

Figure 54. Location of surface-water stations in the Methow and Chelan River Basins.

EXPLANATION

- ▲ Real-time surface-water station
- ▲ Non-real-time surface-water station
- ▲ Lake or reservoir site
- 12447383** Station number
- RM 63.8* River mile
- ← Stream—Arrow shows direction of flow
- ← - - - Tunnel or pipe—Arrow shows direction of flow

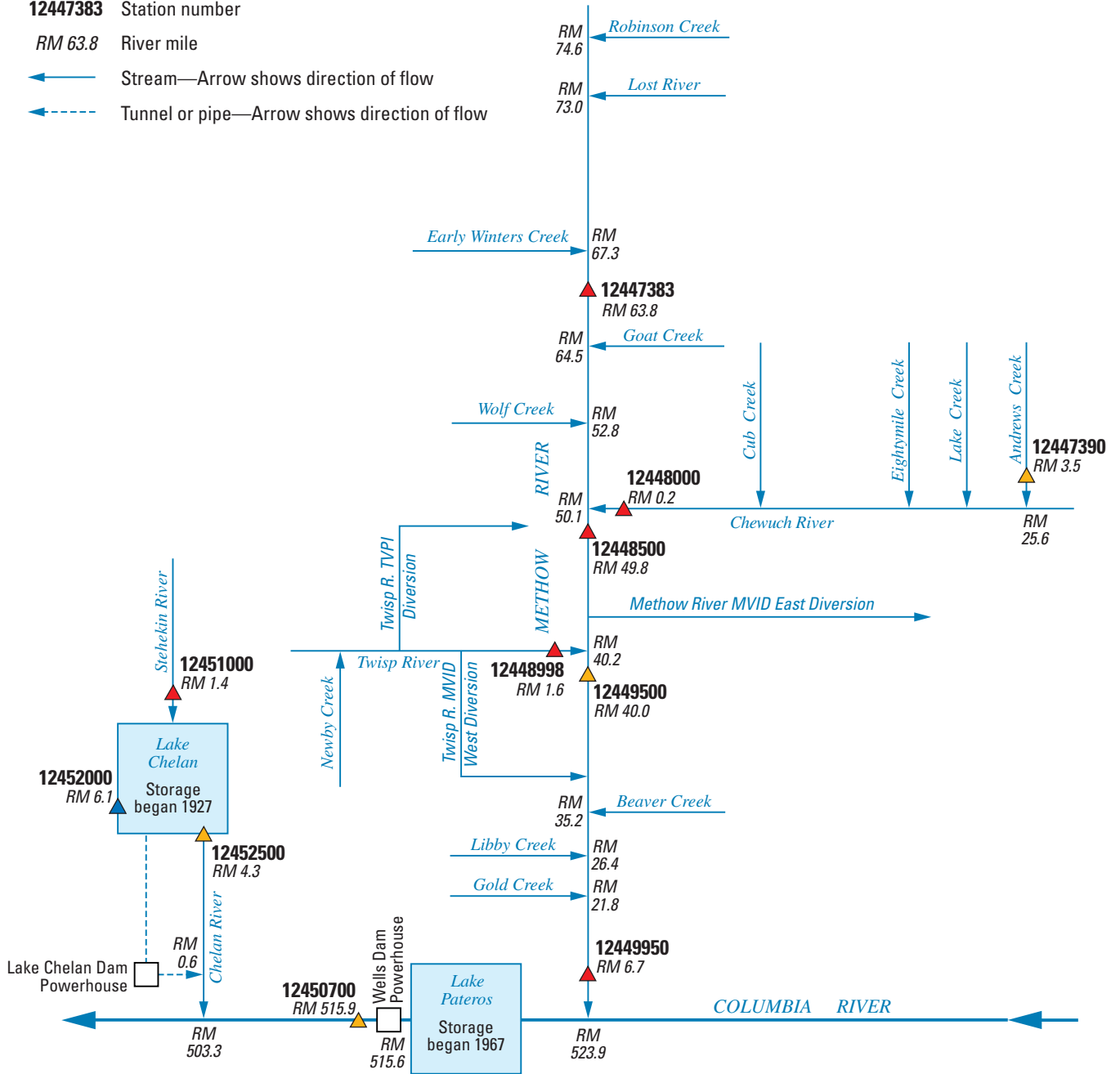


Figure 55. Schematic diagram showing surface-water stations in the Methow and Chelan River Basins.

12447383 METHOW RIVER ABOVE GOAT CREEK, NEAR MAZAMA, WA

LOCATION.--Lat 48°34'32", long 120°23'05", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ 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 mi².

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.--14 years (water years 1992-2005), 482 ft³/s, 349,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,440 ft³/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 discharges greater than base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 16	0330	*1,800	*16.02				

No flow Sept. 23-30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	42	e80	96	440	114	166	1,070	944	416	66	e10
2	59	47	e75	93	409	112	162	1,010	799	373	63	e10
3	56	48	75	e75	385	110	158	1,010	713	337	58	e9.0
4	53	43	73	e65	374	108	151	1,030	665	314	54	e8.5
5	50	43	71	e54	356	108	144	1,100	669	298	50	e8.0
6	47	43	69	e55	328	108	140	1,250	615	301	50	e7.5
7	46	53	68	e60	318	115	152	1,300	551	290	47	e7.0
8	45	75	70	e63	292	130	164	1,230	522	270	44	e6.5
9	51	97	66	e64	281	146	162	1,250	503	267	42	e6.0
10	48	108	82	e63	268	166	163	1,620	487	239	40	e5.0
11	44	113	224	e58	251	188	168	1,540	490	224	38	e4.0
12	42	115	186	e60	242	235	168	1,460	477	208	37	e4.0
13	40	114	189	e58	230	250	166	1,500	440	198	35	e4.0
14	39	112	161	e56	218	258	164	1,630	407	186	33	e3.5
15	37	113	149	e50	198	262	162	1,680	378	178	32	e3.0
16	36	107	141	e56	185	267	163	1,680	354	175	31	e2.5
17	43	100	134	e60	182	258	160	1,420	398	166	31	e2.5
18	52	101	129	e70	174	251	156	1,230	480	158	30	e2.5
19	53	97	136	e200	170	246	157	1,100	425	151	27	e2.0
20	54	91	139	656	157	241	170	983	405	139	23	e1.5
21	51	88	137	592	150	236	202	888	433	128	e20	e1.0
22	49	86	135	532	149	223	293	816	482	126	e17	e0.50
23	49	82	133	696	142	216	426	745	436	124	e15	e0.00
24	48	83	e110	823	135	206	780	690	389	110	e13	e0.00
25	47	108	e115	802	128	196	1,090	656	367	102	e10	e0.00
26	47	99	119	741	121	197	1,400	686	353	95	e10	e0.00
27	44	97	113	681	117	192	1,690	797	410	89	e10	e0.00
28	43	91	e100	622	115	183	1,620	943	515	84	e10	e0.00
29	42	85	e95	565	---	176	1,370	1,120	490	79	e10	e0.00
30	43	e84	104	516	---	168	1,190	1,190	455	75	e10	e0.00
31	43	---	98	485	---	163	---	1,170	---	70	e10	---
TOTAL	1,464	2,565	3,576	9,067	6,515	5,829	13,257	35,794	15,052	5,970	966	108.50
MEAN	47.2	85.5	115	292	233	188	442	1,155	502	193	31.2	3.62
MAX	63	115	224	823	440	267	1,690	1,680	944	416	66	10
MIN	36	42	66	50	115	108	140	656	353	70	10	0.00
AC-FT	2,900	5,090	7,090	17,980	12,920	11,560	26,300	71,000	29,860	11,840	1,920	215

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	63.7	102	72.1	41.0	28.5	113	590	1,911	2,013	821	172	37.2
MAX	537	452	523	292	233	405	1,080	3,297	3,907	2,527	610	102
(WY)	(2004)	(2000)	(1996)	(2005)	(2005)	(1992)	(1996)	(1998)	(1999)	(1999)	(1999)	(1999)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	10.0	937	502	191	29.0	0.65
(WY)	(1995)	(1993)	(1993)	(1992)	(1993)	(1993)	(2001)	(2001)	(2005)	(2001)	(2001)	(1994)

METHOW RIVER BASIN

12447383 METHOW RIVER ABOVE GOAT CREEK, NEAR MAZAMA, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	152,549.0		100,163.50			
ANNUAL MEAN	417		274		482	
HIGHEST ANNUAL MEAN					798	
LOWEST ANNUAL MEAN					153	
HIGHEST DAILY MEAN	2,480	May 3	1,690	Apr 27	8,460	Jun 16, 1999
LOWEST DAILY MEAN	6.0	Feb 13	0.00	Sep 23	0.00	Dec 15, 1991
ANNUAL SEVEN-DAY MINIMUM	7.1	Feb 11	0.00	Sep 23	0.00	Dec 15, 1991
ANNUAL RUNOFF (AC-FT)	302,600		198,700		349,200	
10 PERCENT EXCEEDS	1,390		798		1,560	
50 PERCENT EXCEEDS	100		133		72	
90 PERCENT EXCEEDS	25		10		0.00	

e Estimated

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

LOCATION.--Lat 48°49'23", long 120°08'41", in NE¹/₄ 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 mi².

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, 2004-05.

AVERAGE DISCHARGE.--37 years (water years 1969-2005), 31.2 ft³/s, 19.16 in/yr, 22,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,120 ft³/s, June 10, 1972, gage height, 4.00 ft, from rating curve extended above 440 ft³/s; minimum discharge 0.97 ft³/s, Oct. 30, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr 26	2030	*291	*2.68	May 5	0030	238	2.50

Minimum discharge, 5.9 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	13	13	e11	e16	e9.8	12	124	66	28	12	7.5
2	18	15	13	e10	e16	e9.9	12	133	59	27	12	7.3
3	18	13	12	e10	e16	e10	12	135	54	26	12	7.1
4	18	14	12	e9.5	e15	e10	12	142	50	24	12	7.1
5	17	14	12	e9.0	e14	11	11	186	53	23	11	7.0
6	17	15	11	e9.8	e13	11	12	175	53	23	11	6.9
7	17	19	11	e11	e14	12	16	146	53	22	11	6.8
8	17	19	11	e11	e13	13	18	134	55	22	11	6.6
9	19	18	11	e12	e14	14	16	130	54	22	10	6.8
10	17	17	11	e12	e15	15	17	137	49	21	10	7.4
11	17	17	12	e11	e16	17	17	122	47	21	11	7.4
12	16	16	11	e11	e14	20	16	117	46	20	10	7.2
13	16	16	11	e10	e14	17	16	121	41	19	10	7.4
14	15	16	11	e9.5	e13	16	16	125	39	19	9.8	7.0
15	15	16	10	e9.5	e12	16	16	124	36	18	9.6	6.8
16	15	14	e10	e10	e12	16	16	120	33	19	9.3	7.6
17	19	13	e10	e11	e13	15	17	103	40	18	9.5	8.9
18	22	15	11	e12	e12	15	17	103	46	17	9.8	7.6
19	18	14	11	e13	e12	15	19	110	37	17	9.2	7.2
20	18	15	10	e17	e11	15	25	97	33	16	8.9	6.9
21	18	14	e10	e20	e11	14	37	87	31	16	8.6	6.7
22	17	14	e10	e18	e11	13	64	84	30	17	8.4	6.6
23	16	14	e9.6	e23	e11	14	88	75	28	18	8.5	6.5
24	16	14	e9.2	e25	e10	13	144	75	27	16	8.6	6.4
25	15	14	e11	e18	e10	13	163	70	27	15	8.3	6.4
26	16	13	e12	e17	e10	13	187	68	25	15	8.0	6.3
27	15	12	e11	e17	e10	13	197	68	37	14	7.8	6.2
28	15	12	e10	e16	e9.9	13	159	68	41	14	7.7	6.1
29	15	11	e11	e16	---	12	134	68	34	13	7.6	6.1
30	15	13	e12	e16	---	12	123	72	30	13	7.7	6.8
31	14	---	e11	e16	---	12	---	75	---	13	7.7	---
TOTAL	520	440	340.8	421.3	357.9	419.7	1,609	3,394	1,254	586	298.0	208.6
MEAN	16.8	14.7	11.0	13.6	12.8	13.5	53.6	109	41.8	18.9	9.61	6.95
MAX	22	19	13	25	16	20	197	186	66	28	12	8.9
MIN	14	11	9.2	9.0	9.9	9.8	11	68	25	13	7.6	6.1
AC-FT	1,030	873	676	836	710	832	3,190	6,730	2,490	1,160	591	414
CFSM	0.76	0.66	0.50	0.61	0.58	0.61	2.43	4.95	1.89	0.86	0.43	0.31
IN.	0.88	0.74	0.57	0.71	0.60	0.71	2.71	5.71	2.11	0.99	0.50	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

	7.47	6.92	5.24	4.40	3.89	4.35	18.2	109	147	44.6	14.0	8.60
MEAN												
MAX	31.2	22.1	13.4	13.6	12.8	14.7	101	205	419	125	34.7	40.8
(WY)	(2004)	(2000)	(2000)	(2005)	(2005)	(2004)	(2004)	(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)

METHOW RIVER BASIN

12447390 ANDREWS CREEK NEAR MAZAMA, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005	
ANNUAL TOTAL	12,642.9		9,849.3		31.2	
ANNUAL MEAN	34.5		27.0		59.1	
HIGHEST ANNUAL MEAN					10.7	
LOWEST ANNUAL MEAN					1972	
HIGHEST DAILY MEAN	220	May 2	197	Apr 27	874	Jun 16, 1974
LOWEST DAILY MEAN	5.7	Mar 6	6.1	Sep 28	1.2	Dec 30, 1968
ANNUAL SEVEN-DAY MINIMUM	5.8	Feb 29	6.3	Sep 23	1.4	Apr 4, 1975
ANNUAL RUNOFF (AC-FT)	25,080		19,540		22,580	
ANNUAL RUNOFF (CFSM)	1.56		1.22		1.41	
ANNUAL RUNOFF (INCHES)	21.28		16.58		19.16	
10 PERCENT EXCEEDS	88		68		97	
50 PERCENT EXCEEDS	18		15		6.8	
90 PERCENT EXCEEDS	6.7		8.4		2.9	

e Estimated

12447390 ANDREWS CREEK NEAR MAZAMA, WA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1972-96, August 2004 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, uS/cm 25 degC (90095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)
AUG													
31...	1100	22	7.6	58	22.1	10.3	24	7.76	1.12	.92	.2	2.21	16
31...	1105	22	7.6	58	22.1	10.3	24	7.62	1.10	.93	.2	2.08	15

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Alkalinity, wat flt Gran, lab, mg/L as CaCO3 (29803)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Organic carbon, water, fltrd, mg/L (00681)
AUG											
31...	24.8	.80	11.6	2.27	42	.06	2.50	<.010	.128	.21	2.5
31...	24.8	.78	11.5	2.15	42	.06	2.47	<.010	.130	.21	2.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, uS/cm 25 degC (90095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)
OCT													
13...	1230	16	7.6	54	16.9	8.1	21	6.73	.968	.785	.2	2.13	18
13...	1235	16	7.6	56	16.9	8.1	21	6.95	.967	.789	.2	2.11	17
DEC													
16...	1400	10	7.7	58	.6	1.5	22	7.14	1.08	.721	.2	2.26	18
FEB													
04...	1330	15	7.5	56	5.4	.8	22	7.25	1.04	.737	.2	2.10	16
MAY													
11...	1730	120	7.4	36	14.6	6.7	13	4.17	.648	.762	.2	1.48	19
JUN													
21...	1500	31	7.5	44	26.0	12.3	17	5.41	.805	.725	.2	1.75	18
21...	1510	31	7.5	44	26.0	12.3	17	5.49	.810	.731	.2	1.77	18
AUG													
04...	1300	11	7.6	59	20.5	11.9	24	7.66	1.10	.877	.2	2.36	17
04...	1310	11	7.6	60	20.5	11.9	24	7.66	1.10	.881	.2	2.37	17

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Alkalinity, wat flt Gran, lab, mg/L as CaCO3 (29803)	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Organic carbon, water, fltrd, mg/L (00681)
OCT											
13...	23.2	.82	10.3	1.94	38	.05	1.62	<.010	.093	.15	1.5
13...	22.6	.81	10.3	1.94	38	.05	1.62	<.010	.093	.14	1.5
DEC											
16...	23.7	.74	11.1	2.06	41	.06	1.12	<.010	.304	.37	1.4
FEB											
04...	22.6	.74	10.2	2.07	39	.05	1.60	<.010	.363	.39	1.6
MAY											
11...	12.2	.65	8.46	1.76	27	.04	8.61	--	.298	.34	2.6
JUN											
21...	18.4	.47	8.67	1.52	31	.04	2.60	--	.143	.23	1.9
21...	18.3	.49	8.72	1.52	31	.04	2.62	--	.143	.23	1.8
AUG											
04...	26.5	.49	10.0	1.65	41	.06	1.23	--	.241	.27	1.1
04...	26.4	.52	10.0	1.64	41	.06	1.23	--	.242	.28	1.1

12448000 CHEWUCH RIVER AT WINTHROP, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	129,867		90,106			
ANNUAL MEAN	355		247		370	
HIGHEST ANNUAL MEAN					630	
LOWEST ANNUAL MEAN					101	
HIGHEST DAILY MEAN	1,890	May 3	1,490	Apr 27	6,010	Jun 17, 1999
LOWEST DAILY MEAN	64	Feb 13	38	Sep 28	20	Sep 18, 2001
ANNUAL SEVEN-DAY MINIMUM	70	Feb 7	40	Sep 24	22	Sep 13, 2001
ANNUAL RUNOFF (AC-FT)	257,600		178,700		267,700	
10 PERCENT EXCEEDS	966		691		1,000	
50 PERCENT EXCEEDS	150		122		106	
90 PERCENT EXCEEDS	83		50		50	

e Estimated

12448500 METHOW RIVER AT WINTHROP, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1912 - 2005	
ANNUAL TOTAL	368,988		255,217			
ANNUAL MEAN	1,008		699		1,132	
HIGHEST ANNUAL MEAN					1,729	
LOWEST ANNUAL MEAN					430	
HIGHEST DAILY MEAN	5,030	May 3	3,620	Apr 27	21,400	Jun 9, 1972
LOWEST DAILY MEAN	220	Jan 5	167	Sep 28	134	Sep 21, 1994
ANNUAL SEVEN-DAY MINIMUM	263	Feb 17	169	Sep 24	136	Sep 24, 1994
ANNUAL RUNOFF (AC-FT)	731,900		506,200		820,000	
10 PERCENT EXCEEDS	2,810		1,710		3,080	
50 PERCENT EXCEEDS	414		413		367	
90 PERCENT EXCEEDS	279		185		187	

e Estimated

12448998 TWISP RIVER NEAR TWISP, WA

LOCATION.--Lat 48°22'12", long 120°08'51", in SE¼SE¼ sec.12, T.33 N., R.21 E., Okanogan County, Hydrologic Unit 17020008, on left bank, 20 ft downstream from county road bridge, 0.8 mi west of the Twisp city limits, and at mile 1.6.

DRAINAGE AREA.--245 mi².

PERIOD OF RECORD.--May 1975 to September 1979, October 1989 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,640 ft above NGVD of 1929, from topographic map, May 1975 to September 1979, water-stage recorder at same site. Crest-stage gage since September 1992.

REMARKS.--Records good except for estimated daily discharges which are fair. No known regulation. Several diversions upstream from station for irrigation. U.S. Geological Survey satellite telemeter at station. Water temperature records October 2001 to September 2002.

AVERAGE DISCHARGE.--20 years (water years 1976-79, 1990-2005), 250 ft³/s, 181,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft³/s, June 17, 1999, gage height, 11.83 ft; maximum gage height, 12.42 ft, June 17, 1999, from crest-stage gage; minimum discharge, 13 ft³/s, Aug. 25-30, Sept. 2, 8, 2005, but may have been lower during periods of missing record Sept. 19, 20 and 22-24, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 29, 1948, had a discharge of 9,440 ft³/s, by slope-area measurement made about 1,000 ft upstream from mouth.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	1015	*1,960	10.88	No other peak greater than base discharge.			
May 10	----	----	(a) *10.94				

Minimum discharge, 13 ft³/s, Aug. 25-30, Sept. 2, 8.

(a) From crest-stage gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	50	e58	e65	238	101	110	322	471	169	30	15
2	46	54	e57	e63	226	101	108	298	403	155	29	15
3	50	59	e60	e51	216	99	104	285	359	142	27	15
4	50	52	60	e46	212	99	102	291	348	131	25	15
5	52	54	59	e42	203	99	97	304	364	122	23	15
6	54	54	57	e43	184	100	95	343	334	117	22	15
7	53	59	56	e44	187	105	99	370	292	115	21	15
8	53	82	58	e46	172	115	104	346	280	107	20	14
9	57	91	57	e47	176	121	99	521	261	109	18	14
10	56	91	e61	e46	164	134	96	1,490	248	97	18	15
11	55	87	e84	e44	159	138	98	1,060	248	91	19	18
12	54	83	e80	e44	156	158	95	817	246	77	21	21
13	53	81	e84	e43	151	158	92	752	232	70	20	24
14	52	78	e85	e42	145	155	91	760	222	70	21	21
15	51	77	e79	e41	e130	153	88	758	214	70	21	20
16	51	75	e78	e43	e138	152	89	742	204	73	19	20
17	60	71	e76	e44	144	150	88	607	234	67	18	22
18	67	67	e75	e46	141	145	85	545	247	62	21	21
19	69	71	e77	e90	139	144	84	505	222	57	20	19
20	71	63	e78	e250	137	143	87	445	220	55	18	18
21	62	63	e76	e270	129	144	94	396	226	51	17	20
22	59	66	e77	e245	126	134	117	367	238	52	16	22
23	56	63	e73	e360	116	131	142	338	225	59	15	20
24	55	63	e70	517	110	126	274	317	197	50	15	20
25	54	78	e72	452	108	122	408	306	184	45	15	19
26	55	78	e73	392	106	124	497	319	176	42	15	20
27	54	73	e70	351	103	125	606	359	198	38	14	19
28	53	62	e63	318	102	124	556	424	230	35	14	19
29	52	e60	e64	289	---	117	448	519	194	32	14	19
30	52	e57	e70	266	---	112	370	573	176	30	15	24
31	51	---	e67	254	---	108	---	578	---	30	24	---
TOTAL	1,693	2,062	2,154	4,894	4,318	3,937	5,423	16,057	7,693	2,420	605	554
MEAN	54.6	68.7	69.5	158	154	127	181	518	256	78.1	19.5	18.5
MAX	71	91	85	517	238	158	606	1,490	471	169	30	24
MIN	36	50	56	41	102	99	84	285	176	30	14	14
AC-FT	3,360	4,090	4,270	9,710	8,560	7,810	10,760	31,850	15,260	4,800	1,200	1,100

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

MEAN	65.9	103	92.4	70.7	73.5	116	331	807	881	371	93.4	44.7
MAX	158	350	323	158	168	270	723	1,455	1,517	859	302	110
(WY)	(2004)	(1991)	(1996)	(2005)	(1996)	(1996)	(1996)	(1999)	(1999)	(1991)	(1976)	(1978)
MIN	34.2	33.9	34.0	31.6	29.2	39.6	80.1	201	256	56.9	19.5	16.4
(WY)	(1990)	(2003)	(2003)	(1993)	(1994)	(1977)	(2001)	(1977)	(2005)	(1977)	(2005)	(1994)

12448998 TWISP RIVER NEAR TWISP, WA—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1975 - 2005	
ANNUAL TOTAL	51,810		250	
ANNUAL MEAN	142		413	1991
HIGHEST ANNUAL MEAN			82.9	1977
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	1,490	May 10	3,200	May 19, 1991
LOWEST DAILY MEAN	14	Aug 27	14	Aug 27, 2005
ANNUAL SEVEN-DAY MINIMUM	15	Aug 23	15	Aug 23, 2005
ANNUAL RUNOFF (AC-FT)	102,800		181,200	
10 PERCENT EXCEEDS	347		728	
50 PERCENT EXCEEDS	81		85	
90 PERCENT EXCEEDS	20		34	

e Estimated

12449500 METHOW RIVER AT TWISP, WA

LOCATION.--Lat 48°21'55", long 120°06'54", in NE¼NW¼ sec.17, T.33 N., R.22 E., Okanogan County, Hydrologic Unit 17020008, on left bank, 0.25 mi downstream from Twisp River, 0.3 mi east of center of Twisp, and at mile 40.

DRAINAGE AREA.--1,301 mi².

PERIOD OF RECORD.--June 1919 to September 1962, April 1991 to current year. Monthly discharge only for some periods, published in WSP 1316. Miscellaneous measurements in 1967, 1970, 1976, 1978-90. For 1976, 1978-80 published as "at site 2.7 mi downstream", in error.

GAGE.--Water-stage recorder. Elevation of gage is 1,580 ft above NGVD of 1929, from topographic map. Prior to Oct. 3, 1919, several staff gages in the immediate vicinity at different datum. Oct. 3, 1919, to Sept. 30, 1929, and Oct. 31 to Nov. 6, 1933, chain gage on road bridge 40 ft upstream at same datum as staff gages. Nov. 7 to Dec. 18, 1933, staff gage at present site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. No known regulation. Numerous diversions for irrigation upstream from station. Water temperature records April to September 2002.

AVERAGE DISCHARGE.--57 years (water years 1920-62, 1992-2005), 1,324 ft³/s, 959,200 acre-ft/yr. Includes discharge for water years 1930-34, which were estimated for WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,800 ft³/s, May 29, 1948, gage height, 12.94 ft, in gage well, from rating curve extended above 18,000 ft³/s, on basis of slope-area measurement of peak flow; minimum observed, 134 ft³/s, Sept. 4, 5, 1926, Sept. 9, 10, 1929, but may have been less during period of ice effect Jan. 6 to Mar. 4, 1937.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	1430	*5,300	*3.49	No other peak greater than base discharge.			

Minimum discharge, 197 ft³/s, part or all of each day Sept. 9-11, gage height, -0.23 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	391	381	392	441	1,000	457	551	2,680	2,530	1,200	345	207
2	423	389	378	427	939	457	548	2,580	2,230	1,080	334	205
3	419	398	406	371	897	457	538	2,580	2,040	1,000	326	201
4	413	375	408	e285	870	457	533	2,610	1,920	931	318	201
5	407	378	403	e245	841	457	520	2,840	1,920	877	309	201
6	401	376	388	e250	779	461	513	3,110	1,950	840	300	201
7	392	391	389	e280	775	472	527	3,230	1,810	814	292	202
8	391	446	397	e290	714	511	574	3,040	1,770	776	283	204
9	407	491	381	e295	698	529	574	3,220	1,760	791	275	197
10	425	507	404	e290	670	576	570	4,710	1,660	740	268	197
11	412	510	552	e265	659	603	583	4,330	1,600	701	265	202
12	398	506	550	e265	648	685	581	3,830	1,620	654	261	208
13	387	501	537	e260	633	724	574	3,710	1,540	615	261	218
14	380	502	544	e250	599	721	567	3,870	1,450	600	257	219
15	374	502	513	e240	563	722	556	4,030	1,370	580	252	215
16	370	496	496	e260	532	715	550	4,150	1,290	588	247	210
17	406	477	483	e270	523	709	547	3,590	1,330	569	239	214
18	484	456	474	e285	519	686	536	3,220	1,630	557	238	219
19	480	469	482	e600	515	681	537	3,120	1,520	530	238	219
20	477	454	491	e1,300	507	681	560	2,830	1,380	502	238	216
21	452	451	477	1,370	487	678	617	2,610	1,350	475	235	213
22	444	450	477	1,200	483	641	810	2,440	1,380	462	230	210
23	436	445	462	1,480	482	630	1,200	2,290	1,340	487	224	213
24	423	439	451	1,720	475	616	1,980	2,150	1,230	480	215	215
25	412	461	461	1,690	469	601	2,840	2,070	1,140	460	210	210
26	408	466	473	1,580	464	605	3,360	2,040	1,100	435	210	210
27	405	454	457	1,470	460	608	3,990	2,140	1,190	413	210	210
28	399	431	425	1,350	457	600	3,880	2,330	1,550	398	208	208
29	391	415	429	1,250	---	581	3,330	2,580	1,450	384	205	206
30	390	409	455	1,140	---	561	2,920	2,740	1,310	369	201	207
31	388	---	444	1,080	---	545	---	2,810	---	354	214	---
TOTAL	12,785	13,426	14,079	22,499	17,658	18,427	35,966	93,480	47,360	19,662	7,908	6,258
MEAN	412	448	454	726	631	594	1,199	3,015	1,579	634	255	209
MAX	484	510	552	1,720	1,000	724	3,990	4,710	2,530	1,200	345	219
MIN	370	375	378	240	457	457	513	2,040	1,100	354	201	197
AC-FT	25,360	26,630	27,930	44,630	35,020	36,550	71,340	185,400	93,940	39,000	15,690	12,410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 2005, BY WATER YEAR (WY)

MEAN	423	472	402	320	322	443	1,597	4,868	4,843	1,716	494	306
MAX	1,383	1,183	1,205	726	958	1,773	7,692	9,515	11,030	4,392	1,280	727
(WY)	(1960)	(1934)	(1996)	(2005)	(1935)	(1934)	(1934)	(1957)	(1950)	(1954)	(1999)	(1959)
MIN	189	234	222	178	183	204	180	1,546	846	289	162	148
(WY)	(1937)	(1940)	(1926)	(1937)	(1929)	(1936)	(1929)	(1920)	(1926)	(1926)	(1926)	(1929)

12449500 METHOW RIVER AT TWISP, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1919 - 2005	
ANNUAL TOTAL	436,233		309,508			
ANNUAL MEAN	1,192		848		1,342	
HIGHEST ANNUAL MEAN					2,231	
LOWEST ANNUAL MEAN					467	
HIGHEST DAILY MEAN	5,810	May 3	4,710	May 10	32,500	May 29, 1948
LOWEST DAILY MEAN	275	Jan 5	197	Sep 9	134	Sep 4, 1926
ANNUAL SEVEN-DAY MINIMUM	314	Feb 7	200	Sep 4	141	Sep 2, 1926
ANNUAL RUNOFF (AC-FT)	865,300		613,900		972,500	
10 PERCENT EXCEEDS	3,380		2,140		3,860	
50 PERCENT EXCEEDS	475		491		424	
90 PERCENT EXCEEDS	337		219		224	

e Estimated

12449950 METHOW RIVER NEAR PATEROS, WA

LOCATION.--Lat 48°04'39", long 119°59'02", in SE¼SW¼ sec.20, T.30 N., R.23 E., Okanogan County, Hydrologic Unit 17020008, on right bank 1.4 mi downstream from Black Canyon Creek, 4.3 mi northwest of Pateros, and at mile 6.7.

DRAINAGE AREA.--1,772 mi².

PERIOD OF RECORD.--April 1959 to current year.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 900 ft above NGVD of 1929, from topographic map. Prior to Dec. 17, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 11,000 acres upstream from station (1959 Bureau of Reclamation land classification). U.S. Geological Survey satellite telemeter at station. Water temperature October 1968 to October 1970.

AVERAGE DISCHARGE.--46 years (water years 1960-2005), 1,522 ft³/s, 1,103,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s, May 31, 1972, gage height, 12.25 ft; minimum daily discharge, 150 ft³/s, Jan. 8-10, 1974, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1894, 46,700 ft³/s, May 29, 1948, determined by slope-area measurement of peak flow at site 1 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 10	1900	*6,010	*6.19				

Minimum discharge, 217 ft³/s, Aug. 30, 31, Sept. 7-11, gage height, 1.26 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	439	451	495	1,080	516	609	2,780	2,740	1,270	382	227
2	446	440	439	482	1,010	512	615	2,620	2,390	1,180	372	224
3	452	447	447	458	972	512	606	2,590	2,140	1,110	365	223
4	446	440	458	388	942	511	599	2,620	2,000	1,040	356	220
5	440	428	455	e330	925	511	585	2,810	1,950	989	347	220
6	437	433	449	e340	877	515	576	3,130	2,030	946	335	220
7	434	431	442	e378	849	521	576	3,310	1,890	920	322	219
8	434	455	461	e395	814	547	612	3,170	1,800	884	312	217
9	440	507	440	e400	771	576	636	3,360	1,800	885	301	219
10	456	535	443	e390	760	610	624	5,100	1,730	855	292	217
11	458	544	485	e360	744	644	638	5,110	1,650	817	288	222
12	447	547	624	e360	727	696	638	4,320	1,630	767	294	231
13	436	544	572	e350	719	766	637	4,080	1,590	722	295	241
14	430	543	599	e340	684	773	623	4,140	1,500	692	287	248
15	424	543	574	e323	652	777	617	4,320	1,440	670	280	245
16	419	543	553	e350	613	769	615	4,480	1,360	671	274	241
17	447	530	540	e370	590	775	609	4,000	1,360	656	268	249
18	508	509	531	e385	586	751	599	3,540	1,560	635	263	254
19	543	514	527	e580	581	749	592	3,420	1,580	607	267	256
20	544	506	537	e950	577	755	600	3,110	1,440	580	268	251
21	514	488	526	e1,000	557	746	637	2,830	1,390	551	262	245
22	497	495	533	965	546	726	740	2,610	1,390	533	256	241
23	486	493	515	1,000	545	701	1,020	2,430	1,390	552	248	244
24	475	486	511	1,290	542	686	1,490	2,270	1,310	547	240	245
25	465	488	509	1,460	533	670	2,630	2,140	1,230	518	235	245
26	459	515	527	1,470	529	666	3,190	2,090	1,180	488	232	243
27	456	505	518	1,430	523	680	3,880	2,150	1,200	469	228	241
28	452	490	490	1,350	518	669	4,010	2,330	1,480	448	227	238
29	447	461	474	1,270	---	649	3,520	2,610	1,500	428	224	238
30	442	463	503	1,190	---	632	3,070	2,850	1,370	411	219	238
31	439	---	497	1,130	---	614	---	2,960	---	396	220	---
TOTAL	14,202	14,762	15,630	21,979	19,766	20,225	36,393	99,280	49,020	22,237	8,759	7,062
MEAN	458	492	504	709	706	652	1,213	3,203	1,634	717	283	235
MAX	544	547	624	1,470	1,080	777	4,010	5,110	2,740	1,270	382	256
MIN	419	428	439	323	518	511	576	2,090	1,180	396	219	217
AC-FT	28,170	29,280	31,000	43,600	39,210	40,120	72,190	196,900	97,230	44,110	17,370	14,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	486	537	479	426	422	604	1,595	4,847	5,743	2,089	683	436
MAX (WY)	1,458 (1960)	1,327 (1991)	1,361 (1996)	938 (1981)	803 (1968)	1,407 (1968)	3,364 (1996)	9,768 (1972)	13,150 (1972)	4,960 (1999)	1,860 (1976)	1,196 (1978)
MIN (WY)	293 (2003)	273 (2003)	270 (1995)	248 (1995)	262 (2001)	237 (1977)	309 (2001)	1,415 (1977)	1,583 (2001)	471 (1977)	283 (2005)	235 (2005)

12449950 METHOW RIVER NEAR PATEROS, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL TOTAL	465,389		329,315			
ANNUAL MEAN	1,272		902		1,522	
HIGHEST ANNUAL MEAN					2,963	
LOWEST ANNUAL MEAN					565	
HIGHEST DAILY MEAN	5,940	May 4	5,110	May 11	27,200	May 31, 1972
LOWEST DAILY MEAN	330	Jan 5	217	Sep 8	150	Jan 8, 1974
ANNUAL SEVEN-DAY MINIMUM	376	Feb 8	219	Sep 4	154	Jan 5, 1974
ANNUAL RUNOFF (AC-FT)	923,100		653,200		1,103,000	
10 PERCENT EXCEEDS	3,600		2,200		4,200	
50 PERCENT EXCEEDS	518		544		540	
90 PERCENT EXCEEDS	401		250		300	

e Estimated

12450700 COLUMBIA RIVER BELOW WELLS DAM, WA

LOCATION.--Lat 47°56'48", long 119°51'56", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.28 N., R.24 E., Chelan County, Hydrologic Unit 17020005, at powerhouse of Wells Dam, 0.7 mi northeast of Azwell, and at mile 515.9.

DRAINAGE AREA.--86,100 mi², approximately.

PERIOD OF RECORD.--October 1967 to current year. October 1953 to September 1967 (monthly discharge only) in the files of the U.S. Geological Survey.

GAGE.--Daily discharge determined from flow through turbines plus spillway flow when present. Datum of gage is NGVD of 1929 (levels by Bechtel Corporation). Prior to Oct. 1, 1970, at site 0.8 mi downstream at same datum. Oct. 1, 1970, to July 20, 1988, water-stage recorder at present site and datum with auxiliary water-stage recorder 6.8 mi downstream from base gage at same datum.

REMARKS.--Flow regulated by numerous reservoirs. Feeder Canal diversion (station 12435500) for Columbia Basin project is used to irrigate approximately 600,000 acres in the United States. An additional 66,500 acres in Canada are irrigated by other diversions.

COOPERATION.--Discharge records provided by Public Utility District No. 1 of Douglas County at Wells Dam through the Corps of Engineers, North Pacific Division, Reservoir Control Center. The U.S. Geological Survey made 6 discharge measurements at this site during the year.

AVERAGE DISCHARGE.--52 years (water years 1954-2005), 114,200 ft³/s, 82,740,000 acre-ft/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 402,000 ft³/s, June 15, 1972; maximum elevation, 731.92 ft, June 16, 1972; minimum discharge, 17,900 ft³/s, Oct. 5, 1970 (from powerplant records); minimum elevation, 703.55 ft, Sept. 28, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 177,000 ft³/s, May 27; minimum daily discharge, 37,400 ft³/s, Sept. 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89,000	88,100	108,000	75,500	87,900	113,000	97,700	87,900	122,000	155,000	118,000	77,800
2	71,700	95,000	108,000	91,600	104,000	120,000	85,200	132,000	119,000	133,000	91,800	64,100
3	56,400	92,300	129,000	131,000	127,000	118,000	74,700	137,000	122,000	90,300	106,000	52,900
4	82,200	94,800	112,000	134,000	120,000	112,000	106,000	119,000	92,000	98,600	122,000	41,200
5	87,100	87,600	83,800	136,000	88,300	77,000	96,900	104,000	75,800	113,000	128,000	55,000
6	97,300	68,800	130,000	120,000	88,600	69,900	62,100	127,000	114,000	149,000	105,000	86,400
7	91,400	56,100	124,000	133,000	134,000	94,300	63,900	102,000	123,000	156,000	102,000	91,900
8	75,700	89,200	98,000	98,900	131,000	100,000	70,800	100,000	137,000	158,000	119,000	80,200
9	58,500	98,700	105,000	102,000	124,000	97,100	62,400	142,000	130,000	124,000	120,000	59,700
10	50,300	98,400	82,300	118,000	119,000	109,000	50,800	141,000	134,000	119,000	111,000	37,400
11	70,500	96,300	91,500	124,000	124,000	97,000	78,100	124,000	97,900	156,000	114,000	48,400
12	89,300	109,000	86,300	126,000	105,000	74,900	112,000	135,000	87,500	148,000	112,000	65,300
13	87,000	85,500	93,100	112,000	74,500	49,700	89,800	136,000	132,000	156,000	82,800	64,800
14	88,700	52,300	101,000	109,000	123,000	105,000	76,300	126,000	140,000	160,000	78,400	68,500
15	68,400	96,500	126,000	138,000	131,000	107,000	77,400	88,800	139,000	158,000	118,000	78,800
16	61,600	103,000	138,000	94,700	135,000	122,000	65,400	129,000	148,000	147,000	120,000	72,200
17	60,000	103,000	139,000	121,000	129,000	108,000	52,500	116,000	133,000	116,000	126,000	40,600
18	100,000	103,000	118,000	88,800	111,000	98,900	77,100	122,000	99,700	148,000	124,000	43,600
19	102,000	114,000	102,000	73,900	80,700	96,700	86,800	126,000	80,100	138,000	118,000	87,600
20	104,000	109,000	138,000	79,500	57,300	74,300	102,000	121,000	151,000	144,000	102,000	85,300
21	87,600	78,800	142,000	79,000	106,000	105,000	106,000	97,000	161,000	145,000	88,700	72,100
22	68,500	108,000	134,000	62,200	101,000	115,000	94,200	101,000	157,000	123,000	117,000	81,400
23	60,800	100,000	117,000	58,400	96,200	108,000	89,100	115,000	159,000	115,000	89,400	70,500
24	65,500	84,800	124,000	98,600	99,700	104,000	68,900	129,000	164,000	102,000	109,000	56,100
25	106,000	39,500	94,700	103,000	85,100	73,800	105,000	145,000	151,000	127,000	112,000	53,500
26	94,000	54,700	84,200	94,700	75,900	68,600	114,000	169,000	127,000	141,000	119,000	83,600
27	82,500	83,700	108,000	94,300	58,700	49,100	103,000	177,000	149,000	141,000	91,100	65,700
28	93,900	94,900	122,000	103,000	106,000	77,600	98,600	112,000	156,000	152,000	74,000	82,700
29	84,900	127,000	121,000	84,600	---	86,000	107,000	80,100	162,000	149,000	98,800	82,500
30	62,000	115,000	110,000	74,900	---	106,000	85,400	106,000	161,000	148,000	108,000	79,100
31	59,200	---	105,000	100,000	---	104,000	---	147,000	---	131,000	119,000	---
TOTAL	2,456,000	2,727,000	3,474,900	3,159,600	2,922,900	2,940,900	2,559,100	3,793,800	3,924,000	4,240,900	3,344,000	2,028,900
MEAN	79,230	90,900	112,100	101,900	104,400	94,870	85,300	122,400	130,800	136,800	107,900	67,630
MAX	106,000	127,000	142,000	138,000	135,000	122,000	114,000	177,000	164,000	160,000	128,000	91,900
MIN	50,300	39,500	82,300	58,400	57,300	49,100	50,800	80,100	75,800	90,300	74,000	37,400
AC-FT	4,871,000	5,409,000	6,892,000	6,267,000	5,798,000	5,833,000	5,076,000	7,525,000	7,783,000	8,412,000	6,633,000	4,024,000
CAL YR	2004	TOTAL	34,655,600	MEAN	94,690	MAX	169,000	MIN	33,100	AC-FT	68,740,000	
WTR YR	2005	TOTAL	37,572,000	MEAN	102,900	MAX	177,000	MIN	37,400	AC-FT	74,520,000	

12451000 STEHEKIN RIVER AT STEHEKIN, WA

LOCATION.--Lat 48°19'47", long 120°41'26", in NE¼SE¼ sec.26, T.33 N., R.17 E., Chelan County, Hydrologic Unit 17020009, Lake Chelan National Recreation Area, on left bank 1,100 ft upstream from Boulder Creek, 1.4 mi upstream from Lake Chelan, and 2.1 mi northwest of Stehekin.

DRAINAGE AREA.--321 mi².

PERIOD OF RECORD.--October 1910 to October 1915, January 1927 to current year. Monthly discharge only for some periods, published in WSP 1316.

REVISED RECORDS.--WSP 412: 1914. WSP 1316: 1911(M), 1914-15(M). WSP 1446: 1912(M). WSP 1933: Drainage area. WDR-80-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,098.5 ft above NGVD of 1912. To convert to NGVD of 1929, subtract 1.73 ft. Prior to Aug. 17, 1911, nonrecording gage 0.4 mi upstream from mouth at Lake Chelan at different datums (datum change made June 13, 1911). Aug. 17, 1911, to Oct. 31, 1915, nonrecording gage 0.2 mi downstream from Boulder Creek at different datum.

REMARKS.--Records fair. No known regulation or diversion. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--84 years (water years 1911-15, 1927-2005), 1,407 ft³/s, 59.52 in/yr, 1,019,000 acre-ft/yr, includes monthly discharge values published in WSP 1316.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,000 ft³/s, Oct. 20, 2003, gage height, 31.12 ft, from rating curve extended on basis of slope-area measurement at 18,800 ft³/s; minimum discharge, 56 ft³/s, Jan. 12, 1930.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 6,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 19	0515	*7,530	*23.78	No other peak greater than base discharge.			

Minimum discharge, 196 ft³/s, Sept. 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	515	426	736	625	1,660	548	680	2,130	2,340	1,400	761	421
2	504	789	686	597	1,570	543	659	2,100	1,900	1,330	677	451
3	494	694	653	573	1,520	538	640	2,190	1,740	1,150	637	418
4	483	598	641	541	1,590	534	627	2,370	1,620	1,090	628	381
5	475	561	608	503	1,580	539	606	2,430	1,690	1,200	638	363
6	500	620	574	511	1,460	544	602	2,780	1,480	1,680	690	352
7	479	1,680	561	515	1,370	599	640	2,700	1,320	1,280	709	349
8	479	1,710	561	513	1,270	674	676	2,490	1,250	1,290	716	361
9	572	1,380	535	500	1,180	809	669	2,890	1,160	1,510	774	375
10	499	1,120	1,270	486	1,090	942	658	3,710	1,210	1,080	765	340
11	475	953	3,740	478	1,030	1,030	684	3,400	1,350	960	719	321
12	471	853	2,090	460	979	1,290	667	3,370	1,260	985	699	315
13	464	789	1,630	452	927	1,230	647	3,360	1,110	969	666	304
14	466	753	1,440	437	880	1,150	633	3,570	1,040	879	657	304
15	470	722	1,300	428	817	1,090	627	3,590	992	956	665	305
16	747	680	1,140	403	778	1,060	660	3,490	950	1,120	669	298
17	751	632	1,040	401	747	1,000	643	2,670	1,210	1,010	706	297
18	708	613	1,010	e3,200	721	941	628	2,280	1,250	1,040	631	287
19	594	588	1,150	6,240	700	904	638	2,070	1,110	1,090	560	284
20	544	556	1,130	4,040	667	892	688	1,850	1,260	927	588	273
21	522	539	1,030	3,840	638	858	815	1,670	1,570	851	608	253
22	506	532	955	3,630	617	799	1,130	1,550	1,840	926	595	246
23	499	520	895	5,590	598	765	1,470	1,420	1,550	903	513	236
24	481	1,070	857	4,750	579	729	2,270	1,340	1,420	804	458	228
25	460	2,480	833	3,850	568	698	2,790	1,370	1,400	779	452	216
26	445	1,490	796	3,250	559	713	3,480	1,570	1,390	775	459	217
27	432	1,170	753	2,680	554	714	4,020	1,970	1,590	795	458	228
28	428	955	716	2,330	551	693	3,520	2,550	1,450	839	485	213
29	417	849	699	2,060	---	672	2,810	3,410	1,430	849	516	886
30	438	796	676	1,880	---	662	2,360	3,560	1,480	801	440	2,230
31	430	---	649	1,780	---	644	---	3,170	---	781	417	---
TOTAL	15,748	27,118	31,354	57,543	27,200	24,804	37,637	79,020	42,362	32,049	18,956	11,752
MEAN	508	904	1,011	1,856	971	800	1,255	2,549	1,412	1,034	611	392
MAX	751	2,480	3,740	6,240	1,660	1,290	4,020	3,710	2,340	1,680	774	2,230
MIN	417	426	535	401	551	534	602	1,340	950	775	417	213
AC-FT	31,240	53,790	62,190	114,100	53,950	49,200	74,650	156,700	84,030	63,570	37,600	23,310
CFSM	1.58	2.82	3.15	5.78	3.03	2.49	3.91	7.94	4.40	3.22	1.90	1.22
IN.	1.83	3.14	3.63	6.67	3.15	2.87	4.36	9.16	4.91	3.71	2.20	1.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2005, BY WATER YEAR (WY)

MEAN	618	698	529	420	405	532	1,446	3,521	4,122	2,597	1,242	692
MAX (WY)	2,072 (2004)	3,192 (1991)	1,896 (1976)	1,856 (2005)	1,209 (1971)	1,546 (1934)	4,644 (1934)	5,810 (1958)	7,738 (1950)	5,479 (1950)	2,716 (1974)	1,399 (1959)
MIN (WY)	230 (1988)	148 (1930)	125 (1930)	86.0 (1930)	115 (1937)	194 (1937)	549 (1955)	1,475 (1977)	1,412 (2005)	1,034 (2005)	611 (2005)	392 (2005)

CHELAN RIVER BASIN

12451000 STEHEKIN RIVER AT STEHEKIN, WA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1911 - 2005	
ANNUAL TOTAL	498,074		405,543			
ANNUAL MEAN	1,361		1,111		1,403	
HIGHEST ANNUAL MEAN					2,008	
LOWEST ANNUAL MEAN					864	
HIGHEST DAILY MEAN	4,860	May 21	6,240	Jan 19	18,000	Nov 29, 1995
LOWEST DAILY MEAN	370	Jan 5	213	Sep 28	58	Jan 12, 1930
ANNUAL SEVEN-DAY MINIMUM	402	Jan 22	226	Sep 22	67	Jan 9, 1930
ANNUAL RUNOFF (AC-FT)	987,900		804,400		1,016,000	
ANNUAL RUNOFF (CFSM)	4.24		3.46		4.37	
ANNUAL RUNOFF (INCHES)	57.72		47.00		59.37	
10 PERCENT EXCEEDS	3,370		2,350		3,590	
50 PERCENT EXCEEDS	897		765		741	
90 PERCENT EXCEEDS	420		435		247	

e Estimated

12452000 LAKE CHELAN AT CHELAN, WA

LOCATION.--Lat 47°50'11", long 120°03'37", near center of sec.15, T.27 N., R.22 E., Chelan County, Hydrologic Unit 17020009, on south shore of Lake Chelan at Lakeside, 2.1 mi west of Chelan.

DRAINAGE AREA.--924 mi².

PERIOD OF RECORD.--September 1897 to December 1899, January to June 1905 and December 1910 to September 1911 (fragmentary gage heights only), October 1911 to current year. Records of change in contents prior to October 1911, published in WSP 482 and 492 in conjunction with records for Chelan River near Chelan, have been found to be unreliable and should not be used. Monthend contents October 1911 to September 1950 published in WSP 1316.

REVISED RECORDS.--WSP 1246: 1951. WSP 1286: 1952. WSP 1933: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1912. To convert to NGVD of 1929, subtract 1.73 ft. Prior to Jan. 1, 1900, nonrecording gage at Lakeside about 1 mi west of Chelan at datum 1,070.18 ft above NGVD of 1912. Jan. 1 to June 30, 1905, nonrecording gage at upper highway bridge at Chelan at different datum. Dec. 5, 1910, to Nov. 13, 1927, nonrecording gage at Forest Service boat landing at Chelan at datum 1,076.07 ft above NGVD of 1912.

REMARKS.--Reservoir is formed by low concrete dam at lake outlet completed Sept. 3, 1927. Usable capacity between elevations 1,079 ft and 1,100 ft, 677,400 acre-ft. Regulation between these elevations is allowed by stipulation of the Federal Power Commission. Water is used for power development. Elevation of lake maintained between 1,092 ft and 1,100 ft during period Aug. 16 to Sept. 15 for scenic effect and recreational purposes. Diversions for irrigation of about 6,280 acres with an annual depletion of about 11,000 acre-ft, 1946 estimate. Chemical analyses June 1971 to August 1972.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,100.16 ft, June 30, 1981 (affected by seiche action); maximum contents, 679,300 acre-ft, June 30, 1981, elevation, 1,100.06 ft, mean of seiche; minimum elevation since completion of dam in 1927, 1,079.68 ft, Apr. 3, 4, 1937, Apr. 3, 1970, contents, 21,350 acre-ft; minimum elevation, 1,076.78 ft, Jan. 27, 28, Dec. 2-5, 1898.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 677,700 acre-ft, May 31, elevation, 1,100.01 ft; minimum contents, 384,800 acre-ft, Jan. 18, elevation, 1,091.05.

CAPACITY TABLE
(Based on data by the Pacific Northwest Coordination Agreement)

Gage height (feet)	Contents (acre-feet)	Gage height (feet)	Contents (acre-feet)	Gage height (feet)	Contents (acre-feet)
1,080	31,540	1,090	350,900	1,100	677,400
1,085	190,200	1,095	513,300		

ELEVATION ABOVE NGVD 1912, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,098.78	1,095.90	1,094.00	1,092.55	1,093.46	1,092.59	1,093.59	1,095.96	1,099.89	1,099.81	1,099.58	1,099.21
2	1,098.69	1,095.87	1,093.91	1,092.47	1,093.51	1,092.57	1,093.65	1,096.06	1,099.87	1,099.78	1,099.57	1,099.17
3	1,098.59	1,095.81	1,093.83	1,092.38	1,093.56	1,092.56	1,093.70	1,096.16	1,099.89	1,099.72	1,099.51	1,099.17
4	1,098.49	1,095.70	1,093.76	1,092.30	1,093.62	1,092.55	1,093.78	1,096.27	1,099.88	1,099.66	1,099.50	1,099.13
5	1,098.39	1,095.60	1,093.70	1,092.20	1,093.67	1,092.52	1,093.82	1,096.40	1,099.87	1,099.62	1,099.51	1,099.12
6	1,098.31	1,095.52	1,093.61	1,092.10	1,093.68	1,092.48	1,093.88	1,096.56	1,099.86	1,099.63	1,099.50	1,099.10
7	1,098.20	1,095.49	1,093.54	1,092.03	1,093.69	1,092.46	1,093.95	1,096.71	1,099.86	1,099.60	1,099.53	1,099.06
8	1,098.09	1,095.49	1,093.52	1,091.95	1,093.70	1,092.44	1,094.00	1,096.83	1,099.82	1,099.58	1,099.55	1,099.01
9	1,098.02	1,095.46	1,093.43	1,091.87	1,093.67	1,092.42	1,094.09	1,097.08	1,099.78	1,099.62	1,099.54	1,098.97
10	1,097.92	1,095.43	1,093.45	1,091.78	1,093.63	1,092.42	1,094.11	1,097.41	1,099.75	1,099.69	1,099.57	1,098.88
11	1,097.81	1,095.37	1,093.55	1,091.68	1,093.59	1,092.43	1,094.19	1,097.68	1,099.75	1,099.74	1,099.57	1,098.86
12	1,097.72	1,095.30	1,093.59	1,091.59	1,093.55	1,092.44	1,094.24	1,097.90	1,099.74	1,099.77	1,099.54	1,098.88
13	1,097.62	1,095.23	1,093.59	1,091.46	1,093.51	1,092.49	1,094.31	1,098.10	1,099.68	1,099.81	1,099.52	1,098.85
14	1,097.52	1,095.14	1,093.57	1,091.36	1,093.45	1,092.56	1,094.37	1,098.30	1,099.64	1,099.75	1,099.54	1,098.83
15	1,097.43	1,095.10	1,093.54	1,091.26	1,093.38	1,092.57	1,094.40	1,098.52	1,099.60	1,099.71	1,099.57	1,098.80
16	1,097.34	1,095.02	1,093.51	1,091.17	1,093.32	1,092.61	1,094.47	1,098.75	1,099.59	1,099.71	1,099.59	1,098.73
17	1,097.27	1,094.94	1,093.46	1,091.12	1,093.26	1,092.65	1,094.55	1,098.90	1,099.61	1,099.69	1,099.60	1,098.66
18	1,097.24	1,094.88	1,093.40	1,091.13	1,093.19	1,092.69	1,094.60	1,099.01	1,099.65	1,099.68	1,099.55	1,098.60
19	1,097.17	1,094.80	1,093.38	1,091.38	1,093.12	1,092.73	1,094.63	1,099.13	1,099.65	1,099.67	1,099.53	1,098.55
20	1,097.11	1,094.69	1,093.34	1,091.65	1,093.05	1,092.83	1,094.64	1,099.19	1,099.66	1,099.67	1,099.52	1,098.47
21	1,097.03	1,094.60	1,093.27	1,091.85	1,092.97	1,092.91	1,094.62	1,099.23	1,099.70	1,099.62	1,099.53	1,098.37
22	1,096.94	1,094.51	1,093.20	1,092.01	1,092.90	1,092.96	1,094.63	1,099.28	1,099.79	1,099.61	1,099.58	1,098.30
23	1,096.85	1,094.41	1,093.14	1,092.27	1,092.83	1,092.99	1,094.66	1,099.31	1,099.78	1,099.65	1,099.55	1,098.22
24	1,096.74	1,094.34	1,093.07	1,092.57	1,092.75	1,093.04	1,094.79	1,099.32	1,099.75	1,099.64	1,099.44	1,098.12
25	1,096.60	1,094.36	1,093.01	1,092.81	1,092.71	1,093.09	1,094.96	1,099.31	1,099.73	1,099.61	1,099.39	1,098.07
26	1,096.50	1,094.34	1,092.97	1,092.98	1,092.67	1,093.17	1,095.12	1,099.32	1,099.76	1,099.60	1,099.36	1,098.08
27	1,096.42	1,094.28	1,092.91	1,093.10	1,092.64	1,093.28	1,095.32	1,099.35	1,099.82	1,099.60	1,099.33	1,098.08
28	1,096.31	1,094.22	1,092.84	1,093.20	1,092.62	1,093.34	1,095.55	1,099.42	1,099.82	1,099.59	1,099.29	1,098.09
29	1,096.20	1,094.14	1,092.77	1,093.29	---	1,093.42	1,095.72	1,099.55	1,099.82	1,099.62	1,099.36	1,098.11
30	1,096.16	1,094.08	1,092.70	1,093.34	---	1,093.49	1,095.86	1,099.75	1,099.80	1,099.59	1,099.32	1,098.23
31	1,096.04	---	1,092.62	1,093.40	---	1,093.52	---	1,099.94	---	1,099.57	1,099.24	---
MEAN	1,097.40	1,095.00	1,093.36	1,092.14	1,093.28	1,092.78	1,094.47	1,098.22	1,099.76	1,099.66	1,099.49	1,098.66
MAX	1,098.78	1,095.90	1,094.00	1,093.40	1,093.70	1,093.52	1,095.86	1,099.94	1,099.89	1,099.81	1,099.60	1,099.21
MIN	1,096.04	1,094.08	1,092.62	1,091.12	1,092.62	1,092.42	1,093.59	1,095.96	1,099.59	1,099.57	1,099.24	1,098.07
†	547,000	482,400	435,600	461,900	436,200	467,100	542,800	673,700	671,400	663,200	652,700	620,400
‡	-93,500	-64,600	-46,800	+26,300	-25,700	+30,900	+75,700	+130,900	-2,300	-8,200	-10,500	-32,300
CAL YR	2004	MEAN	1,094.49	MAX	1,099.91	MIN	1,087.81	‡	-63,400			
WTR YR	2005	MEAN	1,096.20	MAX	1,099.94	MIN	1,091.12	‡	-20,100			

† Contents, in acre-feet, at 2400, on last day of month.

‡ Change in contents, in acre-feet.

12452500 CHELAN RIVER AT CHELAN, WA

LOCATION.--Lat 47°50'05", long 120°00'43", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.27 N., R.23 E., Chelan County, Hydrologic Unit 17020009, at Chelan River powerplant tailrace, 4.3 mi downstream from control dam at outlet of Lake Chelan, and 3.0 mi southeast of Chelan.

DRAINAGE AREA.--924 mi².

PERIOD OF RECORD.--November 1903 to current year. Published as "below Chelan Lake" 1904-05. Adjusted records for October 1903 to September 1911, published in WSP 482, 492, and 870 are unreliable and should not be used.

REVISED RECORDS.--WSP 482: 1904-13. WSP 612: 1924. WSP 1246: 1951. WSP 1286: 1952. WSP 1933: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder and watt-hour meters on each turbine. Datum of gage is 1,074.66 ft above NGVD of 1912. To convert to NGVD of 1929, subtract 1.62 ft. See WSP 1933 for history of changes prior to Mar. 20, 1939. Mar. 20, 1939, to Sept. 30, 1981, gage at site 1.7 mi downstream from the Lake Chelan gage, at same datum, and published as the gage of record, used to determine head and spill discharge.

REMARKS.--Daily discharge determined from flow through turbines computed from relation between loading and head, plus flow through two irrigation pipes which divert water from the penstock just above the turbines, plus spill discharge. Unmeasured water that is diverted for irrigation upstream from station is a small percentage of total runoff. Public Utility District No. 1 of Chelan County diverts water at Chelan to develop about 40,000 kW and to irrigate 900 acres near Chelan. This quantity is included in records of daily discharge. Diversions for irrigation of about 6,280 acres with an annual depletion of about 11,000 acre-ft, 1946 estimate. Flow regulated by Lake Chelan (station 12452000).

COOPERATION.--Records partially furnished by Public Utility District No. 1 of Chelan County.

AVERAGE DISCHARGE.--101 years (water years 1905-2005), 2,042 ft³/s, 30.01 in/yr, 1,479,000 acre-ft/yr, adjusted for storage since October 1911.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 18,400 ft³/s, June 3, 1968; no flow part of day, Jan. 30, 1917, when lake outlet was blocked with ice, and at other times owing to artificial regulation.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,380 ft³/s, June 1; minimum daily discharge, 3.6 ft³/s, Mar. 27-31.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
1	2,210	2,210	2,210	2,210	1,390	1,420	7.6	1,450	4,380	2,220	1,080	920					
2	2,210	2,210	2,210	2,210	1,380	1,400	7.7	1,410	2,600	2,220	770	908					
3	2,210	2,210	2,210	2,210	1,410	630	7.9	1,470	2,480	2,220	787	858					
4	2,210	2,210	2,210	2,210	1,390	1,430	8.1	1,470	2,480	2,220	770	16					
5	2,210	2,210	2,210	2,210	1,510	1,420	8.3	1,300	2,480	2,220	812	16					
6	2,210	2,210	2,210	2,210	1,790	1,420	8.4	1,300	2,480	2,220	766	1,150					
7	2,210	2,210	2,210	2,210	1,800	1,410	8.6	1,270	2,480	2,020	16	1,180					
8	2,210	2,210	2,210	2,210	1,910	1,400	8.7	1,280	2,480	1,480	658	1,140					
9	2,210	2,210	2,210	2,210	2,210	1,450	8.7	1,480	2,330	1,060	670	1,150					
10	2,210	2,210	2,210	2,210	2,210	1,360	8.8	1,650	2,250	17	641	653					
11	2,210	2,210	2,210	2,210	2,210	1,110	8.7	2,210	2,250	767	633	15					
12	2,210	2,210	2,210	2,210	2,210	1,400	8.7	2,150	2,250	1,050	733	557					
13	2,210	2,210	2,210	2,210	2,210	3.9	8.7	2,210	2,250	1,410	591	761					
14	2,210	2,210	2,210	2,210	2,210	1,280	8.7	2,210	2,240	1,680	16	698					
15	2,210	2,210	2,210	2,210	2,210	1,290	8.7	2,210	2,030	1,680	695	1,160					
16	2,210	2,210	2,210	2,210	2,210	525	8.8	2,210	1,560	1,630	808	1,480					
17	2,210	2,210	2,210	2,210	2,210	521	8.9	2,210	1,450	1,050	791	1,350					
18	2,210	2,210	2,210	2,210	2,210	550	9.0	2,210	1,460	1,650	804	910					
19	2,210	2,210	2,210	2,210	2,210	250	584	2,210	1,450	1,720	808	1,460					
20	2,210	2,210	2,210	1,910	2,210	246	1,230	2,210	1,430	1,480	704	1,470					
21	2,210	2,210	2,210	1,910	2,210	246	1,270	2,210	1,670	1,420	15	1,340					
22	2,210	2,210	2,210	1,970	2,210	237	1,280	2,210	1,680	942	1,080	1,320					
23	2,210	2,210	2,210	1,910	2,210	254	1,330	2,210	2,220	1,020	1,110	1,460					
24	2,210	2,210	2,210	1,810	2,210	258	9.9	2,210	2,220	921	1,090	1,440					
25	2,210	2,210	2,210	1,770	2,210	254	1,330	2,210	2,150	1,060	1,050	17					
26	2,210	2,210	2,210	1,860	2,210	3.7	1,370	2,210	1,390	1,060	1,060	13					
27	2,210	2,210	2,210	1,790	2,210	3.6	1,290	2,210	1,580	1,170	1,140	13					
28	2,210	2,210	2,210	1,800	1,200	3.6	1,360	2,210	2,220	842	15	13					
29	2,210	2,210	2,210	1,800	---	3.6	1,410	2,210	2,220	1,110	548	196					
30	2,210	2,210	2,210	1,760	---	3.6	1,450	2,210	2,220	922	948	926					
31	2,210	---	2,210	1,710	---	3.6	---	3,740	---	1,060	886	---					
TOTAL	68,510	66,300	68,510	63,990	55,770	21,786.6	14,066.9	61,960	64,380	43,541	22,495	24,590					
MEAN	2,210	2,210	2,210	2,064	1,992	703	469	1,999	2,146	1,405	726	820					
MAX	2,210	2,210	2,210	2,210	2,210	1,450	1,450	3,740	4,380	2,220	1,140	1,480					
MIN	2,210	2,210	2,210	1,710	1,200	3.6	7.6	1,270	1,390	17	15	13					
AC-FT	135,900	131,500	135,900	126,900	110,600	43,210	27,900	122,900	127,700	86,360	44,620	48,770					
MEAN†	689	1,125	1,449	2,491	1,529	1,205	1,742	4,127	2,108	1,271	555	277					
CFSM†	0.75	1.22	1.57	2.70	1.65	1.30	1.89	4.47	2.28	1.38	0.60	0.30					
IN.†	0.86	1.36	1.81	3.11	1.72	1.50	2.10	5.15	2.54	1.59	0.69	0.33					
AC-FT†	42,400	66,900	89,100	153,200	84,900	74,110	103,600	253,800	125,400	78,160	34,120	16,470					
CAL YR 2004	TOTAL	715,310	MEAN	1,954	MAX	2,220	MIN	17	AC-FT	1,419,000	MEAN†	1,869	CFSM†	2.02	IN.†	27.52	AC-
FT†	1,356,000																
WTR YR 2005	TOTAL	575,899.5	MEAN	1,578	MAX	4,380	MIN	3.6	AC-FT	1,142,000	MEAN†	1,549	CFSM†	1.68	IN.†	22.77	AC-
FT†	1,122,000																

† Adjusted for change in contents in Lake Chelan.