

## METHOW RIVER BASIN

## 12447383 METHOW RIVER ABOVE GOAT CREEK NEAR MAZAMA, WA

LOCATION.--Lat 48°34'32", long 120°23'05", in NE 1/4 SE 1/4 sec.31, T.36 N., R.20 E., Okanogan County, Hydrologic Unit 17020008, on left bank, 0.6 mi upstream from Goat Creek, and 1.5 mi southeast of Mazama, and at mile 63.8.

DRAINAGE AREA.--373 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1991 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,040 ft above NGVD of 1929, from topographic map. Crest-stage gage since September 1992.

REMARKS.--Records fair except for estimated daily discharges which are poor. No known regulation. Several diversions for irrigation upstream from station. U. S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--11 years (water years 1992-2002), 512 ft<sup>3</sup>/s, 370,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft<sup>3</sup>/s June 17, 1999, gage height, 20.56 ft; minimum discharge, no flow for all or part of many days during most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 2,500 ft<sup>3</sup>/s and minimum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 21	0330	3,170	17.63	June 16	--	--	(a) *20.26
May 30	0000	5,240	18.99	June 23	0130	4,370	18.83
June 6	0730	4,490	19.06	June 27	0030	5,090	18.91
June 16	0200	*6,230	20.04				

Minimum discharge, no flow many days Oct.-Feb.

(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	0.00	0.00	0.00	0.00	0.00	e25	e97	1100	3500	1660	353	71
2	0.00	0.00	0.00	0.00	0.00	e26	e93	1410	3380	1420	316	69
3	0.00	0.00	0.00	0.00	0.00	e26	e89	1440	3340	1290	292	65
4	0.00	0.00	0.00	0.00	0.00	e27	e105	1300	3470	1310	264	59
5	0.00	0.00	0.00	0.00	0.00	e27	169	1140	3870	1160	246	55
6	0.00	0.00	0.00	0.00	0.00	e26	221	1010	4040	1060	233	51
7	0.00	0.00	0.00	0.00	0.00	e25	286	921	3090	1120	215	47
8	0.00	0.00	0.00	0.00	0.00	e25	311	882	2390	1840	193	42
9	0.00	0.00	0.00	0.00	0.00	e28	323	763	1890	1590	181	37
10	0.00	0.00	0.00	0.00	0.00	e30	329	704	1770	1470	188	35
11	0.00	0.00	0.00	0.00	0.00	e33	355	677	2220	1640	191	34
12	0.00	0.00	0.00	0.00	0.00	e33	377	800	3050	1650	177	30
13	0.00	0.00	0.00	0.00	0.00	e33	528	1040	3810	1510	167	27
14	0.00	0.00	0.00	0.00	0.00	e32	953	1270	4750	1470	166	25
15	0.00	0.00	0.00	0.00	0.00	e32	920	1320	5350	1300	165	22
16	0.00	0.00	0.00	0.00	0.00	e32	812	1280	5310	1120	153	21
17	0.00	0.00	0.00	0.00	0.00	e31	769	1430	3930	1060	142	19
18	0.00	0.00	0.00	0.00	0.00	e31	678	1640	3290	994	128	18
19	0.00	0.00	0.00	0.00	0.00	e30	629	1650	2560	932	117	17
20	0.00	0.00	0.00	0.00	0.00	e30	594	2300	2360	845	108	15
21	0.00	0.00	0.00	0.00	0.00	e30	621	2970	2610	754	105	14
22	0.00	0.00	0.00	0.00	e10	e29	644	2530	3530	711	100	13
23	0.00	0.00	0.00	0.00	e20	e40	641	2100	4090	682	94	12
24	0.00	0.00	0.00	0.00	e25	e49	606	1890	3490	675	92	10
25	0.00	0.00	0.00	0.00	e23	e60	591	1930	3360	652	96	8.8
26	0.00	0.00	0.00	0.00	e23	e70	568	2130	4090	642	110	8.2
27	0.00	0.00	0.00	0.00	e24	e69	534	2540	3950	596	102	7.0
28	0.00	0.00	0.00	0.00	e25	e68	519	3250	3070	533	94	6.0
29	0.00	0.00	0.00	0.00	---	e68	540	4400	2730	494	88	4.9
30	0.00	0.00	0.00	0.00	---	e70	719	4580	2200	451	82	4.9
31	0.00	---	0.00	0.00	---	e83	---	4120	---	413	76	---
TOTAL	0.00	0.00	0.00	0.00	150.00	1218	14621	56517	100490	33044	5034	847.8
MEAN	0.000	0.000	0.000	0.000	5.357	39.29	487.4	1823	3350	1066	162.4	28.26
MAX	0.00	0.00	0.00	0.00	25	83	953	4580	5350	1840	353	71
MIN	0.00	0.00	0.00	0.00	0.00	25	89	677	1770	413	76	4.9
AC-FT	0.00	0.00	0.00	0.00	298	2420	29000	112100	199300	65540	9980	1680

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2002, BY WATER YEAR (WY)

	27.90	97.33	71.93	22.42	14.51	102.4	578.9	2028	2191	956.1	200.6	39.89
MEAN	27.90	97.33	71.93	22.42	14.51	102.4	578.9	2028	2191	956.1	200.6	39.89
MAX	214	452	523	124	93.3	405	1080	3297	3907	2527	610	102
(WY)	1998	2000	1996	1996	1996	1992	1996	1998	1999	1999	1999	1999
MIN	0.000	0.000	0.000	0.000	0.000	0.000	10.0	937	642	191	29.0	0.65
(WY)	1995	1993	1993	1992	1993	1993	2001	2001	2001	2001	2001	1994

## SUMMARY STATISTICS

## FOR 2001 CALENDAR YEAR

## FOR 2002 WATER YEAR

## WATER YEARS 1991 - 2002

ANNUAL TOTAL		55479.27		211921.80		
ANNUAL MEAN		152.0		580.6		
HIGHEST ANNUAL MEAN					511.7	
LOWEST ANNUAL MEAN					798	1999
HIGHEST DAILY MEAN		2530	May 24	5350	Jun 15	8460
LOWEST DAILY MEAN		0.00	Jan 1	0.00	Oct 1	0.00
ANNUAL SEVEN-DAY MINIMUM		0.00	Jan 1	0.00	Oct 1	0.00
ANNUAL RUNOFF (AC-FT)		110000		420300		370700
10 PERCENT EXCEEDS		549		2160		1700
50 PERCENT EXCEEDS		0.00		30		62
90 PERCENT EXCEEDS		0.00		0.00		0.00

e Estimated