

Kanopolis Lake Reservoir Information Sheet

Location On the Smoky Hill River at river mile 183.7, in Ellsworth County, 17 miles southeast of Ellsworth. Watershed includes portions of Barton, Ellis, Ellsworth, Gove, Lincoln, Ness, Rice, Rush, Russell, Sheridan and Trego counties.

River Basin Smoky Hill-Saline

Watershed

Watershed Drainage Area** 2327 mi² **Hydrologic Unit Code** 10260006-10260007

Percent of Watershed in Organized Watershed District* 0% **Elevation of Top of Watershed**** 3000 ft.

Watershed Sediment Yield* 0.18 Acre-ft/mi²/yr

Construction History**

Construction Began December, 1940 **Top of Dam Elevation**** 1537 ft.

Multipurpose Pool Filled July, 1948 **Gates Closed** May, 1948

**Current
Federally
Authorized
Purposes****

Flood control, irrigation, recreation, fish and wildlife, water quality, downstream low flow augmentation, navigation, hydroelectric power, and water supply. The irrigation purpose cannot be implemented until an irrigation district has been constituted to use the water. Navigation and hydroelectric power are no longer operating purposes.

**State
Designated
Uses*****

General purpose, expected aquatic life, primary contact recreation, domestic water supply, food procurement, irrigation water supply.

Multipurpose Pool - Top Elev. 1463 ft.

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|--|---|
| Original Survey Year* <u>1946</u> | Most Recent Survey Year* <u>2007</u> |
| Original Storage Capacity* <u>73,200 acre-ft.</u> | Capacity at Most Recent Survey* <u>48,378 acre-ft.</u> |
| Original Surface Area** <u>3,980 acres</u> | Surface Area at Most Recent Survey* <u>2,975 acres</u> |
| Design Sedimentation Rate** <u>451 acre-ft./yr</u> | Calculated Sedimentation Rate* <u>422 acre-ft./yr</u> |
| Design Life for Sediment Storage** <u>100 Years</u> | Estimated Current Capacity* <u>46,691 acre-ft.</u> |
| | Loss of Capacity to Date* <u>36.21%</u> |

Multipurpose Pool Breakout

Quality Storage 53.40%

Water Supply Storage 46.60% = 0.00% Assurance District + 46.60% Water Marketing + 0.00% Reserve

Other 0.00%

Flood Pool (includes Multipurpose Pool)

Top of Flood Pool 1508 ft. **Original Surface Area**** 13,940 acres

Original Storage Capacity* 447,251 acre-ft. **Design Sedimentation Rate**** 564 acre-ft./yr

Lake Level Management Plan

Recent Bathymetric Surveys

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