



Water-Data Report 2007

14321000 UMPQUA RIVER NEAR ELKTON, OR

Southern Oregon Coastal Basin
Umpqua Subbasin

LOCATION.--Lat 43°35'10", long 123°33'15" referenced to North American Datum of 1927, in NW ¼ sec.8, T.23 S., R.7 W., Douglas County, OR, Hydrologic Unit 17100303, on left bank, 3.5 mi south of Elkton, 8.3 mi upstream from Elk Creek and at mile 56.9.

DRAINAGE AREA.--3,683 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1905 to current year.

REVISED RECORDS.--WSP 1184: 1927(M), 1938(M), 1943(M), 1946(M). WSP 1448: 1911-13, drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 90.42 ft above NGVD of 1929. Prior to June 29, 1972, at site 2,400 ft downstream at same datum. See WSP 1931 or 2135 for history of changes prior to June 29, 1972.

REMARKS.--No estimated daily discharges. Records good. Regulation by powerplants on North Umpqua River ordinarily does not affect discharge at this station. Diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--102 years (water years 1906-2007), 7,365 ft³/s, 27.17 in/yr, 5,336,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 265,000 ft³/s Dec. 23, 1964, gage height, 51.95 ft, from floodmarks; minimum discharge observed, 640 ft³/s July 18, 1926.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least December 1861, 51.95 ft Dec. 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 52,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 15	0030	62,600	21.55
Dec 26	1400	*95,600	*27.73
Jan 4	1030	55,500	20.10

Minimum discharge, 1,040 ft³/s, Aug. 19, gage height, 2.78 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,180	1,320	8,040	11,900	4,440	18,900	7,970	5,420	2,260	1,550	1,210	1,120
2	1,200	1,360	9,440	9,960	4,240	17,500	7,340	5,310	2,220	1,550	1,200	1,120
3	1,210	1,440	8,270	16,200	3,980	22,200	6,700	5,540	2,190	1,530	1,180	1,120
4	1,230	1,490	6,980	49,400	3,780	24,100	6,120	6,010	2,140	1,480	1,180	1,140
5	1,240	1,900	6,210	35,000	3,620	24,700	5,620	5,960	2,110	1,440	1,170	1,160
6	1,240	2,940	5,910	28,800	3,660	23,100	5,270	5,530	2,150	1,410	1,160	1,190
7	1,240	3,880	6,060	30,400	4,000	20,400	5,110	5,030	2,500	1,380	1,160	1,170
8	1,240	4,430	6,120	23,300	4,310	19,100	5,340	4,710	2,720	1,350	1,150	1,160
9	1,240	5,970	5,910	20,600	5,160	16,900	5,500	4,560	2,540	1,330	1,140	1,160
10	1,240	4,960	5,960	19,100	5,930	15,800	5,820	4,510	2,360	1,320	1,120	1,170
11	1,250	4,620	6,090	17,900	6,260	14,500	6,270	4,460	2,340	1,310	1,110	1,150
12	1,250	5,220	6,860	14,900	9,300	14,700	6,640	4,320	2,390	1,290	1,100	1,130
13	1,250	5,100	15,700	12,300	9,810	15,600	7,200	4,110	2,320	1,300	1,100	1,120
14	1,270	9,280	46,000	10,500	9,110	14,400	7,290	3,950	2,150	1,320	1,100	1,110
15	1,280	10,900	53,600	9,240	9,150	12,300	7,690	3,750	2,040	1,290	1,100	1,110
16	1,340	7,000	34,200	8,320	27,500	10,400	8,220	3,620	1,950	1,310	1,090	1,110
17	1,470	8,660	20,700	7,830	30,000	9,240	7,690	3,450	1,860	1,300	1,080	1,110
18	1,990	6,940	14,200	7,350	20,600	8,990	7,680	3,300	1,820	1,340	1,060	1,110
19	1,870	5,080	10,800	6,790	16,000	8,830	8,570	3,220	1,800	1,380	1,110	1,120
20	1,660	4,480	8,980	6,550	13,300	8,940	9,040	3,130	1,760	1,520	1,210	1,120
21	1,500	9,030	8,400	6,640	13,500	9,670	8,340	3,090	1,720	1,580	1,320	1,120
22	1,420	11,800	10,500	6,490	15,000	8,840	8,610	3,180	1,680	1,500	1,300	1,110
23	1,390	19,500	10,700	6,150	16,000	7,830	11,100	3,110	1,630	1,410	1,260	1,110
24	1,370	17,900	12,000	5,820	15,200	7,140	10,600	2,950	1,600	1,340	1,270	1,100
25	1,360	14,800	23,800	5,690	22,100	6,850	9,160	2,750	1,580	1,310	1,220	1,100
26	1,340	13,200	85,900	5,700	32,200	8,420	8,060	2,640	1,590	1,280	1,180	1,100
27	1,330	17,000	72,400	5,580	23,800	9,890	7,180	2,570	1,570	1,250	1,160	1,100
28	1,330	17,100	41,500	5,380	19,800	11,500	6,470	2,510	1,560	1,250	1,150	1,120
29	1,340	11,900	25,700	5,150	---	11,000	5,980	2,480	1,540	1,250	1,140	1,130
30	1,340	8,720	18,400	4,870	---	9,620	5,660	2,450	1,550	1,230	1,130	1,210
31	1,330	---	14,400	4,630	---	8,740	---	2,330	---	1,220	1,120	---
Total	41,940	237,920	609,730	408,440	351,750	420,100	218,240	119,950	59,640	42,320	35,980	33,900
Mean	1,353	7,931	19,670	13,180	12,560	13,550	7,275	3,869	1,988	1,365	1,161	1,130
Max	1,990	19,500	85,900	49,400	32,200	24,700	11,100	6,010	2,720	1,580	1,320	1,210
Min	1,180	1,320	5,910	4,630	3,620	6,850	5,110	2,330	1,540	1,220	1,060	1,100
Ac-ft	83,190	471,900	1,209,000	810,100	697,700	833,300	432,900	237,900	118,300	83,940	71,370	67,240
Cfsm	0.37	2.15	5.34	3.58	3.41	3.68	1.98	1.05	0.54	0.37	0.32	0.31
In.	0.42	2.40	6.16	4.13	3.55	4.24	2.20	1.21	0.60	0.43	0.36	0.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1906 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,841	6,870	13,540	15,940	14,790	12,060	9,489	6,476	3,696	1,707	1,173	1,194
Max	14,200	29,500	51,220	37,590	32,800	27,100	20,480	15,800	9,526	5,063	1,867	3,475
(WY)	(1951)	(1974)	(1965)	(2006)	(1907)	(1972)	(1937)	(1921)	(1953)	(1913)	(1976)	(1920)
Min	857	832	1,238	1,440	1,365	2,909	2,432	1,934	1,053	742	703	740
(WY)	(1930)	(1930)	(1977)	(1977)	(1977)	(1992)	(1926)	(1934)	(1926)	(1926)	(1931)	(1931)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1906 - 2007	
Annual total	3,557,160		2,579,910			
Annual mean	9,746		7,068		7,365	
Highest annual mean					13,360	1974
Lowest annual mean					2,321	1977
Highest daily mean	105,000	Jan 1	85,900	Dec 26	260,000	Dec 23, 1964
Lowest daily mean	1,110	Sep 17	1,060	Aug 18	663	Sep 1, 1931
Annual seven-day minimum	1,120	Sep 8	1,090	Aug 12	663	Sep 1, 1931
Annual runoff (ac-ft)	7,056,000		5,117,000		5,336,000	
Annual runoff (cfsm)	2.65		1.92		2.00	
Annual runoff (inches)	35.93		26.06		27.17	
10 percent exceeds	22,700		17,000		17,100	
50 percent exceeds	5,220		4,000		3,910	
90 percent exceeds	1,230		1,150		1,060	

