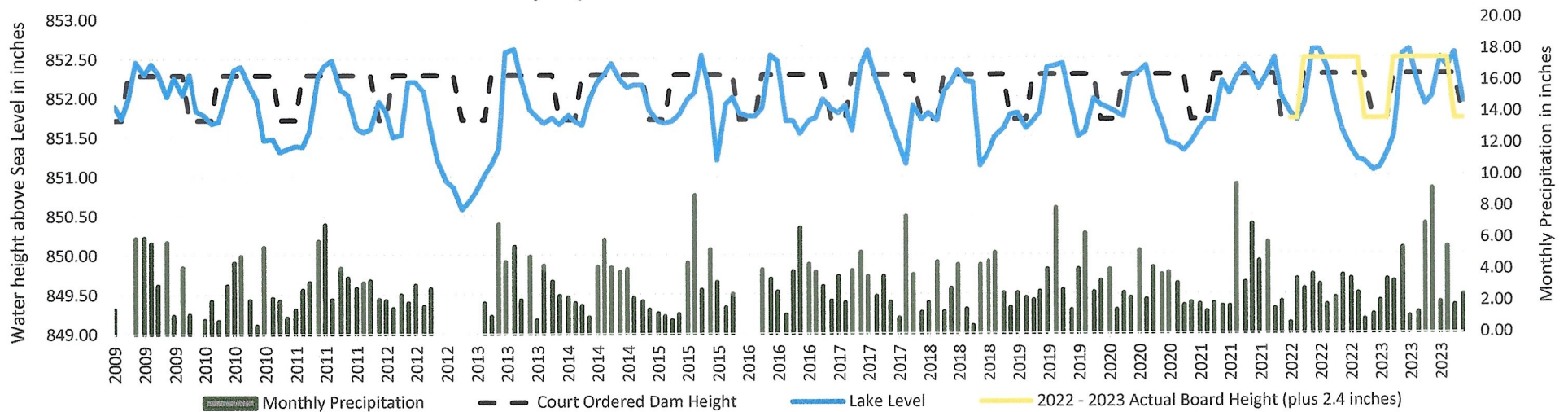


## 2009-2023 Yearly by Month Lake Level with Dam and Precipitation



Each year is shown as (3) four month groups. 12 columns (months) precipitation per year.

Lake Measurements are in feet and hundredths of feet. 0.01 feet = 0.12 inches or about an eighth inch. 0.10 feet = 1.2 inches.  
 $852.29' - 851.72' = .57' = 6.84$  inches (Height of the boards in the dam from March to November 14).

Since 2000; Highest Water Height: May 26, 2004 852.71'      Lowest Water Height: October 22 & 29, 2003 850.16'  
 Since 2009; Highest Water Height: June 5, 2013 852.62'      Lowest Water Height: November 7, 2012 850.58'

The Dam Height is 851.72'. An Ingham County Circuit Court Order of February 26, 2003 states that the previous court order of July 24, 1975 shall be changed from:

- |                        |         |     |                           |         |
|------------------------|---------|-----|---------------------------|---------|
| a) December - February | 851.72' | to: | a) November 15 - February | 851.72' |
| b) March - May         | 852.29' |     | b) March - November 14    | 852.29' |
| c) June - November     | 852.08' |     |                           |         |

Under the Court Order, there are no boards in the dam from November 15 to March 1. On March 1, the Drain Commission installs boards in the dam to raise the effective dam level by 6.84 inches to 852.29'. The almost 7 inches of retained spring water helps keep lake levels higher in the late summer. The higher water level promotes a healthier lake, healthier lake bottom and safer boating.

Note: Apparently the Ingham County Drain Commission erroneously installed a board that was .2' or 2.4 inches higher than the court ordered height. This board apparently was in place for all of the 2022 and 2023 spring/summer months. It was discovered Nov. 2023.

Lake Lansing relies mostly on precipitation for its water source. There probably are some smaller springs in the lake, but their contribution to the water volume is minimal. When precipitation occurs, say 2", obviously the lake receives and goes up 2". Lake Lansing is also fed by the surrounding watershed including the marshes. Certain areas like streets and paved areas often runoff directly into the lake through filters. The marshes vary in contribution depending on the water level in the marsh. In the Spring, the marshes are generally full and feeding the lake the winter accumulation. The volume from the wetlands is limited by the size of the various inlets and pipes. The maximum feed from the wetlands equals about four to five inches going over the dam. This limitation, plus the height of the dam, allows the wetlands to feed the lake usually into July. The changed level from rainfall in the lake is immediate, the increase from the marshes is over the following two or three weeks.

Data Sources: Water Measurements and Drain Heights; Ingham County Drain Commission  
 Precipitation Amounts; U. S. Department of Commerce, National Environmental Oceanic & Atmospheric Administration