

Pomona Lake Reservoir Fact Sheet

Location On 110 Mile Creek, 8.3 miles above confluence with Marais des Cygnes river; 8.5 miles west and 3 miles north of Pomona in Osage County. Watershed includes portions of Franklin, Lyon, Osage and Wabaunsee counties.

River Basin Marais Des Cygnes

Top of Dam Elevation** 1031 ft.

Construction History**

Construction Began June, 1959

Gates Closed July 19, 1962

Multipurpose Pool Filled June 4, 1965

Current Federally Authorized Purposes**

Flood control, low flow supplementation, water quality, recreation, domestic water supply and fish and wildlife enhancement.

State Designated Uses***

General purposes, expected aquatic life use, primary contact recreation, domestic supply, food procurement, industrial water supply.

Watershed

Watershed Drainage Area** 322 mi² **Hydrologic Unit Code** 10290101030

Percent of Watershed in Organized Watershed District* 10% **Elevation of Top of Watershed**** 1400 ft.

Major Streams 110 Mile, Dragoon, and Valley Brook Creeks

Original Sediment Survey Year* 1964

Most Recent Survey Year* 1989

Multipurpose Pool

Top of Multipurpose Pool 974 ft. **Multipurpose Pool Surface Area*** 3,865 acres

Original Storage Capacity* 70,603 acre-ft. **Capacity at Most Recent Survey*** 64,208 acre-ft.

Estimated Current Capacity* 59,642 acre-ft. **Design Sedimentation Rate**** 294 acre-ft./yr

Actual Sedimentation Rate* 254 acre-ft./yr **Loss of Capacity to Date*** 15.52%

Hydraulic Residence Time*** **Average Water Depth***** 20 ft.

Multipurpose Pool Shoreline Perimeter Length** 52

Multipurpose and Flood Pool

Top of Flood Pool 1003 ft. **Flood Pool Surface Area*** 8,522 acres

Original Storage Capacity* 247,276 acre-ft. **Capacity at Most Recent Survey*** 240,331 acre-ft.

Estimated Current Capacity* 235,372 acre-ft. **Design Sedimentation Rate**** 294 acre-ft./yr

Actual Sedimentation Rate* 276 acre-ft./yr **Loss of Capacity to Date*** 4.81%

Impact of Sediment Summary

Watershed Sediment Yield* 0.86 acre-ft./mi²/yr **Design Life for Sediment Storage**** 100 Years

Years to Fill Sediment Storage Multipurpose Pool From Time of Gate Closure* 116 Years

Year Sediment Storage is Filled* 2078

Lake Level Management Plan

Total Maximum Daily Loads

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