

Water-Data Report 2008

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 1,140 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, 203,000 acre-ft, Aug. 21, 22, 23, 24, elevation, 3,785.12 ft.; minimum, 170,000 acre-ft, May 28, elevation, 3,780.11 ft.

07226800 UTE RESERVOIR NEAR LOGAN, NM—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	186,000	182,000	180,000	180,000	178,000	178,000	175,000	172,000	178,000	176,000	185,000	e202,000
2	186,000	182,000	180,000	180,000	178,000	178,000	175,000	172,000	178,000	176,000	185,000	e202,000
3	186,000	182,000	180,000	180,000	179,000	177,000	175,000	172,000	178,000	176,000	185,000	e201,000
4	186,000	182,000	180,000	180,000	178,000	177,000	175,000	172,000	178,000	176,000	185,000	e201,000
5	186,000	182,000	180,000	180,000	178,000	177,000	175,000	172,000	177,000	176,000	185,000	e201,000
6	186,000	182,000	180,000	180,000	178,000	177,000	175,000	172,000	177,000	176,000	184,000	e201,000
7	186,000	182,000	180,000	180,000	178,000	177,000	175,000	172,000	177,000	177,000	184,000	e201,000
8	185,000	182,000	e180,000	180,000	178,000	177,000	175,000	172,000	177,000	179,000	184,000	e201,000
9	185,000	182,000	e180,000	180,000	178,000	177,000	174,000	172,000	176,000	181,000	184,000	e201,000
10	185,000	182,000	e180,000	180,000	178,000	177,000	175,000	172,000	176,000	184,000	184,000	e201,000
11	185,000	182,000	e180,000	179,000	178,000	177,000	175,000	171,000	176,000	185,000	184,000	e200,000
12	185,000	181,000	180,000	179,000	178,000	177,000	174,000	171,000	176,000	184,000	184,000	e200,000
13	185,000	181,000	180,000	179,000	178,000	177,000	174,000	171,000	176,000	184,000	184,000	e200,000
14	185,000	181,000	e180,000	179,000	178,000	177,000	174,000	171,000	176,000	184,000	185,000	e200,000
15	185,000	181,000	e180,000	179,000	178,000	177,000	174,000	171,000	175,000	184,000	185,000	e200,000
16	185,000	181,000	180,000	179,000	178,000	177,000	174,000	171,000	175,000	185,000	e187,000	e200,000
17	185,000	181,000	180,000	179,000	178,000	177,000	174,000	171,000	175,000	185,000	e194,000	e200,000
18	184,000	181,000	180,000	179,000	178,000	177,000	174,000	171,000	175,000	185,000	e199,000	e200,000
19	184,000	181,000	180,000	179,000	178,000	177,000	174,000	171,000	175,000	185,000	e202,000	e200,000
20	184,000	181,000	180,000	179,000	178,000	176,000	174,000	171,000	175,000	185,000	e202,000	e200,000
21	184,000	181,000	180,000	179,000	178,000	176,000	173,000	171,000	176,000	185,000	e203,000	e199,000
22	183,000	181,000	180,000	179,000	178,000	176,000	173,000	171,000	176,000	185,000	e203,000	e199,000
23	183,000	e181,000	180,000	179,000	178,000	176,000	174,000	171,000	176,000	185,000	e203,000	e199,000
24	183,000	e181,000	180,000	179,000	178,000	176,000	173,000	170,000	176,000	185,000	e203,000	e199,000
25	183,000	181,000	180,000	179,000	178,000	176,000	173,000	170,000	176,000	185,000	e202,000	e199,000
26	183,000	181,000	180,000	179,000	178,000	176,000	e173,000	170,000	176,000	185,000	e202,000	e199,000
27	183,000	181,000	180,000	179,000	178,000	176,000	e173,000	170,000	176,000	185,000	e202,000	e199,000
28	183,000	180,000	180,000	179,000	178,000	176,000	e173,000	172,000	176,000	185,000	e202,000	e199,000
29	183,000	180,000	180,000	179,000	178,000	176,000	173,000	176,000	176,000	185,000	e202,000	e199,000
30	e183,000	180,000	180,000	179,000	---	176,000	173,000	177,000	176,000	185,000	e202,000	e199,000
31	182,000	---	180,000	179,000	---	175,000	---	178,000	---	185,000	e202,000	---
Max	186,000	182,000	180,000	180,000	179,000	178,000	175,000	178,000	178,000	185,000	203,000	202,000
Min	182,000	180,000	180,000	179,000	178,000	175,000	173,000	170,000	175,000	176,000	184,000	199,000
End of month elevation, in feet												
	3,782.14	3,781.79	3,781.73	3,781.55	3,781.41	3,781.04	3,780.60	3,781.41	3,781.12	3,782.51	3,785.02	3,784.53
Change in contents, in acre-feet												
	-4,000	-2,000	0	-1,000	-1,000	-3,000	-2,000	+5,000	-2,000	+9,000	+17,000	-4,000

	Calendar Year 2007	Water Year 2008
Max	201,000	203,000
Min	180,000	170,000

07226800 UTE RESERVOIR NEAR LOGAN, NM—Continued

