

Hillsdale Lake Reservoir Fact Sheet

Location On Big Bull Creek, at river mile 18.2, 2.5 miles west of Hillsdale, KS, and 5 miles northwest of Paola, KS. Watershed includes portions of Douglas, Franklin, Johnson and Miami counties.

River Basin Marais Des Cygnes

Top of Dam Elevation** 952.2 ft

Construction History**

Construction Began April, 1976

Gates Closed September 19, 1981

Multipurpose Pool Filled February 23, 1985

Current Federally Authorized Purposes**

Flood control, navigation, water supply, water quality, recreation, fish and wildlife. Navigation is not currently an operating purpose.

State Designated Uses***

General purpose, special aquatic life use, primary contact recreation, domestic supply, food procurement, industrial supply.

Watershed

Watershed Drainage Area** 144 mi² **Hydrologic Unit Code** 10290102010, 020, 030

Percent of Watershed in Organized Watershed District* 0% **Elevation of Top of Watershed**** 1110 ft.

Major Streams Big Bull Creek, Little Bull Creek

Original Sediment Survey Year* 1969

Most Recent Survey Year* 1993

Multipurpose Pool

Top of Multipurpose Pool 917 ft. **Multipurpose Pool Surface Area*** 4,576 acres

Original Storage Capacity* 76,270 acre-ft. **Capacity at Most Recent Survey*** 74,342 acre-ft.

Estimated Current Capacity* 71,950 acre-ft. **Design Sedimentation Rate**** 83 acre-ft./yr

Actual Sedimentation Rate* 171 acre-ft./yr **Loss of Capacity to Date*** 5.66%

Hydraulic Residence Time*** 1 year **Average Water Depth***** 17 ft.

Multipurpose Pool Shoreline Perimeter Length** 51 miles

Multipurpose and Flood Pool

Top of Flood Pool 931 ft. **Flood Pool Surface Area*** 7,414 acres

Original Storage Capacity* 159,840 acre-ft. **Capacity at Most Recent Survey*** 157,912 acre-ft.

Estimated Current Capacity* 155,520 acre-ft. **Design Sedimentation Rate**** 110 acre-ft./yr

Actual Sedimentation Rate* 171 acre-ft./yr **Loss of Capacity to Date*** 2.70%

Impact of Sediment Summary

Watershed Sediment Yield* 1.19 acre-ft/mi²/yr **Design Life for Sediment Storage**** 100 Years

Years to Fill Sediment Storage Multipurpose Pool From Time of Gate Closure* 49 Years

Year Sediment Storage is Filled* 2030

Lake Level Management Plan

Total Maximum Daily Loads

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