

## Clinton Lake Reservoir Fact Sheet

**Location** On the Wakarusa River, at river mile 22.3 in Douglas County, 4 miles west of Lawrence, Kansas. Watershed includes portions of Douglas, Osage, Shawnee and Wabaunsee counties.

**River Basin** Kansas-Lower Republican

**Top of Dam Elevation\*\*** 928 ft.

### Construction History\*\*

**Construction Began** January 1972

**Gates Closed** November 30, 1977

**Multipurpose Pool Filled** April 3, 1980

**Current Federally Authorized Purposes\*\***

Flood control, water supply, water quality, recreation, fish and wildlife.

**State Designated Uses\*\*\***

Primary contact recreation, food procurement, special aquatic life support.

### Watershed

**Watershed Drainage Area\*\*** 367 mi<sup>2</sup> **Hydrologic Unit Code** 10270104010

**Percent of Watershed in Organized Watershed District\*** 99% **Elevation of Top of Watershed\*\*** 1360 ft.

**Major Streams** Wakarusa River, Deer Creek, Rock Creek

**Original Sediment Survey Year\*** 1977

**Most Recent Survey Year\*** 1991

### Multipurpose Pool

**Top of Multipurpose Pool** 875.5 ft **Multipurpose Pool Surface Area\*** 7,120 acres

**Original Storage Capacity\*** 129,171 acre-ft **Capacity at Most Recent Survey\*** 125,334 acre-ft

**Estimated Current Capacity\*** 120,643 acre-ft **Design Sedimentation Rate\*\*** 190 acre-ft./yr

**Actual Sedimentation Rate\*** 293 acre-ft./yr **Loss of Capacity to Date\*** 6.60%

**Hydraulic Residence Time\*\*\*** 9 months **Average Water Depth\*\*\*** 17 ft.

**Multipurpose Pool Shoreline Perimeter Length\*\*** 82 miles

### Multipurpose and Flood Pool

**Top of Flood Pool** 903.4 ft. **Flood Pool Surface Area\*** 12,890 acres

**Original Storage Capacity\*** 397,538 acre-ft. **Capacity at Most Recent Survey\*** 394,117 acre-ft.

**Estimated Current Capacity\*** 389,935 acre-ft. **Design Sedimentation Rate\*\*** 285 acre-ft./yr

**Actual Sedimentation Rate\*** 261 acre-ft./yr **Loss of Capacity to Date\*** 1.91%

### Impact of Sediment Summary

**Watershed Sediment Yield\*** 0.71 acre-ft/mi<sup>2</sup>/yr **Design Life for Sediment Storage\*\*** 100 Years

**Years to Fill Sediment Storage Multipurpose Pool From Time of Gate Closure\*** 65 Years

**Year Sediment Storage is Filled\*** 2042

**Lake Level Management Plan**

**Total Maximum Daily Loads**

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