

10309000 East Fork Carson River Near Gardnerville, NV

Carson Basin
Upper Carson Subbasin

LOCATION.--Lat 38°50'42.7", long 119°42'21.9" referenced to North American Datum of 1983, in NW ¼ SE ¼ sec.2, T.11 N., R.20 E., Douglas County, NV, Hydrologic Unit 16050201, on left bank, at lower end of Horseshoe Bend, 2 mi east of Mud Lake Reservoir, 4.3 mi downstream from Bryant Creek, 7 mi southeast of Gardnerville, and at mi 100.1 upstream from Lahontan Dam.

DRAINAGE AREA.--356 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Jan. 1890 to Dec. 1893, Oct. 1900 to Dec. 1906 (gage heights only Aug. to Dec. 1904 and Jul. 1905 to Dec. 1906), Jan. 1908 to Dec. 1910, Jun. to Oct. 1917, Dec. 1924 to Sep. 1928, Jun. to Sep. 1929, Oct. 1935 to Dec. 1937, and May 1939 to current year.

REVISED RECORDS.--WSP 1214: 1938 (M), 1942-43 (M), 1945 (M). WSP 1514: 1909-10. WDR NV-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 4,987.68 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to May 19, 1939, nonrecording gages at several sites within 2 mi of present site at various datums. Prior to Jul. 20, 2001, at site 300 ft downstream and 2.57 ft lower.

REMARKS.--Records good except estimated daily discharges, which are poor. Station is above all diversions in Carson Valley. Diversions for irrigation above station. Flow slightly regulated by several small reservoirs, total capacity, about 5,000 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,300 ft³/s, Jan. 2, 1997, gage height, 13.00 ft; minimum daily, 11 ft³/s, Sep. 4, 1977.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	1630	*2,420	*11.13

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

[e, estimated; &, affected value]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36	46	152	e119	124	106	368	846	476	138	69	48
2	36	45	808	e112	128	117	329	660	495	153	72	47
3	35	45	438	e120	126	132	347	670	505	172	78	50
4	35	44	232	e125	125	135	393	712	509	158	83	52
5	35	44	268	e127	126	136	421	645	491	145	87	51
6	36	44	381	e127	125	148	418	659	482	127	80	47
7	37	45	251	e127	123	134	409	605	463	112	77	43
8	37	45	202	e127	&122	136	424	601	459	101	69	42
9	37	49	180	e118	e122	128	362	609	470	105	62	43
10	38	44	163	e109	&115	119	321	681	450	97	56	47
11	39	47	153	e104	e120	132	381	767	410	93	54	51
12	40	44	152	e104	&115	150	446	840	383	92	54	52
13	41	47	&136	e102	116	180	494	949	352	88	53	54
14	40	48	e119	e102	115	236	549	969	305	85	49	56
15	39	46	e118	e105	113	304	532	746	284	82	53	56
16	38	47	e126	e107	112	306	469	749	261	91	50	54
17	38	50	&148	e107	112	301	413	655	236	93	49	47
18	38	58	&146	e111	111	288	380	598	218	85	51	49
19	38	56	e106	e114	113	280	378	570	204	82	52	51
20	38	53	e132	e114	108	318	414	557	192	77	59	51
21	38	52	e133	e118	104	306	468	563	186	84	62	46
22	38	60	e126	e118	102	278	560	560	180	85	72	52
23	43	55	e114	e120	114	249	619	498	173	96	71	55
24	43	54	&134	e120	&104	249	594	464	171	98	64	52
25	43	52	&143	e121	&103	274	558	467	230	97	57	50
26	44	51	&145	e118	&102	273	600	461	231	157	52	51
27	45	49	e117	e122	97	271	662	457	186	90	50	53
28	47	54	e118	e120	105	299	773	502	173	80	49	50
29	47	60	e127	e123	---	312	818	527	172	76	46	46
30	47	137	e123	e124	---	359	936	508	149	73	51	44
31	46	---	e113	126	---	392	---	484	---	71	51	---
Total	1,232	1,571	5,804	3,611	3,202	7,048	14,836	19,579	9,496	3,183	1,882	1,490
Mean	39.7	52.4	187	116	114	227	495	632	317	103	60.7	49.7
Max	47	137	808	127	128	392	936	969	509	172	87	56
Min	35	44	106	102	97	106	321	457	149	71	46	42
Ac-ft	2,440	3,120	11,510	7,160	6,350	13,980	29,430	38,830	18,840	6,310	3,730	2,960

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1890 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	97.7	133	174	188	217	304	604	1,192	1,008	404	149	101
Max	416	1,110	1,127	1,789	947	1,038	1,140	2,541	3,056	1,794	597	416
(WY)	(1893)	(1951)	(1951)	(1997)	(1986)	(1986)	(1969)	(1890)	(1983)	(1890)	(1890)	(1893)
Min	31.2	37.9	34.0	31.9	31.1	67.8	185	205	138	62.9	29.5	19.4
(WY)	(1989)	(1991)	(1901)	(1904)	(1903)	(1977)	(1977)	(1977)	(1992)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1890 - 2013	
Annual total	66,672		72,934			
Annual mean	182		200		376	
Highest annual mean					905	1893
Lowest annual mean					91.6	1977
Highest daily mean	1,670	Apr 26	969	May 14	17,000	Jan 2, 1997
Lowest daily mean	35	Oct 3	35	Oct 3	11	Sep 4, 1977
Annual seven-day minimum	36	Sep 30	36	Oct 1	12	Sep 2, 1977
Maximum peak flow			2,420	Dec 2	20,300	Jan 2, 1997
Maximum peak stage			11.13	Dec 2	13.00	Jan 2, 1997
Annual runoff (ac-ft)	132,200		144,700		272,700	
10 percent exceeds	453		508		1,040	
50 percent exceeds	109		118		156	
90 percent exceeds	40		45		58	

