



Figure 15. Location of surface-water stations in the Minter Creek Basin.

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 estimated daily discharges, which are fair. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--49 years (water years 1948-69, 1978-2004), 11.2 ft³/s, 23.44 in/yr, 8,090 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)
Oct 21	0645	147	3.37	Jan 30	0400	72	2.54
Nov 19	0345	*148	*3.38				

Minimum discharge, 3.6 ft³/s, Oct. 1, gage height, 1.03 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	6.0	18	10	33	10	8.0	6.3	5.7	4.6	4.0	e4.2
2	3.9	6.9	16	10	30	9.5	7.9	6.3	5.5	4.7	4.1	4.1
3	3.9	6.3	15	9.6	25	10	8.0	6.3	5.4	4.7	4.3	4.1
4	3.9	5.9	14	8.6	20	9.6	7.9	6.3	5.3	4.6	4.4	4.0
5	4.0	5.8	20	8.0	17	11	7.8	6.2	5.6	4.6	4.4	4.1
6	4.2	5.7	28	8.5	18	9.6	7.7	6.2	5.6	4.7	6.8	4.1
7	5.1	5.7	23	15	17	15	7.7	6.6	5.5	4.6	6.0	4.0
8	5.0	5.7	18	26	15	13	7.6	6.6	5.3	4.5	4.6	4.1
9	5.0	5.5	15	27	13	12	7.5	6.5	5.4	4.6	4.2	4.1
10	4.8	5.4	15	30	13	11	7.4	6.3	5.4	5.0	4.2	4.1
11	4.7	5.5	15	25	12	9.7	7.4	7.1	5.5	5.1	4.1	6.3
12	6.5	5.4	23	21	11	9.5	7.3	6.4	5.4	e4.7	4.1	4.4
13	4.6	5.4	24	20	11	9.1	7.3	6.1	5.9	e4.6	4.1	4.7
14	4.1	5.4	24	25	15	9.0	8.0	6.0	5.3	e4.5	4.1	4.4
15	5.6	6.0	19	28	17	8.8	7.8	5.9	5.1	e4.4	4.1	5.2
16	13	9.2	18	21	19	8.7	7.5	6.0	5.0	e4.4	4.1	4.8
17	17	9.7	16	17	20	8.8	7.2	5.9	4.9	e4.3	4.2	5.8
18	6.7	67	14	17	20	8.9	7.1	5.8	4.8	e4.3	4.1	5.4
19	5.9	112	13	16	16	9.0	7.4	5.9	4.7	e4.2	4.1	5.0
20	64	47	13	14	14	8.5	8.1	5.8	4.7	4.2	4.1	4.6
21	106	26	12	12	13	8.4	7.9	5.8	4.7	4.2	4.2	4.3
22	37	18	11	12	12	8.4	7.1	6.1	4.8	4.1	5.0	4.5
23	23	16	10	12	12	8.2	7.1	6.1	4.8	4.1	4.4	4.5
24	15	16	12	13	11	11	7.0	5.7	4.9	4.0	8.3	4.3
25	11	21	12	11	11	12	6.7	5.6	4.9	4.1	7.0	4.2
26	8.9	17	11	11	11	11	6.6	6.2	4.7	4.1	5.8	4.2
27	7.9	13	11	10	12	10	6.6	8.4	4.7	4.0	4.8	4.2
28	7.2	26	12	15	11	8.9	6.6	7.6	4.6	4.1	4.5	4.2
29	6.8	37	10	33	11	8.6	6.5	6.9	4.6	4.1	4.3	4.1
30	6.5	24	9.4	61	---	8.4	6.4	6.2	4.6	4.1	4.2	4.2
31	6.2	---	10	40	---	8.1	---	5.8	---	4.1	e4.2	---
TOTAL	411.2	545.5	481.4	586.7	460	303.7	221.1	194.9	153.3	136.3	144.8	134.2
MEAN	13.3	18.2	15.5	18.9	15.9	9.80	7.37	6.29	5.11	4.40	4.67	4.47
MAX	106	112	28	61	33	15	8.1	8.4	5.9	5.1	8.3	6.3
MIN	3.8	5.4	9.4	8.0	11	8.1	6.4	5.6	4.6	4.0	4.0	4.0
AC-FT	816	1,080	955	1,160	912	602	439	387	304	270	287	266
CFSM	2.05	2.81	2.40	2.93	2.45	1.51	1.14	0.97	0.79	0.68	0.72	0.69
IN.	2.36	3.14	2.77	3.37	2.64	1.75	1.27	1.12	0.88	0.78	0.83	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	5.63	10.6	18.3	23.4	22.1	16.2	10.6	7.47	6.04	5.03	4.58	4.64
MAX	13.3	29.2	41.4	47.1	58.1	42.7	24.6	12.4	8.60	7.31	6.18	6.68
(WY)	(2004)	(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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	4,121.1		3,773.1			
ANNUAL MEAN	11.3		10.3		11.2	
HIGHEST ANNUAL MEAN					19.8	1999
LOWEST ANNUAL MEAN					5.57	2001
HIGHEST DAILY MEAN	112	Nov 19	112	Nov 19	400	Mar 19, 1997
LOWEST DAILY MEAN	3.4	Sep 4	3.8	Oct 1	2.7	Sep 30, 1994
ANNUAL SEVEN-DAY MINIMUM	3.5	Aug 31	4.1	Jul 22	2.8	Oct 4, 1994
ANNUAL RUNOFF (AC-FT)	8,170		7,480		8,090	
ANNUAL RUNOFF (CFSM)	1.75		1.59		1.73	
ANNUAL RUNOFF (INCHES)	23.69		21.69		23.44	
10 PERCENT EXCEEDS	23		19		21	
50 PERCENT EXCEEDS	7.1		6.6		6.8	
90 PERCENT EXCEEDS	3.8		4.1		4.2	

e Estimated