



Water-Data Report 2007

06853900 LOVEWELL RESERVOIR NEAR LOVEWELL, KS

Republican Basin
Middle Republican Subbasin

LOCATION.--Lat 39°53'03", long 98°01'41" referenced to North American Datum of 1927, in NW ¼ NE ¼ NE ¼ sec.18, T.2 S., R.6 W., Jewell County, KS, Hydrologic Unit 10250016, at south end of Lovewell Dam on White Rock Creek, 3 mi northwest of Lovewell, and at mile 19.3.

DRAINAGE AREA.--345 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1957 to February 2007 (discontinued). Monthly records only, May to September 1957.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Bureau of Reclamation). From June 15, 1960, to May 6, 1975, water-stage recorder at north end of dam at same datum.

REMARKS.--Records good except those for estimated elevations, which are poor. Reservoir is formed by earthfill dam. Closure was made May 29, 1957. Irrigation pool elevation was first reached on May 19, 1958. Total capacity of 180,300 acre-ft consists of the following: Dead storage, 1,660 acre-ft below elevation 1,562.07 ft; irrigation pool, 34,010 acre-ft between elevations 1,562.07 ft and 1,582.6 ft; flood-control pool, 50,460 acre-ft between elevations 1,582.6 ft and 1,595.3 ft; and surcharge pool, 94,170 acre-ft between elevations 1,595.3 ft and 1,610.3 ft. Storage in reservoir is derived from White Rock Creek and diversion from the Republican River through upper Courtland Canal. Releases are made into White Rock Creek and for irrigation of 30,000 acres through lower Courtland Canal. Figures given herein represent total contents. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,595.38 ft, July 22, 1993, contents, 92,560 acre-ft; minimum elevation since irrigation pool was first reached, 1,570.21 ft, Aug. 21, 1991, contents 14,330 acre-ft.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,579.70 ft, Feb. 28, contents, 27,640 acre-ft; minimum elevation, 1,573.27 ft, Oct. 1, contents, 14,120 acre-ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Computed by Bureau of Reclamation on basis of resurvey made in 1995)

Elevation	Contents	Elevation	Contents	Elevation	Contents
1,572	12,100	1,576	19,150	1,580	28,410
1,574	15,370	1,578	23,500		

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LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,573.29	1,573.91	1,574.76	1,576.26	1,577.42	---	---	---	---	---	---	---
2	1,573.30	1,573.93	1,574.77	1,576.31	1,577.45	---	---	---	---	---	---	---
3	1,573.32	1,573.95	1,574.82	1,576.35	1,577.45	---	---	---	---	---	---	---
4	1,573.31	1,573.98	1,574.81	1,576.43	1,577.48	---	---	---	---	---	---	---
5	1,573.30	1,574.00	1,574.84	1,576.52	1,577.51	---	---	---	---	---	---	---
6	1,573.30	1,574.05	1,574.88	1,576.57	1,577.53	---	---	---	---	---	---	---
7	1,573.31	1,574.08	1,574.87	1,576.61	1,577.57	---	---	---	---	---	---	---
8	1,573.30	1,574.12	1,574.91	1,576.70	1,577.60	---	---	---	---	---	---	---
9	1,573.30	1,574.15	1,574.92	1,576.66	1,577.62	---	---	---	---	---	---	---
10	1,573.33	1,574.17	1,574.97	1,576.72	1,577.66	---	---	---	---	---	---	---
11	1,573.35	1,574.18	1,575.05	1,576.80	1,577.69	---	---	---	---	---	---	---
12	1,573.34	1,574.24	1,575.06	1,576.77	1,577.79	---	---	---	---	---	---	---
13	1,573.35	1,574.23	1,575.12	1,576.80	1,577.81	---	---	---	---	---	---	---
14	1,573.38	1,574.26	1,575.16	1,576.83	1,577.85	---	---	---	---	---	---	---
15	1,573.41	1,574.29	1,575.19	1,576.86	e1,577.87	---	---	---	---	---	---	---
16	1,573.47	1,574.32	1,575.24	1,576.88	e1,577.89	---	---	---	---	---	---	---
17	1,573.49	1,574.35	1,575.27	1,576.90	1,577.93	---	---	---	---	---	---	---
18	1,573.48	1,574.38	1,575.31	1,576.94	1,577.96	---	---	---	---	---	---	---
19	1,573.53	1,574.42	1,575.36	1,576.96	1,578.05	---	---	---	---	---	---	---
20	1,573.54	1,574.43	1,575.49	1,577.03	e1,578.14	---	---	---	---	---	---	---
21	1,573.59	1,574.47	1,575.55	1,577.08	1,578.34	---	---	---	---	---	---	---
22	1,573.60	1,574.51	1,575.63	1,577.12	1,578.58	---	---	---	---	---	---	---
23	1,573.63	1,574.55	1,575.67	1,577.14	1,578.87	---	---	---	---	---	---	---
24	1,573.65	1,574.59	1,575.72	1,577.16	e1,579.15	---	---	---	---	---	---	---
25	1,573.74	1,574.61	1,575.75	1,577.19	e1,579.31	---	---	---	---	---	---	---
26	1,573.77	1,574.65	1,575.78	1,577.22	e1,579.45	---	---	---	---	---	---	---
27	1,573.81	1,574.69	1,575.81	1,577.25	e1,579.60	---	---	---	---	---	---	---
28	1,573.83	1,574.72	1,575.86	1,577.29	e1,579.75	---	---	---	---	---	---	---
29	1,573.85	1,574.72	1,575.98	1,577.32	---	---	---	---	---	---	---	---
30	1,573.90	1,574.74	1,576.15	1,577.35	---	---	---	---	---	---	---	---
31	1,573.89	---	1,576.24	1,577.39	---	---	---	---	---	---	---	---
Mean	1,573.51	1,574.32	1,575.32	1,576.88	1,578.12	---	---	---	---	---	---	---
Max	1,573.90	1,574.74	1,576.24	1,577.39	1,579.75	---	---	---	---	---	---	---
Min	1,573.29	1,573.91	1,574.76	1,576.26	1,577.42	---	---	---	---	---	---	---
Contents, in acre-feet, at end of month.												
	15,180	16,710	19,650	22,110	e27,770	---	---	---	---	---	---	---
Change in contents, in acre-feet.												
	+1,040	+1,530	+2,940	+2,460	+5,660	---	---	---	---	---	---	---
CAL YR 2006 Change in contents, in acre-feet...-6,260												

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