Water-Data Report 2011

# 12471000 MOSES LAKE AT MOSES LAKE, WA

Upper Columbia Basin
Lower Crab Subbasin

LOCATION.--Lat 47°06′11″, long 119°19′02″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.28, T.19 N., R.28 E., Grant County, WA, Hydrologic Unit 17020015, on east shore 35 ft north of Interstate 90, 1.7 mi upstream from outlet, at town of Moses Lake, and at mile 55.9.

DRAINAGE AREA.--3,080 $mi^2$, of which 665 $mi^2$ is noncontributing.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1909 to September 1914 and November 1936 to September 1945 (fragmentary), October 1945 to current year. Published as "at Neppel" 1912-14.

REVISED RECORDS.--WSP 1933: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929, adjustment of 1937 (Bureau of Reclamation datum). Prior to Apr. 3, 1910, nonrecording gage at site 0.6 mi northeast at different datum. Apr. 3, 1910, to Sept. 30, 1914, and Nov. 19, 1936, to Nov. 24, 1944, nonrecording gages at site 2.8 mi northeast at Parker Horn at various datums. Oct. 30, 1945, to Mar. 12, 1955, water-stage recorder at site near west shore on downstream side of bridge on U.S. Highway 10 at present datum.

REMARKS.--Elevation controlled between 1,041 ft and 1,047 ft by two outlet structures at south end of lake. Many small diversions for irrigation. U. S. Geological Survey satellite telemeter at station.

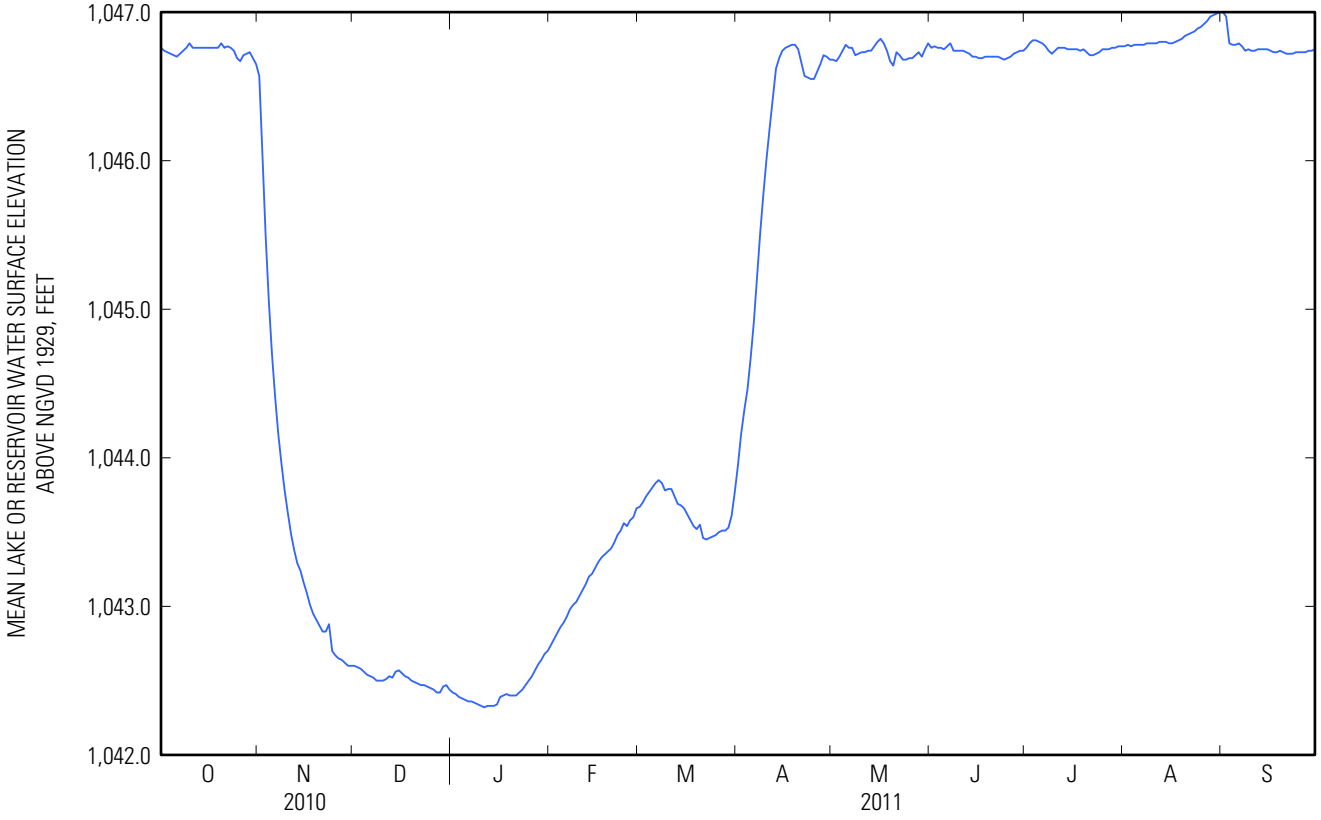
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,048.29 ft, Mar. 10, 1950; minimum observed, 1,038.17 ft, Aug. 27, 1910.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,047.01 ft, Aug. 31, Sept. 2; minimum elevation, 1,042.32 ft, Jan. 11, 12, 14.

**12471000 MOSES LAKE AT MOSES LAKE, WA—Continued**

**ELEVATION USBR DATUM**
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**
**DAILY MEAN VALUES**

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1,046.76 | 1,046.57 | 1,042.60 | 1,042.42 | 1,042.74 | 1,043.67 | 1,043.95 | 1,046.68 | 1,046.76 | 1,046.76 | 1,046.77 | 1,047.00 |
| 2 | 1,046.74 | 1,046.04 | 1,042.59 | 1,042.41 | 1,042.78 | 1,043.70 | 1,044.16 | 1,046.67 | 1,046.77 | 1,046.79 | 1,046.78 | 1,046.97 |
| 3 | 1,046.73 | 1,045.50 | 1,042.58 | 1,042.39 | 1,042.82 | 1,043.74 | 1,044.32 | 1,046.70 | 1,046.76 | 1,046.81 | 1,046.77 | 1,046.79 |
| 4 | 1,046.72 | 1,045.06 | 1,042.56 | 1,042.38 | 1,042.86 | 1,043.77 | 1,044.46 | 1,046.74 | 1,046.76 | 1,046.81 | 1,046.78 | 1,046.78 |
| 5 | 1,046.71 | 1,044.70 | 1,042.54 | 1,042.37 | 1,042.89 | 1,043.80 | 1,044.67 | 1,046.78 | 1,046.75 | 1,046.80 | 1,046.78 | 1,046.78 |
| 6 | 1,046.70 | 1,044.41 | 1,042.53 | 1,042.36 | 1,042.93 | 1,043.83 | 1,044.91 | 1,046.76 | 1,046.77 | 1,046.79 | 1,046.78 | 1,046.79 |
| 7 | 1,046.72 | 1,044.16 | 1,042.52 | 1,042.36 | 1,042.98 | 1,043.85 | 1,045.21 | 1,046.76 | 1,046.79 | 1,046.77 | 1,046.78 | 1,046.77 |
| 8 | 1,046.74 | 1,043.96 | 1,042.50 | 1,042.35 | 1,043.01 | 1,043.83 | 1,045.51 | 1,046.71 | 1,046.74 | 1,046.74 | 1,046.79 | 1,046.74 |
| 9 | 1,046.76 | 1,043.78 | 1,042.50 | 1,042.34 | 1,043.03 | 1,043.78 | 1,045.77 | 1,046.72 | 1,046.74 | 1,046.72 | 1,046.79 | 1,046.75 |
| 10 | 1,046.79 | 1,043.63 | 1,042.50 | 1,042.33 | 1,043.07 | 1,043.79 | 1,046.01 | 1,046.73 | 1,046.74 | 1,046.74 | 1,046.79 | 1,046.74 |
| 11 | 1,046.76 | 1,043.49 | 1,042.51 | 1,042.32 | 1,043.11 | 1,043.79 | 1,046.22 | 1,046.73 | 1,046.74 | 1,046.76 | 1,046.79 | 1,046.74 |
| 12 | 1,046.76 | 1,043.38 | 1,042.53 | 1,042.33 | 1,043.15 | 1,043.74 | 1,046.42 | 1,046.74 | 1,046.73 | 1,046.76 | 1,046.80 | 1,046.75 |
| 13 | 1,046.76 | 1,043.29 | 1,042.52 | 1,042.33 | 1,043.20 | 1,043.69 | 1,046.62 | 1,046.74 | 1,046.72 | 1,046.76 | 1,046.80 | 1,046.75 |
| 14 | 1,046.76 | 1,043.24 | 1,042.56 | 1,042.33 | 1,043.22 | 1,043.68 | 1,046.69 | 1,046.77 | 1,046.70 | 1,046.75 | 1,046.80 | 1,046.75 |
| 15 | 1,046.76 | 1,043.16 | 1,042.57 | 1,042.34 | 1,043.26 | 1,043.66 | 1,046.74 | 1,046.80 | 1,046.70 | 1,046.75 | 1,046.79 | 1,046.75 |
| 16 | 1,046.76 | 1,043.09 | 1,042.55 | 1,042.39 | 1,043.30 | 1,043.62 | 1,046.76 | 1,046.82 | 1,046.69 | 1,046.75 | 1,046.79 | 1,046.74 |
| 17 | 1,046.76 | 1,043.01 | 1,042.53 | 1,042.40 | 1,043.33 | 1,043.58 | 1,046.77 | 1,046.79 | 1,046.69 | 1,046.75 | 1,046.80 | 1,046.73 |
| 18 | 1,046.76 | 1,042.95 | 1,042.52 | 1,042.41 | 1,043.35 | 1,043.54 | 1,046.78 | 1,046.74 | 1,046.70 | 1,046.74 | 1,046.81 | 1,046.73 |
| 19 | 1,046.76 | 1,042.91 | 1,042.50 | 1,042.40 | 1,043.37 | 1,043.52 | 1,046.78 | 1,046.67 | 1,046.70 | 1,046.75 | 1,046.82 | 1,046.74 |
| 20 | 1,046.79 | 1,042.87 | 1,042.49 | 1,042.40 | 1,043.39 | 1,043.55 | 1,046.75 | 1,046.64 | 1,046.70 | 1,046.73 | 1,046.84 | 1,046.73 |
| 21 | 1,046.76 | 1,042.83 | 1,042.48 | 1,042.40 | 1,043.43 | 1,043.46 | 1,046.66 | 1,046.73 | 1,046.70 | 1,046.71 | 1,046.85 | 1,046.72 |
| 22 | 1,046.77 | 1,042.83 | 1,042.47 | 1,042.42 | 1,043.48 | 1,043.45 | 1,046.57 | 1,046.71 | 1,046.70 | 1,046.71 | 1,046.86 | 1,046.72 |
| 23 | 1,046.76 | 1,042.88 | 1,042.47 | 1,042.44 | 1,043.51 | 1,043.46 | 1,046.56 | 1,046.68 | 1,046.69 | 1,046.72 | 1,046.87 | 1,046.72 |
| 24 | 1,046.74 | 1,042.70 | 1,042.46 | 1,042.47 | 1,043.56 | 1,043.47 | 1,046.55 | 1,046.68 | 1,046.68 | 1,046.73 | 1,046.89 | 1,046.73 |
| 25 | 1,046.69 | 1,042.67 | 1,042.45 | 1,042.50 | 1,043.54 | 1,043.48 | 1,046.55 | 1,046.69 | 1,046.69 | 1,046.75 | 1,046.90 | 1,046.73 |
| 26 | 1,046.67 | 1,042.65 | 1,042.44 | 1,042.53 | 1,043.58 | 1,043.50 | 1,046.60 | 1,046.69 | 1,046.70 | 1,046.75 | 1,046.92 | 1,046.73 |
| 27 | 1,046.71 | 1,042.64 | 1,042.42 | 1,042.57 | 1,043.60 | 1,043.51 | 1,046.65 | 1,046.71 | 1,046.72 | 1,046.75 | 1,046.94 | 1,046.73 |
| 28 | 1,046.72 | 1,042.62 | 1,042.42 | 1,042.61 | 1,043.66 | 1,043.51 | 1,046.71 | 1,046.73 | 1,046.73 | 1,046.76 | 1,046.97 | 1,046.74 |
| 29 | 1,046.73 | 1,042.60 | 1,042.46 | 1,042.64 | --- | 1,043.53 | 1,046.70 | 1,046.70 | 1,046.74 | 1,046.76 | 1,046.98 | 1,046.74 |
| 30 | 1,046.69 | 1,042.60 | 1,042.47 | 1,042.68 | --- | 1,043.61 | 1,046.68 | 1,046.75 | 1,046.74 | 1,046.77 | 1,046.99 | 1,046.75 |
| 31 | 1,046.65 | --- | 1,042.44 | 1,042.70 | --- | 1,043.77 | --- | 1,046.79 | --- | 1,046.77 | 1,047.00 | --- |
| Mean | 1,046.74 | 1,043.54 | 1,042.51 | 1,042.43 | 1,043.22 | 1,043.64 | 1,046.06 | 1,046.73 | 1,046.72 | 1,046.76 | 1,046.84 | 1,046.76 |
| Max | 1,046.79 | 1,046.57 | 1,042.60 | 1,042.70 | 1,043.66 | 1,043.85 | 1,046.78 | 1,046.82 | 1,046.79 | 1,046.81 | 1,047.00 | 1,047.00 |
| Min | 1,046.65 | 1,042.60 | 1,042.42 | 1,042.32 | 1,042.74 | 1,043.45 | 1,043.95 | 1,046.64 | 1,046.68 | 1,046.71 | 1,046.77 | 1,046.72 |

| | Calendar Year 2010 | Water Year 2011 |
|---|---|---|
| Mean | 1,045.11 | 1,045.17 |
| Max | 1,046.81 | 1,047.00 |
| Min | 1,042.26 | 1,042.32 |

**12471000 MOSES LAKE AT MOSES LAKE, WA—Continued**