

FLOOD REPORT FOR MANITOBA

April 20, 2020

- Flood Warning*:** - **Red River, from Emerson to the Red River Floodway Inlet Control Structure**
- High Water Advisory*:** - **Red River, from Lockport to Netley Creek**
- Wind Effect and Ice Pile up Warning:** - **On the south shores of Lake Winnipeg, Lake Manitoba, Lake Winnipegosis, and Dauphin Lake**

Summary

- All flow and water level information is based on data available at 7:00 am. Morning Conditions reports, with current water level data, are available on the department's website, and flood sheets with updated forecast information will be posted at https://gov.mb.ca/mit/floodinfo/#forecasts_reports.
- Wind speeds are forecasted to gust NW up to 60 km/hr this afternoon and evening (April 20th, 1:00 pm to 10:00 pm). This creates a moderate to high risk of ice pile up on the south shores of Lake Winnipeg (including areas near Gimli and Victoria beach), Lake Manitoba, Lake Winnipegosis, and Dauphin Lake. A wind effect alert map for these areas is attached to the report.
- A flood warning is in place for the Red River from Emerson to the Red River Floodway inlet, just south of the City of Winnipeg as the Red River is spilling its banks in most of this area.
- A high water advisory is in place for the Red River from Lockport to Netley Creek as water levels remain high and will continue to rise as the peak moves down the river.
- The Red River at Emerson, Letellier and St. Jean has peaked. Further downstream, from Morris to the Red River Floodway inlet control structure, peak levels are expected within the next 48 hours. With the operation of the Floodway, the Red River level in Winnipeg at James Avenue is expected to peak between 19.0 feet and 19.3 feet between April 21 and April 23.
- A number of roads are impacted by high water levels. For detours and a complete list of road closures please call 511 or visit www.manitoba511.ca.
 - PR 217, from St. Jean Baptiste to PR 200, is closed.
 - PR 246, 1 km north of the PR 217 junction, is closed.
 - The northernmost extent of PR 320, 6 km north of PTH 4 is closed.
- Any questions or concerns about flood mitigation should be directed first to the municipal authority. Questions about forecasts, water levels, provincial waterways, or provincial

water control infrastructure can be directed to 204-945-1165 or by email to floodinfo@gov.mb.ca.

Weather

- There is no significant precipitation in the forecast for the coming few days.
- Temperature is forecasted to remain above freezing in northern Manitoba regions, including the Saskatchewan River and Carrot River basins. Above freezing temperatures have initiated the snow melt within these basins and further snow melt is expected to occur in the coming few days.

Red River Basin

- The Red River at Emerson, Letellier and St. Jean has peaked. Further downstream, from Morris to the Red River Floodway inlet control structure, peak levels are expected within the next 48 hours. Conditions will continue to be monitored and the latest forecast information for the Red River is available online at https://gov.mb.ca/mit/floodinfo/#forecasts_reports.

	Today's level	Forecasted peak	
		Level	Date
Emerson	788.9 feet (240.45 m)	Peaked at 788.9 feet (240.47 m)	April 18
Letellier	783.9 feet (238.93 m)	Peaked at 783.9 feet (238.94 m)	April 19
St. Jean Baptiste	779.0 feet (237.41 m)	Peaked at 779.0 feet (237.45 m)	April 20
Morris – PTH 23	775.2 feet (236.28 m)	775.1 - 775.4 feet (236.25 - 236.35 m)	Will peak in the next 48 hours
Ste. Agathe	766.5 feet (233.63 m)	766.6 - 766.9 feet (233.65 - 233.75 m)	Will peak in the next 48 hours
St. Adolphe	762.7 feet (232.47 m)	762.5 – 763.0 feet (232.40 - 232.55 m)	Will peak in the next 48 hours
Above Floodway Inlet	759.0 feet (231.34 m)	759.5 - 760.2 feet (231.50 - 231.70 m)	Will peak in the next 48 hours

Note: water levels at Emerson and Ste Agathe will differ from those posted on the Water Survey of Canada website because different vertical datums are in use. For conversion information please see the most recent flood sheet.

- PTH 75 remains open and based on the current forecast, is expected to remain open.
- Provincial crews are deployed in a number of communities in the Red River Valley preparing for and implementing ring dike closures. Pumping operations are underway at most ring dike communities. Flood response teams are observing recommended public health mitigation measures for COVID-19.
 - Partial dike closures are in place at Emerson on both the Noyes and West Lynne dikes, both diked areas remain accessible by road.
 - A partial dike closure on the east side of Letellier at PR 201 is in place.
 - A partial dike closure is in place on the east end of St. Jean Baptiste, the community remains accessible by PTH 75.

- A ramped closure on the north side of St. Adolphe at PR 200 is in place. The highway ditches on the south end have been filled in to prevent water from backing up into town.
- The Red River Floodway continues to be operated under Rule 1, reducing water levels in Winnipeg while maintaining water levels upstream of the inlet control structure at or just below natural. Flow in the Floodway channel was 18,945 cfs (537 cms) this morning.
- The current water level at James Ave is 18.6 feet (5.67 m). With the operation of the Floodway, the Red River level in Winnipeg at James Avenue is expected to peak between 19.0 feet and 19.3 feet between April 21 and April 23.

Assiniboine River Basin

- The water level on the Shellmouth Dam Reservoir is 1,396.5 feet (425.65 m). Inflow increased to 1,335 cfs (38 cms) and outflow remain at 25 cfs (0.7 cms). As part of the normal spring operation plan, the next Shellmouth Reservoir Regulation Liaison Committee meeting is scheduled for Wednesday, April 22nd.
- Flow on the lower Assiniboine River is 5,700 cfs (161 cms) and flow down the Portage Diversion channel is currently 318 cfs (9 cms). The Portage Diversion will be closed today as reservoir inflows continue to decline.

Northern Manitoba

- Temperatures are forecasted to remain above freezing in northern Manitoba regions, including the Saskatchewan River and Carrot River basins. Above freezing temperatures have initiated the snow melt within these basins and further snow melt is expected to occur in the coming few days. Levels have started to rise on these rivers and are expected to continue rising.
- Due to the near normal to slightly lower than normal snow content in many northern Manitoba basins, the rivers are expected to remain within the banks at most locations. The flood risk is generally low for northern Manitoba basins.
- Generally, near normal to slightly above normal runoff is expected within these basins.
- As in previous years, there is a risk of ice pile up and ice jamming that could create a sudden rise of levels on these basins in a short period of time.

Manitoba Lakes

- Wind speeds are forecasted to gust NW up to 60 km/hr this afternoon and evening (April 20th, 1:00 pm to 10:00 pm). This creates a moderate to high risk of ice pile up on the south shores of Lake Winnipeg (including areas near Gimli and Victoria beach), Lake Manitoba, Lake Winnipegosis, and Dauphin Lake.
- Manitoba's major lakes remain largely ice covered but the ice is weak and is beginning to degrade. The largest lakes are reported at 80% or greater ice coverage, with some smaller lakes in southern Manitoba showing 60% or greater ice coverage.

- The water levels on Manitoba's major lakes are relatively stable and within normal or desirable ranges. Lake levels will be posted later today at https://gov.mb.ca/mit/floodinfo/#forecasts_reports.
- Spring runoff inflow into Lake Manitoba, Dauphin Lake and most southern Manitoba lakes has already peaked or is near peak.

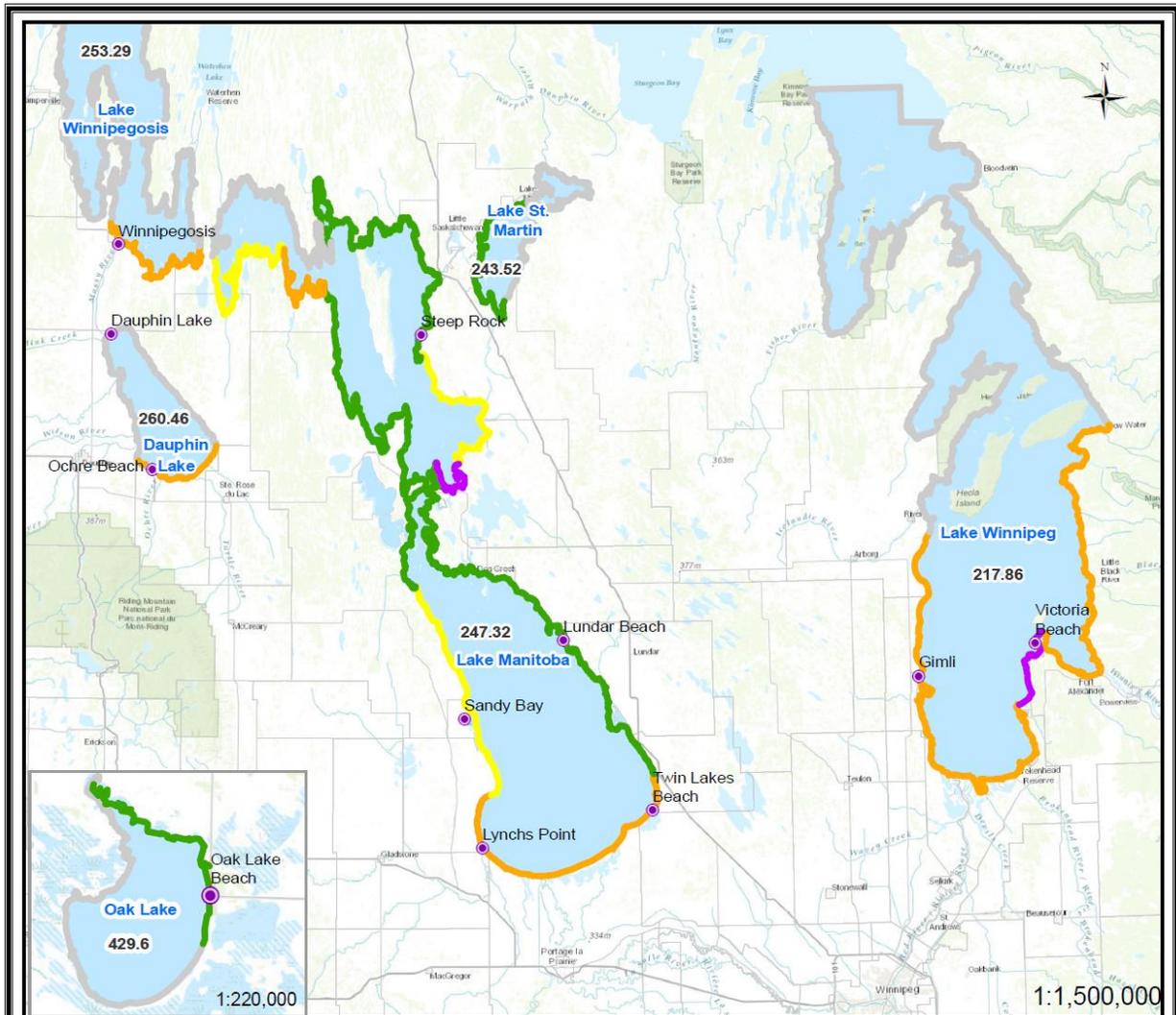
***Definitions**

Flood Warning: A flood warning is issued when river or lake levels are exceeding or are expected to be exceeding flood stage within the next 24 hours.

Flood Watch: A flood watch is issued when river or lake levels are approaching and likely to reach flood stage, but likely not within the next 24 hours.

High Water Advisory: A high water advisory is issued when a heavy storm or high flows are expected and may cause water levels to rise, but not necessarily reach flood stage. A high water advisory can be an early indicator for conditions that may lead to a flood watch or flood warning.

Manitoba Lake Wind Effect Forecast for April 20 PM, 2020



Location	Ave.Dir.from North (degree)	Ave. Speed (km/h)	Location	Ave.Dir.from North (degree)	Ave. Speed (km/h)	Severity	Wind effect
Dauphin Lake	N (357)	36	Manipogo area	N (344)	36	Severe	Wind effect will be severe
MB Lake west side - Sandy Bay	N (344)	43	Crane River area	NW (334)	33	High	Wind effect will be high
MB Lake south side - Twin Beaches	NW (335)	41	Wpg Lake - Victoria Beach	N (340)	34	Moderate-High	Wind effect will be moderate-high
MB Lake middle - Vogar/The Narrows	NW (337)	40	Wpg Lake - Gimli Beach	N (348)	29	Moderate	Wind effect will be moderate
MB Lake east side - Lundar Beach	NW (337)	34	Wpg Lake - Alberta Beach	N (339)	31	Low	Wind effect will be low
Norhnd 1	NW (336)	26	Wpg Lake - O'Harly	NW (335)	30	No Data	Wind effect data not available
Norhnd 2	NW (335)	28	Wpg Lake south side	N (355)	29		
Guynemer	NW (335)	36	Lake Winnipegosis south side	N (359)	33		
The Bluff	NW (337)	39	Oak Lake east side community	N (344)	32		
Wapah area	NW (333)	41	Oak Lake north side community	N (344)	32		
Dolly Creek area	NW (333)	41	Lake St. Martin north side	N (353)	24		
Mathesons Point	N (340)	31	Lake St. Martin west side	N (347)	22		
Steep rock	NW (335)	32	Lake St. Martin southwest side	N (352)	26		
Fairford area	NW (336)	26	Lake St. Martin south Side	N (352)	26		

Note: All water levels labeled within the lakes are current wind eliminated lake levels provided in meters
Hydrologic Forecasting and Water Management of Manitoba Infrastructure

