The end of September and beginning of October was quite wet across the Great Lakes region. A storm system moving through southern portions of the basin last Friday brought over 2 inches of rain to locations near Chicago, northern Indiana, and southwest Michigan. By Monday, another system was impacting northern portions of the basin, where places near Duluth, MN received 2 to 4 inches of rain. Tuesday through Thursday of this week brought more widespread rainfall across central Wisconsin, Michigan, and New York, with most areas receiving 1 to 4 inches of rain. The additional rainfall this past week led to Green Bay, WI setting a new record for precipitation in 2019. The current total is just above 40 inches with 3 months still remaining in the year. Another round of showers is expected over the weekend as a frontal system begins to move through the region on Saturday. A transition to dryer conditions is expected for the work week, which will provide some relief to areas that have experienced riverine flooding as a result of the recent wet conditions.

LAKE LEVEL CONDITIONS

The forecasted water levels for October 4th are 1 to 2 inches higher than last month (September 4th) for Lakes Superior and Michigan-Huron, while levels for Lakes St. Clair, Erie, and Ontario are lower compared to last month by 1, 4, and 9 inches, respectively. When comparing the forecasted levels for October 4th to the highest monthly average level, all lakes are currently below their highest October average level by 1 to 7 inches. All of the lakes are expected to decline over the next month, despite slight rises in water level during this past week due to the recent rainfall events. The forecast indicates water levels to decline about 2 inches by November 4th on Lakes Superior and Michigan-Huron, while Lakes St. Clair and Erie are projected to decline 5 inches. Lake Ontario is forecasted to decline 7 inches by November 4th. See our Daily Levels web page for more water level information.

FORECASTED MONTHLY OUTFLOWS/CHANNEL CONDITIONS

Outflows from Lake Superior into the St. Marys River is forecasted to be above average for October. Lake Michigan-Huron’s outflow through the St. Clair River and Lake St. Clair’s outflow through the Detroit River, are also projected to be above average in October. Moreover, Lake Erie’s outflow through the Niagara River and Lake Ontario’s outflow through the St. Lawrence River are predicted to be above average for October.

ALERTS

Water levels shown are still-water surface elevations over the entire lake surface. Water levels at specific locations may differ substantially due to meteorological influences. Official records are based on monthly average water levels and not daily water levels. Users of the Great Lakes, connecting channels and St. Lawrence River should keep informed of current conditions before undertaking any activities that could be affected by changing water levels. Mariners should utilize navigation charts and refer to current water level readings. High water levels and potentially record high water levels are expected to persist for at least the next six months, so flood prone areas are expected to remain vulnerable.

### Forecasted Water Level for Oct 4, 2019 (feet)

<table>
<thead>
<tr>
<th></th>
<th>Superior</th>
<th>Mich-Huron</th>
<th>St. Clair</th>
<th>Erie</th>
<th>Ontario</th>
</tr>
</thead>
<tbody>
<tr>
<td>603.31</td>
<td>581.76</td>
<td>576.94</td>
<td>573.56</td>
<td>246.46</td>
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</table>

### Chart Datum (feet)

<table>
<thead>
<tr>
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<th>St. Clair</th>
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<th>Ontario</th>
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<tbody>
<tr>
<td>601.10</td>
<td>577.50</td>
<td>572.30</td>
<td>569.20</td>
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<table>
<thead>
<tr>
<th>Difference from chart datum (inches)</th>
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<th>Erie</th>
<th>Ontario</th>
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<tbody>
<tr>
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<td>+56</td>
<td>+52</td>
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<table>
<thead>
<tr>
<th>Difference from average water level for Sep 4, 2019 (inches*)</th>
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<th>Ontario</th>
</tr>
</thead>
<tbody>
<tr>
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<td>+2</td>
<td>-1</td>
<td>-4</td>
<td>-9</td>
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</table>

<table>
<thead>
<tr>
<th>Difference from average water level for Oct 4, 2018 (inches*)</th>
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<tr>
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<table>
<thead>
<tr>
<th>Difference from highest monthly average of record for Oct (inches)</th>
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<th>Erie</th>
<th>Ontario</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>-7</td>
<td>-4</td>
<td>-5</td>
<td>-4</td>
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### Year of highest recorded mean

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### Year of lowest recorded mean

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<tbody>
<tr>
<td>1925</td>
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### Projected net change in levels by Nov 4, 2019 (inches)

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<th>Mich-Huron</th>
<th>St. Clair</th>
<th>Erie</th>
<th>Ontario</th>
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<tbody>
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