

CHEHALIS RIVER BASIN

12025700 SKOOKUMCHUCK RIVER NEAR VAIL, WA

LOCATION.--Lat 46°46'22", long 122°35'34", in SW 1/4 NW 1/4 sec.20, T.15 N., R.2 E., Thurston County, Hydrologic Unit 17100103, on right bank about 150 ft downstream from logging bridge, 0.4 mi downstream from Hospital Creek, 5.8 mi southeast of Vail, and at mile 28.8.

DRAINAGE AREA.--40.0 mi².

PERIOD OF RECORD.--October 1967 to current year.

REVISED RECORDS.--WDR WA-75-1: 1974.

GAGE.--Water-stage recorder. Elevation of gage is 710 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--35 years (water years 1968-2002), 201 ft³/s, 68.36 in/yr, 145,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,350 ft³/s Feb. 8, 1996, gage height, 11.24 ft; minimum discharge, 13 ft³/s Oct. 29, 1987.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 14	1045	1,840	7.02	Dec. 17	0000	*3,850	*8.30
Nov. 22	1515	1,450	6.59	Jan. 7	2130	2,050	6.90
Nov. 29	0530	1,320	6.43	Jan. 25	0715	2,770	7.50
Dec. 1	1845	1,980	7.16	Mar. 11	1515	2,060	6.91
Dec. 13	2045	2,580	7.72	Apr. 14	0315	1,830	6.71

Minimum discharge, 23 ft³/s Oct. 4-10, Sept. 22-29.

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	25	281	1500	180	266	208	220	146	93	85	35	27
2	25	227	1280	241	243	187	212	143	88	75	35	27
3	24	173	735	211	323	172	200	136	83	70	35	28
4	24	141	534	185	312	160	193	125	81	66	36	27
5	23	129	432	176	296	157	197	138	89	62	37	27
6	23	111	567	310	403	150	227	133	79	59	36	27
7	23	98	546	1550	644	140	228	127	75	60	34	28
8	24	88	445	1530	621	132	201	120	75	61	33	27
9	23	81	406	870	519	134	249	115	72	55	32	27
10	31	75	352	543	421	231	470	110	69	52	33	26
11	37	70	363	391	374	1270	591	106	68	50	33	25
12	32	74	379	434	316	1220	736	106	65	49	31	25
13	44	131	1340	408	268	952	912	117	63	48	31	25
14	63	1440	1470	338	229	664	1450	118	62	47	30	25
15	52	874	815	277	205	483	866	108	60	46	30	25
16	44	580	1970	237	192	378	675	103	59	46	30	27
17	40	361	2190	205	185	301	543	109	60	45	29	27
18	36	259	1100	191	204	262	436	102	68	44	29	26
19	35	245	851	202	342	411	363	99	64	44	29	25
20	33	327	634	310	331	704	313	104	58	43	29	25
21	36	549	475	353	760	502	271	100	56	41	29	24
22	72	1020	377	281	861	398	241	99	54	40	29	24
23	184	961	306	247	785	353	214	92	53	39	28	23
24	161	556	259	971	690	339	194	e86	52	39	28	23
25	165	383	225	2070	472	330	182	e83	51	38	28	23
26	121	292	201	1010	359	314	174	e85	49	38	28	23
27	124	240	187	603	289	299	171	e88	51	38	28	23
28	109	467	193	421	242	291	156	e150	78	38	27	23
29	92	1100	181	324	---	275	148	e220	178	38	27	25
30	98	803	169	276	---	254	145	110	105	36	27	27
31	283	---	169	285	---	233	---	100	---	36	27	---
TOTAL	2106	12136	20651	15630	11152	11904	11178	3578	2158	1528	953	764
MEAN	67.9	405	666	504	398	384	373	115	71.9	49.3	30.7	25.5
MAX	283	1440	2190	2070	861	1270	1450	220	178	85	37	28
MIN	23	70	169	176	185	132	145	83	49	36	27	23
AC-FT	4180	24070	40960	31000	22120	23610	22170	7100	4280	3030	1890	1520
CFSM	1.70	10.1	16.7	12.6	9.96	9.60	9.32	2.89	1.80	1.23	0.77	0.64
IN.	1.96	11.29	19.21	14.54	10.37	11.07	10.40	3.33	2.01	1.42	0.89	0.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

	87.3	293	407	390	364	304	233	137	91.2	48.2	32.0	38.2
MEAN	87.3	293	407	390	364	304	233	137	91.2	48.2	32.0	38.2
MAX	298	622	756	756	797	621	454	261	187	122	71.2	95.7
(WY)	1998	1984	1997	1971	1999	1972	1991	1984	1981	1983	1968	1968
MIN	14.6	37.4	78.4	68.6	92.5	90.9	112	65.1	33.3	27.1	19.3	18.6
(WY)	1988	1994	1977	1977	1977	1992	1973	1994	1992	1992	1992	1987

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1968 - 2002

ANNUAL TOTAL		65333		93738								
ANNUAL MEAN		179		257						201		
HIGHEST ANNUAL MEAN										302		1999
LOWEST ANNUAL MEAN										103		1977
HIGHEST DAILY MEAN			2190	Dec 17		2190	Dec 17		5550	Feb 8	1996	
LOWEST DAILY MEAN			23	Oct 5		23	Oct 5		14	Oct 11	1987	
ANNUAL SEVEN-DAY MINIMUM			23	Oct 3		23	Sep 22		14	Oct 17	1987	
ANNUAL RUNOFF (AC-FT)			129600			185900				145800		
ANNUAL RUNOFF (CFSM)			4.47			6.42				5.03		
ANNUAL RUNOFF (INCHES)			60.76			87.18				68.36		
10 PERCENT EXCEEDS			378			652				463		
50 PERCENT EXCEEDS			102			133				115		
90 PERCENT EXCEEDS			28			27				26		

e Estimated