

MINTER CREEK BASIN

12073500 HUGE CREEK NEAR WAUNA, WA

LOCATION.--Lat 47°23'22", long 122°41'52", at north line sec.20, T.22 N., R.1 E., Pierce County, Hydrologic Unit 17110019, on right bank 25 ft upstream from bridge, 0.1 mi upstream from mouth, and 2.5 mi west of Wauna.

DRAINAGE AREA.--6.47 mi².

PERIOD OF RECORD.--July 1947 to September 1969, October 1977 to current year.

REVISED RECORDS.--WSP 1636: 1953-54, 1956, 1957(M). WSP 1932: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above NGVD of 1929, from topographic map. Prior to Sept. 27, 1978, at site 50 ft downstream and prior to June 26, 1951, at datum 0.86 ft higher.

REMARKS.--Records good except for period Oct. 16 to May 1, which is poor. No regulation or diversion upstream from station.

AVERAGE DISCHARGE.--47 years (water years 1948-69, 1978-2002), 11.2 ft³/s, 23.59 in/yr, 8,140 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 526 ft³/s, Mar. 19, 1997, gage height, 5.76 ft; minimum discharge, 2.4 ft³/s, Sept. 30, 1994, Oct. 1, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 16		*285	*4.43	Jan. 25	0615	212	3.12
Jan. 07		280	4.40				

Minimum discharge, 2.8 ft³/s, Oct. 6.

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	3.4	4.5	52	e22	16	12	e8.3	e7.8	6.4	5.5	4.5	4.4
2	3.3	4.9	45	e27	15	11	e8.0	8.1	6.4	5.4	4.5	4.4
3	3.2	4.1	27	e26	15	10	e7.8	7.9	6.2	5.3	4.5	4.4
4	3.6	3.7	26	e25	14	9.8	e7.9	7.8	6.2	5.3	4.8	4.4
5	3.5	4.1	26	e25	14	9.7	e7.8	7.7	6.1	5.2	5.0	4.4
6	3.2	3.8	30	e50	19	9.6	e7.6	7.9	6.0	5.1	5.0	4.4
7	3.4	3.7	21	e240	24	9.5	e7.6	7.8	6.1	5.6	4.7	4.4
8	3.4	e3.4	17	e170	22	9.2	e7.9	7.5	6.3	5.6	4.5	4.5
9	3.5	e3.4	14	e105	17	9.3	e8.9	7.4	6.0	5.2	4.5	4.5
10	4.2	e3.2	13	e52	16	11	e10	7.4	6.0	5.1	4.5	4.3
11	4.0	e3.4	12	e43	14	38	e10	7.2	5.9	5.0	4.5	4.3
12	3.9	e4.7	e11	e38	13	37	e10	7.2	5.7	4.9	4.4	4.1
13	3.9	e10	e15	e25	13	33	e13	7.4	5.5	4.8	4.3	4.1
14	4.0	27	e54	e22	12	21	e21	7.4	5.6	4.9	4.3	4.2
15	3.9	16	e40	e19	12	18	e20	7.1	5.6	4.8	4.3	4.3
16	3.6	10	e250	e18	12	16	e18	7.1	5.6	4.8	4.3	4.9
17	3.6	7.4	e220	e16	12	15	e18	7.9	6.0	4.8	4.3	4.5
18	3.5	6.1	e80	e14	12	15	e15	7.2	6.7	4.8	4.3	4.2
19	3.6	8.0	e56	e14	12	15	e13	7.2	6.1	4.8	4.5	4.2
20	3.5	12	e42	e14	10	19	e12	7.3	5.6	4.7	4.9	4.3
21	3.8	20	e33	13	24	15	e12	7.3	5.5	4.6	4.5	4.1
22	5.2	37	e28	12	44	14	e11	7.2	5.5	4.6	4.5	4.0
23	4.9	27	e24	11	35	12	e9.9	7.0	5.4	4.5	4.5	4.0
24	4.3	16	e21	43	25	11	e9.4	6.8	5.4	4.5	4.5	4.1
25	5.5	11	e20	98	18	11	e9.0	6.7	5.3	4.7	4.5	4.1
26	4.3	8.4	e19	53	16	e9.6	e8.6	6.6	5.2	4.8	4.5	4.1
27	6.3	7.2	e17	37	14	e9.4	e9.0	6.6	5.3	4.7	4.4	4.1
28	4.9	15	e18	27	12	e9.4	e8.9	7.3	7.3	4.7	4.3	4.1
29	3.9	43	e18	20	---	e9.2	e8.6	7.7	8.3	4.8	4.3	4.1
30	4.2	37	e17	18	---	e8.8	e8.2	6.7	5.8	4.9	4.3	4.0
31	6.3	---	e18	18	---	e8.6	---	6.5	---	4.7	4.3	---
TOTAL	125.8	365.0	1284	1315	482	446.1	326.4	226.7	179.0	153.1	139.2	127.9
MEAN	4.06	12.2	41.4	42.4	17.2	14.4	10.9	7.31	5.97	4.94	4.49	4.26
MAX	6.3	43	250	240	44	38	21	8.1	8.3	5.6	5.0	4.9
MIN	3.2	3.2	11	11	10	8.6	7.6	6.5	5.2	4.5	4.3	4.0
AC-FT	250	724	2550	2610	956	885	647	450	355	304	276	254
CFSM	0.63	1.88	6.40	6.56	2.66	2.22	1.68	1.13	0.92	0.76	0.69	0.66
IN.	0.72	2.10	7.38	7.56	2.77	2.56	1.88	1.30	1.03	0.88	0.80	0.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

	5.50	10.5	18.6	23.5	22.5	16.3	10.6	7.51	6.08	5.06	4.60	4.66
MEAN	5.50	10.5	18.6	23.5	22.5	16.3	10.6	7.51	6.08	5.06	4.60	4.66
MAX	9.76	29.2	41.4	47.1	58.1	42.7	24.6	12.4	8.60	7.31	6.18	6.68
(WY)	1998	1991	2002	1966	1999	1997	1991	1959	1984	1961	1968	1978
MIN	3.45	3.55	4.97	5.37	5.73	7.16	6.07	4.52	4.24	3.50	3.15	3.23
(WY)	1988	1994	1953	1979	1993	2001	2001	1994	2001	1994	1994	1989

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1947 - 2002

	3239.0	5170.2		
ANNUAL TOTAL	3239.0	5170.2		
ANNUAL MEAN	8.87	14.2		
HIGHEST ANNUAL MEAN			19.8	1999
LOWEST ANNUAL MEAN			5.57	2001
HIGHEST DAILY MEAN	250	Dec 16	400	Mar 19 1997
LOWEST DAILY MEAN	3.2	Oct 3	2.7	Sep 30 1994
ANNUAL SEVEN-DAY MINIMUM	3.4	Sep 30	2.8	Oct 4 1994
ANNUAL RUNOFF (AC-FT)	6420	10260	8140	
ANNUAL RUNOFF (CFSM)	1.37	2.19	1.74	
ANNUAL RUNOFF (INCHES)	18.62	29.73	23.59	
10 PERCENT EXCEEDS	14	26	22	
50 PERCENT EXCEEDS	5.2	7.3	6.8	
90 PERCENT EXCEEDS	3.5	4.1	4.2	

e Estimated