



Water-Data Report 2008

14400000 CHETCO RIVER NEAR BROOKINGS, OR

Southern Oregon Coastal Basin
Chetco Subbasin

LOCATION.--Lat 42°07'25", long 124°11'10" referenced to North American Datum of 1927, in SE ¼ sec.12, T.40 S., R.13 W., Curry County, OR, Hydrologic Unit 17100312, on right bank, 16 ft upstream from bridge, 0.5 mi upstream from Elk Creek, 6.8 mi northeast of Brookings and at mile 10.7.

DRAINAGE AREA.--271 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 49.16 ft above NAVD of 1988 (levels by GPS).

REMARKS.--No estimated daily discharges. Records good below 10,000 ft³/s and fair above. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--39 years (water years 1970-2008), 2,251 ft³/s, 112.88 in/yr, 1,631,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,100 ft³/s Nov. 19, 1996, gage height, 28.56 ft; minimum discharge, 42 ft³/s Oct. 14, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 32.25 ft, from high-water mark on bridge pier, discharge, 85,400 ft³/s, from rating curve extended above 45,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 19	0645	*33,500	*16.69
Nov 17	1900	22,100	13.41
Dec 3	2345	27,200	14.91

Minimum discharge, 60 ft³/s, Sept. 30, gage height, -0.38 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	184	609	1,020	3,510	7,250	2,960	1,890	1,720	406	170	85	70
2	139	558	1,580	2,880	6,850	2,580	1,720	1,530	391	168	83	70
3	104	518	11,200	2,940	9,990	2,140	1,610	1,460	422	163	83	71
4	105	487	17,200	7,100	6,510	1,870	1,540	1,450	419	159	80	70
5	134	459	8,350	8,910	4,670	1,670	1,470	1,460	381	159	80	68
6	126	435	6,050	6,840	3,800	1,520	1,480	1,500	371	156	78	66
7	105	414	5,170	5,370	3,830	1,410	1,430	1,390	366	148	78	65
8	95	395	3,980	8,790	3,910	1,400	1,330	1,260	349	138	78	66
9	98	382	3,210	10,100	3,470	1,360	1,250	1,140	335	130	78	67
10	803	588	2,690	11,900	3,320	1,360	1,190	1,070	325	125	78	66
11	783	954	2,280	13,700	3,290	1,760	1,140	1,030	311	119	76	66
12	367	1,500	1,950	9,920	3,370	1,570	1,210	981	297	114	74	67
13	234	4,740	1,710	8,220	3,400	1,930	1,430	915	282	113	72	67
14	178	2,570	1,530	6,020	3,010	3,250	1,420	925	271	112	70	67
15	167	2,060	1,470	4,570	2,600	3,980	1,220	1,080	260	112	68	68
16	262	3,070	1,440	3,650	2,430	3,180	1,050	1,120	252	112	67	68
17	1,020	16,400	3,110	3,050	2,400	2,700	982	998	248	112	66	68
18	2,080	17,500	8,350	2,650	2,320	2,870	1,040	879	242	111	66	68
19	18,800	13,600	10,500	2,350	2,300	4,470	1,030	777	238	106	70	69
20	7,300	7,920	14,300	2,170	2,390	4,640	998	719	231	102	150	70
21	4,220	5,070	7,750	1,970	2,250	4,020	946	659	221	101	283	71
22	2,840	3,650	5,400	1,770	2,640	3,420	1,960	597	216	100	187	72
23	2,100	2,840	5,890	1,610	2,560	3,000	4,620	557	212	100	124	70
24	1,640	2,320	8,950	1,500	2,400	3,010	3,230	532	208	96	102	68
25	1,350	1,950	5,940	1,390	2,800	2,740	2,710	511	200	93	96	66
26	1,150	1,680	4,390	1,420	2,680	2,970	2,390	493	195	93	90	65
27	1,010	1,540	3,600	2,400	2,380	3,050	2,380	477	186	91	87	65
28	897	1,320	4,160	2,850	2,180	2,870	2,230	478	179	90	82	65
29	807	1,200	5,830	2,710	2,200	2,790	2,230	467	177	90	78	62
30	744	1,090	6,310	2,670	---	2,430	2,070	435	174	86	75	62
31	667	---	4,480	7,940	---	2,120	---	415	---	86	71	---
Total	50,509	97,819	169,790	152,870	103,200	81,040	51,196	29,025	8,365	3,655	2,855	2,023
Mean	1,629	3,261	5,477	4,931	3,559	2,614	1,707	936	279	118	92.1	67.4
Max	18,800	17,500	17,200	13,700	9,990	4,640	4,620	1,720	422	170	283	72
Min	95	382	1,020	1,390	2,180	1,360	946	415	174	86	66	62
Ac-ft	100,200	194,000	336,800	303,200	204,700	160,700	101,500	57,570	16,590	7,250	5,660	4,010
Cfsm	6.01	12.0	20.2	18.2	13.1	9.65	6.30	3.45	1.03	0.44	0.34	0.25
In.	6.93	13.43	23.31	20.98	14.17	11.12	7.03	3.98	1.15	0.50	0.39	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	543	3,144	5,406	5,210	4,449	3,730	2,400	1,181	579	195	116	172
Max	2,540	10,230	13,350	13,150	11,500	7,041	6,956	3,495	2,121	442	310	1,531
(WY)	(1982)	(1974)	(1997)	(1970)	(1986)	(1989)	(1982)	(1996)	(1993)	(1983)	(1983)	(1978)
Min	48.3	107	121	479	619	859	674	430	221	118	69.1	54.9
(WY)	(1988)	(1994)	(1977)	(1977)	(1977)	(1988)	(1977)	(1973)	(1992)	(2008)	(1987)	(1987)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1970 - 2008	
Annual total	700,529		752,347			
Annual mean	1,919		2,056		2,251	
Highest annual mean					3,911	1982
Lowest annual mean					549	1977
Highest daily mean	18,800	Oct 19	18,800	Oct 19	57,000	Nov 19, 1996
Lowest daily mean	65	Sep 27	62	Sep 29	44	Oct 22, 1991
Annual seven-day minimum	67	Sep 22	65	Sep 24	46	Oct 19, 1974
Annual runoff (ac-ft)	1,389,000		1,492,000		1,631,000	
Annual runoff (cfsm)	7.08		7.59		8.31	
Annual runoff (inches)	96.16		103.27		112.88	
10 percent exceeds	5,010		5,230		5,960	
50 percent exceeds	897		1,080		790	
90 percent exceeds	91		72		83	

