

Water-Data Report 2013

14087380 CROOKED RIVER BELOW OSBORNE CANYON, NEAR OPAL CITY, OR

Deschutes Basin
Lower Crooked Subbasin

LOCATION.--Lat 44°25'37.4", long 121°13'54.2" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.24, T.13 S., R.12 E., Jefferson County, OR, Hydrologic Unit 17070305, on left bank, 6.3 mi south of Culver and at mile 13.5.

DRAINAGE AREA.--4,520 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2003 to current year.

REVISED RECORDS.--WDR-US-2012: 2012.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,190 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Flow regulated by Prineville and Ochoco Reservoirs (combined active capacity, 188,200 acre-ft). Summer flow and storage upstream from Prineville diverted for irrigation and municipal uses. Continuous water-quality records for period November 2003 to September 2006 have been collected at this location.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--10 years (water years 2004-13), 405 ft³/s, 293,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft³/s Apr. 16, 2006, gage height, 8.55 ft; minimum discharge, 78 ft³/s July 11, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 892 ft³/s Apr. 8, gage height, 4.54 ft; minimum discharge, 93 ft³/s May 16.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	208	225	218	181	225	196	306	163	196	140	111	242
2	219	223	213	190	224	196	278	163	167	121	147	224
3	210	237	209	191	224	199	307	148	146	130	129	147
4	209	212	210	179	224	205	640	141	126	126	123	133
5	225	209	215	205	224	207	694	140	110	123	125	137
6	248	208	238	211	223	209	817	163	111	140	131	140
7	276	207	225	204	222	210	872	135	124	140	125	162
8	320	203	217	204	217	209	877	111	e110	143	126	217
9	305	203	214	212	213	206	862	119	107	137	139	224
10	282	213	212	215	212	204	742	110	128	108	143	234
11	279	211	210	214	210	204	644	114	198	123	156	220
12	278	213	210	195	208	206	599	106	175	124	170	184
13	280	215	207	193	214	214	574	127	182	123	164	196
14	284	211	205	196	217	221	527	123	195	110	128	195
15	287	209	205	212	243	232	512	104	209	133	115	207
16	345	209	206	205	221	241	469	111	216	142	116	218
17	349	209	222	205	207	240	429	167	198	122	128	214
18	307	207	230	200	207	233	407	193	116	108	137	223
19	284	206	212	196	205	228	351	220	127	117	143	253
20	240	210	208	196	204	244	309	233	164	129	142	264
21	244	209	208	193	203	253	312	218	182	138	115	265
22	243	206	207	196	201	260	314	206	197	146	111	275
23	235	203	210	191	198	235	271	229	246	145	131	294
24	238	205	208	201	197	219	236	233	287	129	120	306
25	238	208	206	207	197	217	221	220	345	143	166	310
26	237	203	207	234	196	216	209	212	339	176	299	317
27	235	201	207	259	195	221	158	239	334	155	314	315
28	236	205	203	245	196	275	136	282	311	142	296	292
29	235	212	200	232	---	268	153	264	274	151	275	300
30	232	231	202	227	---	302	184	264	153	130	252	324
31	230	---	197	224	---	306	---	217	---	124	244	---
Total	8,038	6,323	6,541	6,413	5,927	7,076	13,410	5,475	5,773	4,118	5,021	7,032
Mean	259	211	211	207	212	228	447	177	192	133	162	234
Max	349	237	238	259	243	306	877	282	345	176	314	324
Min	208	201	197	179	195	196	136	104	107	108	111	133
Ac-ft	15,940	12,540	12,970	12,720	11,760	14,040	26,600	10,860	11,450	8,170	9,960	13,950
Cfs/m	0.06	0.05	0.05	0.05	0.05	0.05	0.10	0.04	0.04	0.03	0.04	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	266	220	278	537	367	554	1,086	637	376	150	163	235
Max	339	264	615	2,036	905	1,286	2,963	1,781	889	234	215	340
(WY)	(2012)	(2011)	(2011)	(2006)	(2006)	(2004)	(2006)	(2011)	(2011)	(2011)	(2004)	(2010)
Min	214	181	179	183	180	204	421	177	182	106	104	138
(WY)	(2004)	(2007)	(2010)	(2009)	(2009)	(2005)	(2005)	(2013)	(2007)	(2009)	(2005)	(2009)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 2004 - 2013	
Annual total	112,571		81,147			
Annual mean	308		222		405	
Highest annual mean					828	2011
Lowest annual mean					222	2013
Highest daily mean	2,070	Apr 23	877	Apr 8	3,400	Apr 16, 2006
Lowest daily mean	126	Jul 11	104	May 15	84	Jul 17, 2009
Annual seven-day minimum	147	Jul 5	114	May 10	91	Aug 15, 2005
Annual runoff (ac-ft)	223,300		161,000		293,600	
Annual runoff (cfs)	0.068		0.049		0.090	
10 percent exceeds	521		305		877	
50 percent exceeds	210		209		227	
90 percent exceeds	167		126		140	

