

METHOW RIVER BASIN

12449950 METHOW RIVER NEAR PATEROS, WA

LOCATION.--Lat 48°04'39", long 119°59'02", in SE 1/4 SW 1/4 sec.20, T.30 N., R.23 E., Okanogan County, Hydrologic Unit 17020008, on right bank 1.4 mi downstream from Black Canyon Creek, 4.3 mi northwest of Pateros, and at mile 6.7.

DRAINAGE AREA.--1,772 mi².

PERIOD OF RECORD.--April 1959 to current year.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 900 ft above NGVD of 1929, from topographic map. Prior to Dec. 17, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 11,000 acres upstream from station (1959 Bureau of Reclamation land classification). U.S. Geological Survey satellite telemeter at station. Water temperature October 1968 to October 1970.

AVERAGE DISCHARGE.--43 years (water years 1960-2002), 1,550 ft³/s, 1,123,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s May 31, 1972, gage height, 12.25 ft; minimum daily discharge, 150 ft³/s Jan. 8-10, 1974, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1894, 46,700 ft³/s May 29, 1948, determined by slope-area measurement of peak flow at site 1 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 30	1115	9,870	7.70	June 16	1115	*10,400	*7.89

Minimum discharge, 270 ft³/s Oct. 1 and 2.

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	270	310	335	297	299	378	536	2160	8150	4040	917	385
2	275	312	339	300	297	378	586	2850	7600	3460	856	373
3	285	307	338	305	297	378	614	3290	7540	3080	797	364
4	285	304	333	302	297	378	627	3150	7740	2920	762	357
5	282	301	326	298	297	378	640	2890	8340	2730	722	353
6	283	298	319	299	294	378	676	2630	8790	2500	692	351
7	288	297	318	304	294	378	743	2410	7410	2410	680	351
8	295	294	318	311	297	378	821	2220	6140	2930	658	351
9	297	290	317	324	297	378	918	2050	5260	3390	625	351
10	302	290	310	333	294	379	946	1930	4810	2920	595	349
11	307	288	309	334	290	386	971	1820	5090	2900	577	339
12	309	286	305	330	288	390	1040	1840	6080	3070	569	332
13	309	289	309	326	282	392	1190	2110	7160	2840	549	324
14	309	296	310	323	275	392	1780	2660	8410	2750	530	317
15	309	317	311	315	283	387	2310	3000	9270	2610	516	311
16	309	342	306	301	285	387	2090	2990	9780	2290	506	307
17	307	354	319	298	283	392	1880	3110	8150	2120	495	302
18	305	356	325	291	286	387	1700	3530	6860	1990	480	297
19	305	350	e310	294	286	383	1580	3710	5870	1880	465	297
20	301	354	e280	299	286	385	1520	4280	5210	1760	452	296
21	301	362	e290	306	288	386	1530	6120	5220	1610	440	294
22	301	370	e295	310	293	381	1600	5920	5670	1480	436	294
23	302	373	e300	293	303	378	1660	5140	6180	1390	428	297
24	308	363	308	316	357	380	1610	4680	5990	1350	415	295
25	309	350	305	349	374	390	1570	4600	5570	1310	409	294
26	312	341	301	337	363	407	1550	4890	5640	1280	433	294
27	310	334	297	326	362	425	1530	5360	6140	1250	451	294
28	306	332	288	e300	371	439	1490	6580	5840	1160	432	294
29	304	340	294	e280	---	453	1500	8770	5270	1080	417	294
30	302	335	297	e285	---	473	1660	9510	4850	1020	404	291
31	308	---	297	295	---	495	---	9080	---	968	394	---
TOTAL	9295	9735	9609	9581	8518	12269	38868	125280	200030	68488	17102	9648
MEAN	300	324	310	309	304	396	1296	4041	6668	2209	552	322
MAX	312	373	339	349	374	495	2310	9510	9780	4040	917	385
MIN	270	286	280	280	275	378	536	1820	4810	968	394	291
AC-FT	18440	19310	19060	19000	16900	24340	77090	248500	396800	135800	33920	19140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

	478	538	481	423	420	601	1583	4932	5915	2167	703	444
MEAN	478	538	481	423	420	601	1583	4932	5915	2167	703	444
MAX	1458	1327	1361	938	803	1407	3364	9768	13150	4960	1860	1196
(WY)	1960	1991	1996	1981	1968	1968	1996	1972	1972	1999	1976	1978
MIN	294	294	270	248	262	237	309	1415	1583	471	284	238
(WY)	1988	1988	1995	1995	2001	1977	2001	1977	2001	1977	1977	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1959 - 2002
ANNUAL TOTAL	207201	518423	
ANNUAL MEAN	568	1420	1550
HIGHEST ANNUAL MEAN			2963
LOWEST ANNUAL MEAN			565
HIGHEST DAILY MEAN	4870	May 25	9780
LOWEST DAILY MEAN	226	Sep 24	270
ANNUAL SEVEN-DAY MINIMUM	228	Sep 19	281
ANNUAL RUNOFF (AC-FT)	411000	1028000	1123000
10 PERCENT EXCEEDS	1370	4970	4320
50 PERCENT EXCEEDS	303	378	542
90 PERCENT EXCEEDS	257	294	304

e Estimated