

Cumulative flood elevations for Devils Lake for 2009–18, based on USGS stochastic model runs made January 28, 2009

Year	Cumulative exceedance probability, in percent						
	90	50	20	10	5	2	1
2009	1,448.8	1,450.3	1,451.8	1,452.8	1,453.5	1,454.3	1,454.8
2010	1,449.0	1,451.1	1,453.2	1,454.5	1,455.8	1,457.2	1,458.4
2011	1,449.1	1,451.4	1,453.8	1,455.3	1,456.7	1,458.6	1,459.6
2012	1,449.1	1,451.6	1,454.1	1,455.8	1,457.3	1,459.2	1,460.3
2013	1,449.2	1,451.7	1,454.4	1,456.1	1,457.7	1,459.6	1,460.5
2014	1,449.2	1,451.8	1,454.6	1,456.3	1,458.0	1,459.8	1,460.6
2015	1,449.2	1,451.9	1,454.7	1,456.5	1,458.3	1,460.0	1,460.8
2016	1,449.3	1,452.0	1,454.9	1,456.7	1,458.5	1,460.2	1,460.9
2017	1,449.3	1,452.0	1,455.0	1,456.8	1,458.6	1,460.2	1,461.0
2018	1,449.3	1,452.1	1,455.1	1,457.0	1,458.8	1,460.3	1,461.1

Initial conditions for model runs:

Lake level on Oct 1, 2008 – 1,446.5

Estimated precipitation on the lake, Oct. 1, 2008 through Jan. 28, 2009 – 10.4 inches

Estimated evaporation from the lake, Oct 1, 2008 through Jan. 28, 2009 – 3.6 inches

Estimated inflow to the lake, Oct 1, 2008 through Jan. 28, 2009 – 10,000 acre-feet

Lake level on Jan. 28, 2009 – 1,447.12

Based on Devils Lake stochastic simulation model described in USGS Scientific Investigations Report 2008–5011, “Climate Simulation and Flood Risk Analysis for 2008–40 for Devils Lake, North Dakota.”

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