



Water-Data Report 2007

**14013000 MILL CREEK NEAR WALLA WALLA, WA**

Middle Columbia Basin  
Walla Walla Subbasin

LOCATION.--Lat 46°00'29", long 118°07'03" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.7, T.6 N., R.38 E., Walla Walla County, WA, Hydrologic Unit 17070102, on left bank 0.1 mi downstream from Railroad Canyon, 4.0 mi downstream from City of Walla Walla diversion dam, 4.4 mi upstream from Blue Creek, 11.5 mi southeast of Walla Walla, and at mile 21.2.

DRAINAGE AREA.--59.6 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1913 to September 1917, April to September 1938, October 1939 to September 1976, October 1979 to current year.  
Maximum discharge and occasional discharge measurements 1977-79.

REVISED RECORDS.--WSP 1398: 1946-48(M), 1950 (M). WSP 1935: 1959, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,995.85 ft above NGVD of 1929 (levels by U.S. Corps of Engineers). Prior to Oct. 1, 1938, nonrecording gages at about same site at different datums.

REMARKS.--No estimated daily discharges. Records fair. No regulation. City of Walla Walla diverts about 28 ft<sup>3</sup>/s 4.0 mi upstream from station for municipal use. Water temperatures March 1962 to July 1965. Sediment records March 1962 to July 1965. U.S. Geological Survey telephone telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--69 years (water years 1914-17, 1940-76, 1980-2007), 95.4 ft<sup>3</sup>/s, 69,130 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,350 ft<sup>3</sup>/s, Feb. 9, 1996, gage height, 20.43 ft, from rating curve extended above 1,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum daily discharge, 9.5 ft<sup>3</sup>/s, Dec. 9, 10, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 31 or Apr. 1, 1931, reached a discharge of about 11,000 ft<sup>3</sup>/s, based on slope-area measurement about 900 ft upstream at old City of Walla Walla diversion dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 7	1430	*814	*16.37
No other peak greater than base discharge			

Minimum discharge, 22 ft<sup>3</sup>/s, July 10, 11, 13-16, 26-28, Aug. 1-5, 7, 9, 11, 12, 14, 15.

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**14013000 MILL CREEK NEAR WALLA WALLA, WA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	26	28	69	97	41	94	203	78	35	28	23	27
<b>2</b>	25	31	61	93	39	84	184	95	31	27	23	26
<b>3</b>	25	32	57	333	39	81	161	93	31	25	24	26
<b>4</b>	25	42	55	534	40	84	140	84	31	25	24	27
<b>5</b>	25	57	57	322	41	104	124	75	46	25	24	27
<b>6</b>	25	206	60	213	46	134	117	69	40	25	24	28
<b>7</b>	26	668	64	159	54	177	118	64	35	25	24	26
<b>8</b>	26	458	73	146	62	294	121	61	33	25	24	25
<b>9</b>	25	226	100	147	94	261	135	63	32	25	24	25
<b>10</b>	25	157	138	151	118	211	122	61	52	24	24	24
<b>11</b>	25	174	160	138	140	189	109	60	37	24	24	24
<b>12</b>	25	153	175	114	156	241	98	59	34	25	24	24
<b>13</b>	24	145	473	98	148	283	90	59	32	26	24	24
<b>14</b>	24	175	491	85	131	234	88	54	31	24	24	25
<b>15</b>	26	148	494	76	173	185	88	50	30	24	24	24
<b>16</b>	43	120	324	69	252	154	82	48	30	24	24	25
<b>17</b>	32	98	212	64	232	140	87	47	30	24	24	25
<b>18</b>	27	81	149	61	216	136	83	46	29	24	24	26
<b>19</b>	37	71	117	58	191	135	81	44	29	29	29	27
<b>20</b>	33	82	99	58	193	157	78	43	29	25	28	25
<b>21</b>	26	89	90	52	184	137	76	50	28	25	26	25
<b>22</b>	28	104	79	50	171	127	82	51	30	25	25	25
<b>23</b>	28	141	77	49	149	128	84	49	32	25	25	25
<b>24</b>	28	169	71	50	128	122	82	44	28	25	26	25
<b>25</b>	29	159	81	50	121	177	83	44	30	25	24	25
<b>26</b>	27	132	174	49	114	220	80	40	29	24	24	25
<b>27</b>	26	118	276	49	108	232	78	40	29	24	25	25
<b>28</b>	26	98	211	46	103	210	79	40	28	24	25	29
<b>29</b>	26	81	164	43	---	202	81	40	28	24	24	30
<b>30</b>	26	77	133	43	---	196	81	39	29	24	24	26
<b>31</b>	27	---	112	41	---	192	---	39	---	24	28	---
<b>Total</b>	846	4,320	4,896	3,538	3,484	5,321	3,115	1,729	968	772	763	770
<b>Mean</b>	27.3	144	158	114	124	172	104	55.8	32.3	24.9	24.6	25.7
<b>Max</b>	43	668	494	534	252	294	203	95	52	29	29	30
<b>Min</b>	24	28	55	41	39	81	76	39	28	24	23	24
<b>Ac-ft</b>	1,680	8,570	9,710	7,020	6,910	10,550	6,180	3,430	1,920	1,530	1,510	1,530

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2007, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	36.5	72.7	112	132	154	159	173	136	73.8	37.2	30.8	31.3
<b>Max</b>	105	263	376	362	548	410	420	495	260	69.8	48.7	47.5
(WY)	(1952)	(1996)	(1965)	(1965)	(1996)	(1997)	(1917)	(1917)	(1974)	(1974)	(1975)	(1959)
<b>Min</b>	19.4	24.1	32.9	33.7	44.3	45.4	46.5	40.1	27.7	23.0	20.4	20.7
(WY)	(1940)	(1940)	(1966)	(1944)	(1994)	(1941)	(1941)	(1992)	(1992)	(1994)	(1987)	(1983)

**14013000 MILL CREEK NEAR WALLA WALLA, WA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2006</b>	<b>Water Year 2007</b>			<b>Water Years 1914 - 2007</b>	
<b>Annual total</b>	38,197		30,522			
<b>Annual mean</b>	105		83.6		95.4	
<b>Highest annual mean</b>					180	1997
<b>Lowest annual mean</b>					54.1	1941
<b>Highest daily mean</b>	668	Nov 7	668	Nov 7	3,240	Feb 9, 1996
<b>Lowest daily mean</b>	24	Oct 13	23	Aug 1	9.5	Dec 9, 1972
<b>Annual seven-day minimum</b>	25	Oct 8	24	Jul 27	10	Dec 8, 1972
<b>Annual runoff (ac-ft)</b>	75,760		60,540		69,130	
<b>10 percent exceeds</b>	227		184		201	
<b>50 percent exceeds</b>	73		49		57	
<b>90 percent exceeds</b>	27		24		28	

