



Water-Data Report 2011

**14113200 MOSIER CREEK NEAR MOSIER, OR**

Middle Columbia Basin  
Middle Columbia-Hood Subbasin

LOCATION.--Lat 45°38'57", long 121°22'34" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.19, T.2 N., R.12 E., Wasco County, OR, Hydrologic Unit 17070105, on left bank, 0.1 mi downstream from West Fork Mosier Creek, 2.5 mi southeast of Mosier and at mile 3.0.

DRAINAGE AREA.--41.50 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 1963 to October 1981, June 2005 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 425 ft above NGVD of 1929, from topographic map. Prior to July 22, 1976, water-stage recorder at site 20 ft upstream at datum 3.57 ft higher. July 22, 1976 to Dec. 12, 1977, water-stage recorder at site 20 ft upstream at datum 1.57 ft higher.

REMARKS.--Records good except for period Jan. 16 to Apr. 18, which is fair and estimated daily discharges, which are poor. No regulation. Several small pumping diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--24 years (water years 1964-81, 2006-11), 28.5 ft<sup>3</sup>/s, 20,630 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,790 ft<sup>3</sup>/s Dec. 23, 1964, gage height, 8.9 ft, site and datum then in use, from rating curve extended above 1,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum discharge, 0.35 ft<sup>3</sup>/s July 25, 26, Aug. 6, 7, 1978, Aug. 1, 2005.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Dec 14	0830	157	4.29
Dec 29	0530	111	3.93
Jan 16	1945	*463	*5.75
Mar 11	0315	147	4.11

Minimum discharge, 0.83 ft<sup>3</sup>/s, Sept. 14, gage height, 1.92 ft.

## 14113200 MOSIER CREEK NEAR MOSIER, OR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.6	2.5	4.7	44	35	25	112	43	23	4.2	2.0	1.5
2	1.7	2.5	5.6	35	29	41	100	41	20	4.0	1.8	1.5
3	1.7	2.4	5.7	29	27	60	81	38	19	3.7	1.7	1.5
4	1.6	2.3	5.4	24	27	60	76	34	17	3.6	1.7	1.5
5	1.5	2.3	5.2	21	27	59	107	32	15	3.4	1.7	1.4
6	1.6	2.4	5.0	19	25	60	118	30	14	3.3	1.8	1.4
7	1.6	2.7	4.8	18	26	57	116	29	13	3.1	1.8	1.3
8	1.6	2.6	5.0	17	24	55	107	28	12	3.1	1.7	1.3
9	1.8	2.9	11	16	22	57	93	25	11	3.1	1.6	1.4
10	2.0	3.2	33	15	19	104	81	23	11	2.9	1.7	1.4
11	1.8	3.1	38	14	19	e140	72	22	9.9	2.9	1.6	1.3
12	1.8	2.8	76	15	18	119	63	20	9.3	3.0	1.6	1.3
13	1.8	2.8	106	36	18	103	e60	19	8.9	3.1	1.6	1.3
14	1.8	2.8	135	107	18	100	e55	19	8.3	3.0	1.7	1.2
15	1.6	2.7	105	166	19	110	e70	38	7.8	3.0	1.6	1.2
16	1.6	2.8	68	356	19	137	e90	36	7.5	3.1	1.7	1.4
17	1.7	3.0	50	361	19	122	e85	33	7.1	3.2	1.7	1.5
18	1.7	8.1	40	269	17	107	e80	31	6.9	3.2	1.6	1.7
19	1.7	5.7	33	198	16	94	71	27	6.6	3.7	1.6	1.7
20	1.7	4.5	28	154	14	91	64	24	6.3	3.4	1.6	1.7
21	1.7	4.1	23	126	14	99	56	22	5.9	3.1	1.5	1.6
22	1.8	4.5	21	108	15	102	50	20	5.6	2.8	1.5	1.5
23	1.8	4.5	18	91	15	96	46	18	5.4	2.7	1.5	1.4
24	3.2	4.1	16	81	14	89	43	17	5.2	2.6	1.5	1.4
25	3.5	3.8	16	71	12	83	49	17	4.9	2.7	1.5	1.4
26	3.0	3.5	16	62	e12	79	52	16	4.7	2.7	1.5	1.5
27	2.4	3.8	18	56	12	76	50	15	4.7	2.4	1.5	1.5
28	2.4	3.6	46	52	17	73	53	14	4.8	2.3	1.4	1.6
29	2.5	3.5	102	49	---	69	50	13	4.6	2.3	1.3	1.6
30	2.4	3.8	78	44	---	79	47	12	4.3	2.2	1.3	1.6
31	2.6	---	58	40	---	108	---	20	---	2.1	1.4	---
<b>Total</b>	61.2	103.3	1,176.4	2,694	549	2,654	2,197	776	283.7	93.9	49.7	43.6
<b>Mean</b>	1.97	3.44	37.9	86.9	19.6	85.6	73.2	25.0	9.46	3.03	1.60	1.45
<b>Max</b>	3.5	8.1	135	361	35	140	118	43	23	4.2	2.0	1.7
<b>Min</b>	1.5	2.3	4.7	14	12	25	43	12	4.3	2.1	1.3	1.2
<b>Ac-ft</b>	121	205	2,330	5,340	1,090	5,260	4,360	1,540	563	186	99	86

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	2.82	7.20	40.5	97.5	67.6	64.3	39.4	14.1	4.65	2.00	1.46	1.73
<b>Max</b>	3.68	29.0	169	240	129	144	95.1	33.8	9.46	3.74	2.62	2.64
(WY)	(1976)	(1974)	(1978)	(1974)	(1981)	(1972)	(1969)	(2008)	(2011)	(1974)	(1976)	(1972)
<b>Min</b>	1.72	3.40	3.69	3.66	3.82	5.39	4.74	3.06	1.73	0.95	0.84	1.13
(WY)	(2007)	(2006)	(1977)	(1977)	(1977)	(1977)	(1977)	(1973)	(1977)	(1978)	(2005)	(1974)

**14113200 MOSIER CREEK NEAR MOSIER, OR—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1964 - 2011</b>	
<b>Annual total</b>	5,826.62	10,681.8		
<b>Annual mean</b>	16.0	29.3	28.5	
<b>Highest annual mean</b>			52.9	1974
<b>Lowest annual mean</b>			3.02	1977
<b>Highest daily mean</b>	135	Dec 14	361	Jan 17
<b>Lowest daily mean</b>	0.96	Aug 16	1.2	Sep 14
<b>Annual seven-day minimum</b>	0.99	Aug 15	1.3	Sep 9
<b>Annual runoff (ac-ft)</b>	11,560	21,190	20,630	
<b>10 percent exceeds</b>	46	90	76	
<b>50 percent exceeds</b>	7.5	11	5.2	
<b>90 percent exceeds</b>	1.3	1.6	1.5	

