

**10312000 Carson River Near Fort Churchill, NV**

Carson Basin  
Middle Carson Subbasin

LOCATION.--Lat 39°17'30", long 119°18'40" referenced to North American Datum of 1983, in NE ¼ SE ¼ sec.35, T.17 N., R.24 E., Lyon County, NV, Hydrologic Unit 16050202, on left bank, 400 ft downstream from Buckland Ditch, 2.0 mi west of Fort Churchill, 4.5 mi upstream of Weeks Bridge, and at mi 30.82 upstream from Lahontan Reservoir.

DRAINAGE AREA.--1,302 mi<sup>2</sup>, (Area at site when gage located at Weeks Bridge, 1,450 mi<sup>2</sup>).

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Apr. 1911 to current year.

REVISED RECORDS.--WSP 1514: 1917; WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,180 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Apr. 25, 1924, non recording gage at site 12.3 mi upstream at different datum. Apr. 25, 1924 to Dec. 31, 1933, water-stage recorder at site 12.5 mi upstream at different datum. Jan. 1, 1934 to Jan. 3, 1997 at various sites 4.5 mi upstream at different datums. Gage destroyed in Jan. 1997 flood and relocated to Weeks Bridge Feb. 1, 1997, at new datum. Relocated upstream 4.5 mi to previous site and datum, Dec. 14, 1999.

REMARKS.--Records fair except estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,300 ft<sup>3</sup>/s, Jan. 3, 1997, gage height, 15.27 ft; no flow at times, some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,400 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 3	1945	*1,170	*5.53

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**DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013  
DAILY MEAN VALUES**

[e, estimated; &amp;, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.80	4.8	98	e170	196	127	202	465	192	3.1	1.1	0.00
2	0.70	4.6	250	e122	194	131	216	509	177	5.2	1.4	0.00
3	0.55	3.5	631	e100	189	134	204	452	156	5.0	2.5	0.00
4	0.47	2.5	816	e96	188	141	176	435	155	4.5	2.7	0.00
5	0.63	2.1	422	e98	189	156	170	424	141	3.8	1.5	0.01
6	0.69	2.2	368	e144	188	155	184	424	116	3.0	0.20	0.01
7	0.69	2.0	602	e164	184	161	184	439	96	2.8	0.12	0.01
8	0.83	1.7	449	&187	178	167	189	474	101	2.1	0.22	0.02
9	0.85	2.3	328	196	170	163	206	525	96	1.6	1.6	0.01
10	0.88	3.6	271	e212	159	163	221	550	111	1.4	2.7	0.01
11	0.83	1.6	239	e174	163	153	210	535	122	2.3	2.8	0.02
12	1.1	2.3	221	e104	159	143	195	544	105	1.1	1.4	0.03
13	1.2	6.1	206	e99	157	149	211	570	95	0.94	0.12	0.06
14	1.0	8.4	195	e93	154	163	235	612	82	0.90	0.11	0.17
15	0.92	4.3	167	e112	152	186	263	610	70	0.84	0.31	0.30
16	0.79	4.1	162	e121	148	241	305	495	52	0.64	0.14	0.27
17	0.58	20	163	e127	149	283	293	496	41	0.83	0.58	0.07
18	0.71	29	175	e140	149	289	251	483	29	0.90	0.84	0.07
19	0.92	25	e165	e138	152	283	231	442	23	0.72	0.33	0.15
20	0.94	29	e139	e131	151	272	193	352	20	0.61	0.02	0.29
21	1.0	39	e146	e123	151	272	169	276	15	0.57	0.32	0.35
22	1.2	41	151	e125	149	271	173	250	7.2	0.56	0.13	0.55
23	1.7	38	173	e174	142	244	198	232	4.0	0.92	0.00	0.76
24	2.2	36	209	236	137	225	251	204	4.6	1.8	0.05	0.68
25	2.6	42	234	240	139	188	257	174	4.9	0.58	0.10	0.56
26	2.9	46	209	227	131	177	241	147	5.0	0.61	0.02	0.46
27	3.4	49	198	227	129	173	244	140	11	0.54	0.17	0.41
28	3.9	51	191	223	131	172	268	134	9.4	0.81	0.16	0.46
29	4.3	57	179	206	---	159	326	135	4.0	0.97	0.06	0.24
30	4.5	65	175	198	---	162	376	181	3.5	0.92	0.16	0.08
31	4.9	---	169	200	---	168	---	199	---	1.3	0.13	---
<b>Total</b>	48.68	623.1	8,101	4,907	4,478	5,871	6,842	11,908	2,048.6	51.86	21.99	6.05
<b>Mean</b>	1.57	20.8	261	158	160	189	228	384	68.3	1.67	0.71	0.20
<b>Max</b>	4.9	65	816	240	196	289	376	612	192	5.2	2.8	0.76
<b>Min</b>	0.47	1.6	98	93	129	127	169	134	3.5	0.54	0.00	0.00
<b>Ac-ft</b>	97	1,240	16,070	9,730	8,880	11,650	13,570	23,620	4,060	103	44	12

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	60.9	164	261	334	373	408	552	1,094	944	247	32.3	15.9
<b>Max</b>	481	1,653	2,540	3,001	2,378	1,674	1,475	2,923	4,141	1,600	613	238
<b>(WY)</b>	(1983)	(1951)	(1951)	(1997)	(1986)	(1995)	(1916)	(1969)	(1983)	(1995)	(1983)	(1983)
<b>Min</b>	0.00	0.54	44.4	72.4	65.1	36.6	7.41	38.6	4.80	0.00	0.00	0.00
<b>(WY)</b>	(1925)	(1960)	(1960)	(1961)	(1991)	(1961)	(1977)	(1977)	(1992)	(1924)	(1924)	(1923)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1911 - 2013	
<b>Annual total</b>	53,160.36		44,907.28			
<b>Annual mean</b>	145		123		370	
<b>Highest annual mean</b>					1,111	1983
<b>Lowest annual mean</b>					36.3	1977
<b>Highest daily mean</b>	1,130	Apr 27	816	Dec 4	20,000	Jan 3, 1997
<b>Lowest daily mean</b>	0.39	Aug 28	0.00	Aug 23	0.00	Aug 27, 1923
<b>Annual seven-day minimum</b>	0.42	Aug 28	0.00	Sep 1	0.00	Aug 27, 1923
<b>Maximum peak flow</b>			1,170	Dec 3	22,300	Jan 3, 1997
<b>Maximum peak stage</b>			5.53	Dec 3	15.27	Jan 3, 1997
<b>Annual runoff (ac-ft)</b>	105,400		89,070		267,900	
<b>10 percent exceeds</b>	365		272		1,010	
<b>50 percent exceeds</b>	78		111		167	
<b>90 percent exceeds</b>	0.70		0.26		0.11	

