11441001 Union Valley Reservoir near Riverton, CA

Sacramento River Basin

LOCATION.--Lat 38°51′49″, long 120°26′15″ referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.29, T.12 N., R.14 E., El Dorado County, CA, Hydrologic Unit 18020129, Eldorado National Forest, in valve control house near left bank at Union Valley Dam on Silver Creek, 0.7 mi upstream from Little Silver Creek, and 6.6 mi north of Riverton.

DRAINAGE AREA.--83.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1962 to current year.
CHEMICAL ANALYSES: Water year 1996.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Sacramento Municipal Utility District).

COOPERATION.--Records, including diversion to Union Valley Powerplant (station 11441002) were collected by Sacramento Municipal Utility District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2101.

REMARKS.--Reservoir is formed by earthfill dam completed in December 1962; storage began May 1962. Usable capacity, 266,389 acre-ft (revised), between elevations 4,645.0 ft, minimum operating level, and 4,870.0 ft, top of radial spillway gates. Dead storage, 2,888 ac-ft (revised). Reservoir receives water from the South Fork Rubicon River via Robbs Peak Powerplant (station 11429300) and from South Fork Silver Creek, since April 1985, via Jones Fork Powerplant (station 11440900). Water is used for power development in the South Fork American River Basin. Discharge to Union Valley Powerplant is shown as a line item below this table. Records, including extremes, represent total contents. See schematic diagrams of Middle Fork American and Rubicon River Basins and South Fork American River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 279,100 acre-ft, July 9, 1974, elevation, 4,870.6 ft; minimum since reservoir first filled, 18,300 acre-ft, Jan. 13, 1977, elevation, 4,683.3 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 262,500 acre-ft, June 7, 8, elevation, 4,868.67 ft; minimum, 145,000 acre-ft, Jan. 18, 19, minimum elevation, 4,819.32 ft, Jan. 18.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Table provided by Sacramento Municipal Utility District, based on May 2000 survey)

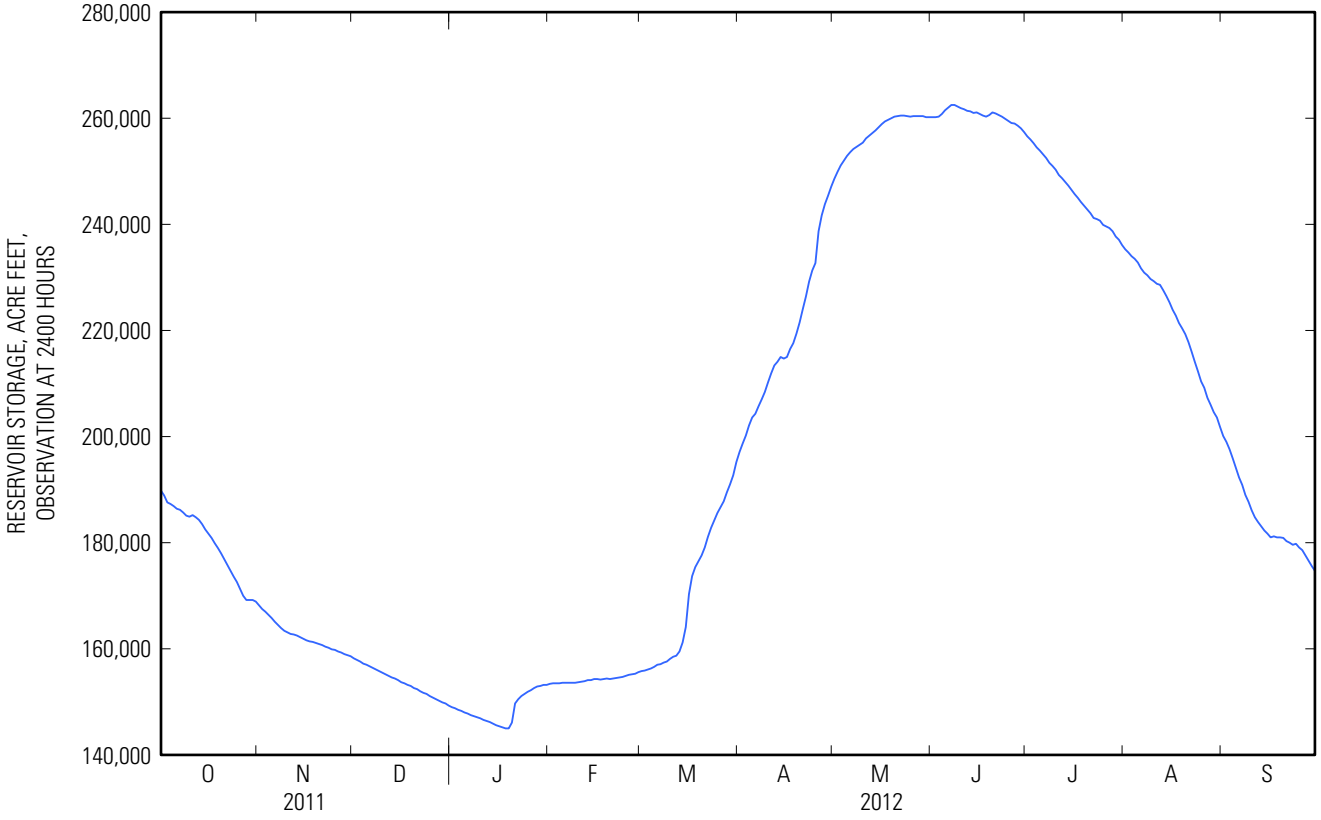
Elevation	Contents	Elevation	Contents	Elevation	Contents	Elevation	Contents
4,680	12,250	4,740	42,370	4,800	111,300	4,840	188,380
4,700	19,250	4,760	60,100	4,820	146,260	4,870	266,370
4,720	29,020	4,780	82,820				

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 11441001, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11441001.2012.pdf

11441001 Union Valley Reservoir near Riverton, CA—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	189,800	168,200	158,200	149,000	153,400	155,800	197,100	248,600	260,200	256,600	235,300	200,100
2	188,900	167,500	157,900	148,800	153,500	155,900	198,700	249,900	260,200	256,000	234,700	199,000
3	187,600	167,000	157,600	148,500	153,500	156,100	200,200	251,100	260,300	255,300	234,000	197,600
4	187,300	166,400	157,200	148,300	153,500	156,300	202,100	252,000	260,800	254,500	233,500	195,900
5	186,900	165,800	157,000	148,000	153,600	156,600	203,600	252,900	261,500	253,900	232,800	194,100
6	186,400	165,100	156,700	147,800	153,600	157,000	204,300	253,600	262,000	253,200	231,700	192,300
7	186,200	164,500	156,400	147,500	153,600	157,100	205,700	254,200	262,500	252,500	230,900	190,900
8	185,700	163,900	156,100	147,300	153,600	157,400	207,000	254,600	262,500	251,600	230,400	189,000
9	185,100	163,400	155,800	147,100	153,600	157,600	208,400	255,000	262,200	251,000	229,700	187,700
10	184,900	163,100	155,500	146,900	153,700	158,100	210,200	255,400	261,900	250,300	229,300	186,100
11	185,200	162,800	155,200	146,600	153,800	158,500	211,900	256,200	261,700	249,300	228,800	184,800
12	184,800	162,700	154,900	146,400	153,900	158,700	213,400	256,700	261,400	248,700	228,600	183,900
13	184,300	162,500	154,600	146,200	154,100	159,500	214,100	257,200	261,300	248,000	227,600	183,100
14	183,500	162,200	154,400	145,900	154,100	161,200	215,000	257,700	261,000	247,300	226,500	182,300
15	182,500	161,900	154,100	145,600	154,300	164,100	214,700	258,300	261,100	246,500	225,300	181,700
16	181,700	161,600	153,700	145,400	154,300	170,300	215,000	258,900	260,800	245,700	223,900	181,000
17	180,900	161,400	153,500	145,200	154,200	173,700	216,500	259,400	260,500	245,000	222,800	181,200
18	179,900	161,300	153,200	145,000	154,300	175,400	217,600	259,700	260,300	244,200	221,400	181,000
19	179,000	161,100	153,000	145,000	154,400	176,500	219,400	260,000	260,600	243,500	220,400	181,000
20	178,000	160,900	152,600	146,100	154,300	177,600	221,500	260,300	261,100	242,800	219,300	180,900
21	176,900	160,700	152,400	149,700	154,400	179,100	224,000	260,400	260,900	242,100	217,800	180,300
22	175,800	160,400	152,000	150,500	154,500	181,100	226,400	260,500	260,600	241,200	216,000	180,000
23	174,700	160,200	151,700	151,100	154,600	182,800	229,200	260,500	260,300	241,000	214,100	179,600
24	173,600	159,900	151,500	151,500	154,700	184,200	231,300	260,400	259,900	240,700	212,300	179,800
25	172,600	159,800	151,100	151,900	154,900	185,600	232,700	260,300	259,500	239,900	210,400	179,100
26	171,300	159,500	150,800	152,200	155,100	186,700	238,700	260,400	259,100	239,600	209,200	178,600
27	170,000	159,300	150,500	152,600	155,200	187,800	241,700	260,400	259,000	239,300	207,300	177,600
28	169,200	159,000	150,200	152,900	155,300	189,500	243,800	260,400	258,600	238,700	206,000	176,600
29	169,200	158,800	149,900	153,000	155,600	191,000	245,400	260,400	258,100	237,700	204,600	175,600
30	169,200	158,600	149,700	153,200	---	192,700	247,100	260,200	257,400	237,100	203,600	174,700
31	168,900	---	149,300	153,200	---	195,200	---	260,200	---	236,100	201,800	---
Max	189,800	168,200	158,200	153,200	155,600	195,200	247,100	260,500	262,500	256,600	235,300	200,100
Min	168,900	158,600	149,300	145,000	153,400	155,800	197,100	248,600	257,400	236,100	201,800	174,700
Elevation, in feet, at end of month												
	4,831.17	4,826.24	4,821.59	4,823.56	4,824.77	4,842.93	4,863.21	4,867.85	4,866.88	4,859.17	4,845.70	4,833.87
Change in contents, in acre-feet												
	-21,900	-10,300	-9,300	+3,900	+2,400	+39,600	+51,900	+13,100	-2,800	-21,300	-34,300	-27,100
Diversion, in acre-feet, to Union Valley Powerplant (station 11441002)												
	26,620	13,800	11,420	6,650	5,630	2,740	26,700	48,960	18,970	30,880	47,870	34,280

	Calendar Year 2011	Water Year 2012
Max	261,700	262,500
Min	149,300	145,000
Change in contents, in acre-feet	-63,600	-16,100
Diversion, in acre-feet, to Union Valley Powerplant	649,600	274,500

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