

METHOW RIVER BASIN

12447387 WOLF CREEK BELOW DIVERSION NEAR WINTHROP, WA

LOCATION.--Lat 48°29'00", long 120°18'24", in NE 1/4 NW 1/4 sec.2 T.34 N., R.20 E., Okanogan County, Hydrologic Unit 17020008, on left bank approximately 400 ft downstream from Wolf Creek diversion, 6.0 mi northwest of Winthrop, and at mi 4.2.

DRAINAGE AREA.--32.5 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1, 2000 to current year. Miscellaneous discharge measurements made at location 250 ft upstream 1972-73 and 1976.

GAGE.--Water-stage recorder. Elevation of gage is 2,660 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges and those discharges above 100 ft<sup>3</sup>/s which are fair. No known regulation. Wolf Creek Reclamation District irrigation diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--2 years (water years 2001-2002), 26.4 ft<sup>3</sup>/s, 19,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 454 ft<sup>3</sup>/s May 29, 2002, gage height 8.15 ft; maximum gage height, 8.45 ft May 29, 2002, from outside high water mark; minimum discharge, .80 ft<sup>3</sup>/s Nov. 11, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 454 ft<sup>3</sup>/s May 29, gage height, 8.15 ft; maximum gage height, 8.45 ft from outside high-water mark; minimum discharge, 1.3 ft<sup>3</sup>/s Nov. 7.

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	3.5	4.6	7.0	5.1	5.5	e30	21	142	229	74	18	6.0
2	3.3	4.5	6.6	5.1	5.3	27	21	169	223	63	17	5.9
3	3.2	4.5	6.1	5.0	5.2	19	21	169	214	56	16	6.1
4	3.1	4.3	5.2	e4.8	5.1	14	24	139	226	55	15	5.9
5	3.1	4.8	6.0	5.0	5.1	16	28	112	263	49	14	5.8
6	3.1	4.2	6.8	5.1	5.2	16	31	95	236	45	14	6.1
7	3.2	3.0	6.6	6.6	4.9	16	32	81	179	45	14	6.5
8	3.4	4.9	6.5	11	4.9	15	30	70	140	69	12	5.9
9	3.3	4.1	5.7	9.1	4.6	14	30	61	113	60	11	5.0
10	3.5	4.3	e5.6	8.2	4.7	14	29	57	108	52	11	5.1
11	3.9	4.4	5.9	7.9	4.6	14	31	60	126	56	10	5.2
12	3.8	4.3	5.7	7.9	e4.2	13	36	75	161	57	10	5.1
13	4.2	5.3	5.9	7.8	e4.5	12	63	109	200	51	9.9	4.8
14	4.0	10	e5.9	e6.8	4.8	12	125	128	232	52	9.7	4.6
15	3.9	11	5.9	e5.6	4.8	11	99	125	242	44	9.6	4.5
16	3.8	10	6.3	e6.4	4.8	11	74	119	246	37	9.1	4.4
17	3.8	8.3	6.1	e6.2	4.8	11	60	133	180	35	8.7	4.5
18	3.7	6.3	6.0	e6.2	4.8	e10	51	143	147	32	8.4	4.5
19	3.8	8.4	5.8	e6.8	5.0	10	46	143	114	30	7.9	4.5
20	3.7	8.3	e5.6	e6.8	4.8	9.9	46	193	102	26	7.7	4.4
21	3.8	7.9	5.9	e7.4	5.3	9.6	51	232	112	22	7.5	4.3
22	4.4	8.0	5.4	e5.6	90	9.6	60	196	134	19	7.3	4.3
23	5.2	6.9	5.3	e5.6	185	9.9	61	167	153	17	6.9	4.3
24	4.2	6.3	5.2	e6.0	64	11	57	157	131	16	7.0	4.3
25	4.5	6.4	5.1	6.7	e30	12	55	169	122	16	8.5	4.3
26	4.3	e4.8	e4.8	6.1	e32	15	54	179	133	15	8.3	4.3
27	4.5	e4.5	e5.0	e5.6	e34	16	51	197	147	14	7.4	4.3
28	4.2	e7.0	5.5	e5.2	e36	16	50	301	130	11	7.0	4.3
29	4.0	e6.4	5.3	e4.7	---	16	59	338	109	13	6.7	4.2
30	4.4	e6.0	5.1	e5.0	---	17	88	313	94	18	6.4	4.0
31	5.5	---	5.1	e6.0	---	19	---	267	---	20	6.6	---
TOTAL	120.3	183.7	178.9	197.3	573.9	446.0	1484	4839	4946	1169	312.6	147.4
MEAN	3.881	6.123	5.771	6.365	20.50	14.39	49.47	156.1	164.9	37.71	10.08	4.913
MAX	5.5	11	7.0	11	185	30	125	338	263	74	18	6.5
MIN	3.1	3.0	4.8	4.7	4.2	9.6	21	57	94	11	6.4	4.0
AC-FT	239	364	355	391	1140	885	2940	9600	9810	2320	620	292
CFSM	0.12	0.19	0.18	0.20	0.63	0.44	1.52	4.80	5.07	1.16	0.31	0.15
IN.	0.14	0.21	0.20	0.23	0.66	0.51	1.70	5.54	5.66	1.34	0.36	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	4.521	5.070	4.629	4.895	11.96	10.80	31.25	110.7	97.10	24.01	7.619	4.053
MAX	5.16	6.12	5.77	6.36	20.5	14.4	49.5	156	165	37.7	10.1	4.91
(WY)	2001	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	3.88	4.02	3.49	3.43	3.41	7.22	13.0	65.4	29.3	10.3	5.15	3.19
(WY)	2002	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	4780.5	14598.1		
ANNUAL MEAN	13.10	39.99	26.42	
HIGHEST ANNUAL MEAN			40.0	2002
LOWEST ANNUAL MEAN			12.8	2001
HIGHEST DAILY MEAN	152	May 24	338	May 29 2002
LOWEST DAILY MEAN	2.7	Sep 18	3.0	Nov 7
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 18	3.2	Oct 2
ANNUAL RUNOFF (AC-FT)	9480	28960	19140	
ANNUAL RUNOFF (CFSM)	0.40	1.23	0.81	
ANNUAL RUNOFF (INCHES)	5.47	16.71	11.04	
10 PERCENT EXCEEDS	34	136	75	
50 PERCENT EXCEEDS	5.9	8.5	6.4	
90 PERCENT EXCEEDS	3.3	4.3	3.4	

e Estimated