

KETTLE RIVER BASIN

12401500 KETTLE RIVER NEAR FERRY, WA
(International gaging station)

LOCATION.--Lat 48°58'53", long 118°45'55", in SE 1/4 NW 1/4 sec.10, T.40 N., R.32 E., Ferry County, Hydrologic Unit 17020002, on right bank 0.5 mi upstream from Catherine Creek, 1.3 mi south of international boundary and Ferry, 3.2 mi upstream from Toroda Creek, and at mile 84.02.

DRAINAGE AREA.--2,200 mi², approximately.

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,836.8 ft above NGVD of 1929. Prior to Nov. 23, 1928, nonrecording gage at same site and datum.

REMARKS.--Records excellent except for estimated daily discharges, which are good. Several small diversions upstream from station for irrigation. No regulation. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--74 years (water years 1929-2002), 1,545 ft³/s, 1,120,000 acre-ft/yr.

COOPERATION.--This station is maintained by the United States under agreement with Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft³/s May 29, 1948, gage height, 21.15 ft; minimum discharge, 14 ft³/s, discharge measurement, Jan. 23, 1930, but may have been less during period of ice effect Jan. 18-23, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 29	1530	*12,100	17.81	May 29	1730		*17.83

Minimum discharge, 91 ft³/s Sept. 15,16, gage height 9.26 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	222	338	274	289	254	379	4440	9500	2800	292	115
2	142	250	347	273	320	272	409	5190	8530	2350	284	127
3	135	253	375	272	333	286	413	5550	7970	2050	273	123
4	130	246	357	273	321	278	448	4980	7390	1840	263	114
5	125	246	331	269	317	262	483	4300	7640	1710	251	112
6	122	255	323	273	291	198	576	3850	8090	1600	246	114
7	120	262	297	282	304	226	748	3500	6660	1450	242	113
8	120	244	291	298	312	227	900	3200	5390	1430	236	110
9	120	228	249	331	291	223	969	2970	4570	1650	244	109
10	120	228	267	438	290	258	1040	2780	4300	1480	233	112
11	124	218	289	504	269	255	1230	2640	4590	1310	213	113
12	134	202	192	508	230	263	1660	2670	5350	e1180	198	111
13	142	210	233	478	262	264	2530	3030	5850	e1060	184	104
14	148	237	330	394	270	259	4870	3990	6480	e1000	173	98
15	151	259	210	320	247	255	5810	4730	6670	e900	163	94
16	153	614	236	314	243	256	4720	4280	6710	822	155	93
17	152	871	302	318	263	245	3920	4160	6000	753	152	100
18	150	737	244	287	279	225	3400	4760	5440	690	149	100
19	164	566	273	309	284	215	3090	5020	6240	605	150	100
20	172	538	218	353	274	219	3040	6040	5300	569	144	114
21	176	565	174	332	277	216	3160	7690	4530	524	139	119
22	183	542	136	321	280	239	3360	8590	4390	485	136	115
23	195	513	153	268	283	239	3480	9020	4480	453	129	115
24	196	484	223	248	242	244	3260	7950	4290	424	124	113
25	206	452	255	349	203	269	3010	7240	3990	397	121	107
26	206	406	220	343	209	303	2850	7630	3750	388	125	103
27	201	401	146	e300	216	321	2780	8390	3670	404	125	102
28	201	393	118	e230	248	327	2780	9600	3390	382	120	101
29	207	383	170	e170	---	337	2980	11600	3530	348	119	102
30	209	359	223	200	---	340	3530	11800	3710	325	117	103
31	214	---	266	241	---	351	---	10800	---	307	115	---
TOTAL	4968	11384	7786	9770	7647	8126	71825	182390	168400	31686	5615	3256
MEAN	160	379	251	315	273	262	2394	5884	5613	1022	181	109
MAX	214	871	375	508	333	351	5810	11800	9500	2800	292	127
MIN	120	202	118	170	203	198	379	2640	3390	307	115	93
AC-FT	9850	22580	15440	19380	15170	16120	142500	361800	334000	62850	11140	6460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	379	381	270	221	230	422	2492	6711	5106	1500	437	347
MEAN	379	381	270	221	230	422	2492	6711	5106	1500	437	347
MAX	2085	1280	1161	640	626	1811	6351	10440	9924	4380	1987	1941
(WY)	1942	1942	1942	1942	1935	1983	1934	1957	1974	1982	1948	1941
MIN	90.9	84.3	78.2	40.3	72.5	110	300	2222	1338	346	104	86.7
(WY)	1988	1930	1930	1930	1930	1930	1929	1930	1987	1934	1973	1929

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1929 - 2002

ANNUAL TOTAL		332348		512853								
ANNUAL MEAN		911		1405						1545		
HIGHEST ANNUAL MEAN										2543		1997
LOWEST ANNUAL MEAN										659		1930
HIGHEST DAILY MEAN			8280	May 25	11800	May 30	20300	May 29	1948			
LOWEST DAILY MEAN			74	Feb 7	93	Sep 16	15	Jan 16	1930			
ANNUAL SEVEN-DAY MINIMUM			93	Sep 18	98	Sep 13	15	Jan 16	1930			
ANNUAL RUNOFF (AC-FT)		659200		1017000						1120000		
10 PERCENT EXCEEDS		3330		4740						5220		
50 PERCENT EXCEEDS		244		287						379		
90 PERCENT EXCEEDS		120		120						130		

e Estimated