

THE GREAT BASIN

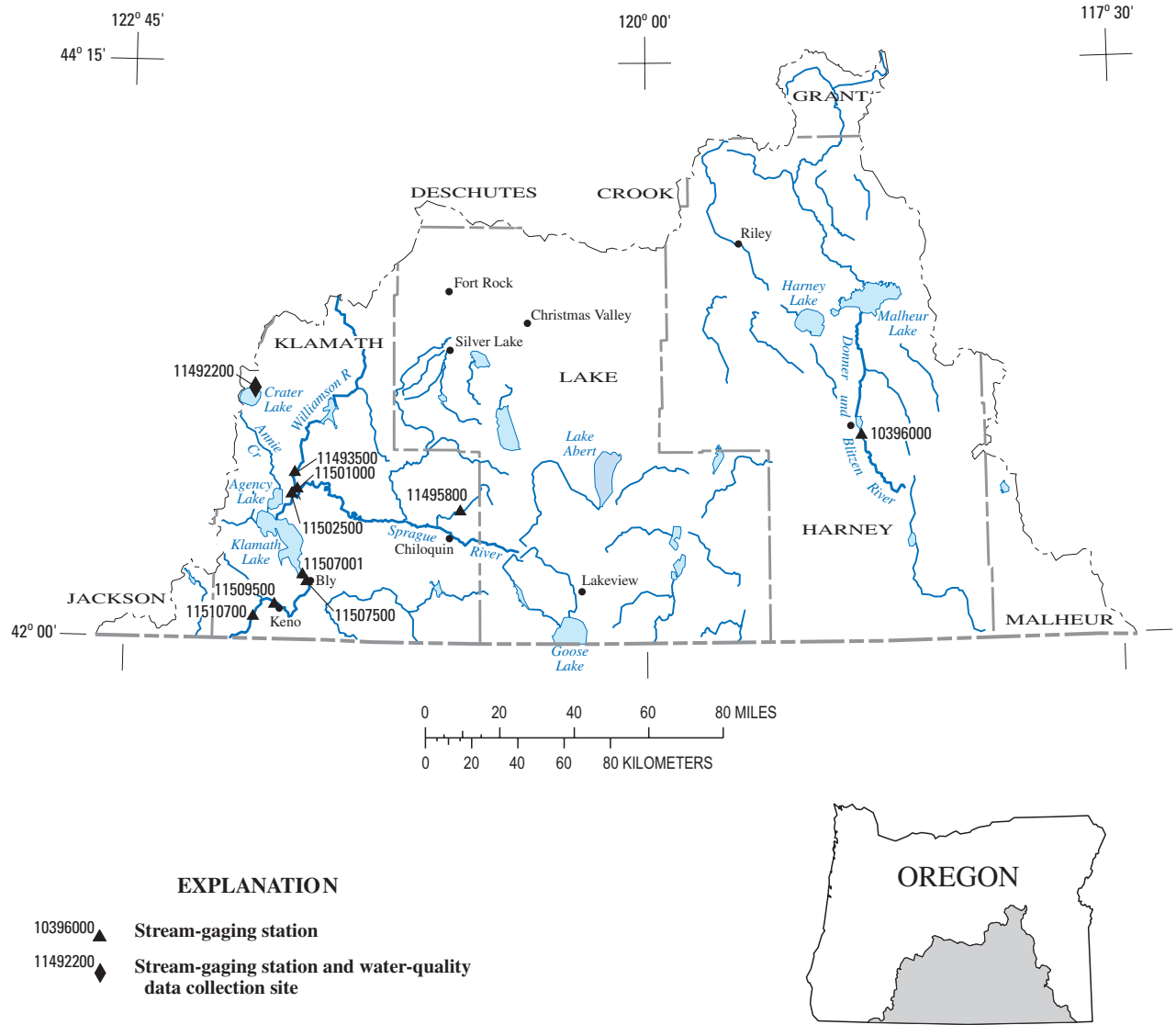


Figure 6. Location of surface-water and water-quality stations in The Great Basin and the Klamath River Basin.

THE GREAT BASIN
MALHEUR AND HARNEY LAKES BASIN

10396000 DONNER UND BLITZEN RIVER NEAR FRENCHGLEN, OR

LOCATION.--(Revised)Lat 42°47'27", long 118°52'03" (NAD 83), in NW ¼ NW ¼ sec.20, T.32 S., R.32-½ E., Harney County, Hydrologic Unit 17120003, Bureau of Land Management land, on left bank 1.5 mi upstream from upper diversions for Malheur National Wildlife Refuge, 2.0 mi downstream from Fish Creek and 3.5 mi southeast of Frenchglen.

DRAINAGE AREA.--200 mi², approximately.

PERIOD OF RECORD.--March 1911 to September 1913, March 1914 to September 1916, April 1917 to September 1921, August to November 1929, April to September 1930, December 1937 to current year. Monthly discharge only for some periods, published in WSP 1314. Published as "near Diamond" 1911-21. Records of discharge for January 1909 to September 1910 (published in WSP 270, 290, and 370, for a nonequivalent site as "near Diamond") have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 330: Drainage area (former site). WSP 860: Drainage area (present site). WSP 1564: 1938-39(M), 1942-43(M), 1948(M), 1951(P), 1952-53. WSP 1714: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 4,254 ft above NGVD of 1929, (levels by Fish and Wildlife Service). Prior to December 1937, nonrecording gage at several sites within 2 mi downstream at different datums. Dec. 6, 1937, to Feb. 14, 1938, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. Periodic water-quality records for the period March 1975 to September 1986 and continuous water-quality records for the period October 1975 to September 1981 have been collected at this location. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--75 years (water years 1912-13, 1915-16, 1918-21, 1939-2005), 126 ft³/s, 91,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,270 ft³/s Apr. 26, 1978, gage height, 7.15 ft, from floodmarks, from rating curve extended above 1,900 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 4.2 ft³/s Dec. 9, 1972, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 6	2200	*4,180	*7.09	May 16	1300	3520	6.65
May 11	1000	1,380	4.85	May 30	0000	1,980	5.39

Minimum discharge, 11 ft³/s, Nov. 29, Jan. 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	36	50	42	38	39	63	191	820	158	50	38
2	36	41	37	41	39	41	59	195	484	165	47	38
3	36	46	31	38	42	41	68	221	391	138	47	37
4	36	41	38	41	41	41	69	245	371	124	46	37
5	35	41	40	45	41	40	73	506	367	120	44	38
6	35	41	43	41	35	42	84	2,210	312	120	43	38
7	35	42	40	42	43	44	107	1,570	278	122	44	37
8	35	43	67	36	33	49	92	582	256	115	45	37
9	35	44	449	41	34	53	93	552	234	110	43	37
10	36	45	218	41	39	57	89	644	222	109	42	39
11	36	47	107	38	40	59	94	1,030	238	99	41	39
12	36	45	69	23	43	61	94	517	235	91	41	40
13	36	44	62	28	40	60	91	420	231	86	41	39
14	35	42	59	45	39	54	88	445	256	80	41	39
15	35	40	53	55	29	53	87	962	279	75	40	39
16	35	42	47	45	29	51	87	2,490	270	74	40	39
17	37	41	56	40	38	49	104	1,200	218	73	40	41
18	39	39	56	38	47	47	103	849	191	66	40	40
19	38	38	56	39	41	50	93	816	172	64	40	40
20	38	32	54	39	39	53	94	660	195	61	39	38
21	38	33	42	38	37	50	91	552	222	59	39	38
22	37	45	51	38	39	51	93	551	235	58	39	38
23	48	44	44	38	39	53	118	566	206	57	39	38
24	42	39	33	39	37	52	130	508	199	54	38	41
25	38	42	45	40	38	49	130	477	188	53	39	40
26	40	40	49	41	39	49	130	458	199	51	38	39
27	43	39	47	43	39	56	161	487	193	50	38	39
28	48	33	48	42	40	83	192	518	198	49	37	39
29	44	18	47	41	---	73	195	849	168	48	37	38
30	48	35	43	41	---	67	191	1,230	160	48	38	38
31	42	---	42	40	---	58	---	694	---	49	39	---
TOTAL	1,188	1,198	2,123	1,239	1,078	1,625	3,163	23,195	7,988	2,626	1,275	1,158
MEAN	38.3	39.9	68.5	40.0	38.5	52.4	105	748	266	84.7	41.1	38.6
MAX	48	47	449	55	47	83	195	2,490	820	165	50	41
MIN	35	18	31	23	29	39	59	191	160	48	37	37
AC-FT	2,360	2,380	4,210	2,460	2,140	3,220	6,270	46,010	15,840	5,210	2,530	2,300

THE GREAT BASIN

MALHEUR AND HARNEY LAKES BASIN—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2005, BY WATER YEAR (WY)												
MEAN	43.5	47.3	54.8	66.4	89.2	150	221	384	284	97.4	47.9	42.3
MAX	86.4	94.3	181	277	310	500	666	826	802	320	113	87.3
(WY)	(1985)	(1985)	(1965)	(1997)	(1921)	(1993)	(1952)	(1998)	(1917)	(1984)	(1984)	(1984)
MIN	24.2	25.3	25.2	25.0	27.8	40.5	61.2	105	44.7	28.9	21.1	22.2
(WY)	(1993)	(1962)	(1960)	(1916)	(1964)	(1977)	(1968)	(1992)	(1992)	(1968)	(1992)	(1992)
SUMMARY STATISTICS												
	FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1912 - 2005			
ANNUAL TOTAL	40,205				47,856							
ANNUAL MEAN	110				131				126			
HIGHEST ANNUAL MEAN									273			
LOWEST ANNUAL MEAN									49.1			
HIGHEST DAILY MEAN	548				Feb 18				2,490			
LOWEST DAILY MEAN	18				Nov 29				18			
ANNUAL SEVEN-DAY MINIMUM	25				Feb 8				35			
ANNUAL RUNOFF (AC-FT)	79,750				94,920				91,360			
10 PERCENT EXCEEDS	257				273				319			
50 PERCENT EXCEEDS	48				45				56			
90 PERCENT EXCEEDS	35				37				32			



2005 Water Year
MALHEUR AND HARNEY LAKES BASIN

10396000 DONNER UND BLITZEN RIVER NEAR FRENCHGLEN, OR

Latitude: 42° 47' 27"

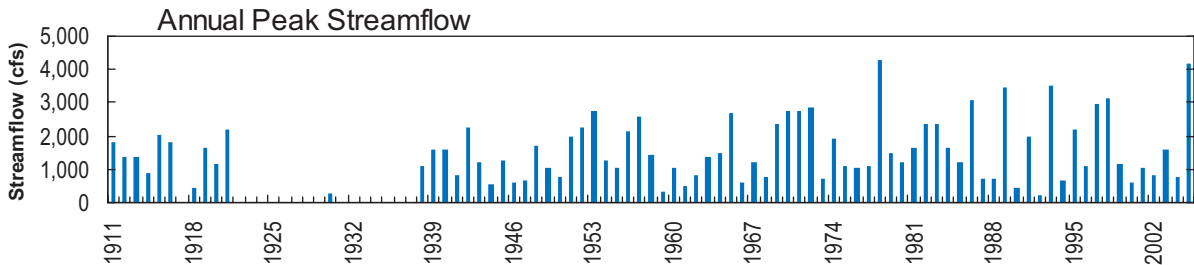
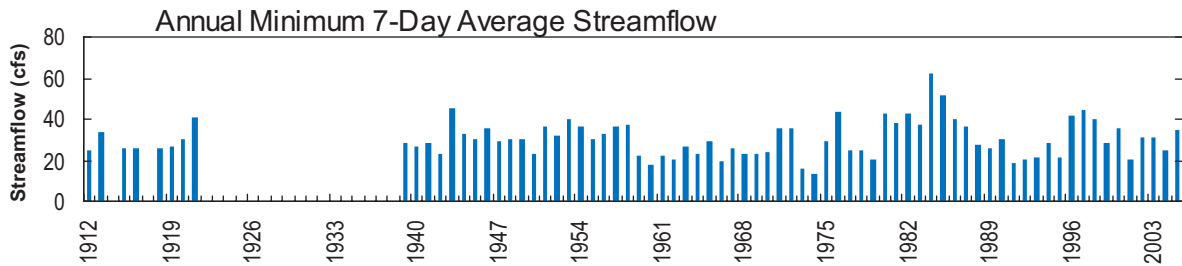
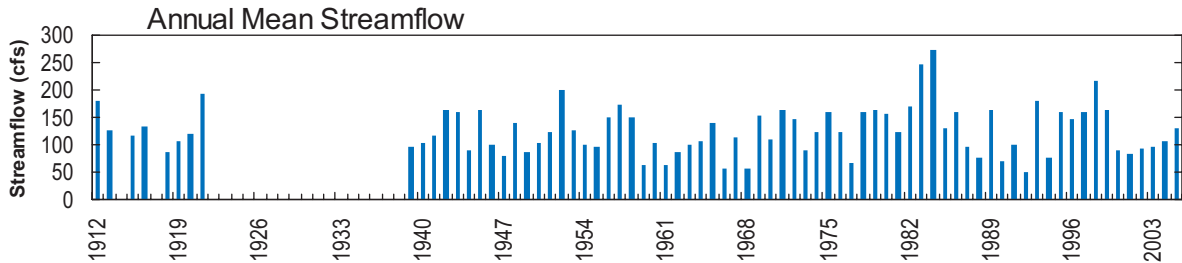
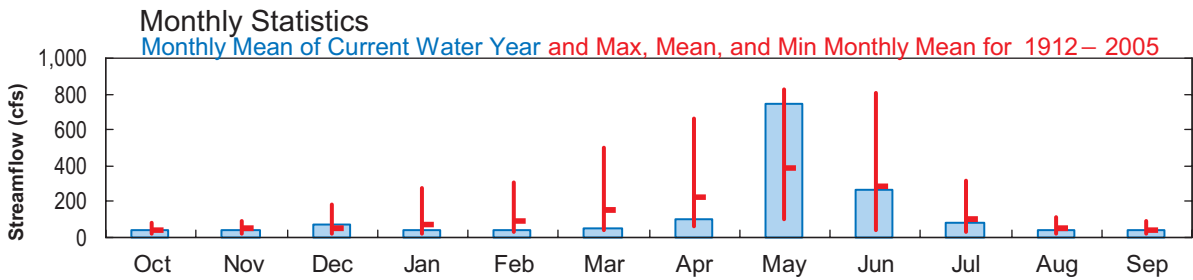
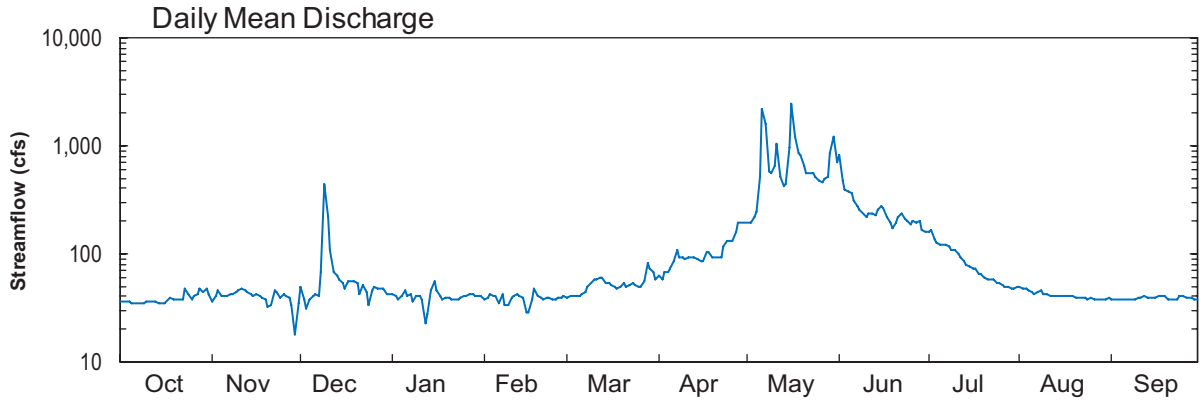
Longitude: 118° 52' 03"

Hydrologic Unit Code: 17120003

Harney County

Datum: 4254.00 feet

Drainage Area: 200 mi²



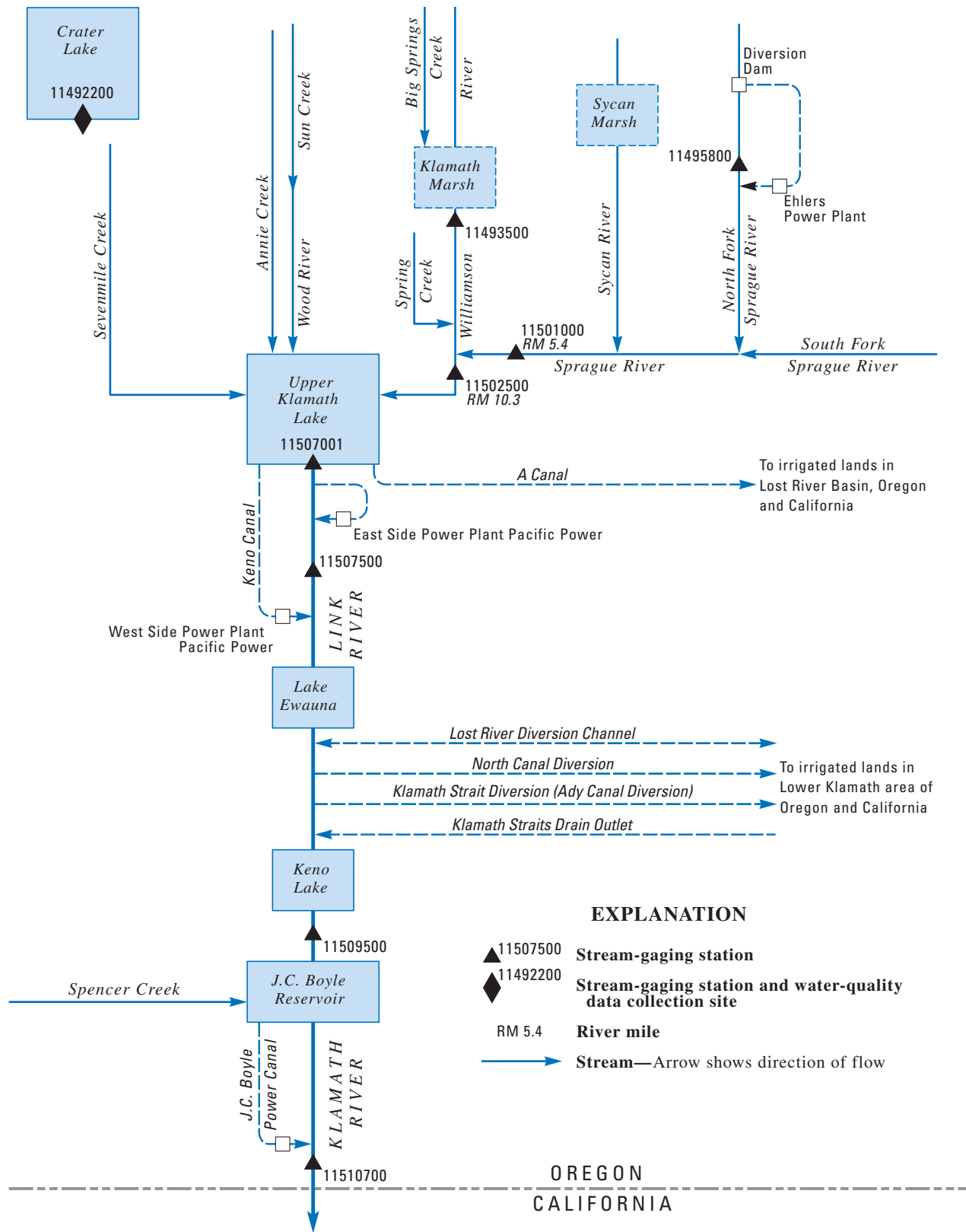


Figure 7. Schematic diagram showing gaging stations and major diversions in the Klamath Basin in Oregon.

KLAMATH RIVER BASIN

11492200 CRATER LAKE NEAR CRATER LAKE, OR

(Hydrologic bench-mark station)

LOCATION.--Lat 42°58'33", long 122°05'17", Crater Lake National Park and Vicinity Quadrangle, Klamath County, Hydrologic Unit 18010201, at boat harbor at end of trail in Cleetwood Cove and 6 mi northeast of Crater Lake post office.

DRAINAGE AREA.--26.2 mi², of which 20.5 mi² is lake area at elevation 6,176 ft.

WATER-ELEVATION RECORDS

PERIOD OF RECORD.--October 1961 to current year. 1878 to September 1961 (fragmentary records) available in files of U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to September 1961, nonrecording gage and various reference points used near old boat landing at abandoned trail (Eagle Cove) directly across Lake.

REMARKS.--Crater Lake occupies the caldera of prehistoric Mount Mazama. It has no visible inlet or outlet. Over a period of years precipitation and runoff from snowmelt on the walls of the crater are offset by seepage and evaporation. Records of accumulated annual precipitation, collected at the north rim of Crater Lake as part of the operation of this station, are published annually in reports of the National Weather Service. U.S. Geological Survey satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6,179.34 ft Mar. 25, 1975; minimum elevation observed, 6,163.2 ft Sept. 10, 1942.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 6,180.5 ft, average of several observations of line of crustose lichens made between 1916 and 1960; that stage may have occurred near the close of the 19th century. The occurrence of living pine trees slightly higher suggests that the lake has not been materially higher for several centuries.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 6,170.61 ft June 6, 18; minimum elevation, 6,168.86 Sept. 30.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,170.24	6,170.15	6,169.74	6,170.43	6,170.29	6,170.00	6,170.15	6,170.22	6,170.58	6,170.49	6,170.08	6,169.41
2	6,170.23	6,170.18	6,169.73	6,170.42	6,170.28	6,169.99	6,170.13	6,170.23	6,170.56	6,170.48	6,170.05	6,169.39
3	6,170.21	6,170.11	6,169.71	6,170.40	6,170.27	6,169.98	6,170.18	6,170.22	6,170.55	6,170.46	6,170.04	6,169.37
4	6,170.20	6,170.11	6,169.69	6,170.38	6,170.26	6,169.96	6,170.17	6,170.24	6,170.54	6,170.45	6,170.02	6,169.33
5	6,170.19	6,170.10	6,169.68	6,170.37	6,170.24	6,169.95	6,170.15	6,170.26	6,170.57	6,170.45	6,170.01	6,169.32
6	6,170.17	6,170.09	6,169.87	6,170.34	6,170.25	6,169.94	6,170.12	6,170.26	6,170.59	6,170.44	6,170.00	6,169.29
7	6,170.15	6,170.08	6,169.92	6,170.42	6,170.23	6,169.93	6,170.19	6,170.26	6,170.58	6,170.44	6,169.98	6,169.28
8	6,170.15	6,170.07	6,170.35	6,170.48	6,170.22	6,169.92	6,170.22	6,170.34	6,170.57	6,170.42	6,169.97	6,169.24
9	6,170.12	6,170.04	6,170.54	6,170.50	6,170.20	6,169.91	6,170.21	6,170.38	6,170.57	6,170.41	6,169.94	6,169.22
10	6,170.10	6,170.02	6,170.53	6,170.48	6,170.19	6,169.90	6,170.21	6,170.39	6,170.56	6,170.41	6,169.92	6,169.21
11	6,170.09	6,170.01	6,170.51	6,170.45	6,170.17	6,169.89	6,170.24	6,170.38	6,170.55	6,170.39	6,169.89	6,169.18
12	6,170.07	6,170.00	6,170.48	6,170.42	6,170.18	6,169.87	6,170.22	6,170.37	6,170.54	6,170.37	6,169.85	6,169.16
13	6,170.04	6,169.99	6,170.50	6,170.40	6,170.17	6,169.84	6,170.23	6,170.38	6,170.53	6,170.36	6,169.84	6,169.14
14	6,170.03	6,169.98	6,170.50	6,170.39	6,170.15	6,169.83	6,170.22	6,170.39	6,170.52	6,170.35	6,169.81	6,169.13
15	6,170.02	6,169.97	6,170.49	6,170.41	6,170.13	6,169.81	6,170.20	6,170.45	6,170.51	6,170.34	6,169.79	6,169.11
16	6,170.00	6,169.95	6,170.48	6,170.41	6,170.12	6,169.79	6,170.25	6,170.49	6,170.54	6,170.33	6,169.78	6,169.10
17	6,170.08	6,169.93	6,170.48	6,170.41	6,170.09	6,169.77	6,170.26	6,170.49	6,170.57	6,170.32	6,169.75	6,169.09
18	6,170.05	6,169.92	6,170.46	6,170.41	6,170.09	6,169.76	6,170.25	6,170.58	6,170.60	6,170.31	6,169.72	6,169.07
19	6,170.13	6,169.89	6,170.45	6,170.40	6,170.09	6,169.82	6,170.24	6,170.58	6,170.59	6,170.28	6,169.70	---
20	6,170.15	6,169.86	6,170.43	6,170.39	6,170.10	6,169.86	6,170.23	6,170.59	6,170.58	6,170.26	6,169.68	---
21	6,170.14	6,169.85	6,170.41	6,170.38	6,170.08	6,169.84	6,170.22	6,170.59	6,170.57	6,170.25	6,169.67	---
22	6,170.19	6,169.84	6,170.40	6,170.37	6,170.07	6,169.87	6,170.21	6,170.57	6,170.57	6,170.23	6,169.65	---
23	6,170.22	6,169.82	6,170.38	6,170.35	6,170.05	6,169.90	6,170.22	6,170.55	6,170.56	6,170.22	6,169.63	---
24	6,170.20	6,169.81	6,170.36	6,170.34	6,170.04	6,169.89	6,170.22	6,170.55	6,170.55	6,170.21	6,169.60	---
25	6,170.23	6,169.84	6,170.33	6,170.32	6,170.03	6,169.87	6,170.21	6,170.54	6,170.54	6,170.18	6,169.59	---
26	6,170.23	6,169.83	6,170.39	6,170.34	6,170.00	6,169.93	6,170.20	6,170.54	6,170.54	6,170.17	6,169.56	---
27	6,170.22	6,169.81	6,170.35	6,170.29	6,170.00	6,170.06	6,170.22	6,170.54	6,170.53	6,170.15	6,169.54	---
28	6,170.21	6,169.79	6,170.37	6,170.35	6,170.00	6,170.15	6,170.23	6,170.55	6,170.52	6,170.14	6,169.52	---
29	6,170.19	6,169.78	6,170.36	6,170.33	---	6,170.22	6,170.22	6,170.58	6,170.51	6,170.12	6,169.48	6,168.87
30	6,170.20	6,169.76	6,170.37	6,170.32	---	6,170.18	6,170.22	6,170.58	6,170.50	6,170.11	6,169.44	6,168.88
31	6,170.16	---	6,170.41	6,170.30	---	6,170.17	---	6,170.58	---	6,170.09	6,169.42	---
MAX	6,170.24	6,170.18	6,170.54	6,170.50	6,170.29	6,170.22	6,170.26	6,170.59	6,170.60	6,170.49	6,170.08	---
MIN	6,170.00	6,169.76	6,169.68	6,170.29	6,170.00	6,169.76	6,170.12	6,170.22	6,170.50	6,170.09	6,169.42	---
CAL YR2004	MAX	6,171.54	MIN	6,169.68								

KLAMATH RIVER BASIN

11493500 WILLIAMSON RIVER NEAR KLAMATH AGENCY, OR

LOCATION.--Lat 42°44'25", long 121°50'00", in NW ¼ SW ¼ sec.1, T.33 S., R.7 E., Klamath County, Hydrologic Unit 18010201, on right bank 250 ft downstream from highway bridge, 0.6 mi southwest of railroad station at Kirk, 10 mi upstream from Spring Creek and 10 mi northeast of Klamath Agency.

DRAINAGE AREA.--1,290 mi², approximately.

PERIOD OF RECORD.--March 1908 to January 1909, April 1909 to June 1910, October 1954 to September 1995, October 1998 to current year. Monthly discharge only June 1910, published in WSP 1315-B.

REVISED RECORDS.--WSP 1565: 1908-9.

GAGE.--Water-stage recorder. Datum of gage is 4,483.16 ft above NGVD of 1929. Mar. 25, 1908 to June 30, 1910, nonrecording gage or water-stage recorder at two sites about 0.5 mi upstream at different datums. Oct. 1, 1954 to Sept. 30, 1955, water-stage recorder at present site at datum 2.05 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow affected by natural storage in Klamath Marsh. Small diversions upstream from station for irrigation in vicinity of marsh.

AVERAGE DISCHARGE.--48 years (water years 1955-95, 1999-2005), 175 ft³/s, 126,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 1,590 ft³/s Mar. 13, 1910, gage height, 3.7 ft, site and datum then in use, from rating curve extended above 800 ft³/s; maximum gage height, 5.75 ft Mar. 3, 1958; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 169 ft³/s Mar. 30, 31, gage height, 3.92 ft; minimum discharge, no flow during all or part of the day Oct. 1 to Feb. 23, July 7 to Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.00	0.00	30	158	33	52	2.2	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	40	159	33	54	2.0	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	48	156	33	52	1.9	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	58	153	32	48	1.7	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	69	133	35	37	0.86	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	79	98	33	29	0.42	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	89	79	32	47	0.18	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	99	73	35	50	0.03	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	106	67	40	49	0.03	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	118	57	42	48	0.05	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	127	50	46	45	0.06	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	139	44	44	44	0.07	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	146	41	43	42	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	149	40	43	35	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	152	38	44	29	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	141	36	39	23	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	141	35	36	19	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	149	38	38	18	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	149	39	40	16	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	142	34	41	13	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	153	35	53	10	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	165	34	55	7.5	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	1.3	162	32	56	6.7	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	1.8	160	33	54	5.2	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	2.7	160	33	47	4.4	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	5.8	158	33	44	3.3	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	12	152	32	49	2.9	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	20	157	36	47	3.4	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	159	33	50	3.2	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	166	34	53	2.6	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	166	---	53	---	0.00	0.00	---
TOTAL	0.00	0.00	0.00	0.00	43.60	3,929	1,863	1,323	799.2	9.50	0.00	0.00
MEAN	0.00	0.00	0.00	0.00	1.56	127	62.1	42.7	26.6	0.31	0.00	0.00
MAX	0.00	0.00	0.00	0.00	20	166	159	56	54	2.2	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	30	32	32	2.6	0.00	0.00	0.00
AC-FT	0.00	0.00	0.00	0.00	86	7,790	3,700	2,620	1,590	19	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2005, BY WATER YEAR (WY)

MEAN	38.6	110	204	213	281	414	422	245	115	41.1	13.4	11.8
MAX	255	391	580	730	799	1,039	1,081	952	531	332	146	95.8
(WY)	(1958)	(1957)	(1956)	(1956)	(1965)	(1986)	(1956)	(1956)	(1956)	(1958)	(1958)	(1958)
MIN	0.00	0.00	0.00	0.00	0.00	58.6	22.3	7.35	0.00	0.00	0.00	0.00
(WY)	(1962)	(1965)	(1991)	(1992)	(1993)	(1994)	(1992)	(1992)	(1992)	(1981)	(1961)	(1960)

KLAMATH RIVER BASIN

11493500 WILLIAMSON RIVER NEAR KLAMATH AGENCY, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1955 - 2005	
ANNUAL TOTAL	17,875.35		7,967.30			
ANNUAL MEAN	48.8		21.8		175	
HIGHEST ANNUAL MEAN					468	1956
LOWEST ANNUAL MEAN					7.84	1992
HIGHEST DAILY MEAN	274	Mar 22	166	Mar 30	1,250	Mar 1, 1958
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Jul 23, 1960
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Jul 23, 1960
ANNUAL RUNOFF (AC-FT)	35,460		15,800		126,800	
10 PERCENT EXCEEDS	218		62		468	
50 PERCENT EXCEEDS	0.00		0.00		98	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

KLAMATH RIVER BASIN

11493500 WILLIAMSON RIVER NEAR KLAMATH AGENCY, OR—Continued



2005 Water Year
KLAMATH RIVER BASIN

11493500 WILLIAMSON RIVER NEAR KLAMATH AGENCY, OR

Latitude: 42° 44' 25"

Longitude: 121° 50' 00"

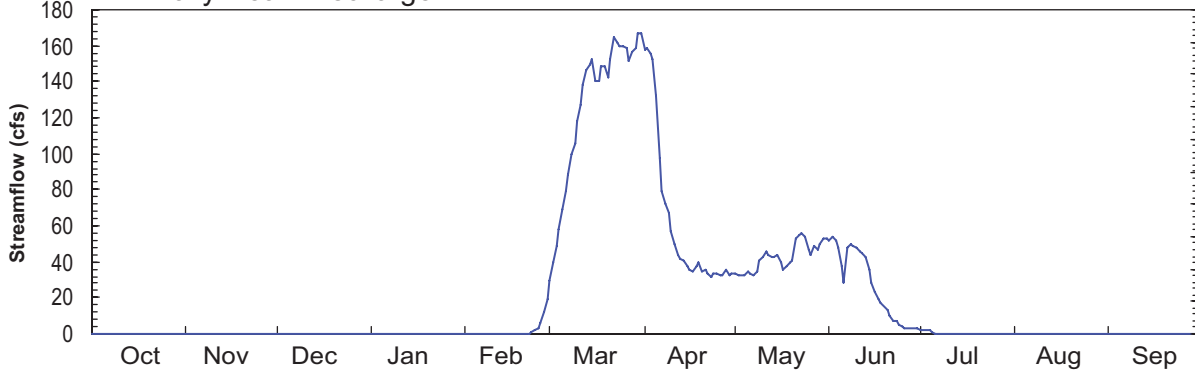
Hydrologic Unit Code: 18010201

Klamath County

Datum: 4483.16 feet

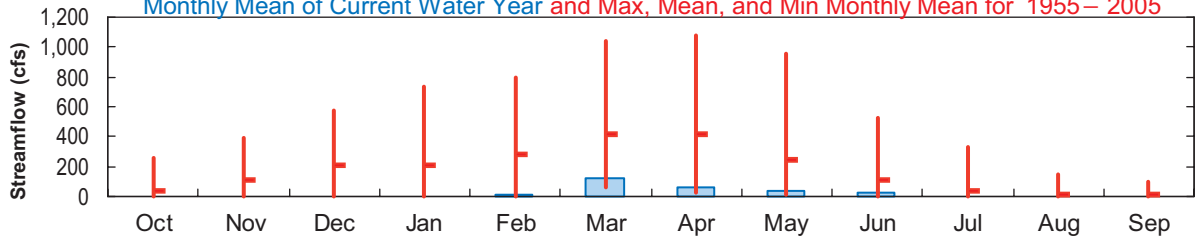
Drainage Area: 1290 mi²

Daily Mean Discharge

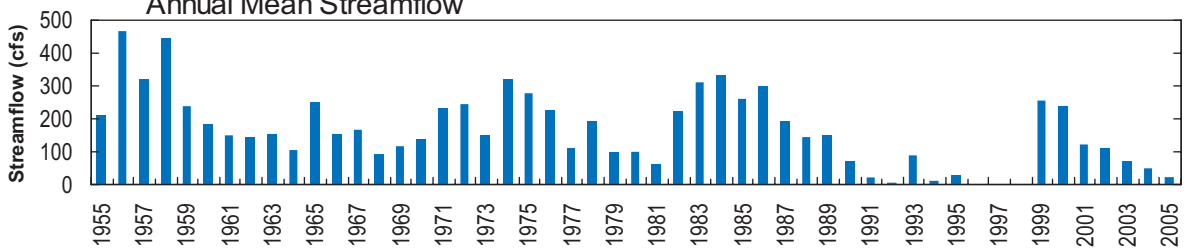


Monthly Statistics

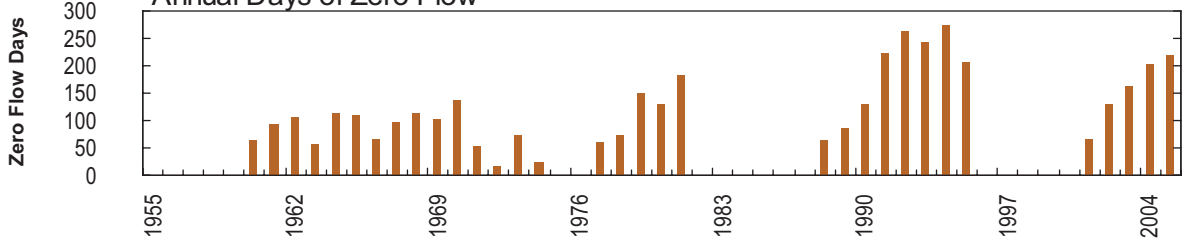
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1955–2005



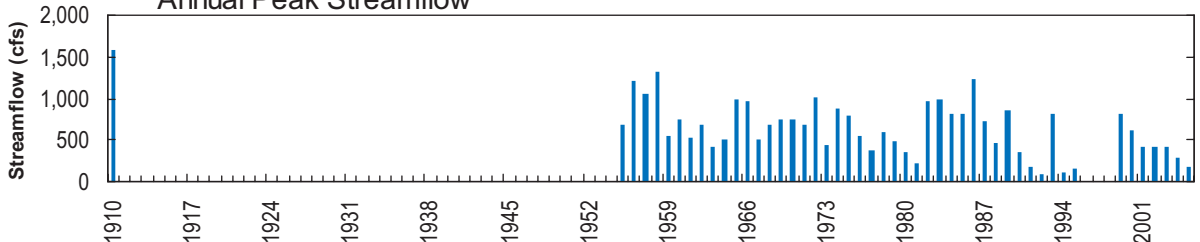
Annual Mean Streamflow



Annual Days of Zero Flow



Annual Peak Streamflow



KLAMATH RIVER BASIN

11495800 NORTH FORK SPRAGUE RIVER AT POWERPLANT, NEAR BLY, OR

LOCATION.--Lat 42°30'06", long 120°59'13", in SW ¼ SE ¼ sec.30, T.35 S., R.15 E., Klamath County, Hydrologic Unit 18010202, at powerplant 0.1 mi upstream from Yaden Creek and 7.6 mi northeast of Bly.

DRAINAGE AREA.--77.7 mi².

PERIOD OF RECORD.--May 1993 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 4,750 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. All records given herein do not include flow diverted through powerplant.

AVERAGE DISCHARGE.--12 years (water years 1994-2005), 67.1 ft³/s, 48,590 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,180 ft³/s Apr. 24, 1996, gage height, 7.12 ft; minimum discharge, 12 ft³/s Dec. 10, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 579 ft³/s May 16, 18, gage height, 6.63 ft; minimum discharge, 21 ft³/s Mar. 14, 18, 20, 26, July 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	36	35	36	35	34	33	242	234	36	40	26
2	33	36	34	34	35	34	33	245	169	36	38	26
3	33	39	34	36	36	34	34	229	104	36	39	26
4	34	36	33	37	36	36	34	318	169	35	39	26
5	34	37	34	37	36	36	34	296	82	35	38	29
6	34	37	35	36	34	37	36	301	126	36	38	33
7	34	37	32	36	35	38	38	285	93	35	37	29
8	34	38	33	35	35	41	32	279	119	36	37	26
9	38	38	46	33	34	39	34	306	74	36	33	26
10	36	37	50	33	31	32	34	286	138	35	27	26
11	35	37	54	34	28	33	35	305	128	36	26	26
12	35	37	49	35	33	33	35	264	118	36	26	26
13	34	37	47	35	34	33	50	241	70	35	26	26
14	34	37	48	35	33	29	58	212	36	34	26	26
15	34	36	46	35	33	33	48	379	35	35	27	26
16	34	37	43	36	31	32	82	449	50	34	29	26
17	36	36	41	36	31	28	74	429	38	34	35	26
18	38	36	41	36	33	26	107	485	35	34	35	26
19	38	34	40	36	34	32	66	419	35	34	33	26
20	37	32	39	36	34	29	33	386	34	34	26	26
21	37	32	37	35	33	31	34	337	32	34	26	26
22	36	34	37	34	34	32	40	315	29	34	26	26
23	44	34	36	34	33	32	98	298	27	32	26	26
24	38	36	36	34	33	31	105	272	42	33	26	26
25	36	36	36	36	34	31	65	267	75	33	26	26
26	39	34	36	37	34	26	81	247	55	32	26	26
27	36	33	36	39	34	33	137	235	41	37	26	26
28	38	31	37	38	34	34	245	240	35	33	26	26
29	38	32	36	37	---	33	223	208	36	41	26	26
30	37	33	36	36	---	32	245	188	36	34	26	27
31	36	---	35	36	---	32	---	166	---	40	26	---
TOTAL	1,113	1,065	1,212	1,103	940	1,016	2,203	9,129	2,295	1,085	941	794
MEAN	35.9	35.5	39.1	35.6	33.6	32.8	73.4	294	76.5	35.0	30.4	26.5
MAX	44	39	54	39	36	41	245	485	234	41	40	33
MIN	33	31	32	33	28	26	32	166	27	32	26	26
AC-FT	2,210	2,110	2,400	2,190	1,860	2,020	4,370	18,110	4,550	2,150	1,870	1,570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

MEAN	36.1	39.3	41.3	50.1	40.4	49.7	130	215	98.5	40.0	31.9	30.9
MAX	51.2	75.7	81.4	211	83.1	91.4	271	425	253	67.2	38.3	43.8
(WY)	(1997)	(1997)	(1996)	(1997)	(1996)	(1998)	(2000)	(1999)	(1998)	(1995)	(1998)	(1995)
MIN	27.5	29.5	29.7	32.4	30.3	32.8	37.7	41.6	33.7	29.6	25.3	23.1
(WY)	(2001)	(1995)	(2000)	(2000)	(1999)	(2005)	(2001)	(2001)	(2002)	(2004)	(2000)	(2000)

KLAMATH RIVER BASIN

11495800 NORTH FORK SPRAGUE RIVER AT POWERPLANT, NEAR BLY, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	16,155		22,896			
ANNUAL MEAN	44.1		62.7		67.1	
HIGHEST ANNUAL MEAN					93.4	1996
LOWEST ANNUAL MEAN					36.8	2001
HIGHEST DAILY MEAN	189	Apr 13	485	May 18	735	Jan 1, 1997
LOWEST DAILY MEAN	26	Feb 21	26	Mar 18	16	Jan 11, 1994
ANNUAL SEVEN-DAY MINIMUM	28	Jul 8	26	Aug 20	22	Sep 23, 2000
ANNUAL RUNOFF (AC-FT)	32,040		45,410		48,590	
10 PERCENT EXCEEDS	81		167		161	
50 PERCENT EXCEEDS	36		35		36	
90 PERCENT EXCEEDS	31		26		29	

KLAMATH RIVER BASIN

11495800 NORTH FORK SPRAGUE RIVER AT POWERPLANT, NEAR BLY, OR—Continued



2005 Water Year
KLAMATH RIVER BASIN

11495800 N FORK SPRAGUE RIVER AT POWER PLANT, NEAR BLY, OR

Latitude: 42°30'06"

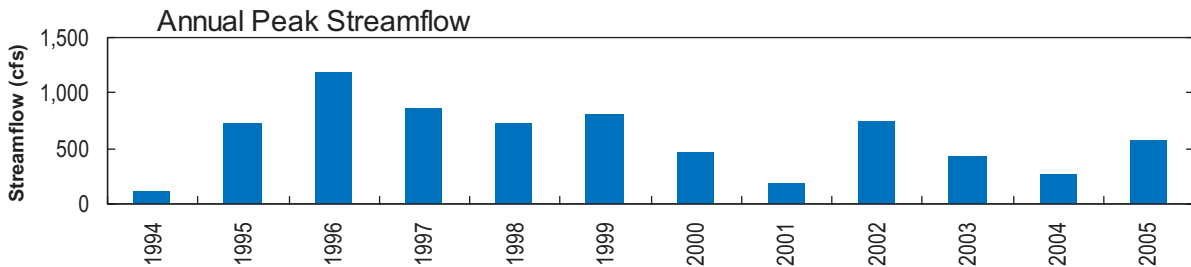
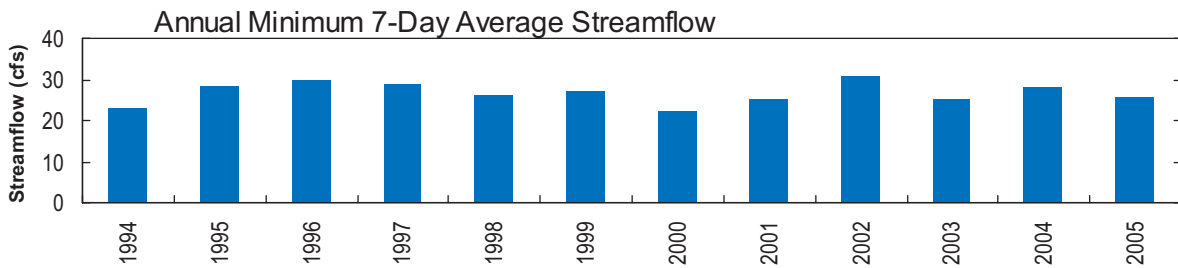
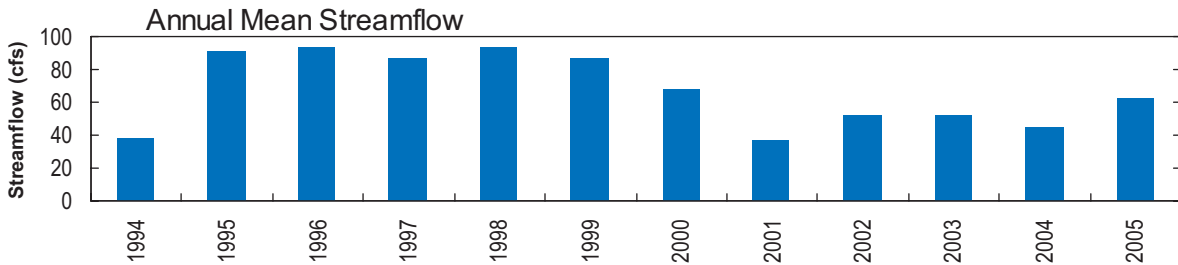
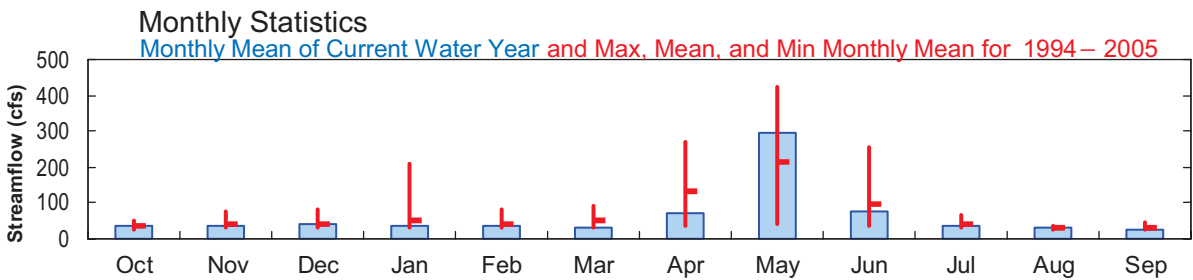
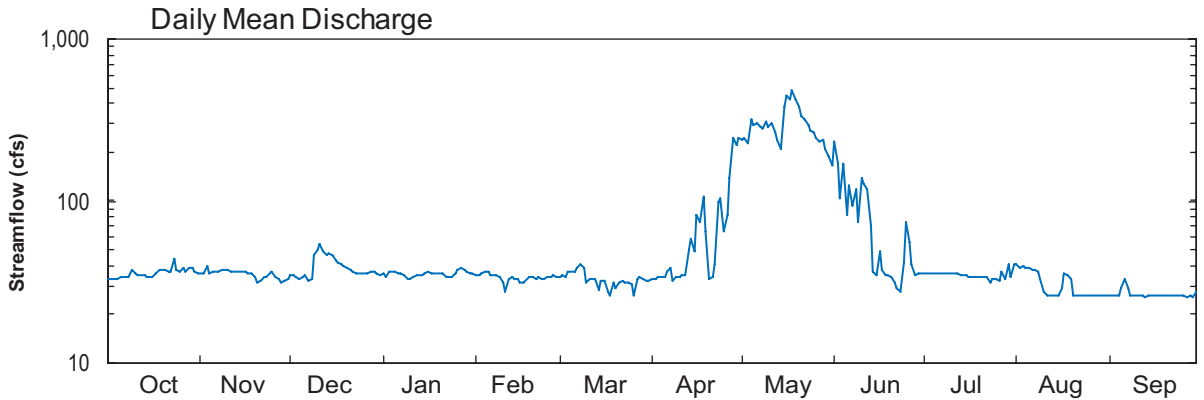
Longitude: 120°59'13"

Hydrologic Unit Code: 18010202

Klamath County

Datum: 4750 feet

Drainage Area: 77.7 mi²



KLAMATH RIVER BASIN

11501000 SPRAGUE RIVER NEAR CHILOQUIN, OR

LOCATION.--Lat 42°35'05", long 121°50'55", in NE ¼ NW ¼ sec.35, T.34 S., R.7 E., Klamath County, Hydrologic Unit 18010202, on right bank 1.0 mi northeast of Chiloquin, 4.6 mi upstream from Modoc Point Canal intake and at mile 5.4.

DRAINAGE AREA.--1,565 mi².

PERIOD OF RECORD.--July to October 1920, March 1921 to current year. Monthly discharge only July 1920, published in WSP 1315-B. Prior to October 1931, published as "at McCready Ranch, near Chiloquin."

REVISED RECORDS.--WSP 591: 1922(M), WSP 1011: 1943(M), WSP 1565: 1921-22.

GAGE.--Water-stage recorder. Datum of gage is 4,202.43 ft above NGVD of 1929. Prior to Oct. 1, 1931, nonrecording gage at site 12 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Minor regulation from irrigation diversions upstream from station.

AVERAGE DISCHARGE.--84 years (water years 1922-2005), 577 ft³/s, 418,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft³/s Dec. 26, 1964, gage height, 10.37 ft; minimum daily discharge, 50 ft³/s May 26, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,660 ft³/s May 23, gage height, 4.87 ft; minimum discharge, 92 ft³/s Sept. 1, 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186	e240	e220	331	434	554	634	901	970	324	140	93
2	183	e230	e210	322	397	567	569	924	936	307	139	96
3	183	e240	e210	317	375	560	534	926	900	295	137	102
4	198	e240	e210	303	371	538	517	955	850	286	140	111
5	200	e230	e220	282	376	527	519	1,010	789	264	132	118
6	197	e230	e220	305	370	520	591	1,040	726	253	130	126
7	198	e230	e230	e300	365	503	605	1,060	685	260	126	146
8	196	e240	e270	e260	353	485	558	1,120	671	247	119	142
9	192	e240	e350	e290	348	482	563	1,220	654	238	111	130
10	201	e240	e390	e260	337	490	573	1,290	628	239	110	140
11	e210	e230	e540	e300	333	501	576	1,330	579	220	116	149
12	e210	e230	e640	e240	333	500	557	1,420	548	214	120	149
13	e220	e230	e610	e210	332	499	532	1,630	509	223	116	151
14	e220	e230	e510	e250	337	490	532	1,830	468	226	115	152
15	e210	e230	e480	e290	350	479	519	1,950	442	212	112	158
16	e220	e230	483	e320	356	450	505	1,900	409	201	105	155
17	e220	e230	481	334	345	422	501	1,750	387	186	101	157
18	e230	e230	451	341	340	412	509	1,670	381	177	104	160
19	e240	e230	408	327	350	406	551	1,820	402	172	103	163
20	e240	e230	386	327	371	399	579	2,070	397	166	100	176
21	e240	e230	369	325	423	399	554	2,330	378	165	103	185
22	e250	e220	352	331	494	414	537	2,560	349	175	104	183
23	e240	e220	339	330	499	429	516	2,650	319	166	110	170
24	e250	e210	312	324	472	451	506	2,580	304	157	111	161
25	e270	e220	331	325	460	488	533	2,320	301	147	111	173
26	e260	e230	330	333	476	493	571	1,970	310	143	114	195
27	e250	e240	320	352	499	453	589	1,640	318	143	116	204
28	e260	e240	333	430	530	442	615	1,380	323	133	110	209
29	e240	e200	353	551	---	471	645	1,220	330	130	107	206
30	e230	e220	333	554	---	565	749	1,090	340	132	101	205
31	e240	---	338	494	---	638	---	1,020	---	134	98	---
TOTAL	6,884	6,890	11,229	10,258	11,026	15,027	16,839	48,576	15,603	6,335	3,561	4,665
MEAN	222	230	362	331	394	485	561	1,567	520	204	115	156
MAX	270	240	640	554	530	638	749	2,650	970	324	140	209
MIN	183	200	210	210	332	399	501	901	301	130	98	93
AC-FT	13,650	13,670	22,270	20,350	21,870	29,810	33,400	96,350	30,950	12,570	7,060	9,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2005, BY WATER YEAR (WY)

MEAN	292	341	461	537	684	926	1,250	1,133	601	274	211	231
MAX	848	789	2,853	3,017	2,877	2,904	4,250	3,211	1,762	560	405	374
(WY)	(1963)	(1974)	(1965)	(1997)	(1996)	(1972)	(1956)	(1956)	(1983)	(1983)	(1956)	(1956)
MIN	183	218	215	196	223	286	263	119	93.8	85.1	76.9	121
(WY)	(1934)	(1995)	(1933)	(1937)	(1933)	(1992)	(1977)	(1992)	(1992)	(1994)	(1992)	(2003)

KLAMATH RIVER BASIN

11501000 SPRAGUE RIVER NEAR CHILOQUIN, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1922 - 2005	
ANNUAL TOTAL	141,094		156,893			
ANNUAL MEAN	386		430		577	
HIGHEST ANNUAL MEAN					1,395	1956
LOWEST ANNUAL MEAN					199	1992
HIGHEST DAILY MEAN	1,700	Feb 21	2,650	May 23	14,500	Dec 26, 1964
LOWEST DAILY MEAN	80	Aug 6	93	Sep 1	50	May 26, 1926
ANNUAL SEVEN-DAY MINIMUM	85	Aug 1	101	Aug 28	65	Aug 5, 1992
ANNUAL RUNOFF (AC-FT)	279,900		311,200		418,300	
10 PERCENT EXCEEDS	808		765		1,290	
50 PERCENT EXCEEDS	296		323		344	
90 PERCENT EXCEEDS	105		133		196	

e Estimated

KLAMATH RIVER BASIN

11501000 SPRAGUE RIVER NEAR CHILOQUIN, OR—Continued



2005 Water Year
KLAMATH RIVER BASIN

11501000 SPRAGUE RIVER NEAR CHILOQUIN, OR

Latitude: 42° 35' 05"

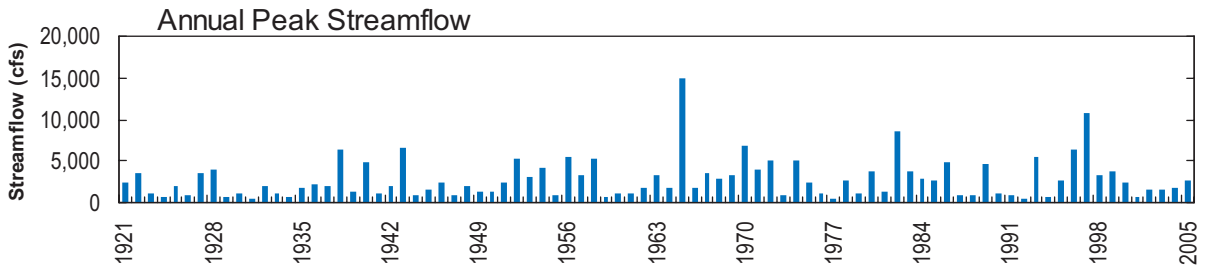
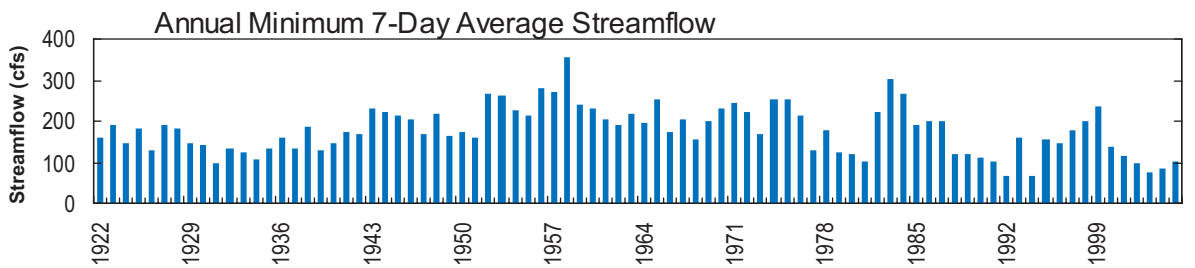
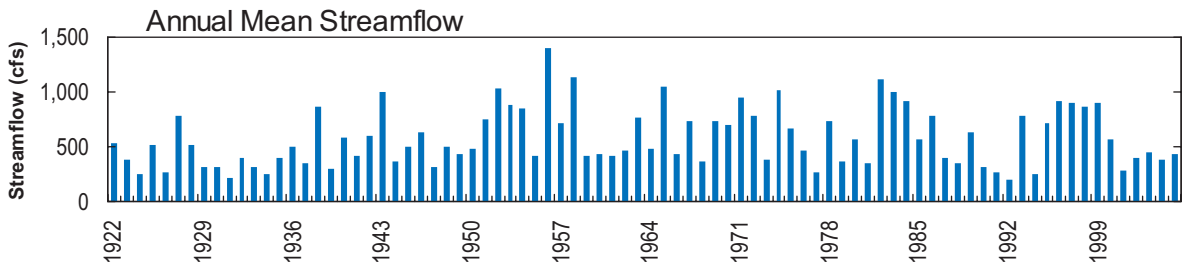
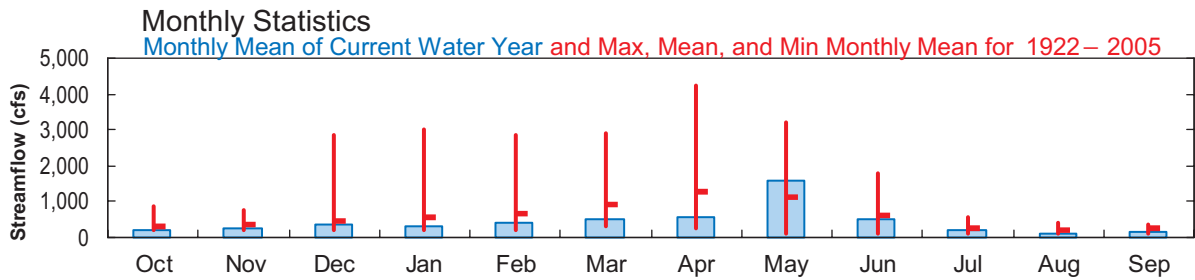
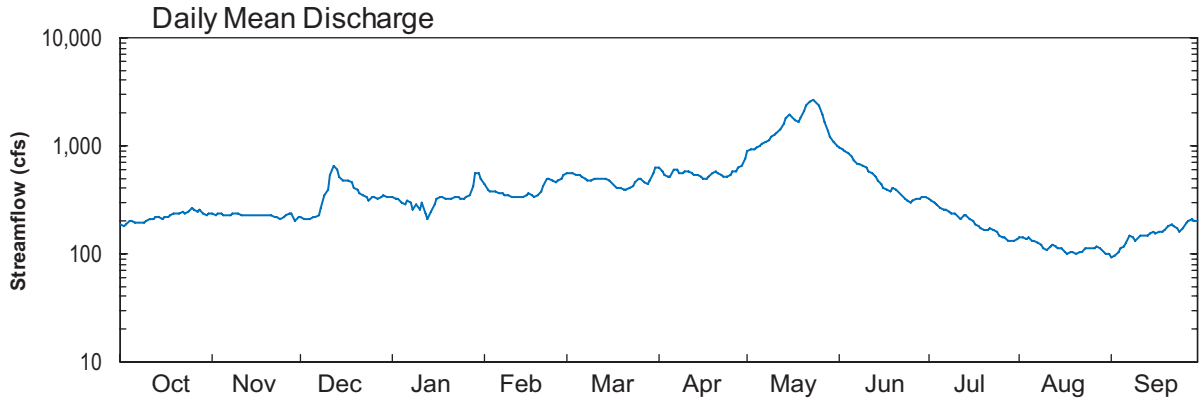
Longitude: 121° 50' 55"

Hydrologic Unit Code: 18010202

Klamath County

Datum: 4202.43 feet

Drainage Area: 1565 mi²



KLAMATH RIVER BASIN

11502500 WILLIAMSON RIVER BELOW SPRAGUE RIVER, NEAR CHILOQUIN, OR

LOCATION.--Lat 42°33'54", long 121°52'42", in NE ¼ SE ¼ sec.4, T.35 S., R.7 E., Klamath County, Hydrologic Unit 18010201, on right bank 0.8 mi downstream from Sprague River, 1.2 mi southwest of Chiloquin and at mile 10.3.

DRAINAGE AREA.--3,000 mi², approximately.

PERIOD OF RECORD.--June 1917 to current year. Monthly discharge only for October 1922 to August 1923 published in WSP 1315-B.

REVISED RECORDS.--WSP 981: 1938(M). WSP 1565: 1920(M), 1927(M), 1938.

GAGE.--Water-stage recorder. Datum of gage is 4,148.50 ft above NGVD of 1929. Prior to Sept. 1, 1923, at different datum, September 1, 1923 to July 12, 1991 at site 0.6 mi upstream at datum 7.05 ft higher.

REMARKS.--Records good. Some regulation by diversion dams and logpond operations on Sprague River. Diversions for irrigation upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--87 years (water years 1918-22, 1924-2005), 1,035 ft³/s, 750,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,100 ft³/s Jan. 5, 1997, gage height, 10.27 ft; minimum discharge, 285 ft³/s Aug. 6, 8, 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,800 ft³/s May 23, gage height, 6.00 ft; minimum discharge, 347 ft³/s Aug. 9, 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	459	572	557	610	695	814	1,040	1,190	1,330	570	403	368
2	455	567	551	603	657	842	968	1,210	1,290	564	401	368
3	454	569	544	597	634	844	932	1,210	1,250	541	395	372
4	470	560	550	584	629	836	910	1,240	1,190	527	394	383
5	478	571	561	563	634	829	900	1,300	1,120	495	387	392
6	477	573	562	581	629	836	947	1,340	1,060	477	384	401
7	469	567	572	603	621	832	945	1,360	1,010	479	383	422
8	469	567	673	557	612	828	893	1,420	997	471	371	423
9	461	564	797	579	606	830	876	1,530	974	466	360	408
10	469	572	861	546	595	844	881	1,600	943	468	358	407
11	486	561	1,130	599	591	864	878	1,640	896	453	363	421
12	507	561	1,260	533	592	875	855	1,730	859	441	372	418
13	513	561	1,210	498	592	881	824	1,900	818	442	375	421
14	512	557	966	547	593	880	817	2,090	779	450	377	419
15	505	559	792	593	603	869	807	2,190	743	436	375	424
16	515	559	748	627	612	844	794	2,170	709	439	370	422
17	530	555	745	622	603	806	785	2,030	680	417	367	425
18	537	555	723	615	599	801	788	1,970	670	409	374	423
19	548	560	686	603	610	807	824	e2,100	683	406	375	429
20	572	555	662	603	626	794	860	e2,300	677	396	369	439
21	577	550	643	599	665	794	842	e2,500	655	402	374	449
22	572	549	624	604	730	822	816	e2,700	625	409	379	456
23	585	543	611	599	741	841	799	2,780	596	406	396	454
24	578	544	574	594	718	853	788	2,740	572	399	396	437
25	599	558	585	594	707	885	800	2,560	558	395	395	442
26	627	563	612	602	717	897	833	2,300	565	394	398	463
27	611	576	590	615	744	862	850	1,980	569	404	403	474
28	604	573	604	680	784	846	888	1,730	564	399	394	477
29	605	553	627	789	---	873	917	1,590	568	400	391	474
30	597	524	609	798	---	955	1,010	1,460	577	404	376	476
31	584	---	612	750	---	1,040	---	1,380	---	411	373	---
TOTAL	16,425	16,798	21,841	18,887	18,139	26,424	26,067	57,240	24,527	13,770	11,828	12,787
MEAN	530	560	705	609	648	852	869	1,846	818	444	382	426
MAX	627	576	1,260	798	784	1,040	1,040	2,780	1,330	570	403	477
MIN	454	524	544	498	591	794	785	1,190	558	394	358	368
AC-FT	32,580	33,320	43,320	37,460	35,980	52,410	51,700	113,500	48,650	27,310	23,460	25,360

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2005, BY WATER YEAR (WY)

MEAN	647	752	931	1,012	1,233	1,600	1,945	1,646	992	600	529	557
MAX	1,237	1,345	3,682	4,067	3,846	4,256	5,488	4,376	2,658	1,278	934	872
(WY)	(1963)	(1974)	(1965)	(1997)	(1958)	(1972)	(1952)	(1956)	(1953)	(1958)	(1958)	(1958)
MIN	488	530	545	524	547	619	583	391	338	311	304	382
(WY)	(1993)	(1995)	(1993)	(1937)	(1933)	(1992)	(1992)	(1992)	(1992)	(1994)	(1994)	(1994)

KLAMATH RIVER BASIN

11502500 WILLIAMSON RIVER BELOW SPRAGUE RIVER, NEAR CHILOQUIN, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1918 - 2005	
ANNUAL TOTAL	267,791		264,733			
ANNUAL MEAN	732		725		1,035	
HIGHEST ANNUAL MEAN					2,187	1956
LOWEST ANNUAL MEAN					483	1992
HIGHEST DAILY MEAN	2,140	Feb 21	2,780	May 23	16,000	Dec 26, 1964
LOWEST DAILY MEAN	382	Aug 19	358	Aug 10	288	Aug 6, 1994
ANNUAL SEVEN-DAY MINIMUM	388	Aug 16	368	Aug 8	294	Aug 4, 1994
ANNUAL RUNOFF (AC-FT)	531,200		525,100		750,000	
10 PERCENT EXCEEDS	1,320		1,190		1,960	
50 PERCENT EXCEEDS	584		597		744	
90 PERCENT EXCEEDS	407		399		500	

e Estimated

KLAMATH RIVER BASIN

11502500 WILLIAMSON RIVER BELOW SPRAGUE RIVER, NEAR CHILOQUIN, OR—Continued



2005 Water Year
KLAMATH RIVER BASIN

11502500 WILLIAMSON RIVER BLW SPRAGUE RIVER NR CHILOQUIN, OR

Latitude: 42° 33' 54"

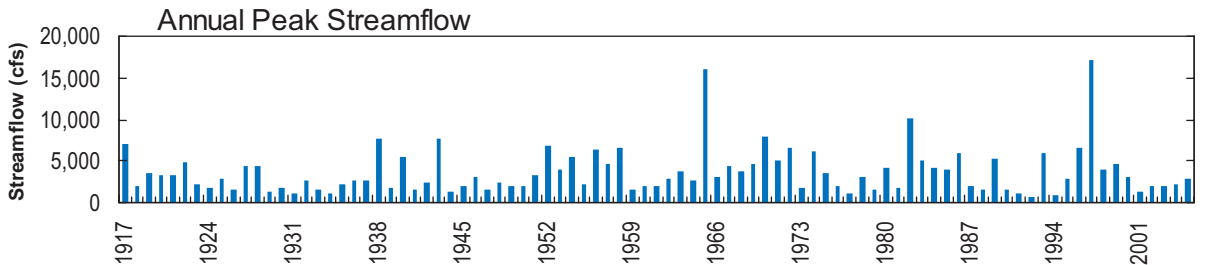
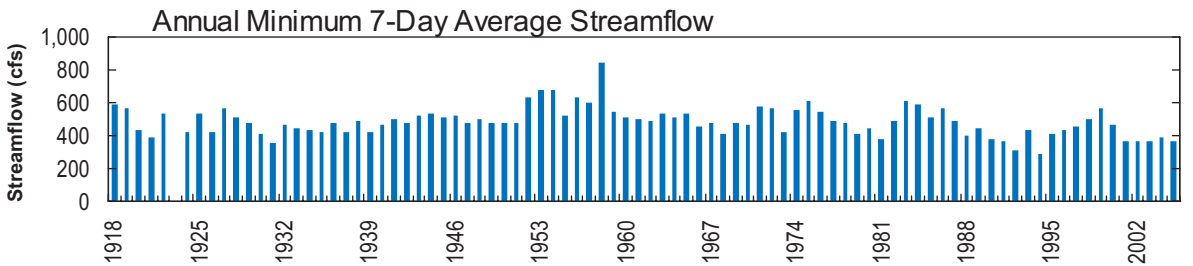
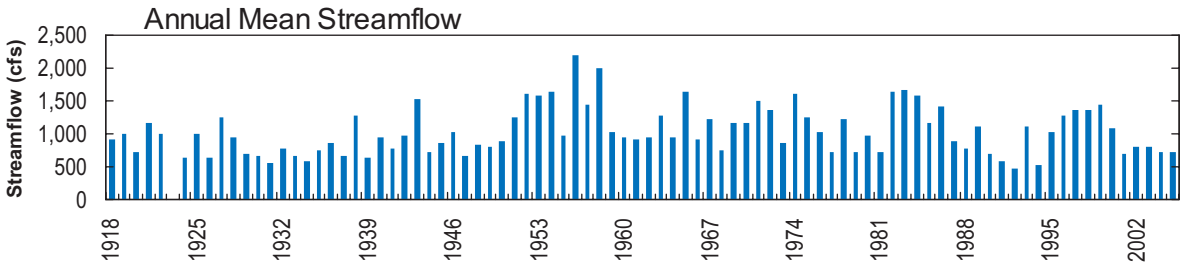
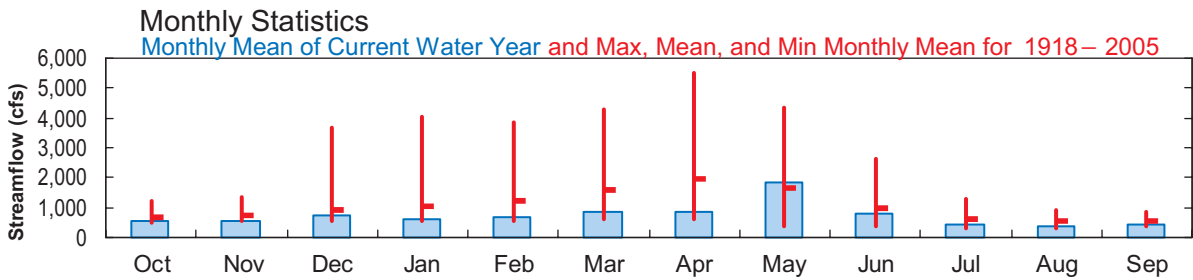
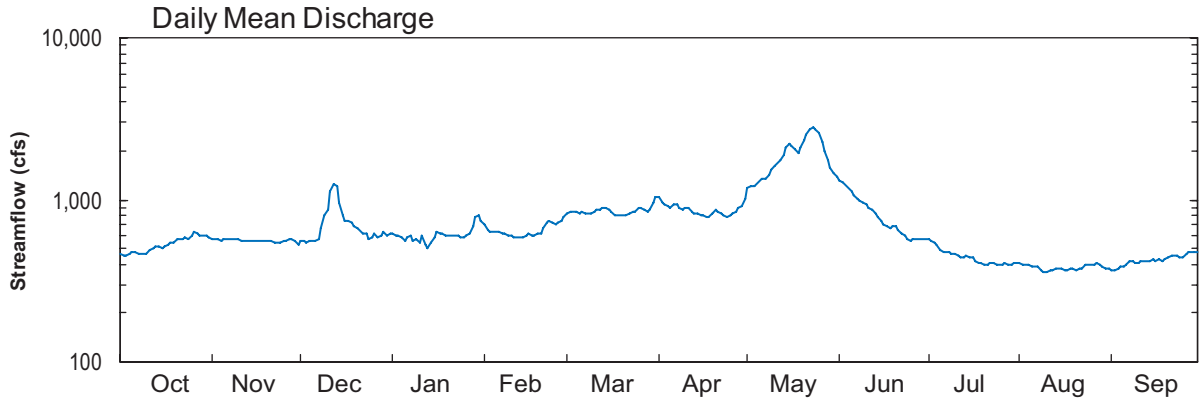
Longitude: 121° 52' 42"

Hydrologic Unit Code: 18010201

Klamath County

Datum: 4148.50 feet

Drainage Area: 3000 mi²



KLAMATH RIVER BASIN

11507001 UPPER KLAMATH LAKE NEAR KLAMATH FALLS, OR

LOCATION.--Lat 42°15'00", long 121°48'55", in NW ¼ SW ¼ sec.19, T.38 S., R.9 E., Klamath County, Hydrologic Unit 18010203, at southeast end of lake, 1.4 mi upstream from outlet, and 2.5 mi northwest of Main Street Bridge at Klamath Falls.

DRAINAGE AREA.--3,810 mi², approximately, including 26.2 mi² in closed basin of Crater Lake.

PERIOD OF RECORD.--May 1904 to September 1922 (gage heights only), October 1922 to current year. Monthend contents only October 1923 to September 1927, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 4,098.22 ft above NGVD of 1929, or 4,100.00 ft above Bureau of Reclamation datum. Gage readings have been reduced to elevations above Bureau of Reclamation datum. See WSP 1735 for history of changes prior to Nov. 10, 1923. Since Oct. 1, 1974, supplementary water-stage recorders at sites 7 mi north and 21 mi northwest at same datum (water-surface transfer by Pacific Power and Light Co.).

REMARKS.--Reservoir is formed by concrete dam at outlet of natural lake, completed in 1921, replacing a temporary dam built in 1919; controlled storage began Apr. 15, 1919. Capacity, 523,700 acre-ft between elevations 4,136.0 ft and 4,143.3 ft. Dead storage below elevation 4,136.0 ft is 211,300 acre-ft. Stored water may be diverted through "A" Canal for irrigation on land under Klamath project of Bureau of Reclamation, or released to Link River through dam or powerplants at Klamath Falls. Contents given herein represent those above elevation 4,136.0 ft. Prior to Oct. 1, 1973, contents given represented those above elevation 4,135.0 ft. Prior to Sept. 30, 1974, contents at end of month obtained by averaging elevations for last 3 days of month and first 3 days of following month to compensate for wind effect. Since Oct. 1, 1974, daily elevations are weighted mean of elevations at base and supplementary gages; contents at end of month are obtained from weighted midnight elevations of base and supplementary gages.

COOPERATION.--Capacity table furnished by Bureau of Reclamation, Klamath Project.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4,144.98 ft about Apr. 20, 1904, from high-water marks; minimum recorded, 4,135.55 ft Oct. 30, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum weighted daily elevation, 4,143.22 ft June 1, 2; minimum weighted daily, 4,138.83 ft Oct. 8, 19.

Capacity Table (elevation, in feet and contents, in acre-feet)

4,136	0	4,139	193,700	4,142	414,400
4,137	61,300	4,140	262,600	4,143	498,300
4,138	127,000	4,141	335,400	4,143.3	523,700

ELEVATION ABOVE USBR DATUM, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,138.93	4,139.30	4,139.80	4,140.95	4,141.54	4,142.22	4,142.99	4,143.16	4,143.22	4,142.65	4,141.43	4,140.00
2	4,138.92	4,139.31	4,139.82	4,141.01	4,141.56	4,142.29	4,143.00	4,143.20	4,143.22	4,142.61	4,141.39	4,139.94
3	4,138.90	4,139.47	4,139.83	4,141.06	4,141.59	4,142.32	4,142.96	4,143.20	4,143.19	4,142.57	4,141.35	4,139.90
4	4,138.90	4,139.46	4,139.84	4,141.06	4,141.62	4,142.35	4,143.02	4,143.18	4,143.18	4,142.54	4,141.30	4,139.85
5	4,138.90	4,139.40	4,139.85	4,141.06	4,141.64	4,142.39	4,143.01	4,143.19	4,143.15	4,142.50	4,141.25	4,139.81
6	4,138.89	4,139.42	4,139.82	4,141.07	4,141.66	4,142.41	4,142.99	4,143.18	4,143.11	4,142.47	4,141.20	4,139.77
7	4,138.89	4,139.44	4,139.91	4,141.10	4,141.69	4,142.44	4,143.01	4,143.12	4,143.11	4,142.43	4,141.16	4,139.73
8	4,138.83	4,139.46	4,140.04	4,141.13	4,141.72	4,142.48	4,143.01	4,143.10	4,143.11	4,142.39	4,141.11	4,139.67
9	4,138.88	4,139.46	4,140.20	4,141.16	4,141.74	4,142.50	4,143.09	4,143.17	4,143.14	4,142.35	4,141.07	4,139.63
10	4,138.90	4,139.49	4,140.30	4,141.18	4,141.76	4,142.53	4,143.09	4,143.18	4,143.15	4,142.30	4,141.02	4,139.56
11	4,138.89	4,139.52	4,140.37	4,141.20	4,141.79	4,142.55	4,143.10	4,143.17	4,143.16	4,142.28	4,140.97	4,139.54
12	4,138.87	4,139.53	4,140.46	4,141.20	4,141.81	4,142.58	4,143.11	4,143.15	4,143.11	4,142.26	4,140.91	4,139.50
13	4,138.90	4,139.57	4,140.46	4,141.21	4,141.83	4,142.61	4,143.11	4,143.14	4,143.09	4,142.23	4,140.88	4,139.48
14	4,138.87	4,139.57	4,140.49	4,141.22	4,141.86	4,142.59	4,143.11	4,143.13	4,143.09	4,142.19	4,140.83	4,139.45
15	4,138.87	4,139.58	4,140.53	4,141.22	4,141.88	4,142.60	4,143.11	4,143.13	4,143.05	4,142.15	4,140.78	4,139.42
16	4,138.88	4,139.60	4,140.56	4,141.24	4,141.90	4,142.59	4,143.10	4,143.16	4,142.94	4,142.10	4,140.73	4,139.38
17	4,138.84	4,139.61	4,140.59	4,141.25	4,141.93	4,142.62	4,143.15	4,143.09	4,142.92	4,142.08	4,140.68	4,139.36
18	4,138.87	4,139.63	4,140.62	4,141.26	4,141.95	4,142.62	4,143.13	4,143.06	4,142.92	4,142.02	4,140.65	4,139.35
19	4,138.83	4,139.67	4,140.65	4,141.28	4,141.97	4,142.59	4,143.13	4,143.12	4,142.95	4,141.97	4,140.59	4,139.32
20	4,138.98	4,139.69	4,140.69	4,141.29	4,142.00	4,142.60	4,143.09	4,143.14	4,142.93	4,141.93	4,140.54	4,139.30
21	4,138.99	4,139.68	4,140.70	4,141.30	4,142.05	4,142.67	4,143.08	4,143.14	4,142.90	4,141.88	4,140.51	4,139.30
22	4,138.99	4,139.67	4,140.71	4,141.32	4,142.10	4,142.74	4,143.08	4,143.16	4,142.88	4,141.83	4,140.46	4,139.26
23	4,139.08	4,139.68	4,140.74	4,141.33	4,142.10	4,142.78	4,143.05	4,143.17	4,142.88	4,141.81	4,140.41	4,139.30
24	4,139.12	4,139.68	4,140.75	4,141.34	4,142.12	4,142.80	4,143.08	4,143.18	4,142.85	4,141.77	4,140.38	4,139.24
25	4,139.09	4,139.69	4,140.74	4,141.35	4,142.15	4,142.81	4,143.07	4,143.19	4,142.81	4,141.72	4,140.31	4,139.24
26	4,139.17	4,139.73	4,140.78	4,141.38	4,142.17	4,142.80	4,143.07	4,143.18	4,142.78	4,141.68	4,140.26	4,139.21
27	4,139.24	4,139.78	4,140.85	4,141.40	4,142.15	4,142.79	4,143.08	4,143.18	4,142.76	4,141.62	4,140.21	4,139.21
28	4,139.23	4,139.77	4,140.87	4,141.42	4,142.20	4,142.89	4,143.14	4,143.16	4,142.73	4,141.58	4,140.16	4,139.20
29	4,139.26	4,139.77	4,140.86	4,141.45	---	4,142.97	4,143.14	4,143.18	4,142.70	4,141.53	4,140.13	4,139.20
30	4,139.27	4,139.78	4,140.88	4,141.48	---	4,143.00	4,143.13	4,143.18	4,142.68	4,141.50	4,140.07	4,139.19
31	4,139.29	---	4,140.92	4,141.51	---	4,143.00	---	4,143.21	---	4,141.46	4,140.04	---
MEAN	4,138.98	4,139.58	4,140.44	4,141.24	4,141.88	4,142.62	4,143.07	4,143.16	4,142.99	4,142.08	4,140.73	4,139.48
MAX	4,139.29	4,139.78	4,140.92	4,141.51	4,142.20	4,143.00	4,143.15	4,143.21	4,143.22	4,142.65	4,141.43	4,140.00
MIN	4,138.83	4,139.30	4,139.80	4,140.95	4,141.54	4,142.22	4,142.96	4,143.06	4,142.68	4,141.46	4,140.04	4,139.19
(†)	214,100	247,900	329,400	374,900	432,600	496,600	513,500	521,200	469,500	368,600	265,500	204,600
(‡)	+25,100	+33,800	+81,500	+45,500	+57,700	+64,000	+16,900	+7,700	-51,700	-100,900	-103,100	-60,900
CAL YR2004	MEAN	4,140.80	MAX	4,142.77	MIN	4,138.83	AC-FT‡	+103,000				
WTR YR2005	MEAN	4,141.35	MAX	4,143.22	MIN	4,138.83	AC-FT‡	+15,600				

† Contents, in acre-feet, at 2400, on last day of month.

‡ Change in contents, in acre-feet.

KLAMATH RIVER BASIN

11507500 LINK RIVER AT KLAMATH FALLS, OR

LOCATION.--Lat 42°13'25", long 121°47'35", in SW ¼ NW ¼ sec.32, T.38 S., R.9 E., Klamath County, Hydrologic Unit 18010204, on right bank 600 ft upstream from outlet of Keno Canal and 0.4 mi upstream from Main Street Bridge at Klamath Falls.

DRAINAGE AREA.--3,810 mi², approximately, including 26.2 mi² in closed basin of Crater Lake.

PERIOD OF RECORD.--October 1, 1962 to September 30, 1965, October 1, 1968 to current year (Link River only). Records from May 15, 1904 to September 30, 1983 published under station 11507501 which includes flow in Keno Canal.

GAGE.--Water-stage recorder. Datum of gage is 4,083.71 ft above NGVD of 1929 or 4,085.50 ft above Bureau of Reclamation datum. Prior to Sept. 14, 1912, water-stage recorder or nonrecording gages at several sites within 0.5 mi of present site at various datums. Sept. 14, 1912 to Nov. 23, 1923, at site 600 ft downstream at datum 5.42 ft lower. Nov. 24, 1923 to Nov. 15, 1961, at site on left bank at present datum.

REMARKS.--No estimated daily discharges. Records fair except for those below 1,200 ft³/s, which are poor. Flow regulated since 1919 by Upper Klamath Lake (station 11507001). Large diurnal fluctuation caused by powerplant upstream from station. Water diverted upstream from station by main or "A" Canal of Klamath project. Many other diversions upstream from lake. All records presented herein do not include flow in Keno Canal which, since September 1908, has diverted from Upper Klamath Lake at Link River Dam for power generation and returns flow to Link River downstream from station.

AVERAGE DISCHARGE.--79 years (water years 1905-83), 1,593 ft³/s, 1,154,000 acre-ft/yr, not adjusted for "A" Canal. 22 years (water years 1984-2005), 1,210 ft³/s, 876,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft³/s May 12, 1904, gage height at Main Street Bridge, 7.30 ft, datum then in use, from floodmarks; minimum daily discharge, 17 ft³/s Dec. 13, 1937.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 3,810 ft³/s May 5, gage height, 3.52 ft; minimum, 152 ft³/s Oct. 19, result of regulation from Upper Klamath Lake.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	484	605	483	265	323	1,010	577	469	1,070	993	1,170
2	470	484	561	487	268	286	775	548	1,060	1,130	1,070	1,260
3	470	526	533	488	270	285	660	1,240	1,330	1,190	966	1,390
4	518	506	518	488	332	281	541	2,250	1,530	1,110	1,040	1,330
5	516	469	542	487	377	276	510	3,100	1,370	1,140	1,230	1,240
6	494	469	501	626	377	275	476	3,220	1,120	962	1,130	1,250
7	532	471	491	629	495	277	484	2,890	657	1,220	927	1,380
8	526	501	489	668	458	275	477	2,610	566	1,230	1,090	1,270
9	562	654	479	595	399	276	474	2,600	570	944	1,220	1,140
10	504	622	407	666	270	276	491	3,120	947	1,160	1,010	1,140
11	492	490	287	699	297	275	588	2,920	1,460	993	1,010	1,100
12	474	503	314	685	334	291	653	2,910	1,200	943	1,070	986
13	421	519	302	739	336	352	988	2,910	1,030	854	1,030	780
14	425	505	309	688	321	350	902	2,910	1,440	975	1,030	983
15	608	562	312	765	286	279	1,080	2,920	1,410	1,050	1,050	1,090
16	486	674	314	702	275	277	942	3,210	1,430	1,190	1,000	1,010
17	536	613	317	605	273	285	1,070	2,960	1,270	999	984	938
18	421	579	312	710	273	277	1,390	3,450	1,240	1,140	1,020	986
19	481	598	435	488	273	275	1,370	3,130	1,410	1,210	1,090	879
20	527	621	485	623	272	276	1,020	2,600	1,330	1,340	1,160	826
21	395	675	480	573	275	280	1,090	3,080	1,490	1,030	1,090	862
22	377	671	480	686	278	282	1,040	3,020	1,220	1,090	1,110	897
23	483	736	481	597	275	285	838	2,850	1,360	938	1,110	846
24	719	821	480	503	275	286	630	2,410	1,170	1,030	1,060	599
25	525	722	478	593	275	286	624	2,600	1,160	937	1,150	727
26	508	793	478	555	275	285	1,090	2,670	1,010	1,170	1,210	705
27	584	608	483	511	271	283	992	2,520	1,140	1,160	1,140	683
28	464	639	485	399	272	287	567	2,730	1,240	1,200	1,030	537
29	457	690	485	301	---	292	592	1,550	1,000	1,050	1,070	510
30	764	576	502	278	---	497	725	1,070	1,040	993	1,060	672
31	495	---	478	280	---	1,020	---	523	---	945	1,110	---
TOTAL	15,709	17,781	13,823	17,597	8,647	9,850	24,089	77,098	34,669	33,393	33,260	29,186
MEAN	507	593	446	568	309	318	803	2,487	1,156	1,077	1,073	973
MAX	764	821	605	765	495	1,020	1,390	3,450	1,530	1,340	1,230	1,390
MIN	377	469	287	278	265	275	474	523	469	854	927	510
AC-FT	31,160	35,270	27,420	34,900	17,150	19,540	47,780	152,900	68,770	66,240	65,970	57,890

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	915	1,055	1,233	1,356	1,431	1,819	1,757	1,446	1,110	848	814	745
MAX	2,125	3,739	4,075	5,832	4,797	5,261	3,801	3,338	1,998	1,197	1,264	1,205
(WY)	(1985)	(1985)	(1984)	(1997)	(1996)	(1986)	(1993)	(1998)	(1998)	(1999)	(2001)	(1996)
MIN	507	434	446	372	214	119	342	286	648	543	551	268
(WY)	(2005)	(1992)	(2005)	(1995)	(1994)	(1992)	(1991)	(1991)	(1990)	(1987)	(1991)	(2000)

KLAMATH RIVER BASIN

11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	277,151		315,102		1,210	
ANNUAL MEAN	757		863		2,200	
HIGHEST ANNUAL MEAN					547	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1,790	Mar 29	3,450	May 18	6,920	Jan 8, 1997
LOWEST DAILY MEAN	287	Dec 11	265	Feb 1	95	Mar 1, 1992
ANNUAL SEVEN-DAY MINIMUM	308	Dec 11	274	Feb 16	96	Feb 28, 1992
ANNUAL RUNOFF (AC-FT)	549,700		625,000		876,300	
10 PERCENT EXCEEDS	1,150		1,370		2,420	
50 PERCENT EXCEEDS	707		654		897	
90 PERCENT EXCEEDS	481		285		418	

KLAMATH RIVER BASIN

11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued



2005 Water Year
KLAMATH RIVER BASIN

11507500 LINK RIVER AT KLAMATH FALLS, OR

Latitude: 42° 13' 25"

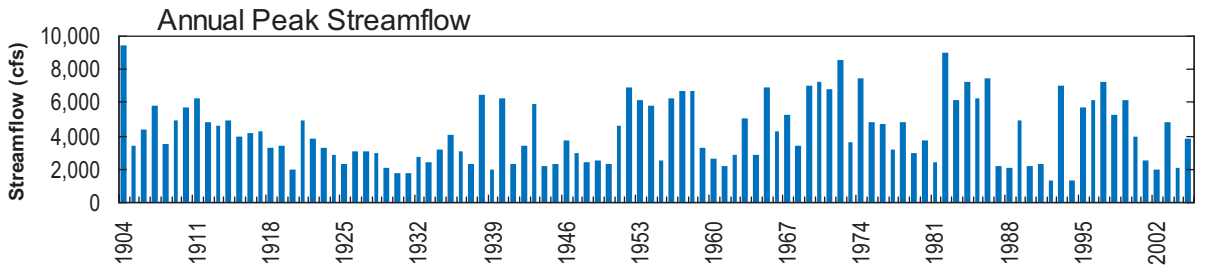
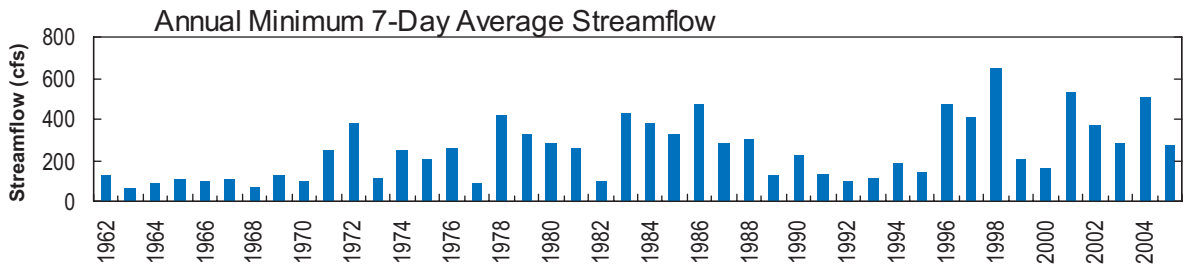
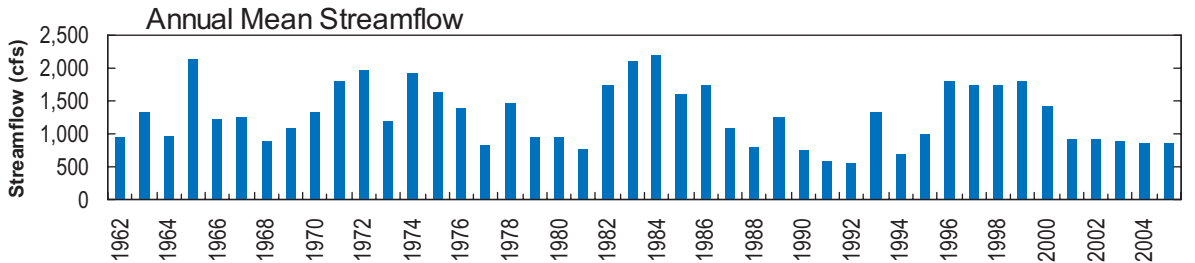
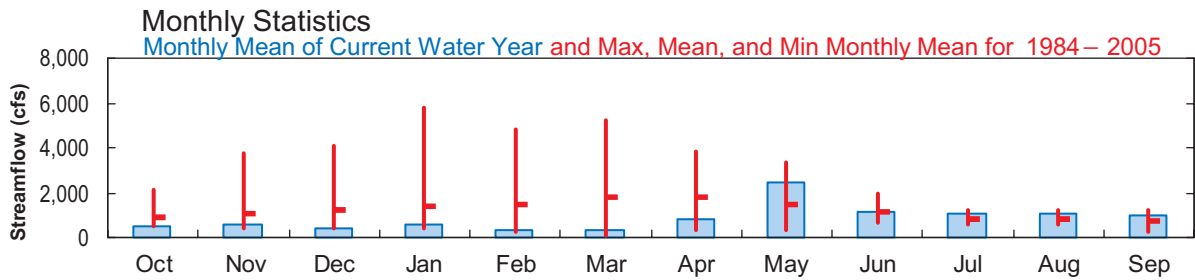
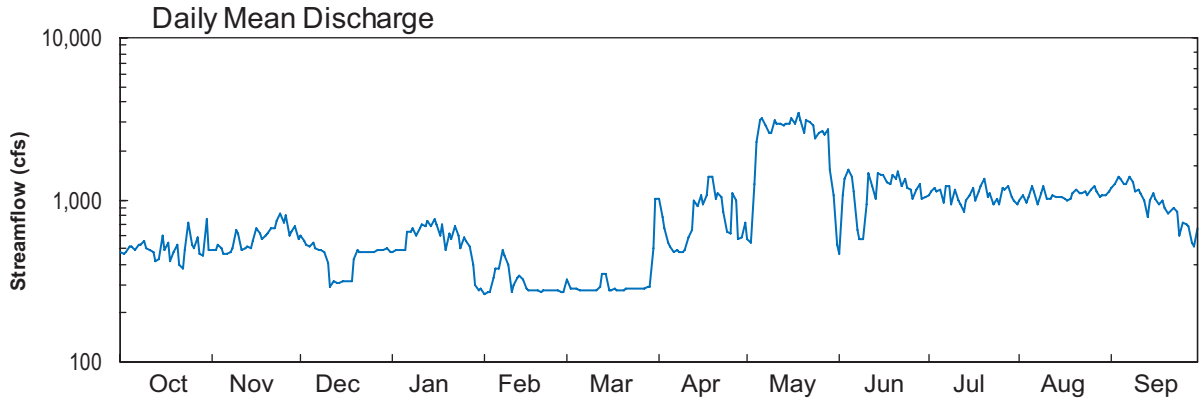
Longitude: 121° 47' 35"

Hydrologic Unit Code: 18010204

Klamath County

Datum: 4083.71 feet

Drainage Area: 3810. mi²



KLAMATH RIVER BASIN

11509500 KLAMATH RIVER AT KENO, OR

LOCATION.--Lat 42°08'00", long 121°57'40", in NW ¼ SE ¼ sec.35, T.39 S., R.7 E., Klamath County, Hydrologic Unit 18010206, on left bank 1.7 mi northwest of Keno 4.5 mi upstream from Spencer Creek and at mile 231.9.

DRAINAGE AREA.--3,920 mi², approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OR RECORD.--June 1904 to December 1913, October 1929 to current year. Monthly discharge only October to December 1929, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 3,961 ft above NGVD of 1929 (from river-profile survey). See WSP 1735 for history of changes prior to Nov. 6, 1954.

REMARKS.--Records fair. Flow regulated since 1919 by Upper Klamath Lake (station 11507001). Fluctuation by Keno powerplant 0.9 mi upstream. Diversions for irrigation upstream from station.

AVERAGE DISCHARGE.--85 years (water years 1905-13, 1930-2005), 1,610 ft³/s, 1,167,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft³/s Feb. 28, 1986, gage height, 12.82 ft, caused by regulation from Keno powerplant 0.9 mi upstream; minimum discharge, 26 ft³/s Sept. 23, 1956; minimum daily, 60 ft³/s May 19, 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage, 15.3 ft, from floodmark (original datum), about May 10, 1904, discharge, 9,250 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,530 ft³/s May 17, gage height, 10.04 ft; minimum discharge, 209 ft³/s Feb. 2.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	586	597	522	380	481	960	805	535	611	609	823
2	431	575	603	429	256	375	701	803	898	611	603	912
3	261	569	601	506	258	375	452	1,460	1,290	612	604	920
4	255	568	600	553	e260	491	447	2,300	1,270	614	647	926
5	277	568	599	549	362	565	387	3,140	1,250	613	789	933
6	e290	568	490	547	408	561	383	3,470	1,040	612	727	935
7	331	565	547	564	369	461	454	3,180	291	611	674	944
8	330	563	957	572	272	406	688	2,840	286	612	678	940
9	331	649	1,170	573	445	316	706	2,980	610	610	678	839
10	331	676	1,580	572	477	396	704	3,470	1,010	607	666	730
11	456	670	1,150	572	263	488	699	3,730	1,010	606	670	735
12	278	678	758	627	375	326	703	3,680	1,010	550	687	726
13	278	673	392	667	386	333	1,060	3,310	1,010	450	700	784
14	277	673	587	673	388	330	1,110	3,220	1,010	577	693	864
15	276	670	610	685	387	329	1,120	3,210	1,000	626	699	889
16	279	691	478	685	383	326	1,080	3,380	1,000	619	702	838
17	433	692	474	684	379	324	1,370	4,410	1,000	609	702	812
18	462	692	468	639	377	322	1,580	4,590	1,000	734	702	875
19	535	691	432	570	376	324	1,290	3,680	1,000	845	702	885
20	328	688	504	e570	378	326	1,100	3,250	1,010	726	702	844
21	430	684	504	e590	526	347	1,090	3,210	901	621	703	820
22	537	682	506	588	633	375	1,090	3,230	818	649	707	785
23	680	682	505	588	628	391	1,030	2,930	772	642	705	784
24	747	683	508	e600	525	438	806	2,660	713	627	705	787
25	561	682	569	e600	385	533	802	2,600	710	620	702	773
26	581	682	668	e580	405	556	1,200	2,610	714	619	690	771
27	583	679	653	537	533	494	1,230	2,610	716	624	678	767
28	474	679	649	612	529	341	1,040	2,490	724	623	683	621
29	698	679	645	593	---	273	881	1,570	650	615	682	711
30	700	620	585	488	---	351	813	1,230	607	617	687	870
31	588	---	550	489	---	995	---	559	---	620	704	---
TOTAL	13,395	19,457	19,939	18,024	11,343	12,949	26,976	86,607	25,855	19,332	21,280	24,843
MEAN	432	649	643	581	405	418	899	2,794	862	624	686	828
MAX	747	692	1,580	685	633	995	1,580	4,590	1,290	845	789	944
MIN	255	563	392	429	256	273	383	559	286	450	603	621
AC-FT	26,570	38,590	39,550	35,750	22,500	25,680	53,510	171,800	51,280	38,350	42,210	49,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2005, BY WATER YEAR (WY)

	1,349	1,590	1,833	1,975	2,146	2,529	2,264	1,761	1,087	787	906	1,132
MEAN	1,349	1,590	1,833	1,975	2,146	2,529	2,264	1,761	1,087	787	906	1,132
MAX	3,055	4,673	5,732	7,702	7,564	8,197	6,594	5,258	3,713	2,748	1,898	2,214
(WY)	(1957)	(1985)	(1984)	(1985)	(1965)	(1972)	(1956)	(1956)	(1906)	(1906)	(1958)	(1943)
MIN	432	290	391	542	254	215	166	109	97.6	114	146	246
(WY)	(2005)	(1935)	(1935)	(1935)	(1992)	(1992)	(1931)	(1931)	(1931)	(1931)	(1992)	(1992)

KLAMATH RIVER BASIN

11509500 KLAMATH RIVER AT KENO, OR—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1905 - 2005	
ANNUAL TOTAL	272,641		300,000			
ANNUAL MEAN	745		822		1,610	
HIGHEST ANNUAL MEAN					3,582	
LOWEST ANNUAL MEAN					340	
HIGHEST DAILY MEAN	2,240	Feb 19	4,590	May 18	9,780	Mar 5, 1972
LOWEST DAILY MEAN	239	Jul 1	255	Oct 4	60	May 19, 1934
ANNUAL SEVEN-DAY MINIMUM	252	Jul 30	296	Oct 3	78	Jun 4, 1931
ANNUAL RUNOFF (AC-FT)	540,800		595,000		1,167,000	
10 PERCENT EXCEEDS	1,240		1,210		3,150	
50 PERCENT EXCEEDS	670		639		1,220	
90 PERCENT EXCEEDS	328		366		415	

e Estimated



2005 Water Year
KLAMATH RIVER BASIN
11509500 KLAMATH RIVER AT KENO, OR

Latitude: 42° 08' 00"

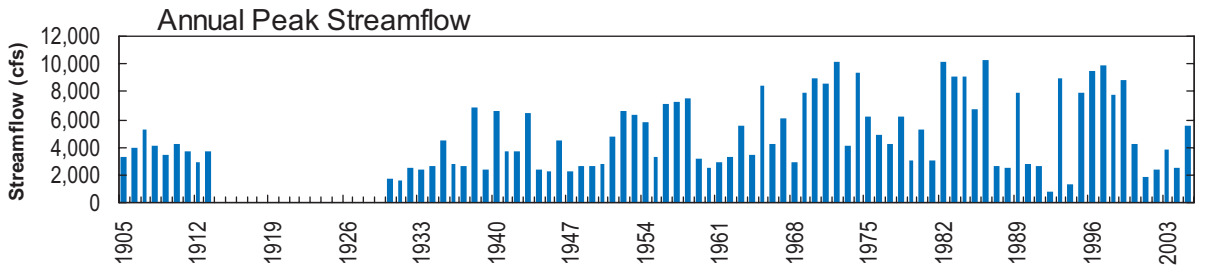
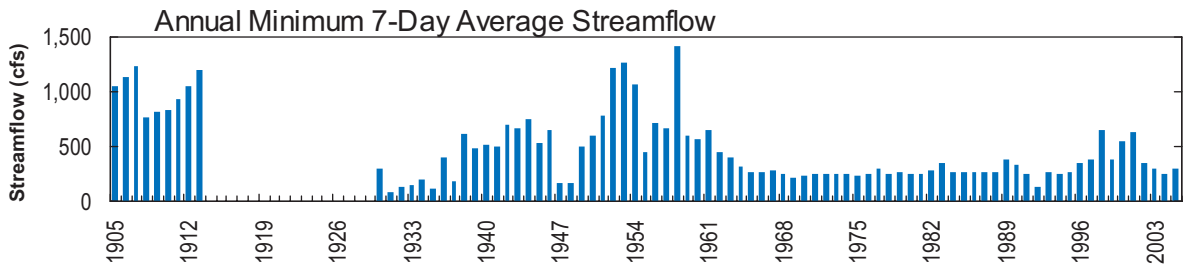
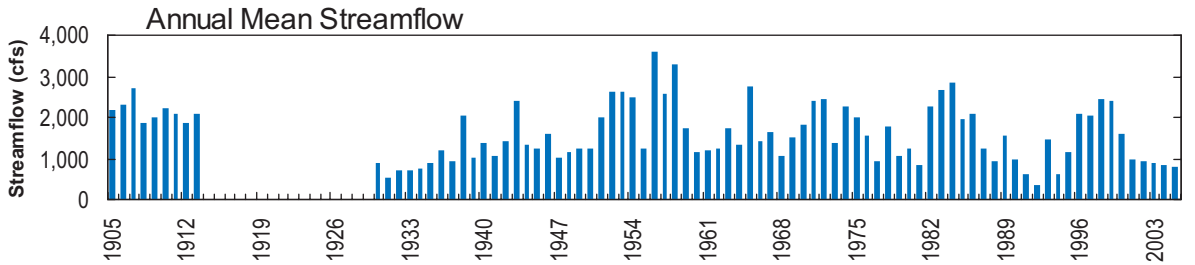
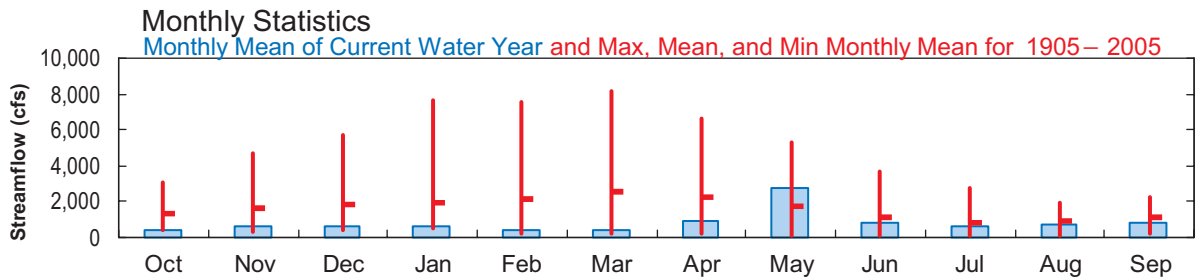
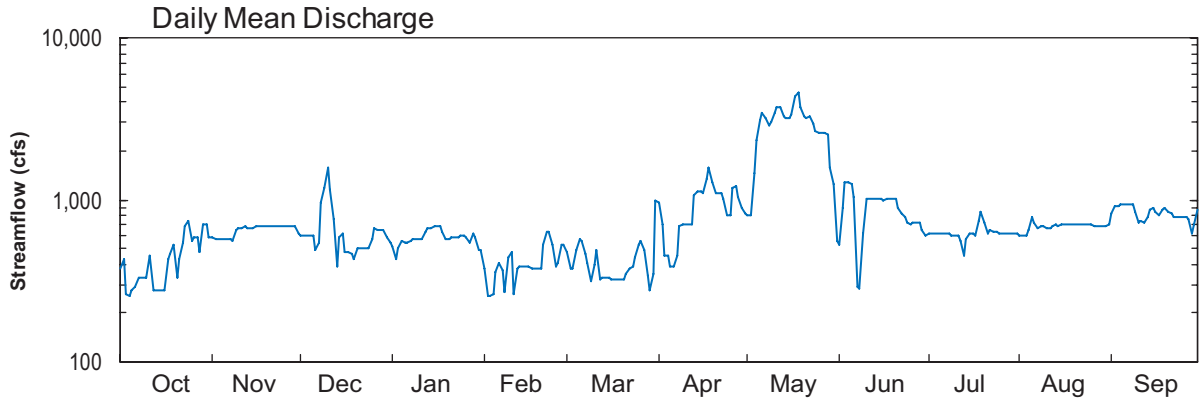
Longitude: 121° 57' 40"

Hydrologic Unit Code: 18010206

Klamath County

Datum: 3961.00 feet

Drainage Area: 3920 mi²



KLAMATH RIVER BASIN

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR

LOCATION.--Lat 42°05'05", long 122°04'20", in SE ¼ SE ¼ sec.14, T.40 S., R.6 E., Klamath County, Hydrologic Unit 18010206, on right bank 0.7 mi downstream from John C. Boyle powerplant, 8 mi downstream from Spencer Creek, 8.5 mi southwest of Keno and at mile 219.7.

DRAINAGE AREA.--4,080 mi², approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

REVISED RECORDS.--WDR OR-87-1: 1967.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 3,274.82 ft above NGVD of 1929 (levels by PacifiCorp).

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated by Upper Klamath Lake (station 11507001). Large diurnal fluctuation caused by Keno and John C. Boyle powerplants. Diversions for irrigation upstream from station.

AVERAGE DISCHARGE.--46 years(water years 1960-2005), 1,769 ft³/s, 1,282,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s Feb. 21, 1996, gage height, 9.50 ft; minimum discharge, 273 ft³/s Sept. 25, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,690 ft³/s May 17, gage height, 7.32 ft; minimum discharge, 289 ft³/s Feb. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	619	778	873	799	696	770	1,210	1,060	463	1,020	843	1,010
2	642	763	859	661	592	585	923	1,140	1,090	645	651	1,140
3	545	1,010	848	836	514	567	743	1,590	1,360	849	725	1,050
4	538	e860	691	774	506	783	733	2,500	1,830	796	1,220	1,320
5	e530	e760	690	775	599	829	663	3,200	1,530	842	876	1,100
6	523	672	1,070	776	601	819	330	3,700	1,520	922	870	1,060
7	475	786	600	780	607	702	772	3,370	447	980	812	1,180
8	517	788	1,170	772	333	673	1,250	3,160	329	870	1,060	1,100
9	527	890	1,420	769	546	701	741	3,310	959	684	838	1,170
10	527	939	1,700	777	822	498	894	3,780	1,410	882	709	1,010
11	839	855	1,480	777	370	692	836	4,000	1,390	874	990	1,050
12	332	797	847	973	400	646	1,120	3,780	1,200	840	1,040	777
13	327	1,000	812	e770	548	683	1,290	3,590	1,220	345	783	1,010
14	372	837	1,030	e770	614	645	1,030	3,450	1,240	820	946	1,140
15	561	856	557	e760	605	332	1,400	3,450	1,200	944	1,040	1,020
16	549	912	929	e750	556	616	1,330	3,590	1,240	683	752	1,060
17	621	799	691	e740	545	605	1,660	4,500	1,270	1,070	875	1,060
18	634	852	740	e740	560	570	1,630	4,880	1,210	877	1,030	1,090
19	621	830	744	733	557	567	1,420	4,050	1,230	1,020	774	1,050
20	873	876	749	899	614	578	1,430	3,500	1,170	808	920	1,150
21	761	880	752	868	631	568	1,430	3,490	1,110	1,040	983	1,120
22	723	888	745	876	870	516	1,300	3,470	1,020	871	1,060	1,110
23	981	1,090	744	885	991	556	1,150	3,200	1,010	867	807	977
24	837	860	734	719	769	652	1,140	3,010	1,150	717	853	1,010
25	751	855	734	808	560	699	1,110	3,010	808	940	1,050	952
26	776	861	914	804	530	787	1,250	3,000	866	727	975	990
27	779	819	868	738	617	749	1,230	3,000	888	758	695	980
28	1,020	907	856	1,070	739	714	1,560	2,810	961	890	1,070	903
29	748	878	796	738	---	332	1,230	1,950	961	856	1,050	936
30	789	873	863	631	---	816	1,050	1,670	711	789	779	1,150
31	986	---	810	662	---	1,000	---	547	---	939	778	---
TOTAL	20,323	25,771	27,316	24,430	16,892	20,250	33,855	94,757	32,793	26,165	27,854	31,675
MEAN	656	859	881	788	603	653	1,128	3,057	1,093	844	899	1,056
MAX	1,020	1,090	1,700	1,070	991	1,000	1,660	4,880	1,830	1,070	1,220	1,320
MIN	327	672	557	631	333	332	330	547	329	345	651	777
AC-FT	40,310	51,120	54,180	48,460	33,510	40,170	67,150	188,000	65,040	51,900	55,250	62,830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	1,475	1,809	2,207	2,380	2,479	2,914	2,447	1,823	997	692	887	1,162
MAX	3,157	4,506	5,733	7,905	7,780	8,755	5,645	5,156	2,995	1,339	1,102	1,876
(WY)	(1985)	(1985)	(1984)	(1984)	(1965)	(1972)	(1974)	(1998)	(1998)	(1982)	(1998)	(1965)
MIN	656	735	792	771	489	450	537	418	391	349	349	457
(WY)	(2005)	(1992)	(1995)	(1993)	(1992)	(1992)	(1994)	(1992)	(1992)	(1992)	(1992)	(1992)

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1960 - 2005

ANNUAL TOTAL	360,176	382,081		
ANNUAL MEAN	984	1,047		1,769
HIGHEST ANNUAL MEAN				3,024
LOWEST ANNUAL MEAN				564
HIGHEST DAILY MEAN	2,930	Feb 19	4,880	May 18
LOWEST DAILY MEAN	324	Aug 3	327	Oct 13
ANNUAL SEVEN-DAY MINIMUM	452	Jul 30	485	Oct 12
ANNUAL RUNOFF (AC-FT)	714,400		757,900	1,282,000
10 PERCENT EXCEEDS	1,570		1,450	3,310
50 PERCENT EXCEEDS	878		856	1,270
90 PERCENT EXCEEDS	557		560	617

e Estimated

KLAMATH RIVER BASIN

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OR—Continued



2005 Water Year
KLAMATH RIVER BASIN

11510700 KLAMATH RIVER BLW JOHN C. BOYLE PWRPLNT, NR KENO, OR

Latitude: 42° 05 ' 05"

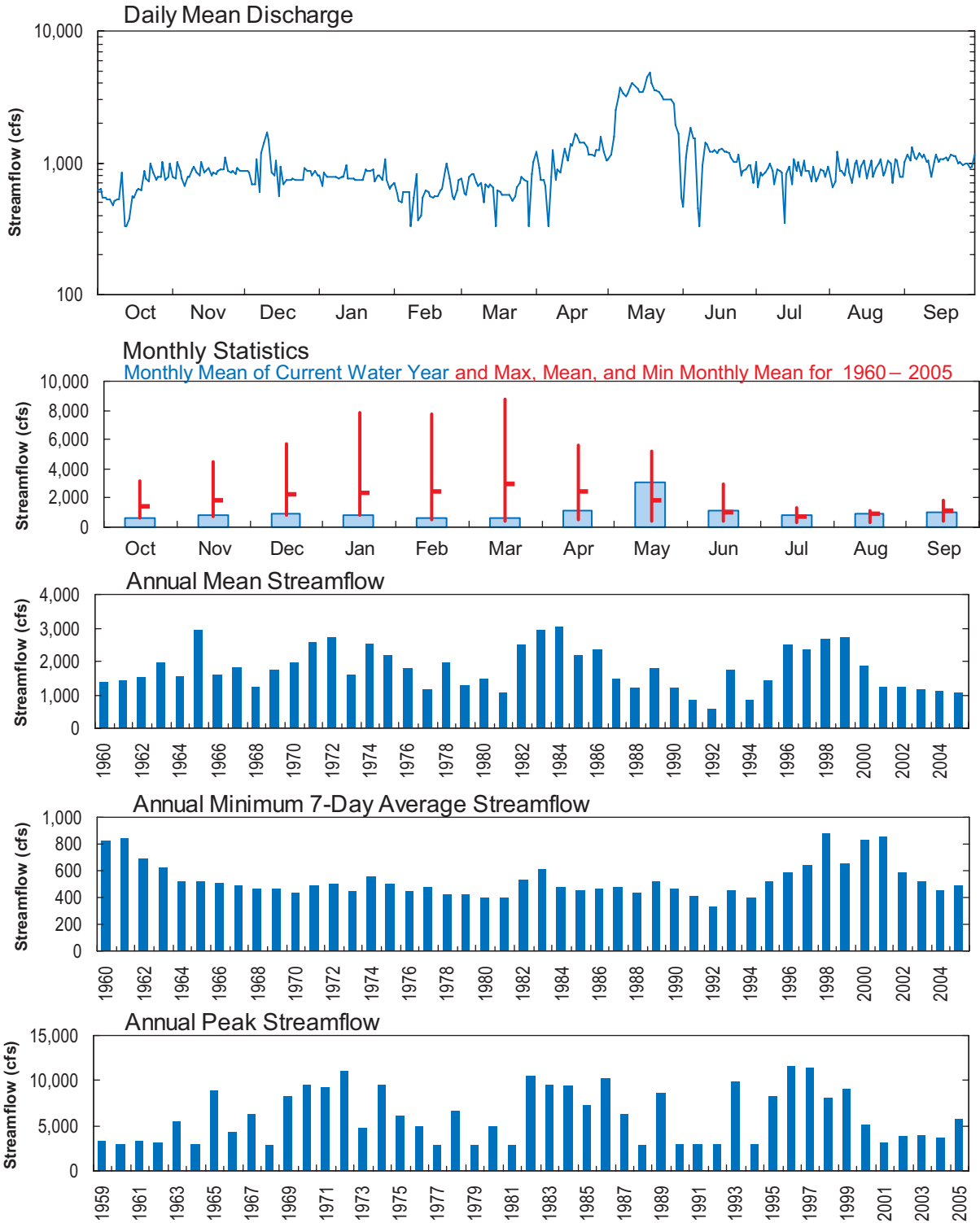
Longitude: 122° 04 ' 20"

Hydrologic Unit Code: 18010206

Klamath County

Datum: 3274.82 feet

Drainage Area: 4080. mi²



KLAMATH RIVER BASIN

11512000 FALL CREEK AT COPCO, CA

LOCATION.--Lat 41°58'32", long 122°21'50", in NE ¼ sec.36, T.48 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, 1,500 ft upstream from mouth, 0.8 mi south of Fall Creek Power Plant and Copco Post Office.

DRAINAGE AREA.--14.8 mi².

PERIOD OF RECORD.--October 1928 to September 1959. May 2003 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 725 ft above NGVD of 1929, from topographic map. Prior to Dec. 16, 1937, staff gage 1,000 ft downstream at different datum. Dec. 16, 1937 to Aug. 23, 1949, staff gage at present site and datum.

REMARKS.--No estimated daily discharges. Records fair. Flow affected by PacifiCorp (Irongate Lake), diversion to city of Yreka Water Department, 1,000 ft upstream and other small diversions for irrigation.

AVERAGE DISCHARGE.--33 years (1929-59, 2004-05), 39.1 ft³/s, 28,310 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 875 ft³/s Dec. 22, 1955, gage height, 4.35 ft, from rating curve extended above 90 ft³/s, on basis of slope-area measurements at gage height 2.42 ft and 4.05 ft; minimum discharge, 3.6 ft³/s Sept. 13, 1953; minimum daily discharge, 21 ft³/s Aug. 11, 12, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164 ft³/s Dec. 8, gage height, 3.86 ft; minimum discharge, 18 ft³/s May 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	48	56	45	46	43	41	47	37	36	26	22
2	34	49	55	44	46	44	41	46	37	34	26	22
3	34	50	55	43	45	43	42	46	35	33	25	22
4	33	51	55	43	45	42	41	44	35	33	25	22
5	34	51	54	43	44	41	40	44	33	32	25	22
6	34	52	54	44	44	42	40	43	35	32	25	22
7	35	53	60	44	44	40	41	43	36	32	25	22
8	36	52	123	44	43	41	41	46	35	31	25	22
9	39	51	84	44	44	41	42	64	35	30	24	22
10	38	51	54	44	44	39	40	61	34	30	25	23
11	38	51	50	44	43	40	41	53	34	27	25	23
12	37	52	50	43	44	40	40	51	33	26	25	23
13	38	52	48	43	46	40	39	49	33	26	25	23
14	38	53	48	43	47	40	40	48	33	26	25	22
15	39	53	47	44	45	40	38	48	33	26	24	22
16	39	52	47	45	45	40	40	48	35	26	25	23
17	43	53	47	47	43	40	39	47	36	25	25	23
18	43	53	46	47	42	41	38	50	36	26	25	23
19	49	55	46	47	42	41	38	50	35	25	25	22
20	49	57	45	47	43	42	38	49	34	25	25	22
21	49	58	45	47	41	41	37	47	33	26	25	23
22	48	58	45	46	41	43	37	46	33	29	25	23
23	54	58	45	46	42	43	39	44	33	25	25	24
24	49	57	44	46	41	41	38	44	33	25	25	24
25	49	60	44	46	43	40	38	43	34	25	25	23
26	52	58	45	47	42	41	38	42	34	25	24	23
27	50	59	45	47	42	42	38	40	33	25	23	23
28	48	58	45	47	42	43	57	39	34	25	23	23
29	47	58	47	47	---	44	49	39	37	26	22	23
30	48	56	46	46	---	42	47	38	37	26	22	23
31	48	---	45	46	---	41	---	37	---	26	22	---
TOTAL	1,305	1,619	1,620	1,399	1,219	1,281	1,218	1,436	1,035	864	761	679
MEAN	42.1	54.0	52.3	45.1	43.5	41.3	40.6	46.3	34.5	27.9	24.5	22.6
MAX	54	60	123	47	47	44	57	64	37	36	26	24
MIN	33	48	44	43	41	39	37	37	33	25	22	22
AC-FT	2,590	3,210	3,210	2,770	2,420	2,540	2,420	2,850	2,050	1,710	1,510	1,350
CFSM	2.84	3.65	3.53	3.05	2.94	2.79	2.74	3.13	2.33	1.88	1.66	1.53
IN.	3.28	4.07	4.07	3.52	3.06	3.22	3.06	3.61	2.60	2.17	1.91	1.71
CAL YR2004	TOTAL 15,697	MEAN 42.9	MAX 142	MIN 21	AC-FT 31,140	CFSM 2.90	IN. 39.45					
WTR YR2005	TOTAL 14,436	MEAN 39.6	MAX 123	MIN 22	AC-FT 28,630	CFSM 2.67	IN. 36.29					

KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.--Lat 41°55'41", long 122°26'35", in SE ¼ NE ¼ sec.17, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, on left bank 0.1 mi downstream from Bogus Creek, 0.6 mi downstream from Iron Gate Dam, and 5.9 mi northeast of Hornbrook.

DRAINAGE AREA.--4,630 mi², approximately (not including Lost River, Butte Creek, or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year. Chemical data available October 1961 to September 1981. Water temperature data available October 1962 to September 1980.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft above NGVD of 1929 (levels by PacifiCorp, formerly Pacific Power and Light Co.).

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake (station 11507001), capacity, 523,700 acre-ft, Iron Gate Reservoir, other smaller reservoirs, and diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,400 ft³/s Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft³/s, on basis of slope-area measurement of peak flow; minimum daily discharge, 389 ft³/s Aug. 25-28, 1992.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,520 ft³/s May 18, gage height, 6.92 ft; minimum daily discharge, 799 ft³/s Feb. 9.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	942	924	931	1,040	1,040	860	872	1,470	1,540	941	1,010	1,180
2	1,020	922	931	1,040	983	810	924	1,550	1,500	921	1,010	1,180
3	979	936	929	1,040	855	811	1,200	1,820	1,520	923	1,010	1,180
4	929	932	930	1,040	808	850	1,080	1,900	1,440	923	1,010	1,180
5	925	933	930	1,040	802	952	1,020	3,430	1,430	931	1,010	1,180
6	925	932	1,010	1,040	804	1,000	1,020	4,400	1,430	926	1,000	1,170
7	921	933	1,180	1,040	803	1,000	1,030	4,110	1,360	927	1,010	1,180
8	914	933	1,780	1,040	802	1,000	1,210	3,900	1,340	925	1,010	1,180
9	916	933	1,900	1,040	799	1,000	1,210	4,290	1,340	921	1,010	1,170
10	914	936	1,800	1,050	799	1,010	1,220	4,560	1,340	918	1,010	1,180
11	914	931	1,830	1,050	799	1,010	1,220	4,550	1,340	917	1,010	1,170
12	919	929	1,760	1,050	799	972	1,240	4,520	1,220	917	1,010	1,170
13	918	927	1,660	1,050	802	839	1,530	4,400	1,210	918	1,000	1,180
14	919	932	1,520	1,060	805	805	1,520	4,210	1,210	924	1,020	1,180
15	920	936	1,390	1,050	802	808	1,520	4,040	1,210	925	1,010	1,180
16	920	939	1,250	1,050	799	810	1,520	4,080	1,220	928	1,000	1,180
17	924	941	1,140	1,060	802	807	1,530	4,660	1,130	928	1,000	1,180
18	916	941	1,070	1,050	802	805	1,530	5,380	1,110	930	987	1,170
19	914	941	938	1,050	804	809	1,520	5,080	1,120	928	976	1,180
20	917	941	929	1,040	804	897	1,530	4,780	1,120	927	979	1,180
21	914	941	927	1,030	804	859	1,510	4,510	1,120	920	983	1,180
22	915	941	926	1,040	804	822	1,510	4,220	1,120	924	990	1,180
23	943	933	925	1,040	805	815	1,510	3,890	1,120	918	991	1,180
24	923	925	927	1,040	805	811	1,510	3,580	1,050	918	991	1,180
25	921	927	927	1,040	805	815	1,510	3,290	1,020	918	985	1,180
26	929	925	927	1,040	803	813	1,460	2,990	1,030	922	985	1,180
27	928	929	937	1,030	803	842	1,450	2,660	1,020	922	989	1,180
28	925	928	938	1,180	836	872	1,610	2,460	1,020	927	991	1,190
29	923	930	943	1,270	---	830	1,760	2,140	1,020	932	995	1,180
30	919	929	941	1,130	---	840	1,610	1,880	1,020	933	990	1,180
31	923	---	946	1,060	---	828	---	1,630	---	930	1,010	---
TOTAL	28,729	27,980	36,072	32,820	22,978	27,002	40,886	110,380	36,670	28,662	30,982	35,360
MEAN	927	933	1,164	1,059	821	871	1,363	3,561	1,222	925	999	1,179
MAX	1,020	941	1,900	1,270	1,040	1,010	1,760	5,380	1,540	941	1,020	1,190
MIN	914	922	925	1,030	799	805	872	1,470	1,020	917	976	1,170
AC-FT	56,980	55,500	71,550	65,100	45,580	53,560	81,100	218,900	72,730	56,850	61,450	70,140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	1,590	2,002	2,566	2,847	2,991	3,481	2,923	2,159	1,154	798	972	1,270
MAX	3,353	5,254	6,735	9,553	9,150	10,780	6,922	5,559	3,289	1,429	1,208	2,052
(WY)	(1985)	(1985)	(1984)	(1997)	(1965)	(1972)	(1971)	(1998)	(1998)	(1982)	(1965)	(1965)
MIN	852	873	889	888	525	511	572	512	506	428	398	538
(WY)	(1982)	(1992)	(1992)	(1992)	(1992)	(1992)	(1994)	(1992)	(1992)	(1992)	(1992)	(1992)

KLAMATH RIVER BASIN

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	452,625		458,521			
ANNUAL MEAN	1,237		1,256		2,058	
HIGHEST ANNUAL MEAN					3,657	
LOWEST ANNUAL MEAN					641	
HIGHEST DAILY MEAN	4,110	Feb 18	5,380	May 18	25,000	Dec 22, 1964
LOWEST DAILY MEAN	614	Jul 22	799	Feb 9	389	Aug 25, 1992
ANNUAL SEVEN-DAY MINIMUM	615	Aug 6	800	Feb 7	390	Aug 24, 1992
MAXIMUM PEAK FLOW			5,520	May 18	29,400	Dec 22, 1964
MAXIMUM PEAK STAGE			6.92	May 18	13.63	Dec 22, 1964
ANNUAL RUNOFF (AC-FT)	897,800		909,500		1,491,000	
10 PERCENT EXCEEDS	2,070		1,620		3,990	
50 PERCENT EXCEEDS	1,010		1,000		1,380	
90 PERCENT EXCEEDS	710		819		735	