

WENATCHEE RIVER BASIN

12458000 ICICLE CREEK ABOVE SNOW CREEK, NEAR LEAVENWORTH, WA

LOCATION.--Lat 47°32'28", long 120°43'08", in SE 1/4 SE 1/4 sec.28, T.24 N., R.17 E., Chelan County, Hydrologic Unit 17020011, on right bank 1,000 ft upstream from Icicle Canal diversion dam, 0.4 mi upstream from Snow Creek, 4.8 mi southwest of Leavenworth, and at mile 5.8.

DRAINAGE AREA.--193 mi².

PERIOD OF RECORD.--September 1936 to September 1971, October 1993 to current year.

REVISED RECORDS.--WSP 1246: 1936-41. WSP 1286: 1948. WSP 1446: 1943(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,450 ft above NGVD of 1929, from river-profile map.

REMARKS.--No estimated daily discharges. Records fair. No diversion. Some regulation in headwater lakes. Suspended sediment data are available from the district office.

AVERAGE DISCHARGE.--44 years (water years 1937-71, 1994-2002), 622 ft³/s, 43.80 in/yr, 450,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,800 ft³/s Nov. 29, 1995, gage height, 16.04 ft, from rating curve extended above 7,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily discharge, 44 ft³/s Nov. 30, 1936.

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)
Nov. 14	2100	2,700	8.96	June 16	0045	*3,970	*10.21
Apr. 14	0915	2,650	8.91	June 27	0315	2,840	9.12
May 30	0015	3,690	9.96				

Minimum discharge 65 ft³/s Oct. 7, 8.

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	73	319	340	218	295	407	309	1050	2500	1570	415	188
2	71	291	337	218	282	381	327	1350	2480	1400	377	187
3	70	290	322	211	272	378	327	1320	2540	1290	348	185
4	68	255	297	205	262	371	328	1150	2630	1220	326	184
5	67	262	284	199	255	363	357	1030	2850	1080	308	175
6	67	251	278	200	249	354	401	928	2800	1040	302	165
7	65	223	275	816	249	341	448	833	2120	1130	294	164
8	65	206	264	2010	247	322	455	765	1680	1450	278	159
9	69	195	251	1300	239	319	461	716	1430	1290	266	149
10	73	184	237	927	230	315	496	674	1510	1200	262	142
11	116	176	229	778	225	330	553	672	1880	1370	263	136
12	138	176	219	710	199	409	618	739	2300	1410	257	131
13	238	229	264	656	218	387	909	916	2860	1330	248	125
14	184	1610	353	590	218	362	2250	1000	3380	1330	242	115
15	183	1880	320	531	212	342	1630	991	3610	1150	239	111
16	141	1290	379	519	207	328	1230	1020	3360	956	232	108
17	136	861	636	469	203	317	1030	1170	2580	916	222	108
18	125	677	507	454	199	304	893	1340	2540	871	212	107
19	141	644	441	441	197	295	822	1350	2160	829	202	105
20	239	725	393	420	196	295	794	1900	2010	772	194	103
21	173	677	356	405	206	297	798	1970	2130	696	189	101
22	192	617	327	381	527	291	769	1700	2380	661	184	97
23	305	566	304	365	774	283	743	1490	2440	647	180	95
24	234	504	288	364	663	279	689	1430	2220	642	176	93
25	200	462	276	384	546	283	668	1510	2140	628	174	91
26	210	420	265	383	498	286	668	1670	2420	619	174	90
27	220	388	256	353	468	288	694	1860	2620	584	171	89
28	201	363	248	333	438	287	685	2610	2270	532	169	89
29	176	373	239	298	---	286	710	3400	2620	504	166	87
30	169	353	231	309	---	289	801	3310	2040	488	165	90
31	295	---	225	305	---	296	---	2870	---	457	183	---
TOTAL	4704	15467	9641	15752	8774	10085	21863	44734	72500	30062	7418	3769
MEAN	152	516	311	508	313	325	729	1443	2417	970	239	126
MAX	305	1880	636	2010	774	409	2250	3400	3610	1570	415	188
MIN	65	176	219	199	196	279	309	672	1430	457	165	87
AC-FT	9330	30680	19120	31240	17400	20000	43370	88730	143800	59630	14710	7480
CFSM	0.79	2.67	1.61	2.63	1.62	1.69	3.78	7.48	12.5	5.02	1.24	0.65
IN.	0.91	2.98	1.86	3.04	1.69	1.94	4.21	8.62	13.97	5.79	1.43	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

	MEAN	242	379	343	278	292	282	662	1708	1936	903	271	159
MAX	703	1992	1062	813	994	669	1099	2798	3429	2292	764	380	
(WY)	1960	1996	1996	1968	1996	1997	1943	1956	1948	1954	1954	1959	
MIN	74.5	66.2	72.9	72.4	72.5	112	275	984	736	269	121	86.3	
(WY)	1994	1953	1953	1937	1937	1937	1967	1941	2001	1941	1941	2001	

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1937 - 2002	
ANNUAL TOTAL	125475		244769			
ANNUAL MEAN	344		671		622	
HIGHEST ANNUAL MEAN					905	
LOWEST ANNUAL MEAN					299	
HIGHEST DAILY MEAN	2640	May 24	3610	Jun 15	14100	Nov 29 1995
LOWEST DAILY MEAN	65	Oct 7	65	Oct 7	44	Nov 30 1936
ANNUAL SEVEN-DAY MINIMUM	67	Oct 3	67	Oct 3	50	Nov 25 1952
ANNUAL RUNOFF (AC-FT)	248900		485500		450700	
ANNUAL RUNOFF (CFSM)	1.78		3.47		3.22	
ANNUAL RUNOFF (INCHES)	24.18		47.18		43.80	
10 PERCENT EXCEEDS	796		1870		1640	
50 PERCENT EXCEEDS	200		342		299	
90 PERCENT EXCEEDS	79		142		117	