

14138560 BULL RUN LAKE NEAR BRIGHTWOOD, OR

Lower Columbia Basin
Lower Columbia-Sandy Subbasin

LOCATION.--Lat 45°27'40", long 121°50'34" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.20, T.1 S., R.8 E., Multnomah County, OR, Hydrologic Unit 17080001, Mount Hood National Forest, in generator house on northwest side of Bull Run Lake, near outlet structure, 10.7 mi northeast of Brightwood and at mile 21.9.

DRAINAGE AREA.--3.5 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1992 to current year.

REVISED RECORDS.--WDR OR-95-1: 1993, 1994.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929, Portland Water Bureau bench mark.

COOPERATION.--Capacity table provided by Portland Water Bureau, extended above elevation 3,180 ft by U.S. Geological Survey, Oct. 1, 1996.

REMARKS.--Bull Run Lake was formed by natural processes, including a large landslide. A temporary log crib dam was constructed in 1917 to increase the capacity of the lake. In 1920, the log crib dam was reconstructed. A concrete dam and improved outlet valve were constructed in 1958. A lower outlet and tunnel was constructed in 1961. Portland Water Bureau releases water from the lake to augment streamflows during periods of low flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 48,340 acre-ft Feb. 9, 1996, elevation, 3,185.02 ft; minimum contents observed, 31,080 acre-ft Oct. 29, 1992, elevation, 3,143.97 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 46,530 acre-ft May 19, 20, elevation, 3,180.99 ft; minimum contents, 41,300 acre-ft Sept. 29, 30, elevation, 3,169.22 ft.

Capacity Table (elevation, in feet and contents, in acre-feet)

2,905	0	3,140	29,510
2,940	229	3,150	33,410
2,980	1,270	3,160	37,380
3,020	3,740	3,180	46,080
3,060	8,880	3,186	48,780
3,100	17,280		

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY OBSERVATION AT 2400 HOURS

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,172.51	3,170.49	3,173.00	3,175.11	3,178.04	---	3,176.14	3,177.35	3,180.84	3,178.92	3,175.32	3,171.90
2	3,172.41	3,170.47	3,173.08	3,175.95	3,177.94	---	3,176.30	3,177.51	3,180.84	3,178.81	3,175.19	3,171.79
3	3,172.37	3,170.43	3,173.06	3,176.13	3,177.85	---	3,176.30	3,177.59	3,180.83	3,178.69	3,175.07	3,171.67
4	3,172.45	3,170.52	3,173.00	3,176.26	3,177.76	---	3,176.26	3,177.77	3,180.87	3,178.57	3,174.95	3,171.58
5	3,172.46	3,170.47	3,172.93	3,176.59	3,177.67	---	3,176.23	3,178.13	3,180.88	3,178.46	3,174.82	3,171.50
6	3,172.50	3,170.80	3,172.87	3,177.12	3,177.60	---	3,176.18	3,178.62	3,180.86	3,178.34	3,174.71	3,171.56
7	3,172.54	3,170.91	3,172.91	3,177.89	3,177.53	---	3,176.17	3,178.97	3,180.80	3,178.22	3,174.60	3,171.46
8	3,172.49	3,170.99	3,172.89	3,178.73	3,177.44	---	3,176.20	3,179.12	3,180.73	3,178.09	3,174.49	3,171.37
9	3,172.43	3,171.05	3,172.85	3,178.92	3,177.41	---	3,176.30	3,179.21	3,180.64	3,177.98	3,174.37	3,171.26
10	3,172.35	3,171.07	3,172.79	3,179.00	3,177.37	---	3,176.34	3,179.29	3,180.54	3,177.87	3,174.25	3,171.17
11	3,172.26	3,171.47	3,172.73	3,179.09	3,177.28	---	3,176.35	3,179.43	3,180.45	3,177.74	3,174.15	3,171.03
12	3,172.17	3,172.69	3,172.80	3,179.13	3,177.21	---	3,176.54	3,179.63	3,180.40	3,177.67	3,174.10	3,170.93
13	3,172.12	3,173.43	3,172.81	3,179.16	3,177.13	---	3,176.79	3,179.79	3,180.35	3,177.58	3,173.99	3,170.83
14	3,172.01	3,173.59	3,172.74	3,179.17	3,177.04	---	3,176.88	3,180.22	3,180.29	3,177.46	3,173.90	3,170.73
15	3,171.91	3,173.62	3,172.67	3,179.15	3,176.96	---	3,176.89	3,180.38	3,180.24	3,177.34	3,173.78	3,170.62
16	3,171.83	3,173.64	3,172.55	3,179.14	3,176.88	---	3,176.87	3,180.49	3,180.18	3,177.23	3,173.67	3,170.54
17	3,171.77	3,173.60	3,172.64	3,179.07	3,176.77	---	3,176.87	3,180.63	3,180.12	3,177.11	3,173.56	3,170.44
18	3,171.65	3,173.56	3,172.70	3,179.04	---	---	3,176.86	3,180.78	3,180.04	3,176.99	3,173.45	3,170.33
19	3,171.58	3,173.53	3,172.70	3,178.97	---	---	3,176.87	3,180.99	3,180.04	3,176.87	3,173.34	3,170.27
20	3,171.56	3,173.58	3,172.72	3,178.90	---	---	3,176.95	3,180.95	3,179.98	3,176.74	3,173.23	3,170.17
21	3,171.48	3,173.53	3,172.75	3,178.82	---	3,176.00	3,177.10	3,180.88	3,179.91	3,176.63	3,173.12	3,170.04
22	3,171.38	3,173.50	3,172.70	3,178.75	---	3,176.01	3,177.25	3,180.83	3,179.84	3,176.51	3,173.00	3,169.92
23	3,171.29	3,173.47	3,172.63	3,178.67	---	3,175.98	3,177.34	3,180.81	3,179.75	3,176.39	3,172.88	3,169.80
24	3,171.22	3,173.35	3,172.65	3,178.60	---	3,175.97	3,177.36	3,180.79	3,179.66	3,176.27	3,172.77	3,169.71
25	3,171.14	3,173.32	3,172.64	3,178.51	---	3,176.00	3,177.39	3,180.75	3,179.57	3,176.15	3,172.65	3,169.60
26	3,171.01	3,173.25	3,172.63	3,178.43	---	3,175.94	3,177.38	3,180.71	3,179.46	3,176.04	3,172.55	3,169.49
27	3,170.89	3,173.20	3,172.96	3,178.44	---	3,175.89	3,177.36	3,180.70	3,179.36	3,175.93	3,172.45	3,169.40
28	3,170.80	3,173.12	3,173.63	3,178.38	e3,176.52	3,176.06	3,177.43	3,180.72	3,179.25	3,175.81	3,172.33	3,169.28
29	3,170.72	3,173.11	3,173.89	3,178.30	---	3,176.10	3,177.42	3,180.78	3,179.14	3,175.67	3,172.22	3,169.23
30	3,170.60	3,173.04	3,173.98	3,178.21	---	3,176.06	3,177.38	3,180.82	3,179.04	3,175.56	3,172.12	3,169.25
31	3,170.55	---	3,174.13	3,178.12	---	3,176.11	---	3,180.83	---	3,175.44	3,172.01	---
Max	3,172.54	3,173.64	3,174.13	3,179.17	---	---	3,177.43	3,180.99	3,180.88	3,178.92	3,175.32	3,171.90
Min	3,170.55	3,170.43	3,172.55	3,175.11	---	---	3,176.14	3,177.35	3,179.04	3,175.44	3,172.01	3,169.23
Contents, in acre-feet, at 2400, on last day of month	41,880	42,970	43,450	45,230	44,510	44,330	44,900	46,450	45,650	44,040	42,520	41,310
Change in contents, in acre-feet	-900	+1,090	+480	+1,780	-720	-180	+570	+1,550	-800	-1,610	-1,520	-1,210

	Calendar Year 2008	Water Year 2009
Max	3,180.87	---
Min	3,169.85	---
Change in contents, in acre-feet	+1,840	-1,470

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