14139000 BULL RUN RESERVOIR NUMBER ONE NEAR BULL RUN, OR

Lower Columbia Basin
Lower Columbia-Sandy Subbasin

LOCATION.--Lat 45°28′58″, long 122°04′56″ referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.16, T.1 S., R.6 E., Multnomah County, OR, Hydrologic Unit 17080001, Mount Hood National Forest, in control house of Bear Creek Dam on Bull Run River, 8.2 mi northeast of Bull Run and at mile 11.2.

DRAINAGE AREA.--74.60 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1937, published as Bull Run Reservoir. October 1937 to September 1967, published as Lake Ben Morrow. Prior to October 1975, monthend contents only.

REVISED RECORDS.--WSP 814: 1935(M). WSP 1935: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Portland Water Bureau). Prior to Oct. 9, 1930 and Oct. 1, 1962 to Dec. 31, 1975, nonrecording gage. Oct. 9, 1930 to Sept. 30, 1962, water-stage recorder at present site and datum.

COOPERATION.--Capacity table furnished by Portland Water Bureau. Elevations for Jan. 13-17, Apr. 26 are based on data provided by Portland General Electric Co.

REMARKS.--Lake is formed by concrete dam completed in March 1929. Storage began about Apr. 29, 1929; first filling occurred May 15, 1929. Capacity, 26,930 acre-ft at crest of spillway, elevation, 1,036.0 ft. Capacity increased October 1954 to 30,140 acre-ft at elevation 1,044.0 ft, by installation of three gates, 40 ft wide and 8 ft high. No dead storage. Water is used as municipal supply for city of Portland and for power generation by Portland General Electric Co.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 31,600 acre-ft Mar. 31, 1931, elevation, 1,047.40 ft; minimum contents observed, 169 acre-ft Jan. 10, 1960, elevation, 887.5 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 30,780 acre-ft June 5, 13, 22, July 10, 14; maximum elevation, 1,045.50 ft June 13, July 10, 14; minimum contents, 15,600 acre-ft Sept. 30, elevation, 1,002.11 ft.

Reservoir Elevation-Capacity Table

Elevation, in ft	Capacity, in acre-ft	Elevation, in ft	Capacity, in acre-ft
870	0	970	8,050
890	213	990	12,370
910	1,130	1,010	17,950
930	2,680	1,030	24,680
950	4,900	1,048	31,860

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 14139000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/14139000.2012.pdf

14139000 BULL RUN RESERVOIR NUMBER ONE NEAR BULL RUN, OR—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY OBSERVATION AT 2400 HOURS

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,014.31	1,020.75	1,035.21	1,035.53	1,035.83	1,034.82	1,035.69	1,035.68	1,044.95	1,044.93	1,043.17	1,027.13
2	1,010.64	1,022.21	1,035.05	1,034.57	1,035.45	1,034.96	1,035.66	1,035.54	1,045.02	1,044.81	1,043.05	1,026.55
3	1,008.23	1,023.86	1,034.83	1,034.82	1,034.99	1,035.33	1,035.49	1,038.43	1,044.87	1,044.99	1,042.97	1,025.30
4	1,006.29	1,024.57	1,034.64	1,034.77	1,035.06	1,034.69	1,034.95	1,041.19	1,044.91	1,045.09	1,042.85	1,024.91
5	1,005.50	1,024.63	1,034.50	1,035.47	1,035.12	1,035.43	1,035.05	1,041.72	1,044.85	1,045.02	1,042.92	1,023.91
6	1,005.67	1,024.58	1,034.41	1,035.17	1,035.03	1,035.03	1,034.43	1,040.72	1,044.83	1,045.11	1,043.35	1,023.10
7	1,006.23	1,024.68	1,034.49	1,035.25	1,034.94	1,034.98	1,034.43	1,039.48	1,045.15	1,045.12	1,043.20	1,022.44
8	1,006.47	1,024.45	1,034.76	1,035.25	1,034.97	1,035.03	1,034.54	1,039.24	1,044.97	1,045.12	1,043.04	1,021.88
9	1,006.31	1,024.41	1,034.65	1,035.03	1,035.11	1,035.24	1,034.99	1,039.19	1,045.30	1,045.38	1,042.66	1,021.31
10	1,006.60	1,024.19	1,034.54	1,035.03	1,035.35	1,035.71	1,034.88	1,038.70	1,045.03	1,045.36	1,042.31	1,020.79
11	1,009.42	1,024.44	1,034.79	1,034.76	1,034.99	1,035.30	1,034.64	1,038.96	1,044.42	1,045.28	1,042.00	1,020.27
12	1,011.45	1,024.57	1,034.75	1,033.99	1,035.09	1,034.70	1,034.81	1,039.53	1,045.10	1,045.28	1,041.38	1,019.82
13	1,012.43	1,026.49	1,034.66	1,033.79	1,034.75	1,034.61	1,034.85	1,040.25	1,045.13	1,045.31	1,040.80	1,019.53
14	1,013.11	1,028.42	1,034.75	1,034.55	1,035.01	1,034.83	1,034.88	1,040.87	1,044.92	1,045.28	1,040.16	1,018.22
15	1,013.66	1,030.86	1,035.01	1,034.66	1,034.97	1,038.68	1,034.82	1,041.54	1,044.87	1,045.27	1,039.53	1,017.28
16	1,013.76	1,031.26	1,034.64	1,034.71	1,034.76	1,037.16	1,035.91	1,041.74	1,045.02	1,045.22	1,038.68	1,016.39
17	1,013.96	1,035.13	1,034.60	1,035.23	1,035.33	1,035.50	1,035.81	1,041.65	1,044.93	1,045.16	1,037.46	1,015.76
18	1,012.40	1,035.27	1,035.03	1,036.29	1,034.84	1,034.97	1,035.83	1,042.04	1,044.97	1,044.88	1,037.40	1,014.05
19	1,011.11	1,034.27	1,035.13	1,041.77	1,034.86	1,034.56	1,036.10	1,042.28	1,044.80	1,044.81	1,036.96	1,012.82
20	1,011.14	1,034.43	1,035.02	1,038.82	1,035.99	1,035.22	1,036.64	1,042.44	1,045.00	1,044.40	1,035.54	1,011.76
21	1,010.02	1,035.03	1,034.97	1,037.65	1,039.96	1,034.92	1,035.82	1,042.87	1,044.96	1,044.50	1,034.73	1,010.77
22	1,009.53	1,038.20	1,034.88	1,035.82	1,039.39	1,035.05	1,035.83	1,043.74	1,044.54	1,044.33	1,034.14	1,009.79
23	1,009.33	1,037.00	1,034.44	1,035.42	1,036.20	1,035.00	1,035.96	1,045.37	1,044.74	1,044.28	1,033.43	1,008.94
24	1,008.92	1,036.04	1,034.71	1,039.03	1,035.85	1,035.07	1,035.86	1,045.13	1,044.93	1,044.28	1,033.82	1,008.30
25	1,008.30	1,035.35	1,034.71	1,038.00	1,035.61	1,035.12	1,035.59	1,044.56	1,045.04	1,044.18	1,032.22	1,006.78
26	1,007.04	1,035.64	1,034.89	1,036.96	1,034.68	1,035.47	1,035.59	1,044.85	1,045.20	1,044.14	1,031.28	1,006.10
27	1,006.25	1,035.84	1,035.59	1,035.50	1,034.28	1,035.21	1,035.34	1,044.85	1,044.88	1,044.19	1,030.74	1,005.05
28	1,006.02	1,035.37	1,042.16	1,034.94	1,034.50	1,035.41	1,035.04	1,044.91	1,044.96	1,044.13	1,030.01	1,004.08
29	1,006.61	1,034.69	1,039.20	1,035.92	1,034.79	1,035.84	1,035.04	1,044.88	1,044.97	1,044.03	1,029.25	1,003.28
30	1,012.20	1,035.08	1,039.10	1,036.85	---	1,039.67	1,036.05	1,044.92	1,045.02	1,043.75	1,028.37	1,002.16
31	1,018.43	---	1,035.98	1,035.74	---	1,036.74	---	1,044.89	---	1,043.48	1,027.67	---
Max	1,018.43	1,038.20	1,042.16	1,041.77	1,039.96	1,039.67	1,036.64	1,045.37	1,045.30	1,045.38	1,043.35	1,027.13
Min	1,005.50	1,020.75	1,034.41	1,033.79	1,034.28	1,034.56	1,034.43	1,035.54	1,044.42	1,043.48	1,027.67	1,002.16
Contents, in acre-feet, at 2400, on last day of month												
	20,650	26,580	26,920	26,830	26,470	27,220	26,950	30,520	30,580	29,920	23,840	15,620
Change in contents, in acre-feet												
	+180	+5,930	+340	-90	-360	+750	-270	+3,570	+60	-660	-6,080	-8,220

	Calendar Year 2011	Water Year 2012
Max		1,045.38
Min		1,002.16
Change in contents, in acre-feet	+320	-4,850