14200000 MOLALLA RIVER NEAR CANBY, OR

Willamette Basin
Molalla-Pudding Subbasin

LOCATION.--Lat 45°14′40″, long 122°41′10″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.9, T.4 S., R.1 E., Clackamas County, OR, Hydrologic Unit 17090009, on left bank, at upstream side of Goods Bridge, 1.5 mi south of Canby and at mile 6.01.

DRAINAGE AREA.--323 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1928 to September 1959, October 1963 to September 1978, October 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 94 ft above NGVD of 1929. Prior to Oct. 24, 1933, nonrecording gage and Oct. 24, 1933 to Sept. 26, 1955, water-stage recorder at present site at datum 11.00 ft higher. Sept. 27, 1955 to June 3, 1956, water-stage recorder at site 145 ft downstream at datum 10 ft higher. June 4, 1956 to Sept. 30, 1959, water-stage recorder at site 0.3 mi downstream at datum 8.02 ft higher. Oct. 1, 1963 to May 4, 1964, non-recording gage and May 5, 1964 to Sept. 30, 1978, Oct. 1, 2000, to Oct. 31, 2001, water-stage recorder at present site at datum 10 ft higher.

REMARKS.--No estimated daily discharges. Records fair. No regulation. Numerous small diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--59 years (water years 1929-59, 1964-78, 2001-13), 1,145 ft^3/s, 48.17 in/yr, 829,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,600 ft^3/s Dec. 22, 1964, gage height, 26.76 ft, present datum; minimum discharge, 20 ft^3/s Aug. 24, 1959.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 20	1200	*15,700	*20.46
Dec 5	0600	9,490	17.82

Minimum discharge, 42 ft^3/s, Oct. 7.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 14200000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/14200000.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	53	1,050	1,930	1,130	3,230	1,780	1,280	790	1,520	317	92	74
2	52	1,210	3,170	1,010	2,650	1,880	1,220	705	1,220	291	93	65
3	50	965	3,980	917	2,290	1,820	1,140	655	1,020	265	96	62
4	47	878	6,020	879	1,990	1,550	1,100	639	867	243	89	63
5	45	710	8,050	875	1,820	1,360	1,410	641	754	230	82	66
6	44	604	4,560	860	1,840	1,380	2,460	637	664	225	76	203
7	44	576	3,030	1,000	1,760	1,400	3,070	613	593	215	70	271
8	44	524	2,530	1,550	1,550	1,300	3,100	581	535	204	68	143
9	45	475	2,130	1,930	1,360	1,170	2,450	548	486	192	67	107
10	46	440	2,090	1,840	1,230	1,050	2,060	508	452	172	69	92
11	48	396	1,990	1,520	1,110	1,010	1,890	476	419	164	76	81
12	56	746	1,860	1,280	1,070	1,100	1,620	459	402	159	84	72
13	124	1,130	1,570	1,110	1,160	1,170	1,530	457	406	153	76	67
14	119	1,080	1,400	985	1,320	1,250	1,380	437	418	146	68	65
15	150	973	1,250	895	1,290	1,350	1,290	400	362	138	62	68
16	645	826	1,260	830	1,310	1,360	1,220	413	331	132	60	68
17	357	812	3,030	793	1,310	1,520	1,130	430	307	127	61	72
18	202	1,590	2,980	820	1,190	1,260	1,050	399	295	124	61	72
19	161	4,390	2,310	883	1,090	1,130	1,220	471	346	119	58	75
20	364	14,000	3,000	934	994	2,400	1,920	481	390	117	55	71
21	392	9,640	3,200	944	929	3,060	1,770	429	352	116	52	68
22	351	5,280	2,590	908	922	2,260	1,510	703	313	112	51	89
23	357	3,220	2,270	884	1,220	1,820	1,280	999	298	106	60	156
24	311	4,980	2,210	928	1,100	1,530	1,120	1,290	402	99	71	259
25	352	3,860	2,260	1,190	1,130	1,340	1,020	1,320	407	93	69	416
26	316	2,690	2,890	1,870	1,130	1,230	947	1,180	583	89	78	327
27	288	2,030	2,610	1,740	1,060	1,140	917	1,340	539	84	76	238
28	1,210	1,630	2,170	1,870	1,080	1,130	887	2,120	460	82	68	410
29	3,400	1,380	1,810	4,060	---	1,090	916	2,250	396	84	67	1,930
30	1,850	1,340	1,530	4,160	---	1,100	912	2,520	353	84	70	3,530
31	1,120	---	1,300	4,040	---	1,190	---	1,970	---	84	84	---
Total	12,643	69,425	82,980	44,635	40,135	45,130	44,819	26,861	15,890	4,766	2,209	9,280
Mean	408	2,314	2,677	1,440	1,433	1,456	1,494	866	530	154	71.3	309
Max	3,400	14,000	8,050	4,160	3,230	3,060	3,100	2,520	1,520	317	96	3,530
Min	44	396	1,250	793	922	1,010	887	399	295	82	51	62
Ac-ft	25,080	137,700	164,600	88,530	79,610	89,520	88,900	53,280	31,520	9,450	4,380	18,410
Cfsm	1.26	7.16	8.29	4.46	4.44	4.51	4.63	2.68	1.64	0.48	0.22	0.96
In.	1.46	8.00	9.56	5.14	4.62	5.20	5.16	3.09	1.83	0.55	0.25	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	400	1,451	2,243	2,427	1,799	1,737	1,509	1,111	644	199	100	136
Max	2,201	3,864	5,835	5,124	4,265	3,559	2,954	2,376	1,888	491	378	555
(WY)	(1948)	(1974)	(1965)	(1953)	(1949)	(1972)	(1937)	(1945)	(2010)	(1952)	(1968)	(1978)
Min	59.9	52.7	211	303	271	505	383	275	164	73.2	38.1	46.0
(WY)	(1953)	(1937)	(1977)	(1977)	(1977)	(1941)	(1941)	(1931)	(1940)	(2003)	(2003)	(2003)

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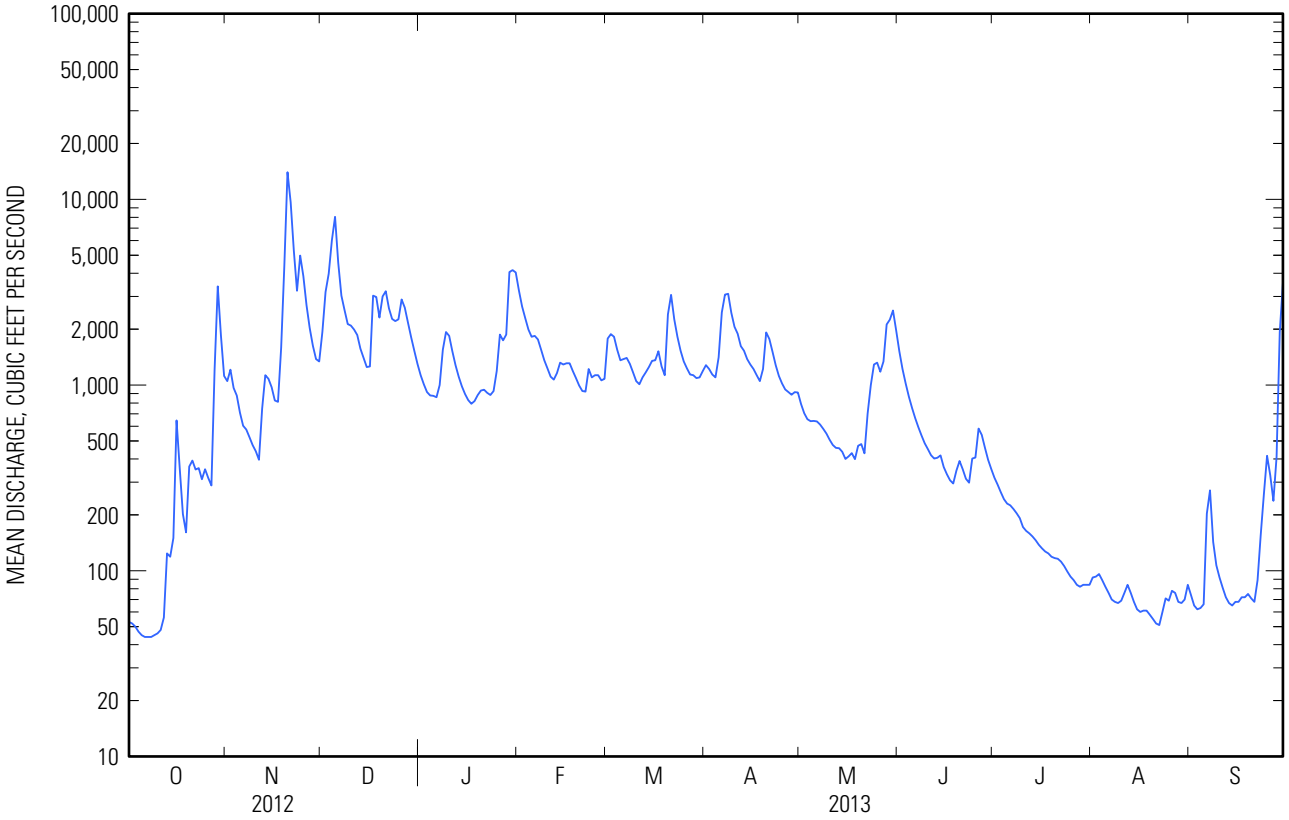
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1929 - 2013	
Annual total	568,545		398,773			
Annual mean	1,553		1,093		1,145	
Highest annual mean					1,822	1956
Lowest annual mean					511	2001
Highest daily mean	15,700	Jan 19	14,000	Nov 20	34,100	Dec 22, 1964
Lowest daily mean	44	Oct 6	44	Oct 6	22	Aug 27, 1959
Annual seven-day minimum	45	Oct 4	45	Oct 4	28	Aug 31, 2003
Annual runoff (ac-ft)	1,128,000		791,000		829,700	
Annual runoff (cfsm)	4.81		3.38		3.55	
Annual runoff (inches)	65.48		45.93		48.17	
10 percent exceeds	3,200		2,350		2,660	
50 percent exceeds	982		879		682	
90 percent exceeds	70		69		78