

10310000 West Fork Carson River At Woodfords, CA

Carson Basin
Upper Carson Subbasin

LOCATION.--Lat 38°46'11", long 119°49'58" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.34, T.11 N., R.19 E., Alpine County, CA, Hydrologic Unit 16050201, in Toiyabe National Forest, on left bank, 0.3 mi downstream from bridge on State Highway 88-89, 0.6 mi southwest of Woodfords, 3.8 mi downstream from Willow Creek, and 21.2 mi from mouth.

DRAINAGE AREA.--65.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1900 to May 1907, 1910-11 (fragmentary), Oct. 1938 to current year. Jan. 1890 to Mar. 1892, Jun. 1907 to Sep. 1920 (except parts of 1910-11), at site 0.7 mi downstream; records not equivalent owing to diversions for irrigation.

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

GAGE.--Water-stage recorder. Datum of gage is 5,754.5 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 01, 1938, nonrecording gage at about the same site at different datum. Oct. 01, 1938, to Nov. 11, 1958, water-stage recorder at same site at datum 1.02 ft lower. Nov. 13, 1958, to Jan. 30, 1963, water-stage recorder at site 150 ft downstream at datum 3.06 ft lower. Jan. 1997 flood, channel changed course upstream and existing site unusable. Gage moved 200 ft upstream Mar. 1997 at same datum.

REMARKS.--Records fair except estimated daily discharges, which are poor. One small diversion above station for irrigation. Flow slightly regulated by several small reservoirs, total capacity, about 1,500 acre-ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s, Jan. 01, 1997, gage height, 15.36 ft (present location); minimum daily, 5.3 ft³/s, Sep. 02, 1997.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 8.0 ft, at different datum, from floodmarks, discharge, 3,500 ft³/s, on basis of slope-area measurement of peak flow.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	1545	*464	*12.21

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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	12	19	59	e36	&36	33	156	256	129	42	32	16
2	12	19	231	e36	&36	36	139	209	133	43	31	16
3	13	18	135	34	&36	40	150	210	138	55	24	15
4	13	17	85	34	&36	38	179	220	134	54	18	15
5	13	17	177	34	&37	41	199	209	132	48	21	15
6	13	17	184	35	&35	38	180	257	127	35	18	14
7	13	17	102	35	&35	41	176	247	121	32	17	14
8	13	18	76	e35	e39	42	176	233	116	30	17	14
9	13	19	64	e36	&38	39	148	212	118	28	16	13
10	14	18	56	e35	e39	37	138	221	112	27	16	13
11	14	17	51	&35	e39	41	168	242	103	27	16	15
12	16	19	49	e35	e35	48	186	263	93	26	15	15
13	15	18	46	e35	&33	60	206	276	85	26	15	15
14	15	19	49	e35	&32	85	228	274	73	25	22	14
15	15	18	47	e35	&33	103	212	227	66	24	23	13
16	15	19	43	33	&33	108	181	226	60	24	22	13
17	15	22	42	31	&33	109	158	198	56	31	19	13
18	14	27	40	31	&33	109	151	182	51	31	15	13
19	14	22	e38	31	&33	115	150	172	63	30	15	14
20	17	21	e37	30	&32	133	163	165	61	28	15	14
21	18	23	33	31	&31	124	183	165	45	21	16	14
22	19	28	32	31	32	117	212	168	43	20	17	17
23	19	23	30	32	32	106	223	144	41	21	16	16
24	18	21	31	33	30	109	209	134	43	21	15	15
25	18	20	37	37	31	119	195	130	69	22	15	15
26	18	19	36	40	31	118	209	126	68	27	15	15
27	19	19	36	38	31	123	231	124	53	23	15	15
28	19	21	e36	e38	31	136	255	161	49	21	21	15
29	19	22	37	37	---	144	260	160	47	20	23	15
30	19	50	36	&36	---	156	287	149	44	19	21	15
31	19	---	e36	&35	---	168	---	135	---	30	18	---
Total	484	627	1,991	1,069	952	2,716	5,708	6,095	2,473	911	579	436
Mean	15.6	20.9	64.2	34.5	34.0	87.6	190	197	82.4	29.4	18.7	14.5
Max	19	50	231	40	39	168	287	276	138	55	32	17
Min	12	17	30	30	30	33	138	124	41	19	15	13
Ac-ft	960	1,240	3,950	2,120	1,890	5,390	11,320	12,090	4,910	1,810	1,150	865

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1901 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.8	37.9	45.8	51.2	54.2	76.7	203	371	251	102	45.6	29.4
Max	79.1	321	347	621	258	283	502	924	996	525	223	120
(WY)	(1983)	(1951)	(1951)	(1997)	(1963)	(1986)	(1907)	(1906)	(1983)	(1907)	(1907)	(1983)
Min	8.27	13.1	12.8	13.7	16.3	18.2	46.6	56.4	37.4	18.1	11.1	7.00
(WY)	(1989)	(1991)	(1991)	(1961)	(1977)	(1977)	(1975)	(1977)	(1992)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1901 - 2013	
Annual total	20,619		24,041			
Annual mean	56.3		65.9		108	
Highest annual mean					290	1907
Lowest annual mean					26.1	1977
Highest daily mean	517	Apr 26	287	Apr 30	5,500	Jan 2, 1997
Lowest daily mean	12	Sep 9	12	Oct 1	5.3	Sep 2, 1977
Annual seven-day minimum	12	Sep 15	13	Oct 1	5.4	Sep 5, 1977
Maximum peak flow			464	Dec 2	8,100	Jan 1, 1997
Maximum peak stage			12.21	Dec 2	15.36	Jan 1, 1997
Annual runoff (ac-ft)	40,900		47,690		78,280	
10 percent exceeds	160		180		288	
50 percent exceeds	32		35		44	
90 percent exceeds	14		15		17	

