



Water-Data Report 2009

14138800 BLAZED ALDER CREEK NEAR RHODODENDRON, OR

Lower Columbia Basin
Lower Columbia-Sandy Subbasin

LOCATION.--Lat 45°27'10", long 121°53'25" referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.25, T.1 S., R.7 E., Clackamas County, OR, Hydrologic Unit 17080001, Mount Hood National Forest, on right bank, 600 ft downstream from the confluence of Bedrock and Hickman Creeks, 8.6 mi north of Rhododendron and at mile 3.78.

DRAINAGE AREA.--8.17 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,540 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--46 years (water years 1964-2009), 57.5 ft³/s, 95.70 in/yr, 41,690 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,610 ft³/s Dec. 22, 1964, gage height, 8.25 ft, from rating curve extended above 330 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 1.0 ft³/s Sept. 2-7, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 12	2300	*1,520	*6.05
Dec 28	1030	836	4.45
Jan 1	2230	1,340	5.66
Jan 8	0730	746	4.21

Minimum discharge, 1.9 ft³/s, Aug. 27, 28, Sept. 4, 5.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.8	7.9	27	612	27	43	81	61	86	8.7	3.0	2.0
2	3.8	19	88	691	25	56	210	117	77	8.3	3.0	2.0
3	6.2	20	68	193	24	58	133	161	71	7.9	3.0	2.0
4	28	55	52	104	26	49	81	152	64	7.5	2.8	2.0
5	35	44	42	222	35	47	66	273	59	7.2	2.8	2.5
6	34	209	34	425	44	38	62	374	57	7.0	2.8	5.7
7	79	192	51	527	43	31	79	289	47	6.9	3.4	6.2
8	46	104	63	587	38	e27	111	185	39	6.6	3.2	3.6
9	29	78	48	252	33	e24	117	135	37	6.2	2.8	2.9
10	22	94	40	131	29	e22	130	118	36	5.9	2.8	2.6
11	17	239	34	103	25	e20	101	138	32	5.7	2.6	2.5
12	15	633	37	113	22	18	128	149	29	5.9	3.9	2.4
13	13	670	39	110	20	17	253	128	28	7.8	3.3	2.5
14	12	191	30	87	19	18	137	306	26	6.6	3.0	2.5
15	11	94	e28	75	18	50	85	194	23	5.9	2.9	2.5
16	10	60	e30	73	16	48	67	155	21	5.4	2.8	2.4
17	9.7	47	e25	77	16	37	64	168	20	5.0	2.5	2.8
18	9.1	37	e24	67	15	37	73	181	18	4.8	2.4	2.5
19	8.5	30	e22	52	15	34	81	218	21	4.8	2.3	2.8
20	13	37	e21	42	14	47	134	185	21	4.6	2.3	2.9
21	15	42	e22	35	13	72	184	134	18	4.4	2.2	2.6
22	11	45	e26	30	14	60	181	123	18	4.3	2.2	2.4
23	10	35	e20	26	22	46	134	125	16	4.3	2.2	2.3
24	9.2	30	e18	24	97	53	91	119	14	3.9	2.1	2.3
25	8.6	27	e18	23	202	72	70	105	13	3.8	2.0	2.3
26	8.1	25	e17	31	133	71	60	96	12	3.8	2.0	2.3
27	7.8	22	e225	72	73	54	51	95	11	3.6	2.0	2.2
28	7.4	21	657	40	50	133	59	99	11	3.6	2.0	2.4
29	7.3	31	263	30	---	191	71	111	10	3.5	2.1	3.5
30	7.0	29	128	29	---	95	64	108	9.5	3.4	2.2	6.9
31	7.4	---	109	29	---	90	---	97	---	3.3	2.1	---
Total	503.9	3,167.9	2,306	4,912	1,108	1,658	3,158	4,899	944.5	170.6	80.7	86.5
Mean	16.3	106	74.4	158	39.6	53.5	105	158	31.5	5.50	2.60	2.88
Max	79	670	657	691	202	191	253	374	86	8.7	3.9	6.9
Min	3.8	7.9	17	23	13	17	51	61	9.5	3.3	2.0	2.0
Ac-ft	999	6,280	4,570	9,740	2,200	3,290	6,260	9,720	1,870	338	160	172
Cfs/m	1.99	12.9	9.10	19.4	4.84	6.55	12.9	19.3	3.85	0.67	0.32	0.35
In.	2.29	14.42	10.50	22.37	5.04	7.55	14.38	22.31	4.30	0.78	0.37	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	29.9	89.0	103	102	79.3	69.0	77.9	74.7	40.4	10.9	5.47	9.72
Max	82.5	218	288	207	221	167	150	201	178	37.5	27.6	35.5
(WY)	(1968)	(1996)	(1965)	(1974)	(1996)	(1972)	(1990)	(2008)	(2008)	(2008)	(1968)	(1977)
Min	1.57	12.5	22.6	19.2	17.5	17.7	33.1	18.1	4.74	3.38	1.53	1.67
(WY)	(1988)	(1994)	(1977)	(1985)	(1969)	(1992)	(1983)	(1992)	(1992)	(2003)	(2003)	(1991)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1964 - 2009	
Annual total	26,076.5		22,995.1			
Annual mean	71.2		63.0		57.5	
Highest annual mean					88.1	1974
Lowest annual mean					33.5	1977
Highest daily mean	670	Nov 13	691	Jan 2	1,810	Nov 25, 1999
Lowest daily mean	3.6	Sep 18	2.0	Aug 25	1.0	Sep 3, 2003
Annual seven-day minimum	3.8	Sep 14	2.1	Aug 23	1.0	Aug 31, 2003
Annual runoff (ac-ft)	51,720		45,610		41,690	
Annual runoff (cfsm)	8.72		7.71		7.04	
Annual runoff (inches)	118.73		104.70		95.70	
10 percent exceeds	191		150		132	
50 percent exceeds	35		29		31	
90 percent exceeds	6.1		2.6		3.3	

