

Water-Data Report 2006

07226800 UTE RESERVOIR NEAR LOGAN, NM

Upper Canadian Basin
Upper Canadian-Ute Reservoir Subbasin

LOCATION.--Lat 35°20'36", long 103°26'36" 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.--11,110 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 gage is North American Vertical Datum of 1988 (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, 213,000 acre-ft, Sept. 10, elevation, 3,786.53 ft; minimum, 176,000 acre-ft, July 4, elevation, 3,781.11 ft.

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RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	195,000	193,000	190,000	189,000	188,000	187,000	186,000	183,000	181,000	176,000	189,000	207,000
2	195,000	193,000	191,000	189,000	188,000	187,000	185,000	183,000	181,000	176,000	189,000	210,000
3	195,000	193,000	190,000	189,000	188,000	187,000	185,000	183,000	181,000	176,000	190,000	211,000
4	195,000	193,000	190,000	189,000	188,000	187,000	185,000	183,000	180,000	176,000	191,000	212,000
5	195,000	192,000	190,000	189,000	188,000	187,000	185,000	183,000	180,000	176,000	191,000	212,000
6	195,000	192,000	190,000	189,000	188,000	187,000	185,000	183,000	180,000	187,000	192,000	211,000
7	195,000	192,000	190,000	189,000	188,000	187,000	185,000	183,000	180,000	191,000	192,000	212,000
8	195,000	192,000	190,000	189,000	188,000	187,000	185,000	183,000	180,000	191,000	192,000	212,000
9	195,000	192,000	190,000	189,000	188,000	187,000	185,000	182,000	180,000	191,000	192,000	212,000
10	195,000	192,000	190,000	189,000	188,000	187,000	185,000	182,000	179,000	191,000	191,000	213,000
11	195,000	192,000	190,000	189,000	188,000	187,000	185,000	182,000	179,000	191,000	191,000	212,000
12	194,000	192,000	190,000	189,000	188,000	187,000	185,000	182,000	179,000	192,000	191,000	212,000
13	194,000	192,000	190,000	189,000	188,000	186,000	185,000	182,000	179,000	191,000	191,000	212,000
14	194,000	192,000	190,000	189,000	188,000	186,000	185,000	182,000	179,000	191,000	191,000	212,000
15	194,000	191,000	190,000	189,000	188,000	186,000	184,000	182,000	178,000	191,000	192,000	212,000
16	194,000	191,000	190,000	189,000	188,000	186,000	184,000	182,000	178,000	191,000	193,000	211,000
17	194,000	191,000	189,000	189,000	188,000	186,000	184,000	182,000	178,000	191,000	193,000	210,000
18	194,000	191,000	189,000	189,000	187,000	186,000	184,000	182,000	178,000	191,000	194,000	210,000
19	194,000	191,000	189,000	189,000	187,000	186,000	184,000	182,000	178,000	191,000	196,000	210,000
20	194,000	191,000	189,000	189,000	187,000	186,000	184,000	182,000	177,000	190,000	196,000	209,000
21	194,000	191,000	189,000	189,000	187,000	186,000	184,000	182,000	177,000	190,000	198,000	209,000
22	194,000	191,000	190,000	189,000	187,000	186,000	184,000	182,000	177,000	190,000	201,000	208,000
23	194,000	191,000	189,000	189,000	187,000	186,000	184,000	181,000	177,000	190,000	202,000	208,000
24	194,000	191,000	189,000	189,000	187,000	186,000	183,000	181,000	177,000	190,000	202,000	207,000
25	194,000	191,000	189,000	188,000	187,000	186,000	183,000	181,000	177,000	190,000	203,000	207,000
26	193,000	191,000	190,000	188,000	187,000	186,000	183,000	181,000	177,000	190,000	203,000	207,000
27	193,000	191,000	189,000	189,000	187,000	186,000	183,000	181,000	177,000	190,000	205,000	206,000
28	193,000	191,000	189,000	188,000	187,000	186,000	183,000	180,000	177,000	190,000	206,000	206,000
29	193,000	191,000	189,000	188,000	---	186,000	183,000	180,000	177,000	190,000	207,000	205,000
30	193,000	191,000	189,000	188,000	---	186,000	183,000	180,000	177,000	189,000	207,000	205,000
31	193,000	---	189,000	188,000	---	186,000	---	181,000	---	189,000	207,000	---
Max	195,000	193,000	191,000	189,000	188,000	187,000	186,000	183,000	181,000	192,000	207,000	213,000
Min	193,000	191,000	189,000	188,000	187,000	186,000	183,000	180,000	177,000	176,000	189,000	205,000
End of month elevation, in feet												
	3,783.72	3,783.36	3,783.20	3,783.03	3,782.87	3,782.62	3,782.24	3,781.84	3,781.21	3,783.14	3,785.78	3,785.51
Change in contents, in acre-feet												
	-2,000	-3,000	-1,000	-1,000	-1,000	-1,000	-3,000	-2,000	-4,000	+12,000	+18,000	-2,000

	Calendar Year 2005	Water Year 2006
Max	197,000	213,000
Min	178,000	176,000

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