage Area **	3015 mi ²	Hydrologic Unit Code	11070201, 11020202, 11070203
Percent of Watershed in Organized Watershed District*	45%	Elevation of Top of Watershed **	1500 ft.
Watershed Sediment Yield*	0.25 acre-ft/mi ² /yr		

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

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

Multipurpose Pool – Top Elevation 1041 ft.			
Original Survey Year*	1963	Most Recent Survey Year*	2014
Original Storage Capacity*	102,254 acre-ft.	Capacity at Most Recent Survey*	63,235 acre-ft.
Original Surface Area**	10,264 acres	Surface Area at Most Recent Survey*	8,536 acres
Design Sedimentation Rate **	404 acre-ft/yr	Calculated Sedimentation Rate*	765 acre-ft/yr
Design Life for Sediment Storage**	50 Years	Estimated Current Capacity*	62,470 acre-ft
		Loss of Capacity to Date*	38.91%

Multipurpose Pool Breakout	
Quality Storage	23.82%
Water Supply Storage	76.18% = 7.12 % Assurance District + 69.06% Water Marketing + 0.00 % Reserve
Other	0.00%

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

Lake Level Management Plan	Recent Bathymetric Surveys
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