

COLVILLE RIVER BASIN

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12409000 COLVILLE RIVER AT KETTLE FALLS, WA

LOCATION.--Lat 48°35'40", Long 118°03'41", in NE 1/4 NE 1/4 sec.30, T.36 N., R.38, E., Stevens County, Hydrologic Unit 17020003, on right bank 600 ft downstream from Washington Water Power Co.'s hydroelectric plant at foot of Meyers Falls, 1.0 mi south of town of Kettle Falls, and at mile 5.0.

DRAINAGE AREA.--1,007 mi².

PERIOD OF RECORD.--October 1922 to current year. Published as "at Meyer Falls" 1922-38.

REVISED RECORDS.--WSP 1316: 1938(M), 1941(M), 1948(M). WSP 1636: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,400 ft above NGVD of 1929, from topographic map. Prior to Oct. 21, 1932, nonrecording gage at site 500 ft upstream at different datum. Oct. 21, 1932, to Sept. 19, 1938, nonrecording gages at site 200 ft upstream at different datum. Sept. 20, 1938, to Mar. 20, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Several diversions upstream from station for irrigation. Regulation at low flow by powerplant. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--80 years (water years 1923-2002), 309 ft³/s, 224,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,440 ft³/s Jan. 21, 1974, gage height, 9.84 ft; maximum gage height, 10.17 ft Apr. 23, 1956; minimum discharge observed, 0.5 ft³/s Aug. 15, 1930.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,720 ft³/s Apr. 15, gage height, 7.95 ft; minimum discharge, 17 ft³/s Oct. 30, result of regulation.

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	63	120	183	133	238	e300	443	929	515	219	77	73
2	65	116	195	172	233	e290	466	933	492	201	77	69
3	65	104	203	170	228	e290	473	944	461	192	77	65
4	64	99	199	163	224	e275	481	928	446	181	77	64
5	63	99	185	162	221	287	494	897	426	181	77	58
6	63	91	171	165	219	285	546	890	403	169	77	69
7	66	92	160	198	221	280	630	859	386	165	74	70
8	70	96	146	389	241	269	701	800	381	170	73	70
9	70	92	147	485	259	258	736	761	386	195	73	70
10	71	91	148	501	256	268	815	710	384	196	69	70
11	82	92	135	492	245	279	935	657	374	161	64	65
12	84	93	137	472	223	332	990	619	359	159	61	63
13	88	94	143	442	e205	368	1100	593	346	147	61	66
14	93	100	199	406	e200	373	1280	580	333	139	59	65
15	88	112	295	356	e195	357	1560	571	315	134	51	65
16	85	124	255	307	e190	342	1630	562	299	124	59	65
17	79	128	330	272	211	337	1570	544	282	116	52	68
18	83	152	385	273	212	335	1510	566	290	108	57	75
19	79	137	308	302	214	324	1450	576	324	108	63	77
20	81	125	261	314	239	316	1390	597	322	97	58	78
21	81	124	235	284	253	304	1330	604	290	99	53	76
22	96	126	220	247	278	295	1280	661	267	93	55	75
23	96	143	192	234	404	296	1230	799	259	86	58	74
24	105	161	150	238	427	301	1180	788	252	89	61	74
25	97	153	e135	251	e390	322	1110	741	241	87	63	76
26	95	136	e120	281	e370	353	1050	702	227	83	61	77
27	95	131	e110	292	e325	371	1030	657	219	83	61	77
28	95	131	e120	250	e305	375	991	636	207	83	65	81
29	93	132	e155	e170	---	381	937	642	209	83	66	84
30	95	147	161	e185	---	400	926	607	229	77	58	91
31	97	---	165	e230	---	422	---	548	---	76	61	---
TOTAL	2547	3541	5948	8836	7226	9985	30264	21901	9924	4101	1998	2150
MEAN	82.2	118	192	285	258	322	1009	706	331	132	64.5	71.7
MAX	105	161	385	501	427	422	1630	944	515	219	77	91
MIN	63	91	110	133	190	258	443	544	207	76	51	58
AC-FT	5050	7020	11800	17530	14330	19810	60030	43440	19680	8130	3960	4260

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2002, BY WATER YEAR (WY)

MEAN	119	155	185	211	286	503	847	697	358	159	89.3	97.2
MAX	301	401	783	1374	970	1410	2168	1744	1035	467	258	241
(WY)	1928	1928	1974	1974	1974	1983	1969	1948	1948	1948	1948	1997
MIN	35.8	49.5	56.3	32.9	65.8	127	128	93.8	48.4	20.6	12.0	22.7
(WY)	1932	1932	1932	1930	1937	1930	1930	1930	1926	1977	1931	1931

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1923 - 2002	
ANNUAL TOTAL	56648		108421			
ANNUAL MEAN	155		297		309	
HIGHEST ANNUAL MEAN					768	
LOWEST ANNUAL MEAN					70.5	
HIGHEST DAILY MEAN	425		1630		3360	
LOWEST DAILY MEAN	32		51		0.50	
ANNUAL SEVEN-DAY MINIMUM	37		56		5.3	
ANNUAL RUNOFF (AC-FT)	112400		215100		224100	
10 PERCENT EXCEEDS	279		701		728	
50 PERCENT EXCEEDS	153		199		176	
90 PERCENT EXCEEDS	49		66		65	

e Estimated