OKANOGAN RIVER BASIN

12447200 OKANOGAN RIVER AT MALOTT, WA

LOCATION.--Lat 48°16'53", long 119°42'12", in SW $^1/_4$ sec.9, T.32 N., R.25 E., Okanogan County, Hydrologic Unit 17020006, on right bank 75 ft upstream from highway bridge at Malott, 0.1 mi upstream from Loup Loup Creek, and at mile 17.0.

DRAINAGE AREA.--8,080 mi^2, approximately.

PERIOD OF RECORD.--April 1958 to current year. April 1958 to September 1965, published as "near Malott." Records published for both sites December 1965 to July 1967.

REVISED RECORDS.--WDR WA-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 783.55 ft above NGVD of 1929. April 1958 to November 1965, water-stage recorder at site 3.9 mi downstream at NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions upstream from station for irrigation of about 22,000 acres in the United States and 55,000 acres in Canada. Flow regulated by Okanagan and Skaha Lakes and by natural storage in other lakes. U.S. Geological Survey satellite telemeter at station. Daily water temperature records November 1969 to June 1971. Chemical analyses 1959-62, 1963-70 (partial record station), 1972, 1975-94. Published as "near Brewster" prior to 1964 and as "near Malott" 1963-66 (station 12447300).

AVERAGE DISCHARGE.--44 years (water years 1959-2002), 3,100 ft^3/s, 2,246,000 acre-ft/yr, includes records for "near Malott" site located 3.9 miles downstream, water years 1959-65.
37 years (water years 1966-2002), 3,117 ft^3/s, 2,258,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,600 ft^3/s June 3, 1972, gage height, 22.16 ft; minimum observed, 288 ft^3/s Sept. 4, 1970, gage height, 2.03 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,600 ft^3/s June 1, gage height, 13.36 ft; minimum discharge, 516 ft^3/s Sept. 19, gage height, 2.66 ft.

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	687	938	982	802	e940	1330	1080	3990	18500	9280	1650	1240
2	721	920	945	834	929	1350	1080	4850	18200	8370	1530	1200
3	764	916	907	830	938	1310	1100	6130	17200	7560	1480	999
4	761	941	891	795	940	1270	1120	7040	16600	6860	1550	742
5	755	952	976	786	939	1250	1130	6750	16500	6190	1500	906
6	755	960	964	789	931	1220	1240	6320	16500	5760	1460	943
7	755	950	915	786	908	1240	1390	6010	16800	5110	1420	1090
8	758	936	898	790	904	1180	1470	5620	16100	4860	1360	1290
9	758	934	879	785	894	1160	1570	5310	14400	5270	1400	1240
10	758	909	897	1610	892	1120	1580	5000	13100	6400	1390	1160
11	765	884	909	2330	876	1160	1590	4750	12400	5670	1330	1140
12	771	874	903	2060	855	1170	1620	4590	12600	5370	1260	1120
13	784	884	904	1880	840	1190	1710	4670	13100	5140	1210	1090
14	790	900	887	1750	833	1210	1910	5180	13900	4810	1170	1060
15	793	912	861	1620	817	1180	2460	6010	15000	4470	1100	947
16	809	912	865	1500	808	1060	4120	6440	16000	4200	1040	861
17	855	1320	873	1370	833	1030	4290	6310	16800	3870	1020	625
18	892	1940	864	1240	826	1000	3980	6580	16700	3560	998	548
19	875	1760	e890	1220	819	1010	3670	7450	15500	3370	968	535
20	773	1530	895	1200	829	1030	3440	7750	14500	3140	912	639
21	782	1360	866	1150	846	1030	3370	8910	13300	2950	835	658
22	786	1330	834	1160	836	1030	3390	12200	12600	2740	814	663
23	818	1310	799	1170	829	1020	3550	13300	e12500	2480	798	650
24	849	1250	795	1190	826	985	3640	13700	e12800	2260	792	642
25	838	1180	795	1090	1110	986	3740	13500	e12100	2120	820	633
26	891	1120	784	1040	1380	992	4020	13300	11800	2040	803	629
27	926	1040	758	1090	1240	1010	4200	13400	11600	1960	788	634
28	909	1020	749	1020	1220	1060	4100	14100	11600	1880	913	638
29	898	1020	750	e900	---	1060	3920	15000	11000	1800	1280	632
30	911	987	758	e830	---	1060	3780	16400	9900	1790	1280	638
31	948	---	781	e880	---	1070	---	17700	---	1780	1250	---
TOTAL	25135	32889	26774	36497	25838	34773	79260	268260	429600	133060	36121	25792
MEAN	811	1096	864	1177	923	1122	2642	8654	14320	4292	1165	860
MAX	948	1940	982	2330	1380	1350	4290	17700	18500	9280	1650	1290
MIN	687	874	749	785	808	985	1080	3990	9900	1780	788	535
AC-FT	49860	65240	53110	72390	51250	68970	157200	532100	852100	263900	71650	51160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	1146	1464	1302	1242	1415	1710	2869	8644	10210	4157	1681	1169
MAX	1847	4747	4402	2970	2979	3946	7015	16420	29290	10990	4150	2963
(WY)	1998	1991	1996	1984	1991	1983	1996	1972	1972	1972	1993	1997
MIN	605	574	565	540	569	601	928	4319	2625	938	434	372
(WY)	1988	1988	1971	1988	2001	1988	2001	1977	1992	1977	1977	1988

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	477900		1153999			
ANNUAL MEAN	1309		3162		3117	
HIGHEST ANNUAL MEAN					6312	1972
LOWEST ANNUAL MEAN					1334	2001
HIGHEST DAILY MEAN	8480	May 26	18500	Jun 1	45300	Jun 3 1972
LOWEST DAILY MEAN	429	Sep 12	535	Sep 19	288	Sep 4 1970
ANNUAL SEVEN-DAY MINIMUM	439	Sep 9	617	Sep 17	296	Aug 30 1970
ANNUAL RUNOFF (AC-FT)	947900		2289000		2258000	
10 PERCENT EXCEEDS	3160		11700		8140	
50 PERCENT EXCEEDS	786		1120		1510	
90 PERCENT EXCEEDS	488		785		700	

e Estimated