# Recorded Flows (Past Seven Days):

| Date | Lake Ontario Outflow | Lake Erie Outflow | Net Total Supply* | Ottawa River Outflow |
|---|---|---|---|---|
| Nov 27 | 8,880 m³/s (313,600 cfs) | 7,930 m³/s (280,000 cfs) | 8,220 m³/s (290,300 cfs) | 1,670 m³/s (59,000 cfs) |
| Nov 26 | 8,860 m³/s (312,900 cfs) | 7,190 m³/s (253,900 cfs) | 8,220 m³/s (290,300 cfs) | 1,810 m³/s (63,900 cfs) |
| Nov 25 | 8,880 m³/s (313,600 cfs) | 7,200 m³/s (254,300 cfs) | 8,220 m³/s (290,300 cfs) | 1,780 m³/s (62,900 cfs) |
| Nov 24 | 8,860 m³/s (312,900 cfs) | 7,500 m³/s (264,900 cfs) | 8,220 m³/s (290,300 cfs) | 1,800 m³/s (63,600 cfs) |
| Nov 23 | 8,870 m³/s (313,200 cfs) | 7,240 m³/s (255,700 cfs) | 8,220 m³/s (290,300 cfs) | 1,580 m³/s (55,800 cfs) |
| Nov 22 | 8,920 m³/s (315,000 cfs) | 7,820 m³/s (276,200 cfs) | 8,220 m³/s (290,300 cfs) | 2,210 m³/s (78,000 cfs) |

# Great Lakes
# Water Levels (Feet)

## Lake Superior Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Duluth | Marquette | Pt Iroquois | Thunder Bay | Michi-picoten | Superior Lake Mean | US Slip | SW Pier |
|---|---|---|---|---|---|---|---|---|
| 01-NOV-2019 | 603.396 | 603.281 | 603.163 | 603.189 | 602.904 | 603.19 | 582.231 | 602.641 |
| 02-NOV-2019 | 603.245 | 603.291 | 603.337 | 603.100 | 603.028 | 603.20 | 582.507 | 602.877 |
| 03-NOV-2019 | 603.425 | 603.284 | 603.238 | 603.143 | 602.963 | 603.21 | 582.369 | 602.789 |
| 04-NOV-2019 | 603.278 | 603.301 | 603.215 | 603.097 | 602.910 | 603.16 | 582.513 | 602.697 |
| 05-NOV-2019 | 603.176 | 603.287 | 603.445 | 603.002 | 603.068 | 603.20 | 582.290 | 603.058 |
| 06-NOV-2019 | 603.153 | 603.268 | 603.412 | 602.969 | 603.068 | 603.17 | 582.359 | 602.995 |
| 07-NOV-2019 | 603.215 | 603.340 | 603.287 | 602.963 | 602.910 | 603.14 | 582.192 | 602.766 |
| 08-NOV-2019 | 603.340 | 603.228 | 603.107 | 603.061 | 602.828 | 603.11 | 582.300 | 602.572 |
| 09-NOV-2019 | 603.248 | 603.196 | 603.166 | 603.022 | 602.887 | 603.11 | 582.556 | 602.661 |
| 10-NOV-2019 | 603.189 | 603.301 | 603.314 | 602.881 | 602.884 | 603.11 | 582.280 | 602.808 |
| 11-NOV-2019 | 603.117 | 603.294 | 603.156 | 602.907 | 602.792 | 603.05 | 582.149 | 602.605 |
| 12-NOV-2019 | 603.215 | 603.212 | 603.130 | 602.959 | 602.785 | 603.06 | 582.083 | 602.579 |
| 13-NOV-2019 | 603.241 | 603.054 | 602.815 | 603.031 | 602.766 | 602.98 | 582.700 | 602.195 |
| 14-NOV-2019 | 602.972 | 603.120 | 603.166 | 602.913 | 602.933 | 603.02 | 582.411 | 602.697 |
| 15-NOV-2019 | 603.248 | 603.169 | 603.202 | 602.864 | 602.756 | 603.05 | 582.087 | 602.782 |
| 16-NOV-2019 | 603.373 | 602.956 | 602.697 | 603.054 | 602.575 | 602.93 | 582.461 | 602.096 |
| 17-NOV-2019 | 603.215 | 602.992 | 602.736 | 603.012 | 602.667 | 602.93 | 582.513 | 602.133 |
| 18-NOV-2019 | 603.209 | 603.097 | 602.900 | 602.940 | 602.677 | 602.97 | 582.352 | 602.326 |
| 19-NOV-2019 | 603.205 | 603.071 | 602.933 | 602.936 | 602.671 | 602.96 | 582.336 | 602.362 |
| 20-NOV-2019 | 603.258 | 603.031 | 602.894 | 602.933 | 602.661 | 602.95 | 582.464 | 602.306 |
| 21-NOV-2019 | 603.091 | 603.199 | 603.097 | 602.818 | 602.746 | 602.99 | 582.779 | 602.523 |
| 22-NOV-2019 | 602.982 | 603.156 | 603.146 | 602.920 | 602.841 | 603.01 | 582.165 | 602.651 |
| 23-NOV-2019 | 603.045 | 603.035 | 603.009 | 602.946 | 602.815 | 602.97 | 582.694 | 602.444 |
| 24-NOV-2019 | 603.077 | 603.041 | 603.035 | 602.894 | 602.789 | 602.97 | 582.543 | 602.454 |
| 25-NOV-2019 | 603.218 | 603.058 | 602.835 | 602.982 | 602.602 | 602.94 | 582.598 | 602.205 |
| 26-NOV-2019 | 603.343 | 603.120 | 602.992 | 602.874 | 602.684 | 603.00 | 582.552 | 602.421 |
| 27-NOV-2019 | 603.320 | 603.343 | 602.953 | 602.779 | 602.411 | 602.96 | 582.638 | 602.185 |
| Mean: | | | | | | 603.05 | | |

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# Great Lakes
# Water Levels (Feet)

## Lakes Michigan and Huron Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Harbor Beach | Ludington | Mackinaw City | Milwaukee | Tobermory | Thessalon | Michigan Huron Lake Mean |
|---|---|---|---|---|---|---|---|
| 01-NOV-2019 | 581.847 | 581.775 | 581.654 | 581.617 | 581.657 | 581.460 | 581.67 |
| 02-NOV-2019 | 581.690 | 581.811 | 581.631 | 581.683 | 581.670 | 581.591 | 581.68 |
| 03-NOV-2019 | 581.824 | 581.650 | 581.591 | 581.621 | 581.795 | 581.588 | 581.68 |
| 04-NOV-2019 | 581.588 | 581.883 | 581.650 | 581.729 | 581.670 | 581.568 | 581.68 |
| 05-NOV-2019 | 581.808 | 581.713 | 581.585 | 581.552 | 581.808 | 581.476 | 581.66 |
| 06-NOV-2019 | 581.867 | 581.627 | 581.539 | 581.578 | 581.804 | 581.562 | 581.66 |
| 07-NOV-2019 | 581.827 | 581.706 | 581.516 | 581.660 | 581.614 | 581.414 | 581.62 |
| 08-NOV-2019 | 581.739 | 581.801 | 581.568 | 581.703 | 581.532 | 581.404 | 581.62 |
| 09-NOV-2019 | 581.634 | 581.729 | 581.677 | 581.522 | 581.781 | 581.660 | 581.67 |
| 10-NOV-2019 | 581.745 | 581.726 | 581.434 | 581.729 | 581.621 | 581.404 | 581.61 |
| 11-NOV-2019 | 581.801 | 581.857 | 581.355 | 581.942 | 581.362 | 581.214 | 581.59 |
| 12-NOV-2019 | 581.726 | 581.795 | 581.437 | 581.722 | 581.391 | 581.198 | 581.55 |
| 13-NOV-2019 | 581.591 | 581.772 | 581.667 | 581.535 | 581.555 | 581.657 | 581.63 |
| 14-NOV-2019 | 581.512 | 581.752 | 581.562 | 581.529 | 581.591 | 581.434 | 581.56 |
| 15-NOV-2019 | 581.867 | 581.496 | 581.352 | 581.381 | 581.775 | 581.368 | 581.54 |
| 16-NOV-2019 | 581.555 | 581.673 | 581.476 | 581.719 | 581.355 | 581.444 | 581.54 |
| 17-NOV-2019 | 581.427 | 581.795 | 581.496 | 581.680 | 581.299 | 581.381 | 581.52 |
| 18-NOV-2019 | 581.493 | 581.722 | 581.434 | 581.680 | 581.342 | 581.319 | 581.50 |
| 19-NOV-2019 | 581.512 | 581.693 | 581.414 | 581.673 | 581.355 | 581.293 | 581.49 |
| 20-NOV-2019 | 581.555 | 581.663 | 581.427 | 581.611 | 581.384 | 581.322 | 581.49 |
| 21-NOV-2019 | 581.339 | 581.837 | 581.512 | 581.673 | 581.398 | 581.460 | 581.54 |
| 22-NOV-2019 | 581.759 | 581.519 | 581.322 | 581.473 | 581.604 | 581.165 | 581.47 |
| 23-NOV-2019 | 581.621 | 581.558 | 581.555 | 581.394 | 581.591 | 581.545 | 581.54 |
| 24-NOV-2019 | 581.552 | 581.640 | 581.460 | 581.529 | 581.486 | 581.375 | 581.51 |
| 25-NOV-2019 | 581.480 | 581.686 | 581.512 | 581.598 | 581.437 | 581.401 | 581.52 |
| 26-NOV-2019 | 581.545 | 581.693 | 581.368 | 581.693 | 581.424 | 581.329 | 581.51 |
| 27-NOV-2019 | 581.312 | 582.264 | 581.394 | 581.955 | 581.168 | 581.165 | 581.54 |
| Mean: | | | | | | | 581.58 |

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# Great Lakes
# Water Levels (Feet)

## Lake St. Clair Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | St Clair Shores | Belle River | St Clair Lake Mean |
|---|---|---|---|
| 01-NOV-2019 | 576.608 | 576.647 | 576.63 |
| 02-NOV-2019 | 576.673 | 576.621 | 576.64 |
| 03-NOV-2019 | 576.670 | 576.634 | 576.65 |
| 04-NOV-2019 | 576.686 | 576.575 | 576.64 |
| 05-NOV-2019 | 576.575 | 576.617 | 576.60 |
| 06-NOV-2019 | 576.614 | 576.585 | 576.60 |
| 07-NOV-2019 | 576.552 | 576.699 | 576.62 |
| 08-NOV-2019 | 576.549 | 576.601 | 576.58 |
| 09-NOV-2019 | 576.486 | 576.381 | 576.44 |
| 10-NOV-2019 | 576.490 | 576.473 | 576.48 |
| 11-NOV-2019 | 576.585 | 576.650 | 576.62 |
| 12-NOV-2019 | 576.506 | 576.667 | 576.59 |
| 13-NOV-2019 | 576.512 | 576.447 | 576.48 |
| 14-NOV-2019 | 576.440 | 576.401 | 576.42 |
| 15-NOV-2019 | 576.401 | 576.381 | 576.39 |
| 16-NOV-2019 | 576.572 | 576.545 | 576.56 |
| 17-NOV-2019 | 576.516 | 576.476 | 576.50 |
| 18-NOV-2019 | 576.470 | 576.447 | 576.46 |
| 19-NOV-2019 | 576.460 | 576.430 | 576.44 |
| 20-NOV-2019 | 576.437 | 576.421 | 576.43 |
| 21-NOV-2019 | 576.414 | 576.319 | 576.36 |
| 22-NOV-2019 | 576.309 | 576.407 | 576.36 |
| 23-NOV-2019 | 576.407 | 576.381 | 576.40 |
| 24-NOV-2019 | 576.348 | 576.312 | 576.33 |
| 25-NOV-2019 | 576.371 | 576.296 | 576.34 |
| 26-NOV-2019 | 576.385 | 576.329 | 576.36 |
| 27-NOV-2019 | 576.234 | 576.181 | 576.20 |
| Mean: | | | 576.49 |

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# Great Lakes
# Water Levels (Feet)

## Lake Erie Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Toledo | Cleveland | Port Stanley | Port Colborne | Erie Lake Mean |
|---|---|---|---|---|---|
| 01-NOV-2019 | 572.123 | 573.041 | 573.330 | 574.275 | 573.19 |
| 02-NOV-2019 | 572.598 | 573.028 | 573.340 | 573.648 | 573.16 |
| 03-NOV-2019 | 572.881 | 573.110 | 573.320 | 573.563 | 573.22 |
| 04-NOV-2019 | 572.776 | 572.871 | 573.484 | 573.596 | 573.18 |
| 05-NOV-2019 | 572.569 | 573.084 | 573.238 | 573.645 | 573.13 |
| 06-NOV-2019 | 573.130 | 573.094 | 573.235 | 573.294 | 573.19 |
| 07-NOV-2019 | 573.071 | 573.264 | 573.110 | 573.176 | 573.16 |
| 08-NOV-2019 | 572.953 | 573.189 | 573.156 | 573.163 | 573.12 |
| 09-NOV-2019 | 572.743 | 572.861 | 573.330 | 573.442 | 573.09 |
| 10-NOV-2019 | 572.920 | 572.982 | 573.146 | 573.330 | 573.10 |
| 11-NOV-2019 | 573.806 | 573.520 | 572.959 | 572.201 | 573.12 |
| 12-NOV-2019 | 572.759 | 573.291 | 573.061 | 573.133 | 573.06 |
| 13-NOV-2019 | 573.032 | 573.012 | 573.189 | 573.127 | 573.09 |
| 14-NOV-2019 | 572.625 | 572.887 | 573.173 | 573.474 | 573.04 |
| 15-NOV-2019 | 572.700 | 572.963 | 573.100 | 573.445 | 573.05 |
| 16-NOV-2019 | 573.970 | 573.281 | 572.979 | 572.320 | 573.14 |
| 17-NOV-2019 | 573.278 | 573.051 | 573.140 | 572.897 | 573.09 |
| 18-NOV-2019 | 573.271 | 573.094 | 573.117 | 572.851 | 573.08 |
| 19-NOV-2019 | 573.143 | 573.077 | 573.110 | 572.976 | 573.08 |
| 20-NOV-2019 | 573.094 | 573.058 | 573.100 | 573.054 | 573.08 |
| 21-NOV-2019 | 572.966 | 572.864 | 573.222 | 573.117 | 573.04 |
| 22-NOV-2019 | 572.785 | 572.989 | 572.986 | 573.422 | 573.04 |
| 23-NOV-2019 | 573.094 | 573.022 | 573.045 | 572.927 | 573.02 |
| 24-NOV-2019 | 572.365 | 572.805 | 573.173 | 573.494 | 572.96 |
| 25-NOV-2019 | 573.032 | 572.884 | 573.117 | 573.058 | 573.02 |
| 26-NOV-2019 | 573.110 | 572.936 | 573.068 | 573.009 | 573.03 |
| 27-NOV-2019 | 571.109 | 572.589 | 573.356 | 574.157 | 572.80 |
| Mean: | | | | | 573.08 |

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# Great Lakes
# Water Levels (Feet)

## Lake Ontario Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Oswego | Rochester | Toronto | Kingston | Port Weller | Cobourg | Ontario Lake Mean | Ontario Adj. Lake Mean |
|---|---|---|---|---|---|---|---|---|
| 01-NOV-2019 | 246.476 | 246.286 | 246.119 | 246.493 | 246.089 | 246.066 | 246.26 | 246.26 |
| 02-NOV-2019 | 246.260 | 246.263 | 246.381 | 246.270 | 246.371 | 246.171 | 246.28 | 246.28 |
| 03-NOV-2019 | 246.358 | 246.276 | 246.250 | 246.289 | 246.309 | 246.165 | 246.28 | 246.28 |
| 04-NOV-2019 | 246.194 | 246.220 | 246.385 | 246.319 | 246.401 | 246.253 | 246.29 | 246.29 |
| 05-NOV-2019 | 246.309 | 246.273 | 246.316 | 246.348 | 246.401 | 246.270 | 246.32 | 246.32 |
| 06-NOV-2019 | 246.322 | 246.270 | 246.302 | 246.260 | 246.329 | 246.207 | 246.28 | 246.28 |
| 07-NOV-2019 | 246.335 | 246.316 | 246.302 | 246.188 | 246.362 | 246.237 | 246.29 | 246.29 |
| 08-NOV-2019 | 246.348 | 246.316 | 246.322 | 246.191 | 246.352 | 246.237 | 246.30 | 246.30 |
| 09-NOV-2019 | 246.240 | 246.220 | 246.335 | 246.296 | 246.325 | 246.257 | 246.28 | 246.28 |
| 10-NOV-2019 | 246.250 | 246.214 | 246.299 | 246.276 | 246.276 | 246.188 | 246.25 | 246.25 |
| 11-NOV-2019 | 246.240 | 246.335 | 246.388 | 245.978 | 246.381 | 246.194 | 246.25 | 246.25 |
| 12-NOV-2019 | 246.391 | 246.312 | 246.283 | 246.132 | 246.266 | 246.217 | 246.27 | 246.27 |
| 13-NOV-2019 | 246.250 | 246.260 | 246.358 | 246.093 | 246.401 | 246.194 | 246.26 | 246.26 |
| 14-NOV-2019 | 246.188 | 246.171 | 246.316 | 246.286 | 246.316 | 246.211 | 246.25 | 246.25 |
| 15-NOV-2019 | 246.302 | 246.201 | 246.188 | 246.194 | 246.207 | 246.109 | 246.20 | 246.20 |
| 16-NOV-2019 | 246.129 | 246.188 | 246.365 | 245.942 | 246.375 | 246.129 | 246.19 | 246.19 |
| 17-NOV-2019 | 246.063 | 246.115 | 246.312 | 246.007 | 246.322 | 246.198 | 246.17 | 246.17 |
| 18-NOV-2019 | 246.076 | 246.125 | 246.289 | 245.994 | 246.299 | 246.165 | 246.16 | 246.16 |
| 19-NOV-2019 | 246.102 | 246.106 | 246.240 | 245.988 | 246.257 | 246.142 | 246.14 | 246.14 |
| 20-NOV-2019 | 246.112 | 246.102 | 246.204 | 245.997 | 246.201 | 246.083 | 246.12 | 246.12 |
| 21-NOV-2019 | 246.024 | 246.056 | 246.191 | 245.994 | 246.247 | 246.083 | 246.10 | 246.10 |
| 22-NOV-2019 | 246.257 | 246.112 | 246.109 | 246.132 | 246.076 | 245.974 | 246.11 | 246.11 |
| 23-NOV-2019 | 246.063 | 246.083 | 246.142 | 245.974 | 246.181 | 245.978 | 246.07 | 246.07 |
| 24-NOV-2019 | 246.096 | 246.083 | 246.106 | 246.011 | 246.102 | 245.991 | 246.06 | 246.06 |
| 25-NOV-2019 | 246.037 | 246.047 | 246.181 | 245.951 | 246.145 | 245.994 | 246.06 | 246.06 |
| 26-NOV-2019 | 246.007 | 246.020 | 246.135 | 245.984 | 246.129 | 246.033 | 246.05 | 246.05 |
| 27-NOV-2019 | 246.024 | 245.997 | 246.168 | 245.925 | 246.165 | 246.073 | 246.06 | 246.06 |
| Mean: | | | | | | | 246.20 | 246.20 |

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# Great Lakes
# Water Levels (Meters)

## Lake Superior Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Duluth | Marquette | Pt Iroquois | Thunder Bay | Michi-picoten | Superior Lake Mean | US Slip | SW Pier |
|---|---|---|---|---|---|---|---|---|
| 01-NOV-2019 | 183.915 | 183.880 | 183.844 | 183.852 | 183.765 | 183.85 | 177.464 | 183.685 |
| 02-NOV-2019 | 183.869 | 183.883 | 183.897 | 183.825 | 183.803 | 183.85 | 177.548 | 183.757 |
| 03-NOV-2019 | 183.924 | 183.881 | 183.867 | 183.838 | 183.783 | 183.86 | 177.506 | 183.730 |
| 04-NOV-2019 | 183.879 | 183.886 | 183.860 | 183.824 | 183.767 | 183.84 | 177.550 | 183.702 |
| 05-NOV-2019 | 183.848 | 183.882 | 183.930 | 183.795 | 183.815 | 183.86 | 177.482 | 183.812 |
| 06-NOV-2019 | 183.841 | 183.876 | 183.920 | 183.785 | 183.815 | 183.85 | 177.503 | 183.793 |
| 07-NOV-2019 | 183.860 | 183.898 | 183.882 | 183.783 | 183.767 | 183.84 | 177.452 | 183.723 |
| 08-NOV-2019 | 183.898 | 183.864 | 183.827 | 183.813 | 183.742 | 183.83 | 177.485 | 183.664 |
| 09-NOV-2019 | 183.870 | 183.854 | 183.845 | 183.801 | 183.760 | 183.82 | 177.563 | 183.691 |
| 10-NOV-2019 | 183.852 | 183.886 | 183.890 | 183.758 | 183.759 | 183.83 | 177.479 | 183.736 |
| 11-NOV-2019 | 183.830 | 183.884 | 183.842 | 183.766 | 183.731 | 183.81 | 177.439 | 183.674 |
| 12-NOV-2019 | 183.860 | 183.859 | 183.834 | 183.782 | 183.729 | 183.81 | 177.419 | 183.666 |
| 13-NOV-2019 | 183.868 | 183.811 | 183.738 | 183.804 | 183.723 | 183.79 | 177.607 | 183.549 |
| 14-NOV-2019 | 183.786 | 183.831 | 183.845 | 183.768 | 183.774 | 183.80 | 177.519 | 183.702 |
| 15-NOV-2019 | 183.870 | 183.846 | 183.856 | 183.753 | 183.720 | 183.81 | 177.420 | 183.728 |
| 16-NOV-2019 | 183.908 | 183.781 | 183.702 | 183.811 | 183.665 | 183.77 | 177.534 | 183.519 |
| 17-NOV-2019 | 183.860 | 183.792 | 183.714 | 183.798 | 183.693 | 183.77 | 177.550 | 183.530 |
| 18-NOV-2019 | 183.858 | 183.824 | 183.764 | 183.776 | 183.696 | 183.78 | 177.501 | 183.589 |
| 19-NOV-2019 | 183.857 | 183.816 | 183.774 | 183.775 | 183.694 | 183.78 | 177.496 | 183.600 |
| 20-NOV-2019 | 183.873 | 183.804 | 183.762 | 183.774 | 183.691 | 183.78 | 177.535 | 183.583 |
| 21-NOV-2019 | 183.822 | 183.855 | 183.824 | 183.739 | 183.717 | 183.79 | 177.631 | 183.649 |
| 22-NOV-2019 | 183.789 | 183.842 | 183.839 | 183.770 | 183.746 | 183.80 | 177.444 | 183.688 |
| 23-NOV-2019 | 183.808 | 183.805 | 183.797 | 183.778 | 183.738 | 183.79 | 177.605 | 183.625 |
| 24-NOV-2019 | 183.818 | 183.807 | 183.805 | 183.762 | 183.730 | 183.78 | 177.559 | 183.628 |
| 25-NOV-2019 | 183.861 | 183.812 | 183.744 | 183.789 | 183.673 | 183.77 | 177.576 | 183.552 |
| 26-NOV-2019 | 183.899 | 183.831 | 183.792 | 183.756 | 183.698 | 183.80 | 177.562 | 183.618 |
| 27-NOV-2019 | 183.892 | 183.899 | 183.780 | 183.727 | 183.615 | 183.78 | 177.588 | 183.546 |
| Mean: | | | | | | 183.81 | | |

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# Great Lakes
# Water Levels (Meters)

## Lakes Michigan and Huron Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Harbor Beach | Ludington | Mackinaw City | Milwaukee | Tobermory | Thessalon | Michigan Huron Lake Mean |
|---|---|---|---|---|---|---|---|
| 01-NOV-2019 | 177.347 | 177.325 | 177.288 | 177.277 | 177.289 | 177.229 | 177.29 |
| 02-NOV-2019 | 177.299 | 177.336 | 177.281 | 177.297 | 177.293 | 177.269 | 177.30 |
| 03-NOV-2019 | 177.340 | 177.287 | 177.269 | 177.278 | 177.331 | 177.268 | 177.30 |
| 04-NOV-2019 | 177.268 | 177.358 | 177.287 | 177.311 | 177.293 | 177.262 | 177.30 |
| 05-NOV-2019 | 177.335 | 177.306 | 177.267 | 177.257 | 177.335 | 177.234 | 177.29 |
| 06-NOV-2019 | 177.353 | 177.280 | 177.253 | 177.265 | 177.334 | 177.260 | 177.29 |
| 07-NOV-2019 | 177.341 | 177.304 | 177.246 | 177.290 | 177.276 | 177.215 | 177.28 |
| 08-NOV-2019 | 177.314 | 177.333 | 177.262 | 177.303 | 177.251 | 177.212 | 177.28 |
| 09-NOV-2019 | 177.282 | 177.311 | 177.295 | 177.248 | 177.327 | 177.290 | 177.29 |
| 10-NOV-2019 | 177.316 | 177.310 | 177.221 | 177.311 | 177.278 | 177.212 | 177.28 |
| 11-NOV-2019 | 177.333 | 177.350 | 177.197 | 177.376 | 177.199 | 177.154 | 177.27 |
| 12-NOV-2019 | 177.310 | 177.331 | 177.222 | 177.309 | 177.208 | 177.149 | 177.26 |
| 13-NOV-2019 | 177.269 | 177.324 | 177.292 | 177.252 | 177.258 | 177.289 | 177.28 |
| 14-NOV-2019 | 177.245 | 177.318 | 177.260 | 177.250 | 177.269 | 177.221 | 177.26 |
| 15-NOV-2019 | 177.353 | 177.240 | 177.196 | 177.205 | 177.325 | 177.201 | 177.25 |
| 16-NOV-2019 | 177.258 | 177.294 | 177.234 | 177.308 | 177.197 | 177.224 | 177.25 |
| 17-NOV-2019 | 177.219 | 177.331 | 177.240 | 177.296 | 177.180 | 177.205 | 177.24 |
| 18-NOV-2019 | 177.239 | 177.309 | 177.221 | 177.296 | 177.193 | 177.186 | 177.24 |
| 19-NOV-2019 | 177.245 | 177.300 | 177.215 | 177.294 | 177.197 | 177.178 | 177.24 |
| 20-NOV-2019 | 177.258 | 177.291 | 177.219 | 177.275 | 177.206 | 177.187 | 177.24 |
| 21-NOV-2019 | 177.192 | 177.344 | 177.245 | 177.294 | 177.210 | 177.229 | 177.25 |
| 22-NOV-2019 | 177.320 | 177.247 | 177.187 | 177.233 | 177.273 | 177.139 | 177.23 |
| 23-NOV-2019 | 177.278 | 177.259 | 177.258 | 177.209 | 177.269 | 177.255 | 177.26 |
| 24-NOV-2019 | 177.257 | 177.284 | 177.229 | 177.250 | 177.237 | 177.203 | 177.24 |
| 25-NOV-2019 | 177.235 | 177.298 | 177.245 | 177.271 | 177.222 | 177.211 | 177.25 |
| 26-NOV-2019 | 177.255 | 177.300 | 177.201 | 177.300 | 177.218 | 177.189 | 177.24 |
| 27-NOV-2019 | 177.184 | 177.474 | 177.209 | 177.380 | 177.140 | 177.139 | 177.25 |
| Mean: | | | | | | | 177.26 |

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Thursday November 28 2019 11:30 AM

# Great Lakes
# Water Levels (Meters)

## Lake St. Clair Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | St Clair Shores | Belle River | St Clair Lake Mean |
|---|---|---|---|
| 01-NOV-2019 | 175.750 | 175.762 | 175.76 |
| 02-NOV-2019 | 175.770 | 175.754 | 175.76 |
| 03-NOV-2019 | 175.769 | 175.758 | 175.76 |
| 04-NOV-2019 | 175.774 | 175.740 | 175.76 |
| 05-NOV-2019 | 175.740 | 175.753 | 175.74 |
| 06-NOV-2019 | 175.752 | 175.743 | 175.74 |
| 07-NOV-2019 | 175.733 | 175.778 | 175.76 |
| 08-NOV-2019 | 175.732 | 175.748 | 175.74 |
| 09-NOV-2019 | 175.713 | 175.681 | 175.70 |
| 10-NOV-2019 | 175.714 | 175.709 | 175.71 |
| 11-NOV-2019 | 175.743 | 175.763 | 175.75 |
| 12-NOV-2019 | 175.719 | 175.768 | 175.74 |
| 13-NOV-2019 | 175.721 | 175.701 | 175.71 |
| 14-NOV-2019 | 175.699 | 175.687 | 175.70 |
| 15-NOV-2019 | 175.687 | 175.681 | 175.68 |
| 16-NOV-2019 | 175.739 | 175.731 | 175.74 |
| 17-NOV-2019 | 175.722 | 175.710 | 175.72 |
| 18-NOV-2019 | 175.708 | 175.701 | 175.70 |
| 19-NOV-2019 | 175.705 | 175.696 | 175.70 |
| 20-NOV-2019 | 175.698 | 175.693 | 175.70 |
| 21-NOV-2019 | 175.691 | 175.662 | 175.68 |
| 22-NOV-2019 | 175.659 | 175.689 | 175.68 |
| 23-NOV-2019 | 175.689 | 175.681 | 175.68 |
| 24-NOV-2019 | 175.671 | 175.660 | 175.66 |
| 25-NOV-2019 | 175.678 | 175.655 | 175.67 |
| 26-NOV-2019 | 175.682 | 175.665 | 175.67 |
| 27-NOV-2019 | 175.636 | 175.620 | 175.63 |
| Mean: | | | 175.71 |

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# Great Lakes
# Water Levels (Meters)

## Lake Erie Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Toledo | Cleveland | Port Stanley | Port Colborne | Erie Lake Mean |
|---|---|---|---|---|---|
| 01-NOV-2019 | 174.383 | 174.663 | 174.751 | 175.039 | 174.71 |
| 02-NOV-2019 | 174.528 | 174.659 | 174.754 | 174.848 | 174.70 |
| 03-NOV-2019 | 174.614 | 174.684 | 174.748 | 174.822 | 174.72 |
| 04-NOV-2019 | 174.582 | 174.611 | 174.798 | 174.832 | 174.70 |
| 05-NOV-2019 | 174.519 | 174.676 | 174.723 | 174.847 | 174.69 |
| 06-NOV-2019 | 174.690 | 174.679 | 174.722 | 174.740 | 174.71 |
| 07-NOV-2019 | 174.672 | 174.731 | 174.684 | 174.704 | 174.70 |
| 08-NOV-2019 | 174.636 | 174.708 | 174.698 | 174.700 | 174.69 |
| 09-NOV-2019 | 174.572 | 174.608 | 174.751 | 174.785 | 174.68 |
| 10-NOV-2019 | 174.626 | 174.645 | 174.695 | 174.751 | 174.68 |
| 11-NOV-2019 | 174.896 | 174.809 | 174.638 | 174.407 | 174.69 |
| 12-NOV-2019 | 174.577 | 174.739 | 174.669 | 174.691 | 174.67 |
| 13-NOV-2019 | 174.660 | 174.654 | 174.708 | 174.689 | 174.68 |
| 14-NOV-2019 | 174.536 | 174.616 | 174.703 | 174.795 | 174.66 |
| 15-NOV-2019 | 174.559 | 174.639 | 174.681 | 174.786 | 174.67 |
| 16-NOV-2019 | 174.946 | 174.736 | 174.644 | 174.443 | 174.69 |
| 17-NOV-2019 | 174.735 | 174.666 | 174.693 | 174.619 | 174.68 |
| 18-NOV-2019 | 174.733 | 174.679 | 174.686 | 174.605 | 174.68 |
| 19-NOV-2019 | 174.694 | 174.674 | 174.684 | 174.643 | 174.67 |
| 20-NOV-2019 | 174.679 | 174.668 | 174.681 | 174.667 | 174.68 |
| 21-NOV-2019 | 174.640 | 174.609 | 174.718 | 174.686 | 174.66 |
| 22-NOV-2019 | 174.585 | 174.647 | 174.646 | 174.779 | 174.66 |
| 23-NOV-2019 | 174.679 | 174.657 | 174.664 | 174.628 | 174.66 |
| 24-NOV-2019 | 174.457 | 174.591 | 174.703 | 174.801 | 174.64 |
| 25-NOV-2019 | 174.660 | 174.615 | 174.686 | 174.668 | 174.66 |
| 26-NOV-2019 | 174.684 | 174.631 | 174.671 | 174.653 | 174.66 |
| 27-NOV-2019 | 174.074 | 174.525 | 174.759 | 175.003 | 174.59 |
| Mean: | | | | | 174.68 |

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# Great Lakes
# Water Levels (Meters)

## Lake Ontario Water Levels

The United States Army Corps of Engineers collects and disseminates this water level data in cooperation with NOAA and the Canadian Hydrographic Service. All data are provisional and are referenced to IGLD 1985. Blanks indicate data that are missing or not yet available.

| Date | Oswego | Rochester | Toronto | Kingston | Port Weller | Cobourg | Ontario Lake Mean | Ontario Adj. Lake Mean |
|---|---|---|---|---|---|---|---|---|
| 01-NOV-2019 | 75.126 | 75.068 | 75.017 | 75.131 | 75.008 | 75.001 | 75.06 | 75.06 |
| 02-NOV-2019 | 75.060 | 75.061 | 75.097 | 75.063 | 75.094 | 75.033 | 75.07 | 75.07 |
| 03-NOV-2019 | 75.090 | 75.065 | 75.057 | 75.069 | 75.075 | 75.031 | 75.06 | 75.06 |
| 04-NOV-2019 | 75.040 | 75.048 | 75.098 | 75.078 | 75.103 | 75.058 | 75.07 | 75.07 |
| 05-NOV-2019 | 75.075 | 75.064 | 75.077 | 75.087 | 75.103 | 75.063 | 75.08 | 75.08 |
| 06-NOV-2019 | 75.079 | 75.063 | 75.073 | 75.060 | 75.081 | 75.044 | 75.06 | 75.06 |
| 07-NOV-2019 | 75.083 | 75.077 | 75.073 | 75.038 | 75.091 | 75.053 | 75.07 | 75.07 |
| 08-NOV-2019 | 75.087 | 75.077 | 75.079 | 75.039 | 75.088 | 75.053 | 75.07 | 75.07 |
| 09-NOV-2019 | 75.054 | 75.048 | 75.083 | 75.071 | 75.080 | 75.059 | 75.06 | 75.06 |
| 10-NOV-2019 | 75.057 | 75.046 | 75.072 | 75.065 | 75.065 | 75.038 | 75.06 | 75.06 |
| 11-NOV-2019 | 75.054 | 75.083 | 75.099 | 74.974 | 75.097 | 75.040 | 75.06 | 75.06 |
| 12-NOV-2019 | 75.100 | 75.076 | 75.067 | 75.021 | 75.062 | 75.047 | 75.06 | 75.06 |
| 13-NOV-2019 | 75.057 | 75.060 | 75.090 | 75.009 | 75.103 | 75.040 | 75.06 | 75.06 |
| 14-NOV-2019 | 75.038 | 75.033 | 75.077 | 75.068 | 75.077 | 75.045 | 75.06 | 75.06 |
| 15-NOV-2019 | 75.073 | 75.042 | 75.038 | 75.040 | 75.044 | 75.014 | 75.04 | 75.04 |
| 16-NOV-2019 | 75.020 | 75.038 | 75.092 | 74.963 | 75.095 | 75.020 | 75.04 | 75.04 |
| 17-NOV-2019 | 75.000 | 75.016 | 75.076 | 74.983 | 75.079 | 75.041 | 75.03 | 75.03 |
| 18-NOV-2019 | 75.004 | 75.019 | 75.069 | 74.979 | 75.072 | 75.031 | 75.03 | 75.03 |
| 19-NOV-2019 | 75.012 | 75.013 | 75.054 | 74.977 | 75.059 | 75.024 | 75.02 | 75.02 |
| 20-NOV-2019 | 75.015 | 75.012 | 75.043 | 74.980 | 75.042 | 75.006 | 75.02 | 75.02 |
| 21-NOV-2019 | 74.988 | 74.998 | 75.039 | 74.979 | 75.056 | 75.006 | 75.01 | 75.01 |
| 22-NOV-2019 | 75.059 | 75.015 | 75.014 | 75.021 | 75.004 | 74.973 | 75.01 | 75.01 |
| 23-NOV-2019 | 75.000 | 75.006 | 75.024 | 74.973 | 75.036 | 74.974 | 75.00 | 75.00 |
| 24-NOV-2019 | 75.010 | 75.006 | 75.013 | 74.984 | 75.012 | 74.978 | 75.00 | 75.00 |
| 25-NOV-2019 | 74.992 | 74.995 | 75.036 | 74.966 | 75.025 | 74.979 | 75.00 | 75.00 |
| 26-NOV-2019 | 74.983 | 74.987 | 75.022 | 74.976 | 75.020 | 74.991 | 75.00 | 75.00 |
| 27-NOV-2019 | 74.988 | 74.980 | 75.032 | 74.958 | 75.031 | 75.003 | 75.00 | 75.00 |
| Mean: | | | | | | | 75.04 | 75.04 |

This report was generated at (Eastern):
Thursday November 28 2019 11:30 AM

# International Lake Ontario - St. Lawrence River Board
# Conseil international du lac Ontario et du fleuve Saint-Laurent

The average Lake Ontario outflow is expected to be 8,850 m³/s for the coming week. This flow rate is 200 m³/s above the normal safe navigation flow limit that applies at the current Lake Ontario elevation as defined by the regulation plan. Actual outflows will depend on conditions in the St. Lawrence River.

Pour la semaine qui vient, le débit moyen du lac Ontario devrait se situer à 8 850 mc/sec. Ce débit est de 200 mc/sec supérieur à la limite du débit régulier de navigation sécuritaire relative au niveau d'eau actuel du lac Ontario tel que défini par le plan de régularisation. Le débit réel pendant la semaine dépendra des conditions du fleuve Saint-Laurent.

| | Week Ending: Wed, 27 Nov 2019<br>Semaine se terminant: le merc. 27 nov 2019 | | Average this time of the year (c)<br>Moyenne à cette période de l'année (c) | |
|---|---|---|---|---|
| Lake Ontario / Lac Ontario | | | | |
| Actual end of week level:<br>Niveau observé à la fin de la semaine: | 75.00 | (246.06) | 74.53 | (244.52) |
| Computed Plan 2014 Level (a):<br>Niveau selon le plan 2014 (a): | 75.09 | (246.36) | | |
| Computed Preproject Level (b):<br>Niveau d'avant-projet (b): | 75.75 | (248.52) | | |
| Weekly Mean Outflow:<br>Débit moyen hebdomadaire: | 8880 | (313600) | 7270 | (256700) |
| Weekly Total Supply:<br>Apports totaux hebdomadaires: | 8220 | (290300) | 7390 | (261000) |
| Lake St. Lawrence at Long Sault Dam Weekly Mean Level:<br>Niveau moyen hebdomadaire du lac St-Laurent au barrage Long Sault: | 72.94 | (239.30) | 73.02 | (239.57) |
| Lake St. Louis at Pointe-Claire Weekly Mean Level:<br>Niveau moyen hebdomadaire du lac Saint-Louis à Pointe-Claire: | 21.68 | (71.13) | 21.22 | (69.62) |
| Montreal Harbour at Jetty #1 Weekly Mean Level:<br>Niveau moyen hebdomadaire au port de Montréal à la jetée #1: | 6.77 | (22.21) | 6.43 | (21.10) |

| | | | | |
|---|---|---|---|---|
| Ottawa River at Carillon Weekly Mean Outflow:<br>Débit moyen hebdomadaire de la rivière des Outaouais à Carillon: | 1780 | (62900) | 1930 | (68200) |
| Preliminary Lake Ontario Outflow for Week Ending Fri, 06 Dec 2019:<br>Débit préliminaire du lac Ontario pendant la semaine se terminant le ven. 6 déc 2019: | 8850 | (312500) | 7280 | (257100) |

Levels are in metres (feet) IGLD 1985. Supply and flows are in cubic metres (feet) per second $m^3/s$ ($ft^3/s$).

Les niveaux sont en mètres (pieds) par rapport au SRIGL 1985. Les apports et les débits sont en mètres (pieds) cubes par seconde.

(a) Levels that would have occurred with strict adherence to Plan 2014.

(a) Niveaux qui se seraient produits si on avait suivi le plan 2014 tel que prescrit.

(b) Levels that would have occurred had there been no Lake Ontario regulation.

(b) Niveaux qui se seraient produits s'il n'y avait pas de régularisation.

(c) For comparison purposes, Lake Ontario water level data since 1918 are used to be consistent with those published in the US and Canadian Great Lakes bulletins (http://www.waterlevels.gc.ca/C&A/bulletin-eng.html). Other averages are for the periods as follows: Lake Ontario outflows and levels at Long Sault and Pointe-Claire since 1960; Montreal since 1967; and Ottawa River outflow at Carillon since 1963.
(c) Pour fins de comparaison, on utilise les niveaux historiques du lac Ontario depuis 1918 pour être cohérent avec les bulletins mensuels publiés au Canada et aux États-Unis (http://www.waterlevels.gc.ca/C&A/bulletin-fra.html). Les autres moyennes sont calculées avec les données observées suivantes: débits du lac Ontario et niveaux à Long Sault et Pointe-Claire depuis 1960; Montréal depuis 1967; et les débits à Carillon depuis 1963.

The regulation plan for Lake Ontario specifies a weekly average outflow from Saturday through the following Friday, inclusive. To provide timely information for the coming week to the hydropower and Seaway operators, and our readers, we complete the regulation plan calculations each Thursday. Our calculations use the data available at the time, which are from the previous seven days (Thursday through Wednesday). Since the two time periods do not exactly coincide, their data are usually slightly different.
Le plan de régularisation pour le lac Ontario spécifie le débit moyen hebdomadaire pour la période du samedi au vendredi inclusivement. Afin de fournir des informations pertinentes aux centrales hydro-électriques, à la Voie maritime, et tous nos lecteurs, pour les conditions de la semaine à venir, nous procédons aux calculs du plan à chaque jeudi. Nos calculations sont effectuées en utilisant les données disponibles à ce moment, soit celles qui correspondent aux sept jours précédents (jeudi au mercredi). Puisque les deux séquences temporelles ne coïncident pas exactement, leurs données sont généralement différentes.

The table shows the actual flow for the week ending Wednesday. It also gives the preliminary flow for the coming week ending Friday. We emphasize that this is the preliminary flow, since unforeseen flow changes may occur after we have issued our notice. When these flow changes occur, they are reflected in the subsequent week's notice.

Le tableau indique le débit réel hebdomadaire se terminant le mercredi. On trouve aussi le débit préliminaire de la semaine suivante se terminant le vendredi. Nous insistons sur le fait que ce débit est préliminaire, étant donné que des changements imprévisibles peuvent avoir lieu après l'envoi du message. Lorsque de tels changements surviennent, ils sont incorporés dans l'évaluation de la semaine suivante.

Information in this report is compiled from provisional data provided by: Environment & Climate Change Canada, Fisheries and Oceans Canada, Hydro Quebec, Ontario Power Generation Inc, the New York Power Authority, and the U.S. National Ocean and Atmospheric Administration.
Ces renseignements sont fournis à l'aide des données préliminaires de: Environnement et Changement climatique Canada, Ministère des Pêches et Océans, Hydro Québec, Ontario Power Generation Inc, New York Power Authority et U.S. National Ocean and Atmospheric Administration.

Visit the Board's website at https://ijc.org/en/loslrb to find out more.
Visiter le site https://ijc.org/fr/clofsl pour obtenir d'autres informations.

See attached file: iloslrb_weekly_update_2019_11_27.doc
Se référer au fichier joint: iloslrb_weekly_update_2019_11_27.doc

To subscribe to the Lake Ontario - St. Lawrence River listserv (stlaw-L@prime.cciw.ca), send a blank email to stlaw-L-subscribe@cciw.ca without anything in the subject line or body of the email message. To unsubscribe, send a blank email to stlaw-L-unsubscribe@cciw.ca without anything in the subject line or body of the email message.
Pour vous abonner à la liste de diffusion du lac Ontario et du fleuve Saint-Laurent (stlaw-L@prime.cciw.ca), envoyez un courriel blanc à stlaw-L-subscribe@cciw.ca sans aucun sujet ni aucun autre texte au corps du courriel. Pour annuler votre abonnement à stlaw-L, envoyez un courriel blanc à stlaw-L-unsubscribe@cciw.ca sans aucun sujet ni aucun autre texte au corps du courriel.


Understanding IJC Plan 2014 - Lake Flow and Plan Limits

847 views • Nov 18, 2019

LIKE DISLIKE SHARE SAVE ...

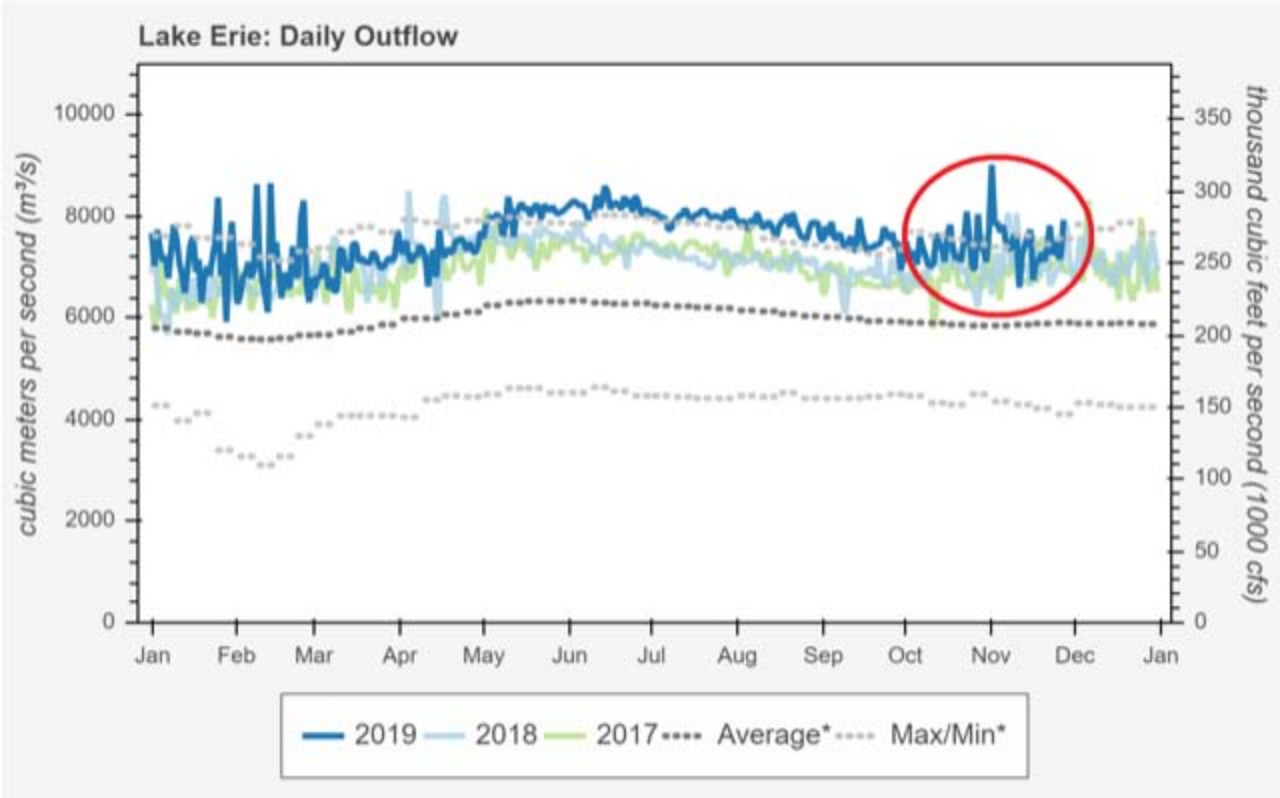
LOSLRA

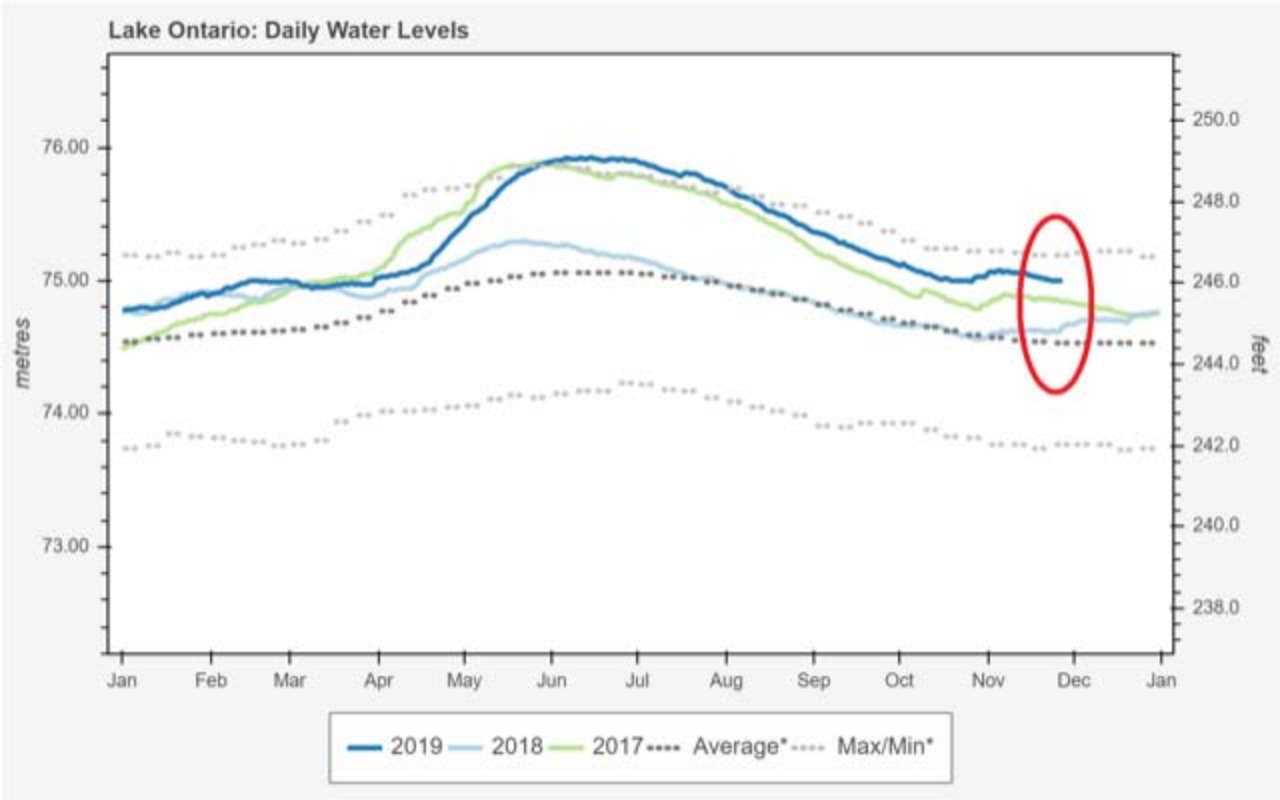
SUBSCRIBE

This video will explain how the IJC Plan 2014 controls the lake levels in Lake Ontario by managing the lake outflows at the Moses-Saunders Dam on the St. Lawrence River.

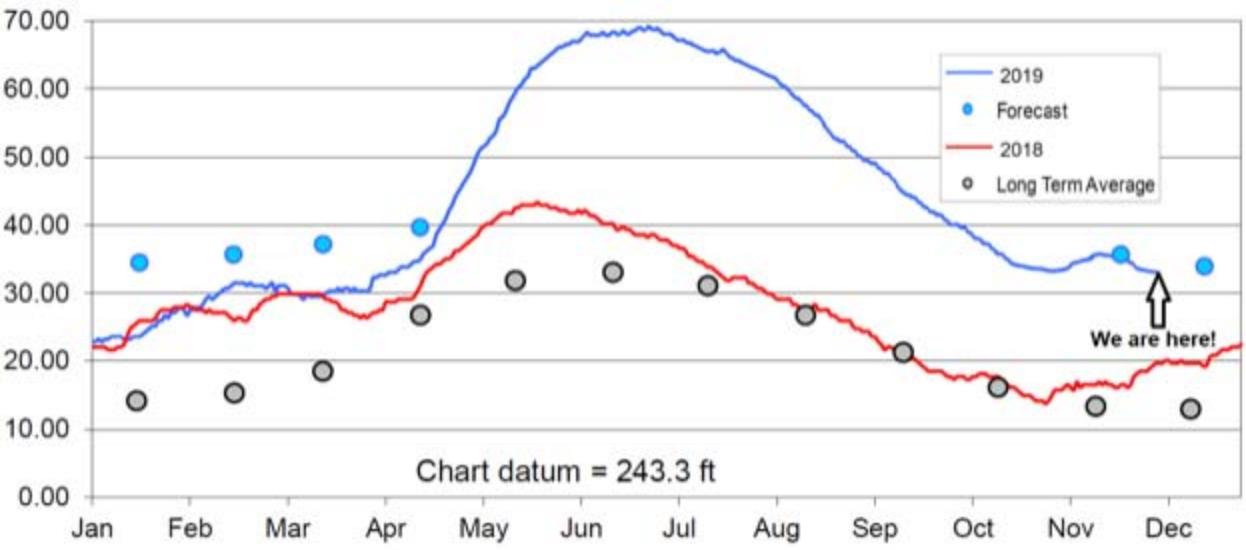
# Recorded Water Levels (Past Seven Days):

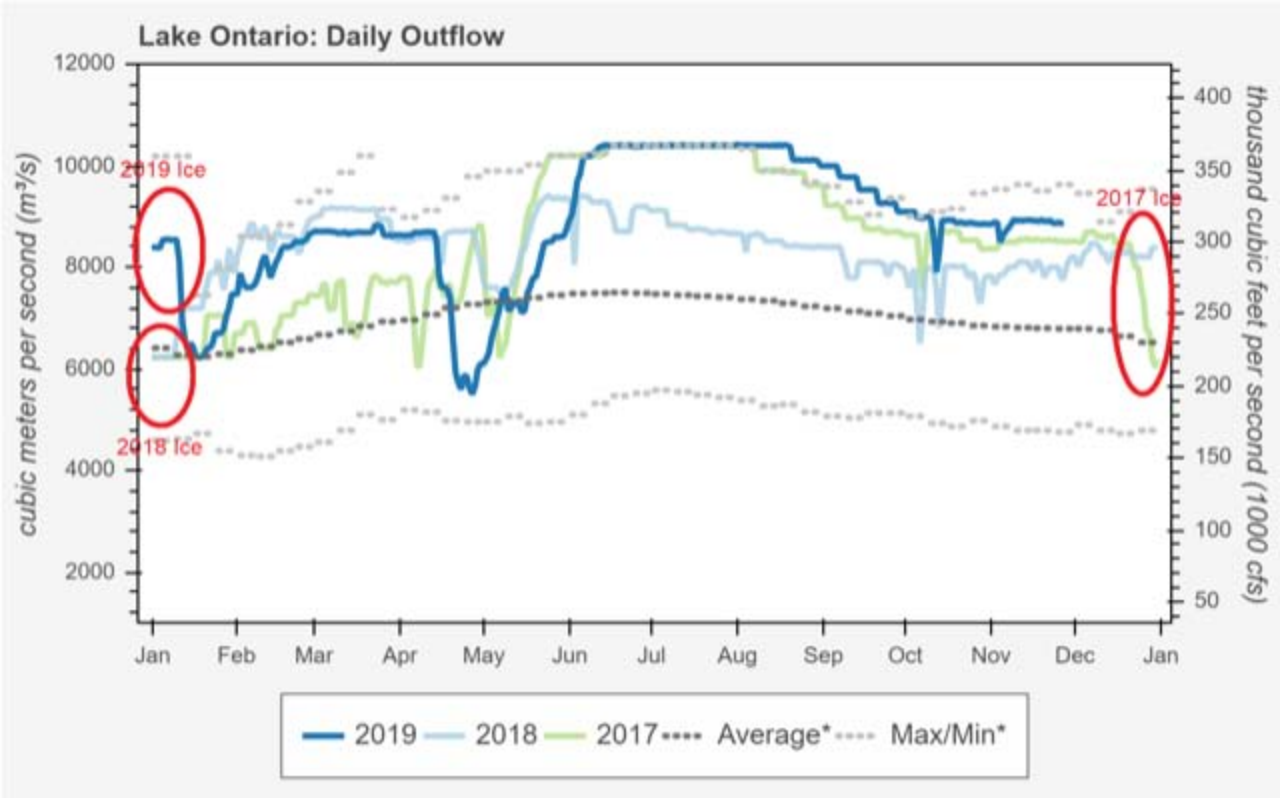
| Date | Lake Ontario | Lake St. Lawrence | Lake St. Louis | Montreal Harbour |
|---|---|---|---|---|
| Nov 27 | 75.00 m (246.06 ft) | 72.81 m (238.88 ft) | 21.66 m (71.06 ft) | 6.83 m (22.41 ft) |
| Nov 26 | 75.00 m (246.06 ft) | 72.96 m (239.37 ft) | 21.63 m (70.96 ft) | 6.77 m (22.21 ft) |
| Nov 25 | 75.00 m (246.06 ft) | 72.98 m (239.44 ft) | 21.65 m (71.03 ft) | 6.77 m (22.21 ft) |
| Nov 24 | 75.00 m (246.06 ft) | 72.97 m (239.40 ft) | 21.69 m (71.16 ft) | 6.78 m (22.24 ft) |
| Nov 23 | 75.00 m (246.06 ft) | 73.04 m (239.63 ft) | 21.71 m (71.23 ft) | 6.77 m (22.21 ft) |
| Nov 22 | 75.01 m (246.10 ft) | 73.00 m (239.50 ft) | 21.71 m (71.23 ft) | 6.71 m (22.01 ft) |
| Nov 21 | 75.01 m (246.10 ft) | 72.83 m (238.94 ft) | 21.69 m (71.16 ft) | 6.74 m (22.11 ft) |


Lake Erie: Daily Outflow
cubic meters per second (m³/s)
thousand cubic feet per second (1000 cfs)
10000
8000
6000
4000
2000
0
350
300
250
200
150
100
50
0
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
2019
2018
2017
Average*
Max/Min*


Lake Ontario: Daily Water Levels
76.00
75.00
74.00
73.00
metres
250.0
248.0
246.0
244.0
242.0
240.0
238.0
feet
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
2019
2018
2017
Average*
Max/Min*

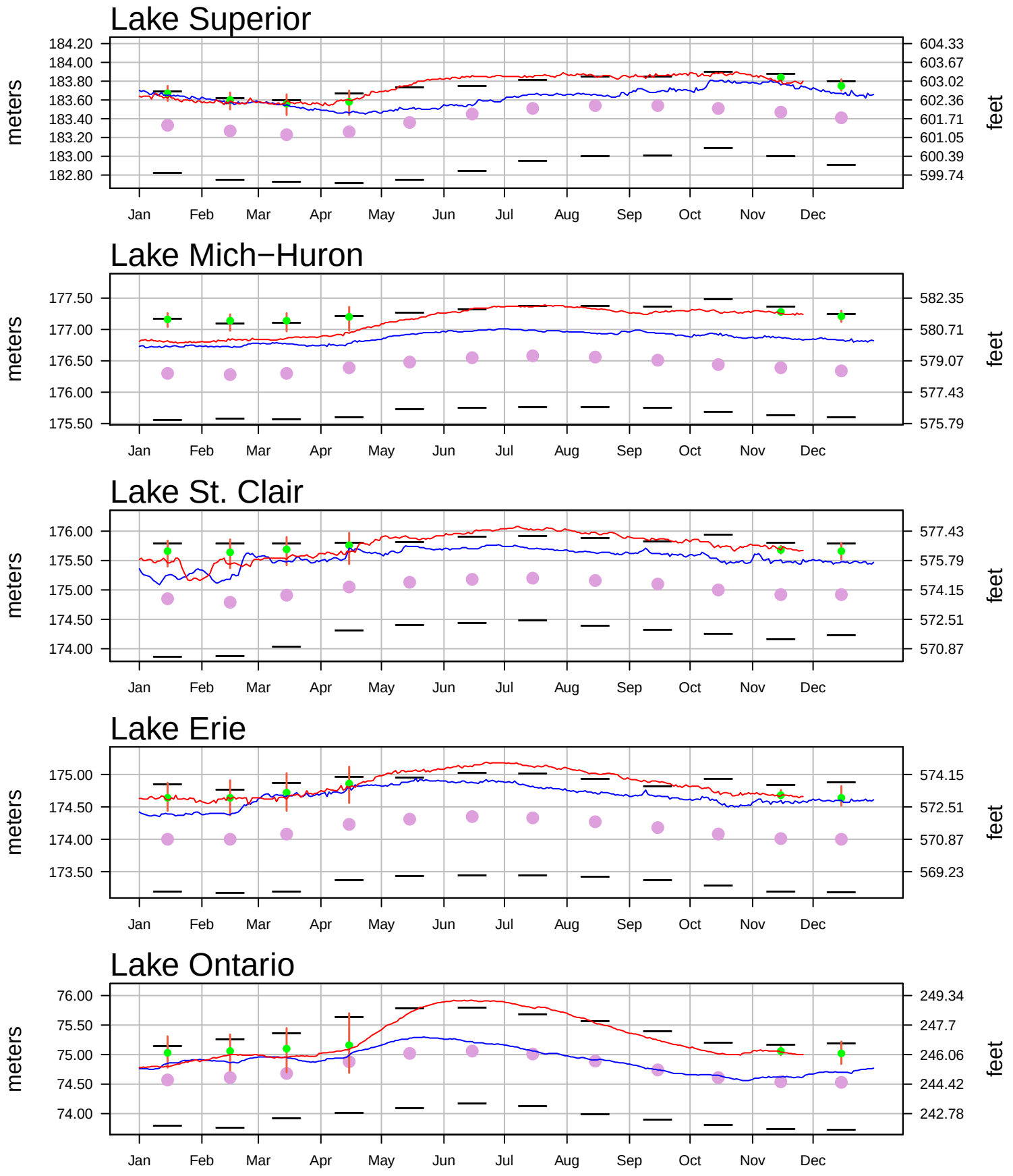
# Lake Ontario




Lake Ontario: Daily Outflow
cubic meters per second (m³/s)
thousand cubic feet per second (1000 cfs)
12000
10000
8000
6000
4000
2000
400
350
300
250
200
150
100
50
2019 Ice
2018 Ice
2017 Ice
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Oct
Nov
Dec
Jan
2019
2018
2017
Average*
Max/Min*

# Daily Great Lakes Water Levels

2019
2018
Coordinated Forecast
LTA Monthly Mean
Record High/Low Monthly Mean




Lakewide average levels are based on a network of water level gages located around the lakes.
LTA and record levels are computed from a period of record of 1918 to 2018
Elevations are referenced to the International Great Lakes Datum (1985).

Updated 2019−11−27

# ARMY CORPS OF ENGINEERS WEEKLY GREAT LAKES WATER LEVEL UPDATE

**Nov 29, 2019**

## WEATHER CONDITIONS

Pleasant late fall weather existed in the Great Lakes basin to start the week, but attention quickly shifted to a major storm system that began to impact the region late Tuesday. Thunderstorms and heavy rain occurred across the south, while blizzard conditions existed across the Upper Peninsula of Michigan. Several locations across the UP can expect well over a foot of snow by Thursday morning. The other big story with this system was the winds. Gusts to 60 mph are possible Wednesday, which will create 10 to 15 foot waves on Lake Michigan. Coastal flooding and shoreline erosion are a major concern. Quieter weather will arrive for Thanksgiving, but forecasts indicate another strong storm arriving this weekend.

## LAKE LEVEL CONDITIONS

The water levels of the Great Lakes continue to be well above average. In fact, the lakes are 18 to 33 inches above their monthly average November level. The Great Lakes' projected levels for November 29th are 2 to 3 inches below their levels of a month ago. However, all of the lakes are at least 3 inches above their levels of a year ago, with Lakes Michigan-Huron and Ontario being 16 and 13 inches, respectively, above their levels of a year ago. Looking forward a month, the levels of Lakes Superior and Michigan Huron are predicted to be 2 to 3 inches lower than their November 29th levels, while St. Clair, Erie, and Ontario are all expected to be an inch lower than their current projected level. See our Daily Levels web page for more water level information.

## FORECASTED MONTHLY OUTFLOWS/CHANNEL CONDITIONS

Outflows from Lake Superior into the St. Mary's River and Lake Michigan-Huron's outflow into the St. Clair River are predicted to be above average for November. Lake St. Clair's outflow through the Detroit River and Lake Erie's outflow through the Niagara River are also forecasted to be above average in November. In addition, Lake Ontario's outflow through the St. Lawrence River is projected to be above average for November.

## 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.

| | SUPERIOR | MICH-HURON | ST. CLAIR | ERIE | ONTARIO |
|---|---|---|---|---|---|
| **Forecasted Water Level for Nov 29, 2019 (feet)** | 602.99 | 581.50 | 576.35 | 573.03 | 246.03 |
| **Chart Datum (feet)** | 601.10 | 577.50 | 572.30 | 569.20 | 243.30 |
| **Difference from chart datum (inches)** | +23 | +48 | +49 | +46 | +33 |
| **Difference from average water level for Oct 29, 2019 (inches*)** | -3 | -2 | -3 | -2 | -2 |
| **Difference from average water level for Nov 29, 2018 (inches*)** | +3 | +16 | +7 | +3 | +13 |
| **Difference from long-term monthly average of Nov (inches)** | +13 | +33 | +30 | +26 | +18 |
| **Difference from highest monthly average of record for Nov (inches)** | -4 | -6 | -6 | -7 | -7 |
| **Year of highest recorded monthly mean** | 1985 | 1986 | 1986 | 1986 | 1945 |
| **Difference from lowest monthly average of record for Nov (inches)** | +31 | +63 | +59 | +57 | +49 |
| **Year of lowest recorded monthly mean** | 1925 | 1964 | 1934 | 1934 | 1934 |
| **Projected net change in levels by Dec 29, 2019 (inches)** | -3 | -2 | -1 | -1 | -1 |

ALL DATA SHOWN IN THIS SUMMARY ARE REFERENCED TO IGLD 1985
*VALUES FOR SPECIFIC DAY ARE BASED ON 3-DAY DAILY AVERAGE AROUND SPECIFIED DATE
LONG TERM AVERAGE PERIOD OF RECORD, 1918-2018

| FORECASTED INFORMATION PROVIDED | RECORDED DATA (1918 – present) | FOR MORE INFORMATION VISIT |
|---|---|---|
| Department of the Army<br>Detroit District, Corps of Engineers<br>Detroit District Home<br>1-888-694-8313 ext. 1 | provided by<br>NOAA Center for Operational Oceanic Products and Services | Detroit District Great Lakes Homepage<br>International Joint Commission<br>Great Lakes Information Network |