

METHOW RIVER BASIN

12447390 ANDREWS CREEK NEAR MAZAMA, WA  
(Hydrologic benchmark station)

LOCATION.--Lat 48°49'23", long 120°08'41", in NE 1/4 sec.1, T.38 N., R.21 E., Okanogan County, Hydrologic Unit 17020008, Okanogan National Forest, on left bank 50 ft upstream from Blizzard Creek, 3.5 mi upstream from mouth, and 20 mi northeast of Mazama.

DRAINAGE AREA.--22.1 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1968 to current year.

REVISED RECORDS.--WDR WA-76-2: 1975. WDR WA-77-2: 1976.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 4,300 ft above NGVD of 1929, from topographic map.

REMARKS.--Records poor. No regulation or diversion. Chemical analyses water years 1972-96.

AVERAGE DISCHARGE.--34 years (water years 1969-2002), 31.3 ft<sup>3</sup>/s, 19.26 in/yr, 22,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,120 ft<sup>3</sup>/s June 10, 1972, gage height, 4.00 ft, from rating curve extended above 440 ft<sup>3</sup>/s; minimum discharge, 1.2 ft<sup>3</sup>/s Nov. 4, Dec. 30, 1968, Nov. 20, 1970, Apr. 7, 1975, Nov. 7, 2001.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 30	--	(a)*403	(a)*2.99	June 14	1930	360	2.88

Minimum discharge, 1.2 ft<sup>3</sup>/s Nov. 7.  
(a) From crest-stage gage.

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	3.2	3.4	4.1	3.5	3.3	3.6	3.6	27	e230	81	e14	5.9
2	3.1	3.4	4.2	3.5	3.3	3.6	3.5	39	e200	73	e13	5.7
3	2.9	3.5	4.1	3.5	3.3	3.6	3.6	42	e190	66	e12	5.8
4	2.9	3.3	4.1	3.5	3.2	3.6	3.7	38	e205	60	e12	5.6
5	2.9	3.4	4.2	3.4	3.3	3.6	4.0	36	e230	54	e11	5.5
6	2.9	2.9	4.1	3.5	3.3	3.5	4.5	32	e215	49	e11	5.8
7	2.9	2.3	4.1	3.8	3.4	3.5	4.6	30	183	45	e13	6.5
8	2.9	3.4	4.0	4.1	3.3	3.3	4.5	27	153	61	e12	7.0
9	2.9	2.8	4.0	3.6	3.3	3.3	4.6	25	134	48	11	6.1
10	2.8	2.9	3.9	3.5	3.3	3.3	4.7	24	146	43	11	5.7
11	2.9	3.0	3.9	3.5	3.3	3.4	5.0	25	174	40	10	5.5
12	2.9	3.0	3.7	3.5	3.2	3.3	5.7	32	207	e35	10	5.2
13	3.2	4.4	3.7	3.6	3.3	3.3	7.3	e44	239	e33	9.7	5.0
14	3.2	6.7	3.8	3.6	3.3	3.3	13	e50	269	e30	9.3	4.8
15	2.8	10	3.7	3.6	3.2	3.3	11	e58	293	e28	8.9	4.7
16	3.1	13	3.8	3.6	3.2	3.3	e10	e55	256	e26	8.6	4.5
17	3.0	7.4	3.8	3.5	3.2	3.3	e9.8	e62	210	e24	8.4	4.6
18	3.0	4.8	3.7	3.5	3.2	3.2	e9.4	e73	181	e23	8.5	4.5
19	3.0	6.5	3.7	3.5	3.2	3.2	e9.2	e76	150	e22	8.1	4.4
20	2.9	5.9	3.7	3.5	3.2	3.2	e10	e138	141	e21	8.1	4.4
21	3.0	5.7	3.7	3.5	3.2	3.2	e12	e173	145	e20	8.0	4.2
22	3.1	5.2	3.6	3.3	3.8	3.2	e14	e150	152	e19	7.7	4.2
23	3.2	4.8	3.6	3.3	4.4	3.4	e13	e130	141	e18	7.4	4.1
24	3.0	3.9	3.5	3.4	3.9	3.5	12	e120	133	e16	7.1	3.9
25	3.2	4.8	3.5	3.5	3.6	3.4	12	e135	125	e19	7.3	3.8
26	3.1	4.2	3.4	3.5	3.6	3.4	12	e160	121	e18	7.5	3.8
27	3.3	4.1	3.4	3.4	3.6	3.4	12	e200	115	e17	7.0	4.0
28	2.8	3.4	3.4	3.3	3.6	3.4	12	e250	109	e17	6.6	3.8
29	3.2	4.2	3.4	3.3	---	3.3	14	e300	119	e16	6.4	3.7
30	3.5	4.1	3.4	3.3	---	3.5	19	e320	93	e16	6.2	3.8
31	3.9	---	3.5	3.3	---	3.6	---	e260	---	e15	6.0	---
TOTAL	94.7	140.4	116.7	108.4	95.0	105.0	263.7	3131	5259	1053	286.8	146.5
MEAN	3.055	4.680	3.765	3.497	3.393	3.387	8.790	101.0	175.3	33.97	9.252	4.883
MAX	3.9	13	4.2	4.1	4.4	3.6	19	320	293	81	14	7.0
MIN	2.8	2.3	3.4	3.3	3.2	3.2	3.5	24	93	15	6.0	3.7
AC-FT	188	278	231	215	188	208	523	6210	10430	2090	569	291
CFSM	0.14	0.21	0.17	0.16	0.15	0.15	0.40	4.57	7.93	1.54	0.42	0.22
IN.	0.16	0.24	0.20	0.18	0.16	0.18	0.44	5.27	8.85	1.77	0.48	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

	6.605	6.474	4.973	4.097	3.617	3.812	14.98	110.2	152.2	46.12	13.76	8.374
MEAN	6.605	6.474	4.973	4.097	3.617	3.812	14.98	110.2	152.2	46.12	13.76	8.374
MAX	19.1	22.1	13.4	10.3	6.53	6.85	49.9	205	419	125	34.7	40.8
(WY)	1979	2000	2000	1984	1982	1992	1994	1998	1974	1999	1976	1978
MIN	2.58	2.72	2.17	1.69	1.71	1.81	2.95	36.4	34.9	13.6	5.36	3.28
(WY)	1971	1971	1971	1971	2001	2001	1975	1984	2001	2001	1973	1970

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1968 - 2002
ANNUAL TOTAL	3945.7	10800.2	
ANNUAL MEAN	10.81	29.59	31.33
HIGHEST ANNUAL MEAN			59.1
LOWEST ANNUAL MEAN			10.7
HIGHEST DAILY MEAN	150	320	874
LOWEST DAILY MEAN	1.5	2.3	1.2
ANNUAL SEVEN-DAY MINIMUM	1.6	2.9	1.4
ANNUAL RUNOFF (AC-FT)	7830	21420	22700
ANNUAL RUNOFF (CFSM)	0.49	1.34	1.42
ANNUAL RUNOFF (INCHES)	6.64	18.18	19.26
10 PERCENT EXCEEDS	32	123	98
50 PERCENT EXCEEDS	3.6	4.2	6.4
90 PERCENT EXCEEDS	1.8	3.2	2.9

e Estimated