

Water-Data Report 2012

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 fair. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--43 years (water years 1970-2012), 2,263 ft³/s, 113.45 in/yr, 1,639,000 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)
Dec 30	1000	24,900	14.27
Jan 19	1345	*53,700	*22.18
Mar 15	2230	25,800	14.53
Mar 21	2100	27,400	14.97
Mar 30	1045	41,400	18.76

Minimum discharge, 50 ft³/s, Sept. 30, gage height, -0.82 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	81	119	1,780	5,650	3,060	2,610	15,700	2,670	422	529	174	101
2	180	114	1,600	3,960	2,710	2,470	11,700	2,330	389	461	168	98
3	493	125	1,460	3,110	2,220	2,190	9,020	3,680	368	432	162	94
4	404	137	1,350	2,550	1,860	2,250	8,010	4,370	566	403	157	92
5	1,370	177	1,270	2,210	1,600	2,390	6,550	3,430	560	383	154	89
6	963	1,830	1,190	1,900	1,410	2,570	5,380	2,900	546	369	154	86
7	533	1,130	1,130	1,710	1,270	2,200	4,470	2,520	532	357	150	85
8	339	688	1,080	1,570	1,190	1,910	3,850	2,200	559	342	148	86
9	249	520	1,030	1,460	1,080	1,780	3,430	1,950	598	328	142	86
10	533	440	985	1,380	1,230	1,760	3,150	1,740	553	318	139	86
11	1,340	392	954	1,300	1,530	2,490	3,030	1,580	502	299	132	85
12	927	345	924	1,240	1,340	2,680	3,480	1,450	462	283	129	82
13	597	308	895	1,180	1,400	7,110	3,790	1,330	437	276	125	80
14	433	283	873	1,130	1,310	5,690	3,390	1,240	404	262	122	79
15	345	272	956	1,100	1,270	16,600	3,080	1,170	378	254	114	78
16	288	353	872	1,080	1,170	21,500	3,320	1,090	359	244	114	78
17	249	1,700	832	1,160	1,130	14,200	4,100	1,020	339	245	112	76
18	221	3,130	803	9,100	1,210	9,170	4,170	954	315	273	113	75
19	202	2,770	779	41,600	1,170	6,570	6,910	902	302	283	108	76
20	188	2,290	755	23,700	1,280	6,840	6,440	855	288	283	108	78
21	177	2,060	733	21,900	1,460	19,000	5,070	869	278	266	107	79
22	167	14,600	713	14,100	1,420	18,200	4,150	935	344	240	107	80
23	159	12,700	694	12,400	1,330	10,400	3,530	865	490	226	104	79
24	151	9,120	679	8,270	1,260	7,410	3,030	797	401	210	101	75
25	143	6,430	688	11,000	1,430	5,750	2,830	770	392	207	97	71
26	138	4,620	697	10,800	1,330	4,670	5,170	698	742	204	99	66
27	135	3,470	675	7,440	1,270	5,550	4,800	635	768	198	109	63
28	131	2,830	1,880	5,030	1,320	9,720	4,020	580	611	193	116	59
29	128	2,370	7,570	3,650	1,990	13,200	3,410	537	537	191	111	56
30	127	2,020	19,700	3,040	---	34,300	3,020	493	515	187	105	52
31	125	---	10,100	2,490	---	21,200	---	454	---	180	101	---
Total	11,516	77,343	65,647	208,210	43,250	264,380	152,000	47,014	13,957	8,926	3,882	2,370
Mean	371	2,578	2,118	6,716	1,491	8,528	5,067	1,517	465	288	125	79.0
Max	1,370	14,600	19,700	41,600	3,060	34,300	15,700	4,370	768	529	174	101
Min	81	114	675	1,080	1,080	1,760	2,830	454	278	180	97	52
Ac-ft	22,840	153,400	130,200	413,000	85,790	524,400	301,500	93,250	27,680	17,700	7,700	4,700
Cfsm	1.37	9.51	7.81	24.8	5.50	31.5	18.7	5.60	1.72	1.06	0.46	0.29
In.	1.58	10.62	9.01	28.58	5.94	36.29	20.86	6.45	1.92	1.23	0.53	0.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	533	3,077	5,315	5,182	4,319	3,950	2,510	1,244	635	202	117	166
Max	2,540	10,230	13,350	13,150	11,500	8,528	6,956	3,495	2,966	442	310	1,531
(WY)	(1982)	(1974)	(1997)	(1970)	(1986)	(2012)	(1982)	(1996)	(2010)	(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 2011		Water Year 2012		Water Years 1970 - 2012	
Annual total	794,928		898,495			
Annual mean	2,178		2,455		2,263	
Highest annual mean					3,911	1982
Lowest annual mean					549	1977
Highest daily mean	19,700	Dec 30	41,600	Jan 19	57,000	Nov 19, 1996
Lowest daily mean	73	Sep 24	52	Sep 30	44	Oct 22, 1991
Annual seven-day minimum	76	Sep 18	63	Sep 24	46	Oct 19, 1974
Annual runoff (ac-ft)	1,577,000		1,782,000		1,639,000	
Annual runoff (cfsm)	8.04		9.06		8.35	
Annual runoff (inches)	109.12		123.34		113.45	
10 percent exceeds	6,490		6,560		6,000	
50 percent exceeds	1,090		860		812	
90 percent exceeds	119		105		84	

