10312100 Lahontan Reservoir Near Fallon, NV

Carson Basin
Middle Carson Subbasin

LOCATION.--Lat 39°27′45″, long 119°04′00″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.33, T.19 N., R.26 E., Churchill County, NV, Hydrologic Unit 16050202, in outlet control house on upstream side of Lahontan Dam on Carson River, 18 mi west of Fallon.

DRAINAGE AREA.--1,799 mi^2, (not including inflow from Truckee Canal).

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1917 to current year. Monthly contents only for Jan. 1917 to Sep. 1960, published in WSP 1734.

REVISED RECORDS.--WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder since Dec. 1999 and float tape with surface contact detector. Prior to 1956, float tape. Datum of gage is Reclamation Service Datum "Lahontan Dam Datum", which is 3.73 feet higher than National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earth and gravel-fill dam, constructed by U.S. Bureau of Reclamation. Storage began sometime between the completion of the dam in Jun. 1915 and the beginning of the period of record, Jan. 1917. Capacity, 295,500 acre-ft between elevations, 4,060.0 ft, invert of outlet conduit, and 4,162.0 ft, spillway crest; includes 91 acre-ft of dead storage below elevation, 4,070 ft. Surface area at spillway elevation, 13,470 acres. Water is used for irrigation of 87,500 acres in Newland Project. Figures given herein represent total contents and are computed from 0800 hour readings, based on capacity table dated Mar. 9, 1989. Reservoir stores water from Carson River and from Truckee River via Truckee Canal at Derby Dam. Inflow is regulated by Lake Tahoe (station 10337000), Donner Lake (station 10338400), Prosser Creek (station 10340300), Stampede (station 10344300), Boca (station 10344490), other reservoirs, and Derby Dam. Extensive irrigation above reservoir in Carson and Truckee River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed (20-in flashboard on weir), 328,600 acre-ft, Jun. 16, 1942, elevation, 4,164.43 ft; minimum observed, 91 acre-ft, Sep. 07-09, 1929, elevation, 4,070.0 ft.

EXTREMES FOR CURRENT YEAR.-- Maximum contents, 162,700 acre-ft, June 22, 23, gage height, 4,147.86 ft; minimum contents, 11,030 acre-ft, Oct. 18, gage height, 4,099.83 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)

Elevation	Contents	Elevation	Contents	Elevation	Contents
4,095	6,600	4,120	43,000	4,145	145,300
4,100	11,210	4,125	56,340	4,150	177,100
4,105	16,970	4,130	72,820	4,155	215,700
4,110	23,880	4,135	93,730	4,160	265,200
4,115	32,330	4,140	118,000	4,165	333,400

10312100 Lahontan Reservoir Near Fallon, NV—Continued

RESERVOIR STORAGE, ACRE FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY OBSERVATION AT 0800 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16,890	11,480	24,930	39,530	e56,040	74,830	103,500	107,400	144,700	155,900	108,200	66,010
2	16,340	11,520	25,320	40,170	56,770	75,680	104,500	107,400	145,800	154,600	106,600	64,700
3	15,790	11,610	25,850	40,380	57,430	76,460	105,500	107,600	147,000	153,200	105,200	63,410
4	15,160	11,780	26,190	40,740	58,050	77,440	105,700	108,600	148,300	151,500	103,700	62,040
5	14,540	11,990	26,670	41,150	58,680	78,650	106,000	110,500	149,500	150,000	102,200	60,870
6	14,100	12,140	27,070	41,450	59,280	79,740	106,200	112,800	151,200	148,600	100,700	59,770
7	13,700	12,440	27,520	42,080	60,010	80,810	106,500	114,500	152,600	147,500	99,330	58,800
8	13,280	12,900	27,970	42,550	60,630	81,810	106,700	116,200	153,900	146,200	98,060	57,780
9	12,900	13,450	28,480	43,070	61,280	82,940	106,600	118,100	155,100	145,100	96,710	56,890
10	12,490	14,030	28,960	43,380	61,880	83,830	106,700	119,800	156,000	144,000	95,370	55,660
11	12,060	14,630	29,380	43,790	62,480	84,680	107,000	121,400	156,700	142,400	94,090	54,390
12	11,760	15,220	29,750	44,420	63,100	85,670	107,000	122,900	157,500	140,800	92,780	53,130
13	11,410	15,830	30,350	45,010	63,750	86,530	107,200	124,300	158,100	139,000	91,650	51,840
14	11,330	16,330	30,820	45,480	64,400	87,400	107,200	125,700	158,700	137,500	90,220	50,550
15	11,260	16,840	31,300	e45,930	65,030	88,050	107,300	126,900	159,000	135,800	88,800	49,410
16	11,180	17,310	31,680	e46,340	65,610	89,020	107,300	128,000	159,500	134,200	87,620	48,350
17	11,140	17,850	32,230	e46,740	66,210	89,780	107,500	128,800	160,200	132,700	86,270	47,310
18	11,080	18,220	32,560	e47,150	66,970	90,660	107,500	129,900	160,700	131,300	85,020	46,360
19	11,090	18,850	33,010	e47,570	67,590	91,430	107,300	131,000	161,500	129,700	83,740	45,360
20	11,180	19,450	33,560	e47,980	e68,220	92,280	107,100	132,400	161,900	128,200	82,520	44,390
21	11,290	20,000	34,210	e48,430	e68,890	93,140	106,700	134,000	162,200	126,500	81,100	43,380
22	11,270	20,640	34,830	e48,880	e69,560	93,960	106,300	135,600	162,600	124,900	79,620	42,450
23	11,240	21,240	35,380	49,330	e70,210	95,050	105,900	136,800	162,600	123,100	78,200	41,450
24	11,240	21,760	35,810	49,790	e70,900	96,020	105,900	137,800	162,400	121,600	76,770	40,450
25	11,190	22,250	36,330	e50,600	71,630	97,040	106,300	139,000	161,700	119,700	75,560	39,350
26	11,160	22,650	36,660	e51,370	72,370	98,020	106,800	140,100	161,000	118,000	74,410	38,280
27	11,150	23,140	37,150	52,120	73,120	99,000	107,300	140,900	160,100	116,200	73,160	37,190
28	11,210	23,600	37,530	52,910	73,990	99,990	107,500	141,600	159,000	114,500	71,970	36,250
29	11,300	24,030	38,000	53,820	---	100,400	107,400	142,200	158,000	112,900	70,540	35,380
30	11,390	24,510	38,600	54,590	---	101,600	107,400	143,000	156,900	111,200	68,960	34,590
31	11,400	---	39,040	55,310	---	102,700	---	143,500	---	109,700	67,380	---
Max	16,890	24,510	39,040	55,310	73,990	102,700	107,500	143,500	162,600	155,900	108,200	66,010
Min	11,080	11,480	24,930	39,530	56,040	74,830	103,500	107,400	144,700	109,700	67,380	34,590
Elevation, in feet above NGVD 1929, at end of month.												
	4,100.18	4,110.42	4,118.27	4,124.65	4,130.31	4,136.91	4,137.89	4,144.70	4,146.94	4,138.36	4,128.49	4,116.15
Change in contents, in acre-feet.												
	-6,010	+13,110	+14,530	+16,270	+18,680	+28,710	+4,700	+36,100	+13,400	-47,200	-42,320	-32,790

	Calendar Year 2008	Water Year 2009
Max	122,600	162,600
Min	11,080	11,080
Change in contents, in acre-feet.	-51,490	+17,180