

METHOW RIVER BASIN

12447600 CHEWUCH RIVER ABOVE CUB CREEK NEAR WINTHROP, WA

LOCATION.--Lat 48°33'53", long 120°10'35", in SE 1/4 NW 1/4 sec.2 T.35 N., R.21 E., Okanogan County, Hydrologic Unit 17020008, on left bank at Frank MacPherson bridge at junction of East and West Chewack Rd., 0.9 mi below Boulder Creek, at mile 7.6 and 7.2 mi northeast of Winthrop.

DRAINAGE AREA.--466 mi².

PERIOD OF RECORD.--October 2000 to current year. Miscellaneous discharge measurements 1978-84.

REVISED RECORD.--Miscellaneous discharge measurements 1978-84 incorrectly published as at station 12447500 Chewack River below Boulder Creek near Winthrop, WA.

GAGE.--Water-stage recorder. Elevation of gage is 1,980 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Several diversions for irrigation upstream from station.

AVERAGE DISCHARGE.--2 years (water years 2001-2002) 187 ft³/s, 135,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 2,930 ft³/s May 30, 2002, gage height 12.86 ft; maximum gage height 13.17 ft, May 30, 2002, from outside high water mark; minimum discharge, 20 ft³/s Sept. 18, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,930 ft³/s May 30, gage height 12.86 ft; maximum gage height 13.17 ft, May 30, from outside high-water mark; minimum discharge, 21 ft³/s Feb. 12, but may have been less during periods of ice effect or missing record.

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	47	54	e58	49	e49	49	70	411	2100	651	109	48
2	46	51	58	50	e49	49	68	527	1980	571	102	46
3	45	49	57	48	e48	48	68	570	1950	512	99	45
4	43	49	54	47	47	48	72	536	2010	466	95	44
5	42	48	e49	48	45	48	78	494	2160	429	92	44
6	42	47	e52	49	45	47	88	444	2140	394	91	45
7	42	46	e49	51	45	47	97	434	1750	367	97	45
8	42	44	e52	57	45	46	100	383	1520	464	95	50
9	42	45	e46	56	45	e43	102	355	1390	453	87	52
10	43	45	e48	53	44	48	106	335	1380	376	82	54
11	46	45	e49	52	44	50	114	330	1420	345	78	53
12	45	45	e50	52	e41	49	126	360	1590	323	74	50
13	45	48	e52	50	e43	47	150	467	1770	302	71	47
14	45	64	53	e50	e48	47	233	611	1950	290	67	45
15	46	73	e48	e44	e47	46	257	631	2020	270	64	43
16	45	93	e50	e48	e44	48	246	599	1980	252	66	42
17	45	91	e54	e47	44	46	228	678	1690	237	60	42
18	44	72	e50	e47	43	45	210	791	1490	222	59	42
19	45	68	e48	e48	45	47	208	818	1300	208	59	42
20	45	73	e45	e50	45	47	211	1450	1160	196	61	41
21	44	74	e48	e48	46	46	219	1830	1100	186	64	41
22	46	74	e52	e45	48	46	240	1570	1100	174	62	41
23	49	68	e52	e45	54	48	242	1350	1080	163	59	41
24	47	62	e51	e47	50	51	234	1250	1010	156	57	40
25	49	61	e49	e50	e39	55	235	1330	947	146	58	40
26	48	59	e47	e49	e44	57	235	1470	900	156	74	39
27	48	56	e46	e46	e56	57	233	1630	868	147	65	38
28	47	58	e53	e44	e56	56	229	2130	831	136	60	38
29	46	57	e53	e43	---	58	249	2520	876	129	57	38
30	49	e55	50	e46	---	59	303	2570	750	122	53	37
31	54	---	50	e50	---	65	---	2380	---	116	51	---
TOTAL	1412	1774	1573	1509	1299	1543	5251	31254	44212	8959	2268	1313
MEAN	45.55	59.13	50.74	48.68	46.39	49.77	175.0	1008	1474	289.0	73.16	43.77
MAX	54	93	58	57	56	65	303	2570	2160	651	109	54
MIN	42	44	45	43	39	43	68	330	750	116	51	37
AC-FT	2800	3520	3120	2990	2580	3060	10420	61990	87690	17770	4500	2600
CFSM	0.10	0.13	0.11	0.10	0.10	0.11	0.38	2.16	3.16	0.62	0.16	0.09
IN.	0.11	0.14	0.13	0.12	0.10	0.12	0.42	2.49	3.53	0.72	0.18	0.10

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	53.24	58.03	49.39	47.48	45.79	48.13	112.3	668.0	868.2	202.0	58.19	35.08
MAX	60.9	59.1	50.7	48.7	46.4	49.8	175	1008	1474	289	73.2	43.8
(WY)	2001	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002
MIN	45.5	56.9	48.0	46.3	45.2	46.5	49.6	328	263	115	43.2	26.4
(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	34129	102367	
ANNUAL MEAN	93.50	280.5	187.4
HIGHEST ANNUAL MEAN			280
LOWEST ANNUAL MEAN			94.4
HIGHEST DAILY MEAN	863	May 25	2570
LOWEST DAILY MEAN	21	Sep 18	37
ANNUAL SEVEN-DAY MINIMUM	22	Sep 15	39
ANNUAL RUNOFF (AC-FT)	67690	203000	135800
ANNUAL RUNOFF (CFSM)	0.20	0.60	0.40
ANNUAL RUNOFF (INCHES)	2.72	8.17	5.46
10 PERCENT EXCEEDS	235	972	394
50 PERCENT EXCEEDS	48	54	52
90 PERCENT EXCEEDS	31	44	41

e Estimated