

Big Hill, Pearson-Skubitz Lake Reservoir Fact Sheet

Location	River mile 33.3 on Big Hill Creek in Labette County, about 4.5 miles east of Cherryvale. Watershed includes portions of Neosho and Labette counties.		
River Basin	Verdigris	Top of Dam Elevation**	884 ft.

Construction History**			
Construction Began	April 15, 1974	Gates Closed	March 31, 1981
Multipurpose Pool Filled		May, 1983	

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

Watershed			
Watershed Drainage Area**	36.9 mi ²	Hydrologic Unit Code	11070103010060
Percent of Watershed in Organized Watershed District*	0%	Elevation of Top of Watershed**	1050 ft.
Major Streams	Big Hill Creek, Potato Creek, Wildcat Creek		

Original Sediment Survey Year*	1981	Most Recent Survey Year*	1992
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Multipurpose Pool			
Top of Multipurpose Pool	858 ft.	Multipurpose Pool Surface Area*	1,192 acres
Original Storage Capacity*	27,216 acre-ft.	Capacity at Most Recent Survey*	26,969 acre-ft.
Estimated Current Capacity*	26,650 acre-ft.	Design Sedimentation Rate**	18.3 acre-ft./yr
Actual Sedimentation Rate*	21 acre-ft./yr	Loss of Capacity to Date*	2.08%
Hydraulic Residence Time***	2 years	Average Water Depth***	21.6 ft.
Multipurpose Pool Shoreline Perimeter Length**	20 miles		

Multipurpose and Flood Pool			
Top of Flood Pool	867.5 ft.	Flood Pool Surface Area*	1,475 acres
Original Storage Capacity*	39,750 acre-ft.	Capacity at Most Recent Survey*	39,540 acre-ft.
Estimated Current Capacity*	39,268 acre-ft.	Design Sedimentation Rate**	22 acre-ft./yr
Actual Sedimentation Rate*	18 acre-ft./yr	Loss of Capacity to Date*	1.21%

Impact of Sediment Summary			
Watershed Sediment Yield*	0.49 acre-ft./mi ² /yr	Design Life for Sediment Storage**	100 Years
Years to Fill Sediment Storage Multipurpose Pool From Time of Gate Closure*	86 Years		
Year Sediment Storage is Filled*	2067		

Lake Level Management Plan	Total Maximum Daily Loads
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