

Water-Data Report 2007

07226800 UTE RESERVOIR NEAR LOGAN, NM

Upper Canadian Basin
Upper Canadian-Ute Reservoir Subbasin

LOCATION.--Lat 35°20'34.75", long 103°26'39.46" referenced to North American Datum of 1983, Quay County, NM, Hydrologic Unit 11080006, on face of Ute Dam on Canadian River, 2.5 mi southwest of Logan, 3.5 mi downstream from Ute Creek, and at mile 673.1.

DRAINAGE AREA.--11,140 mi², of which 1,110 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1963 to September 1965 (monthend contents only), October 1965 to current year.

REVISED RECORDS.--WDR NM-78-I: 1977.

GAGE.--Water-stage recorder with satellite telemetry. Datum of elevation is North American Vertical Datum of 1983 (levels by Interstate Stream Commission). Prior to Feb. 25, 1974, nonrecording gage at same site and datum.

REMARKS.--Records fair. Reservoir is formed by an earthfill dam 132 ft high above streambed, 2,050 ft long; an earthen dike section on north bank of Canadian River 3,640 ft long with a maximum height of 38 ft; a concrete labyrinth spillway section with an equivalent weir length of 3,360 ft is located upstream from an 840-ft-long ogee section between the main embankment and dike. Original construction completed in May 1963, storage began Dec. 13, 1962; modification project to construct labyrinth spillway and increase height of dam and dike completed Apr. 1984. Capacity, 229,710 acre-ft at elevation 3,788.86 ft, crest of labyrinth spillway, from capacity table dated Dec. 2002. Original capacity at elevation 3,787.0 ft was 272,770 acre-ft. Top of dam is at elevation 3,813.86 ft. Dead storage, 9,230 acre-ft at elevation 3,726.86 ft, sill of outlet intake tower; inactive pool of 25,070 acre-ft, between elevations 3,726.86 and 3,743.46 ft, maintained for sediment control and fish and wildlife. Figures given herein represent total contents. Reservoir storage is for municipal and industrial uses, recreational purposes, sediment control and some incidental flood control. Diversions upstream from station for irrigation of about 90,000 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 250,000 acre-ft, May 20, 21, 1987, elevation, 3,787.40 ft; minimum since reservoir first filled in Sept. 1965, 31,320 acre-ft, June 6, 1984, elevation, 3,739.10 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 205,000 acre-ft, Oct. 1, elevation, 3,785.52 ft; minimum, 186,000 acre-ft, Sept. 30, elevation, 3,782.71 ft.

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**RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY OBSERVATION AT 2400 HOURS**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	195,000	193,000	190,000
2	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	195,000	194,000	190,000
3	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	195,000	194,000	190,000
4	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	195,000	194,000	190,000
5	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	194,000	194,000	190,000
6	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	194,000	193,000	190,000
7	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	198,000	194,000	193,000	189,000
8	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	194,000	193,000	189,000
9	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	194,000	193,000	189,000
10	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	196,000	193,000	189,000
11	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	196,000	193,000	189,000
12	205,000	203,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	196,000	192,000	189,000
13	205,000	202,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	196,000	192,000	189,000
14	205,000	202,000	201,000	201,000	201,000	200,000	201,000	200,000	197,000	196,000	192,000	189,000
15	205,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	197,000	196,000	192,000	188,000
16	205,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	197,000	196,000	192,000	188,000
17	205,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	196,000	196,000	191,000	188,000
18	205,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	196,000	196,000	191,000	188,000
19	205,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	196,000	195,000	191,000	188,000
20	204,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	196,000	195,000	191,000	188,000
21	204,000	202,000	201,000	201,000	201,000	200,000	201,000	199,000	196,000	195,000	191,000	187,000
22	204,000	202,000	201,000	201,000	201,000	200,000	200,000	199,000	196,000	195,000	191,000	187,000
23	204,000	202,000	201,000	201,000	201,000	201,000	200,000	199,000	196,000	195,000	191,000	187,000
24	204,000	202,000	201,000	201,000	201,000	201,000	200,000	198,000	196,000	195,000	191,000	187,000
25	204,000	202,000	201,000	201,000	201,000	201,000	200,000	199,000	196,000	194,000	191,000	187,000
26	204,000	202,000	201,000	201,000	201,000	201,000	200,000	198,000	196,000	194,000	190,000	187,000
27	204,000	202,000	201,000	201,000	201,000	201,000	200,000	198,000	196,000	194,000	190,000	187,000
28	204,000	202,000	201,000	201,000	201,000	201,000	200,000	198,000	195,000	194,000	190,000	187,000
29	204,000	201,000	201,000	201,000	---	201,000	200,000	198,000	195,000	194,000	190,000	187,000
30	203,000	201,000	201,000	201,000	---	201,000	200,000	198,000	195,000	194,000	190,000	186,000
31	203,000	---	201,000	201,000	---	201,000	---	198,000	---	194,000	190,000	---
Max	205,000	203,000	201,000	201,000	201,000	201,000	201,000	200,000	198,000	196,000	194,000	190,000
Min	203,000	201,000	201,000	201,000	201,000	200,000	200,000	198,000	195,000	194,000	190,000	186,000
End of month elevation, in feet	3,785.23	3,784.97	3,784.91	3,784.93	3,784.85	3,784.96	3,784.70	3,784.46	3,784.06	3,783.85	3,783.32	3,782.75
Change in contents, in acre-feet	-2,000	-2,000	0	0	0	0	-1,000	-2,000	-3,000	-1,000	-4,000	-4,000

	Calendar Year 2006	Water Year 2007
Max	213,000	205,000
Min	176,000	186,000

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